

Digital Inverter 8 & 10 HP for Europe and Africa

Outdoor units

RAV-GM2243AT8(J)P-E/TR
RAV-GM2803AT8(J)P-E/TR

Indoor units

HSP Duct type
RAV-RM2241DTP-E2 / TR2
RAV-RM2801DTP-E2 / TR2

4-way cassette type
RAV-HM561UTP-E / TR
RAV-HM801UTP-E / TR
RAV-HM1101UTP-E / TR
RAV-HM1401UTP-E / TR

Compact 4-way cassette type
RAV-HM561MUTP-E / TR

Standard Duct type
RAV-HM561BTP-E / TR
RAV-HM801BTP-E / TR
RAV-HM1101BTP-E / TR
RAV-HM1401BTP-E / TR

Slim Duct type
RAV-HM561SDTY-E / TR
RAV-HM801SDTY-E / TR

Under Ceiling type
RAV-HM561CTP-E / TR
RAV-HM801CTP-E / TR
RAV-HM1101CTP-E / TR
RAV-HM1401CTP-E / TR

High Wall type
RAV-HM561KRTP-E / TR
RAV-HM801KRTP-E / TR
RAV-HM1101KRTP-E / TR

Floor Standing
RAV-HM561FT-E / TR
RAV-HM801FT-E / TR
RAV-HM1101FT-E / TR
RAV-HM1401FT-E / TR
RAV-HM1601FT-E / TR

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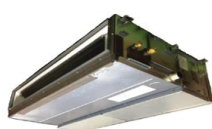
1. Line up

Outdoor unit line-up

Model name	RAV-GM2243AT8(J)P-E/TR	RAV-GM2803AT8(J)P-E/TR
Appearance	 Dimension : 890H x 1100W x 460D Weight : 115 kg	

1-1. Single Line-up

Indoor unit line-up

Capacity Type		**	241	280
HP equivalent			8.0	10.0
High Static Duct		RAV-RM2**1DTP-E2 / TR2	241	280

1-2. Twin Line-up

Indoor unit line-up

Capacity Type		**	110	140
HP equivalent (FCU x 2)			4.00	5.00
Outdoor Unit		RAV-GM	2243AT8P-E	2803AT8P-E
4-way Cassette		RAV- HM**1UTP-E/TR *2	110	140
Standard Duct		RAV-HM**1BTP-E/TR *2	110	140
Under Ceiling		RAV-HM**1CTP-E/TR *2	110	140
High Wall		RAV-HM**1KRTP-E/TR *2	110	-
Floorstanding		RAV-HM**1FT-E/TR *2	110	140

1-3. Triple Line-up

Indoor unit line-up

Capacity Type			80	
HP equivalent (FCU x 3)			3.00	3.00
Outdoor Unit			2243AT8P-E	2803AT8P-E
RAV-GM				
Standard Duct		RAV-HM**1BTP-E/TR *3	80	80
Slim Duct		RAV-HM**1SDTY-E/TR *3	80	80
4-way Cassette		RAV-HM**1UTP-E/TR *3	80	80
Under Ceiling		RAV-HM**1CTP-E/TR *3	80	80
High Wall		RAV-HM**1KRTP-E/TR *3	80	80
Floorstanding		RAV-HM**1FT-E/TR *3	80	80

1-4. Double Twin Line-up

Indoor unit line-up

Capacity Type		..	56	80
HP equivalent (FCU x 4)			2.00	3.00
Outdoor Unit		RAV-GM	2243AT8P-E	2803AT8P-E
Standard Duct		RAV- HM**1BTP-E/TR *4	56	80
Compact 4-way Cassette		RAV-HM**1MUT-E/TR *4	56	-
Slim Duct		RAV-HM**1SDT-E/TR *4	56	80
4-way Cassette		RAV- HM**1UTP-E/TR *4	56	80
Under Ceiling		RAV-HM**1CTP-E/TR *4	56	80
High Wall		RAV- HM**1KRTP-E/TR *4	56	80
Floorstanding		RAV-HM**1FT-E / TR *4	56	80

■ Combination Pattern (Indoor Unit / Outdoor Unit)

<RAV-GM224 series>

Single

Concealed Duct
High static Pressure Type
RAV-RM2241DTP-E2

Simultaneous twin

4-way cassette type	Concealed duct type	
RAV-HM1101UTP-E/TR x 2	RAV-HM1101BTP-E/TR x 2	
Floor standing type	Ceiling type	High wall type
RAV-HM1101FT-E/TR x 2	RAV-HM1101CTP-E/TR x 2	RAV-HM1101KRTP-E/TR x 2

Simultaneous tripple

4-way cassette type	Concealed duct type	Slim duct type
RAV-HM801UTP-E/TR x 3	RAV-HM801BTP-E/TR x 3	RAV-HM801SDTY-E/TR x 3
Floor standing type	Ceiling type	High wall type
RAV-HM801FT-E/TR x 3	RAV-HM801CTP-E/TR x 3	RAV-HM801KRTP-E/TR x 3

Simultaneous double twin

4-way cassette type	Compact 4-way cassette type	Concealed duct type	
RAV-HM561UTP-E/TR x 4	RAV-HM561MUTP-E/TR x 4	RAV-HM561BTP-E/TR x 4	
Slim duct type	Floor standing type	Ceiling type	High wall type
RAV-HM561SDTY-E/TR x 4	RAV-HM561FT-E/TR x 4	RAV-HM561CTP-E/TR x 4	RAV-HM561KRTP-E/TR x 4

<RAV-GM280 series>

Single

Concealed Duct
High static Pressure Type
RAV-RM2801DTP-E2

Simultaneous twin

4-way cassette type	Concealed duct type	Floor standing type	Ceiling type
RAV-HM1401UTP-E/TR x 2	RAV-HM1401BTP-E/TR x 2	RAV-HM1401FT-E/TR x 2	RAV-HM1401CTP-E/TR x 2

Simultaneous tripple

4-way cassette type	Concealed duct type	Slim duct type
RAV-HM801UTP-E/TR x 3	RAV-HM801BTP-E/TR x 3	RAV-HM801SDTY-E/TR x 3
Floor standing type	Ceiling type	High wall type
RAV-HM801FT-E/TR x 3	RAV-HM801CTP-E/TR x 3	RAV-HM801KRTP-E/TR x 3

Simultaneous double twin

4-way cassette type	Concealed duct type	Slim duct type
RAV-HM801UTP-E/TR x 4	RAV-HM801BTP-E/TR x 4	RAV-HM801SDTY-E/TR x 4
Floor standing type	Ceiling type	High wall type
RAV-HM801FT-E/TR x 4	RAV-HM801CTP-E/TR x 4	RAV-HM801KRTP-E/TR x 4

2. Indoor Unit

2-1. High Static Ducted Type

2-1-1. Specifications

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2-1-1. Specification

High Static Duct Pressure Type

Single combination

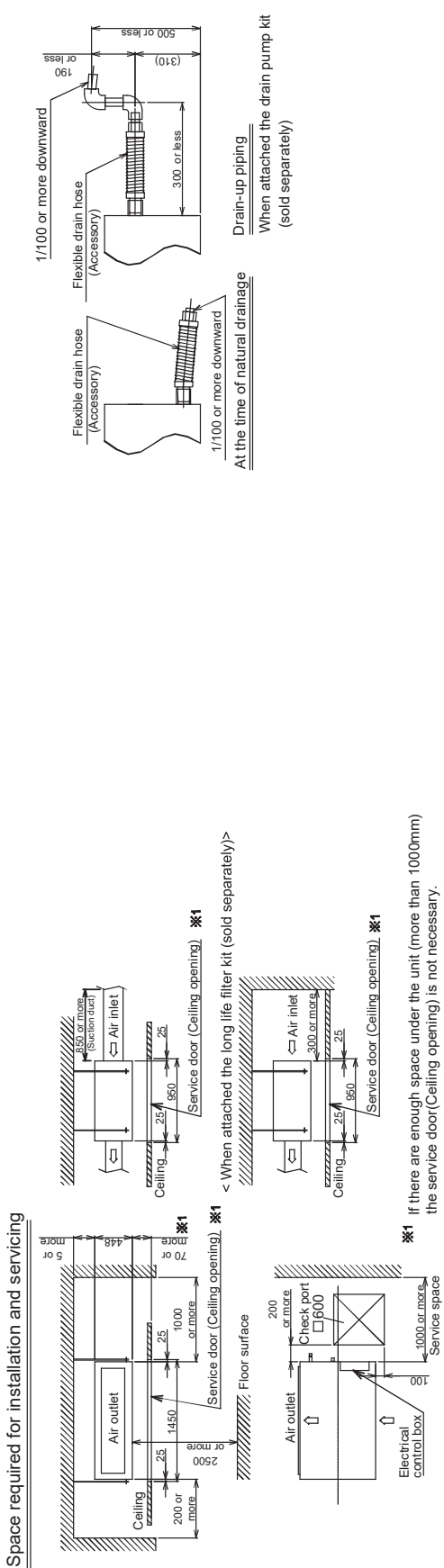
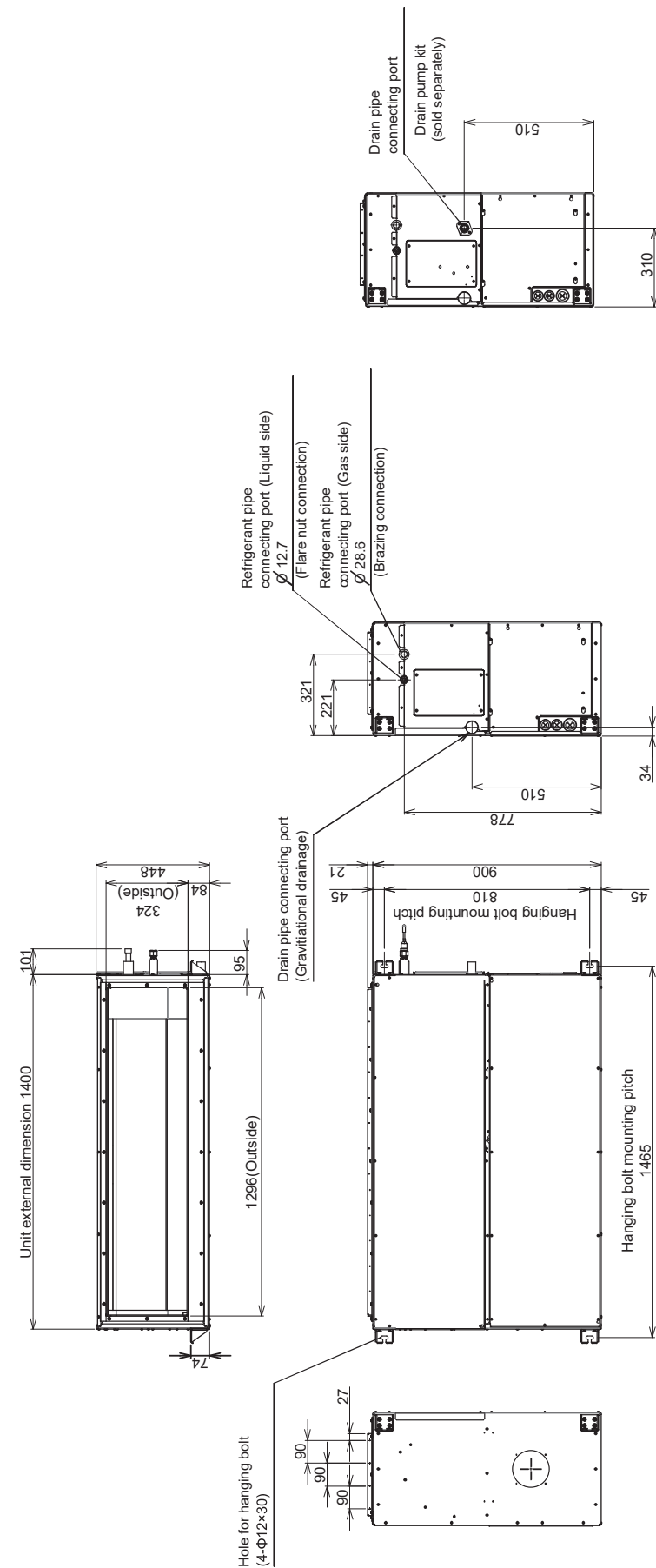
Model name		Indoor Unit		RAV-	RM2241DTP-E2, -TR2	RM2801DTP-E2, -TR2
		Outdoor Unit		RAV-	G M2243AT8P-E, -TR	GM2803AT8P-E, -TR
Cooling capacity				(kW)	19.0	22.5
Heating capacity				(kW)	22.4	27.0
Electrical characteristics (factory setting)	Cooling	Indoor Unit	Power supply	1phase 50Hz 220-240V & 60Hz 220V		
			Running current	(A)	2.81	3.75
			Power consumption	(kW)	0.530	0.785
			Power factor	(-)	0.82	0.91
		Total	Power consumption (min-max)	(kW)	5.86 (1.27-9.05)	7.98 (1.27-11.87)
			EER		5.82	5.49
	Heating	Indoor Unit	Power supply	1phase 50Hz 220-240V & 60Hz 220V		
			Running current	(A)	2.81	3.75
			Power consumption	(kW)	0.530	0.785
			Power factor	(-)	0.82	0.91
		Total	Power consumption (min-max)	(kW)	5.71 (1.27-10.15)	7.52 (1.27-13.83)
			COP		3.78	3.69
	Maximum Current	Indoor Unit	starting current	(A)	3.70	3.70
Appearance				Zinc hot dipping steel plate		
Dimension			Height	(mm)	448	
			Width	(mm)	1400	
			Depth	(mm)	900	
Weight				(kg)	97	
Heat exchanger				Finned tube		
Soundproof / Heat-insulating material				Polyethylene foam		
Fan unit			Fan		Centrifugal fan	
			Standard air flow (Med./Low)	(m3/h)	3,800 (3,200 / 2,500)	4,800 (4,200 / 3,500)
			Motor output	(kW)	1kW * 1pc	
			External static pressure (factory setting)	(Pa)	150	
			External static pressure range	(Pa)	50-83-117-150-183-217-250 (7steps)	
Controller				Remote controller		
Air filter				Sold separately (TCB-LK2801DP-E)		
Drain pump				Sold separately (TCB-DP40DPE)		
Connecting pipe			Gas side	(mm)	ø 28.6	
			Liquid side	(mm)	ø 12.7	
			Drain port	(mm)	25(Polyvinyl chloride tube)	
Sound pressure level (High/Med./Low)(factory setting)				(dB(A))	44 / 40 / 36	46 / 42 / 38
Sound power level (High/Med./Low)				(dB(A))	79 / 75 / 71	81 / 77 / 73

Note : Rated conditions Cooling : Indoor air tempreature 27 °C DB/ 19°C WB, Outdoor 35 °C DB
 Heating : Indoor air tempreature 20 °C DB, Outdoor 7°C DB / 6°C WB

2-1-2. Dimension

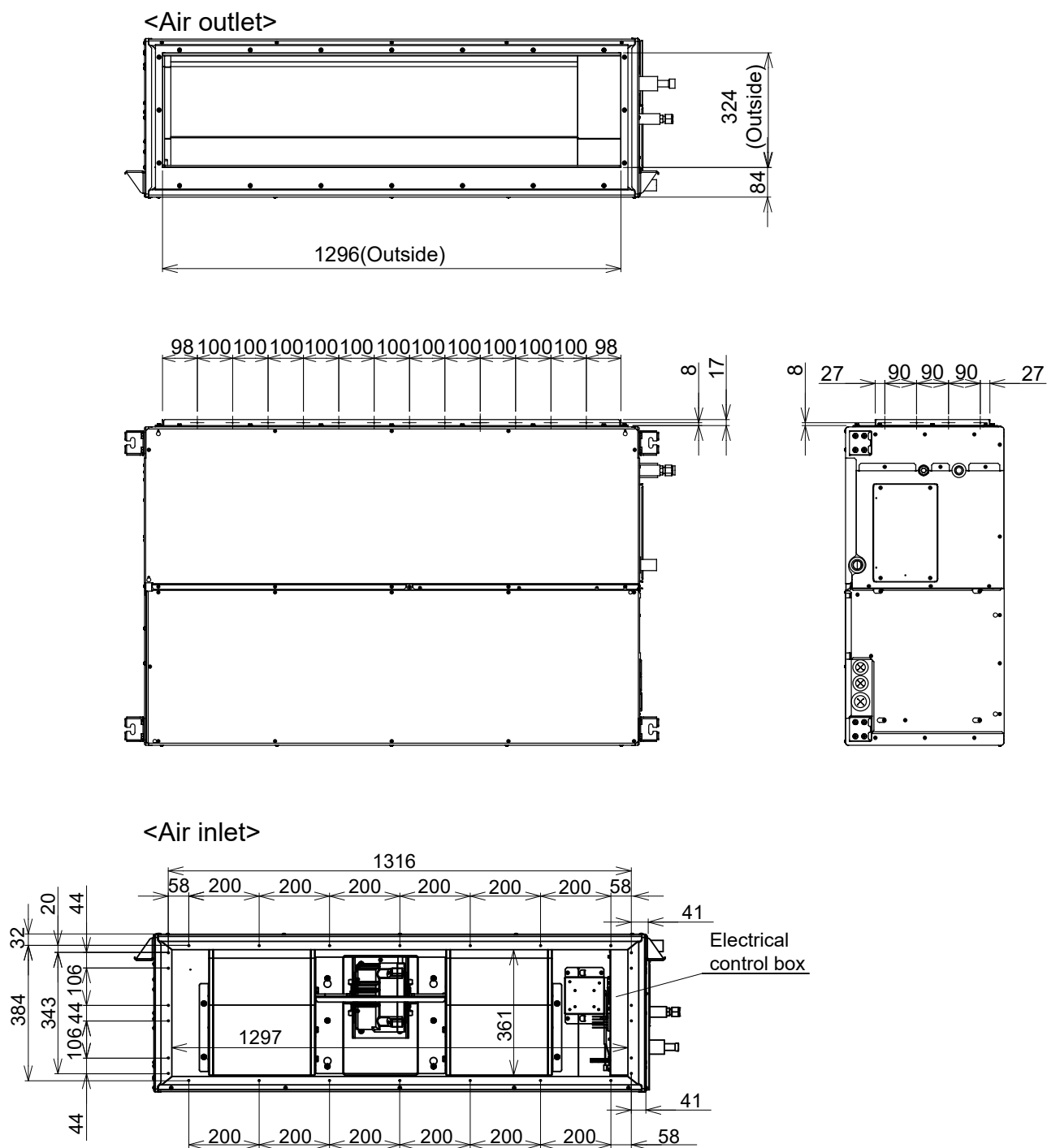
RAV-RM2241DTP-E2/TR2 , RAV-RM2801DTP-E2/TR2

Unit : mm



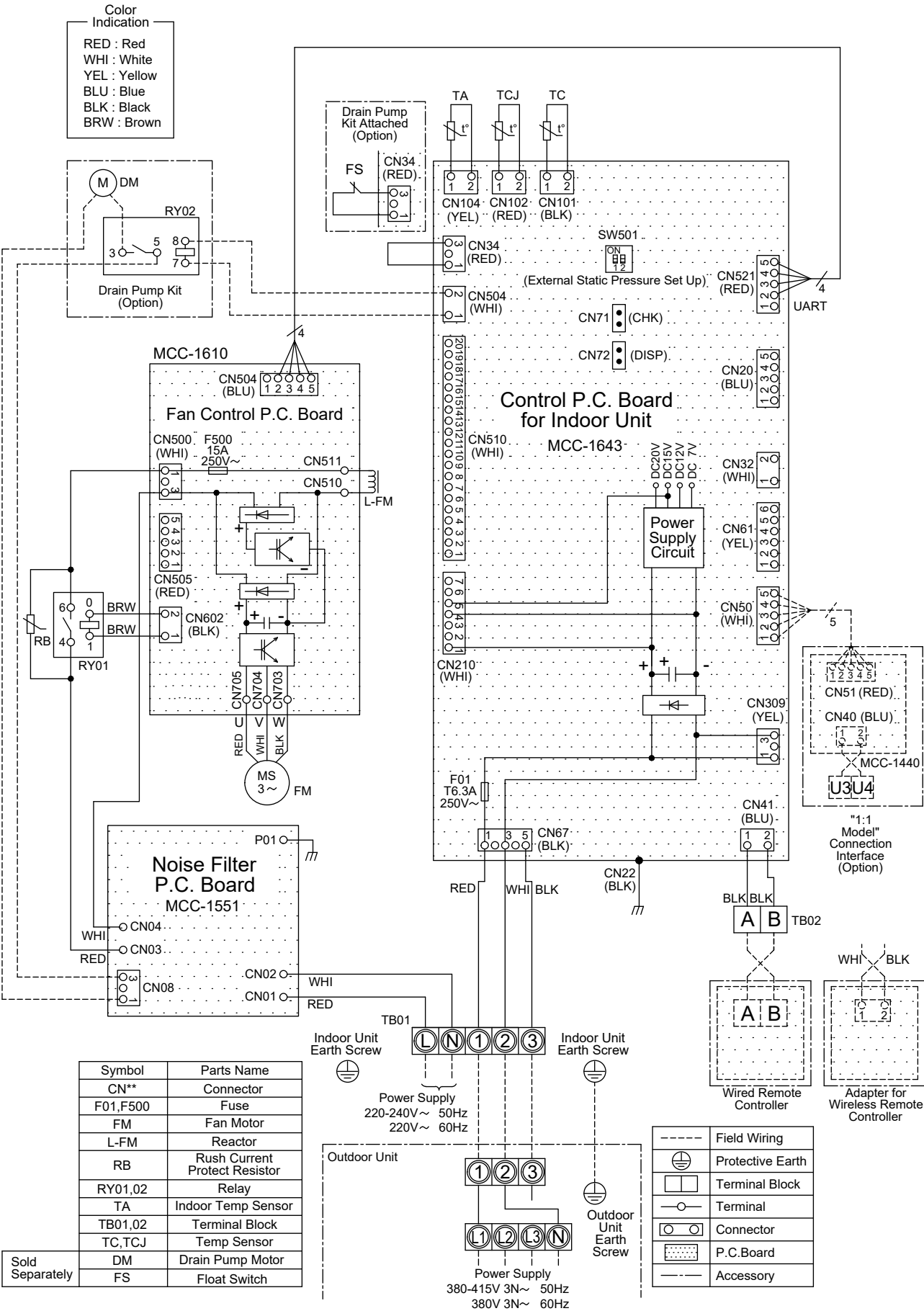
Duct arrangement

Unit : mm



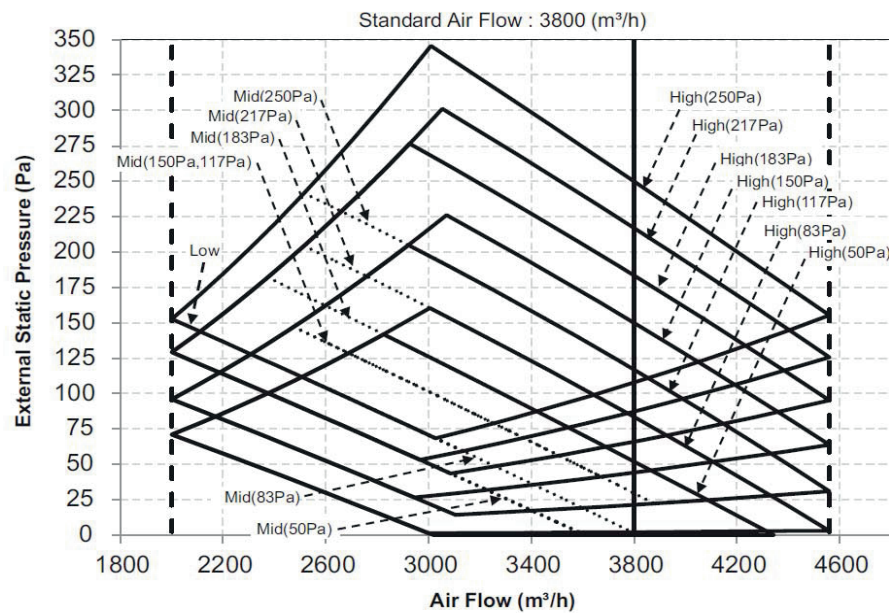
2-1.3 WIRING DIAGRAMS

RAV-RM2241DTP-E2/TR2 , RAV-RM2801DTP-E2/TR2

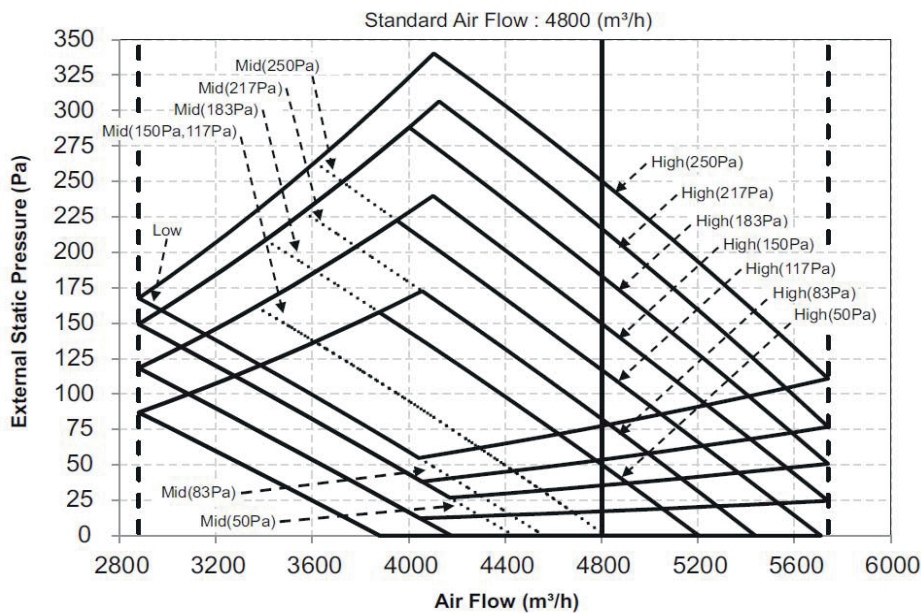


2-1.4. Fan Characteristics

RAV-RM2241DTP-E2

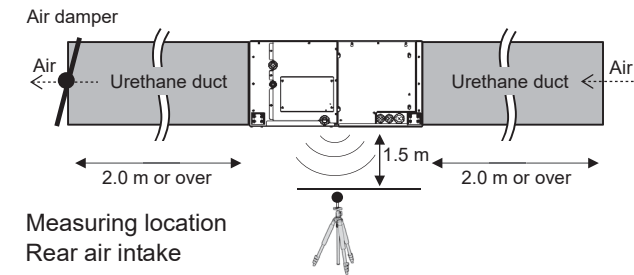


RAV-RM2801DTP-E2

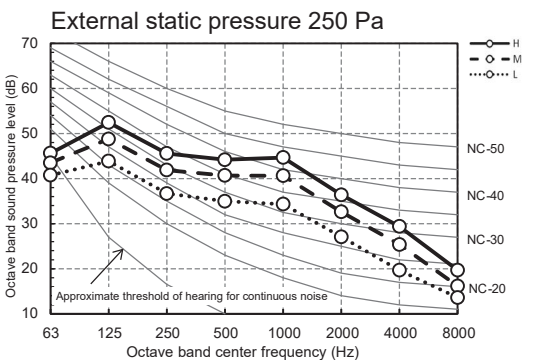
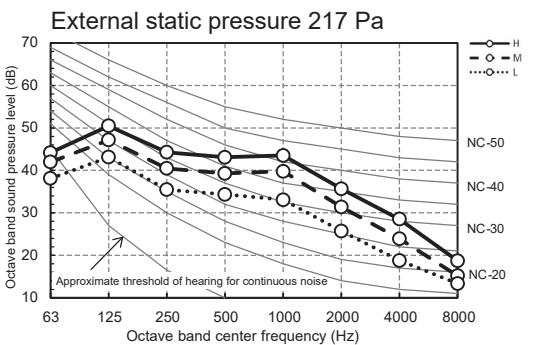
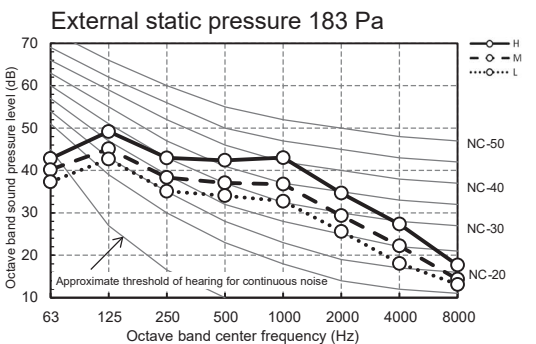
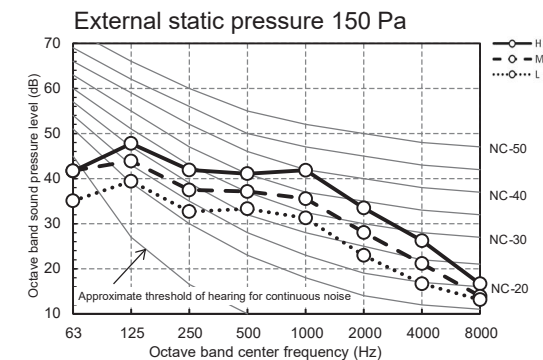
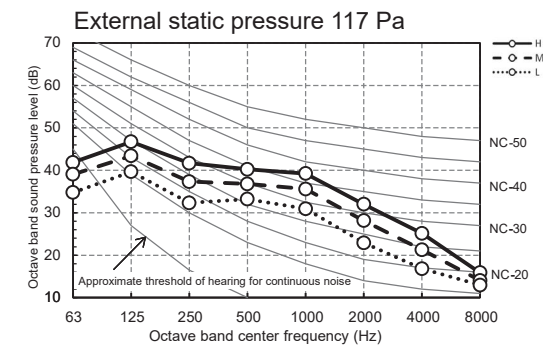
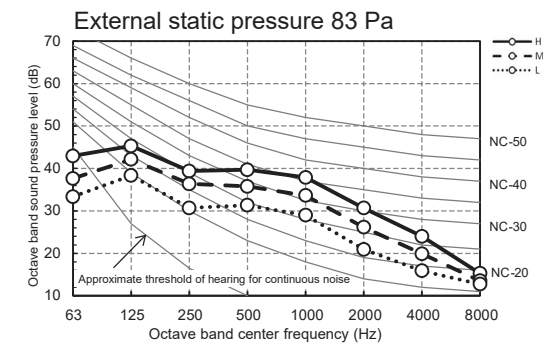
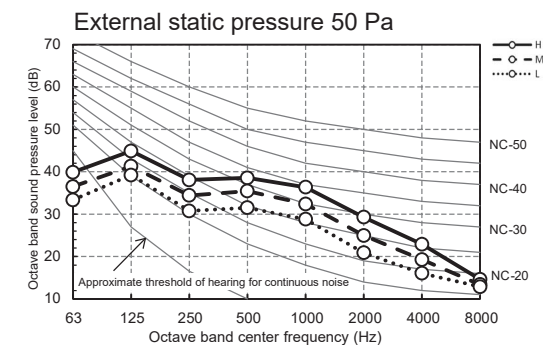


2-1-5. Sound data

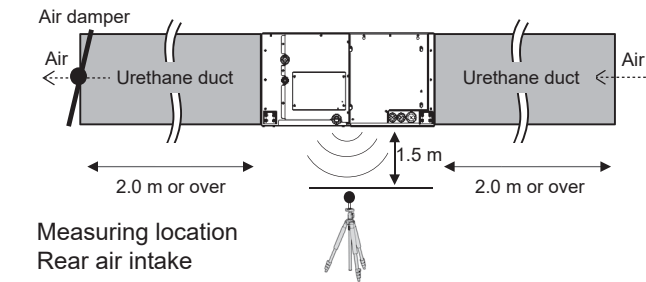
RAV-RM2241DTP-E2



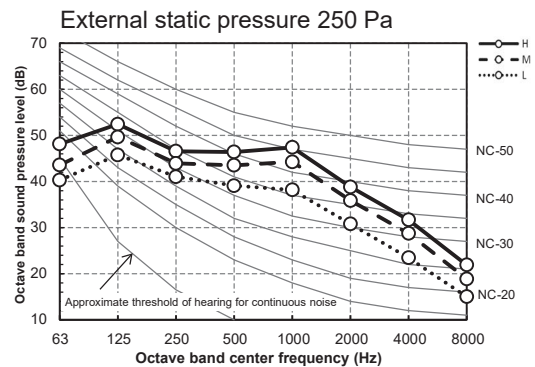
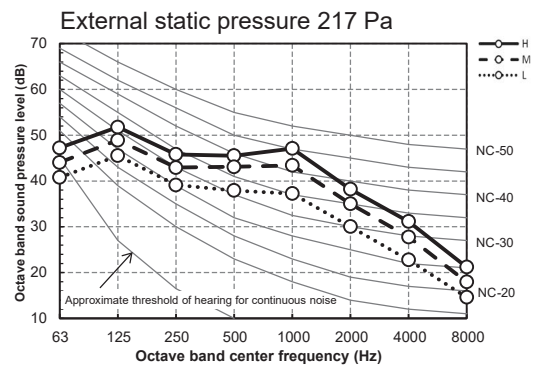
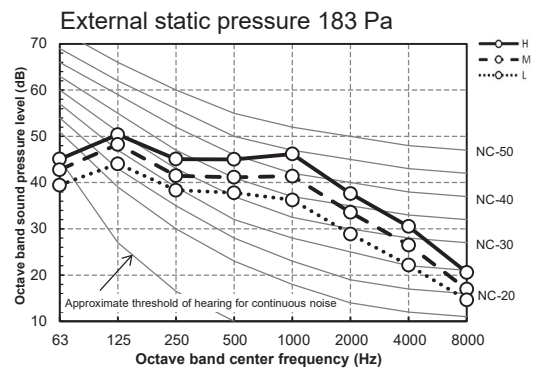
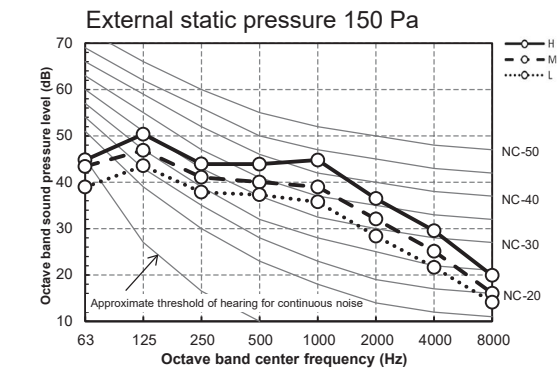
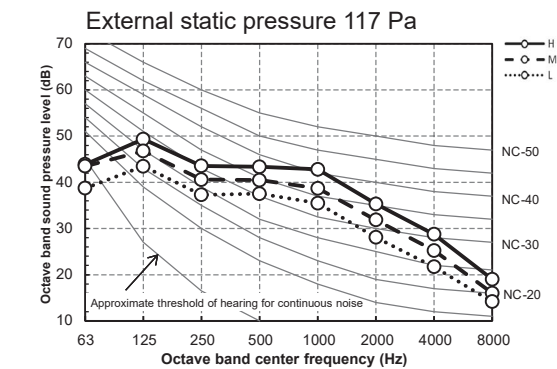
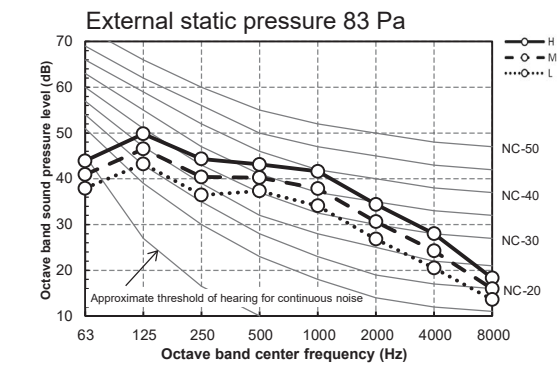
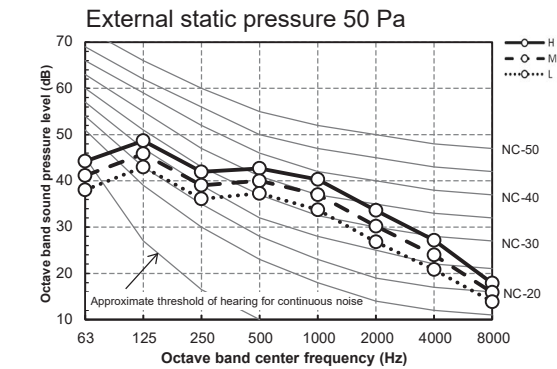
ESP (Pa)	Sound Pressure Level (dBA)		
	H	M	L
50	42.5	38.5	34.5
83	43.0	39.0	35.0
117	43.5	39.5	35.5
150	44.0	40.0	36.0
183	45.0	41.0	37.0
217	46.0	42.0	38.0
250	47.0	43.0	39.0



RAV-RM2801DTP-E2



ESP (Pa)	Sound Pressure Level (dBA)		
	H	M	L
50	44.5	40.5	36.5
83	45.0	41.0	37.0
117	45.5	41.5	37.5
150	46.0	42.0	38.0
183	47.0	43.0	39.0
217	48.0	44.0	40.0
250	49.0	45.0	41.0



2-1-6. Sensible Capacity

Product models : RAV-GM2243AT8P-E / RAV-RM2241DTP-E2 (Single)

Standard Condition

Indoor	27.0 °C DB / 19.0 °C WB
Outdoor	35.0 °C DB / 24.0 °C WB

Specification of product at standard condition.

Total Cooling Capacity (TC)	19.00	kW
Sensible Heat Capacity (SHC)	15.40	kW

Outdoor air temp. °C DB	Indoor Air temperature																	
	14.0 °C WB		15.0 °C WB		16.0 °C WB		17.0 °C WB		18.0 °C WB		19.0 °C WB		20.0 °C WB		22.0 °C WB		24.0 °C WB	
	20.0 °C DB		21.0 °C DB		23.0 °C DB		24.0 °C DB		26.0 °C DB		27.0 °C DB		28.0 °C DB		30.0 °C DB		32.0 °C DB	
°C DB	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
10.0	20.61	17.96	21.33	18.37	22.76	19.16	23.30	19.56	24.38	20.37	25.10	20.34	25.81	20.34	27.34	20.17	28.59	19.80
12.0	20.21	17.61	20.92	18.02	22.32	18.78	22.85	19.18	23.90	19.97	24.61	19.95	25.31	19.94	26.81	19.78	28.04	19.41
14.0	19.81	17.26	20.50	17.66	21.88	18.41	22.40	18.80	23.43	19.58	24.12	19.55	24.81	19.55	26.27	19.38	27.48	19.03
16.0	19.41	16.91	20.09	17.30	21.44	18.04	21.95	18.42	22.96	19.18	23.63	19.16	24.31	19.15	25.74	18.99	26.92	18.64
18.0	19.01	16.57	19.67	16.95	20.99	17.67	21.49	18.04	22.48	18.79	23.15	18.76	23.81	18.76	25.21	18.60	26.37	18.26
20.0	18.61	16.22	19.26	16.59	20.55	17.30	21.04	17.66	22.01	18.39	22.66	18.36	23.31	18.36	24.68	18.21	25.81	17.87
21.0	18.41	16.04	19.05	16.41	20.33	17.11	20.81	17.47	21.77	18.19	22.41	18.17	23.05	18.16	24.42	18.01	25.54	17.68
23.0	18.01	15.69	18.64	16.05	19.89	16.74	20.36	17.09	21.30	17.80	21.93	17.77	22.55	17.77	23.88	17.62	24.98	17.30
25.0	17.61	15.34	18.22	15.70	19.45	16.36	19.91	16.71	20.83	17.40	21.44	17.38	22.05	17.37	23.35	17.23	24.42	16.91
27.0	17.21	14.99	17.81	15.34	19.00	15.99	19.45	16.33	20.35	17.00	20.95	16.98	21.55	16.98	22.82	16.84	23.87	16.53
29.0	16.81	14.65	17.39	14.98	18.56	15.62	19.00	15.95	19.88	16.61	20.46	16.59	21.05	16.58	22.29	16.44	23.31	16.14
31.0	16.41	14.30	16.98	14.63	18.12	15.25	18.55	15.57	19.40	16.21	19.98	16.19	20.55	16.19	21.76	16.05	22.76	15.76
33.0	16.01	13.95	16.56	14.27	17.68	14.88	18.10	15.19	18.93	15.82	19.49	15.80	20.05	15.79	21.23	15.66	22.20	15.37
35.0	15.61	13.60	16.15	13.91	17.23	14.50	17.64	14.81	18.46	15.42	19.00	15.40	19.54	15.40	20.70	15.27	21.65	14.99
37.0	15.21	13.25	15.73	13.55	16.79	14.13	17.19	14.43	17.98	15.03	18.51	15.00	19.04	15.00	20.17	14.88	21.09	14.60
39.0	14.38	12.53	14.88	12.82	15.88	13.37	16.26	13.65	17.01	14.21	17.51	14.19	18.01	14.19	19.07	14.07	19.95	13.81
40.0	14.10	12.29	14.59	12.57	15.57	13.11	15.94	13.38	16.68	13.93	17.17	13.92	17.66	13.91	18.70	13.80	19.56	13.54
42.0	13.54	11.80	14.01	12.07	14.95	12.58	15.31	12.85	16.01	13.38	16.49	13.36	16.96	13.36	17.96	13.25	18.78	13.01
43.0	13.26	11.55	13.72	11.82	14.64	12.32	14.99	12.59	15.68	13.10	16.14	13.09	16.61	13.08	17.59	12.97	18.39	12.74
45.0	11.48	10.00	11.88	10.23	12.68	10.67	12.98	10.89	13.58	11.34	13.98	11.33	14.37	11.32	15.22	11.23	15.92	11.02
46.0	11.20	9.76	11.59	9.98	12.37	10.41	12.66	10.63	13.24	11.07	13.63	11.05	14.02	11.05	14.85	10.96	15.53	10.76

Product models : RAV-GM2803AT8P-E / RAV-RM2801DTP-E2 (Single)

Standard Condition

Indoor	27.0 °C DB / 19.0 °C WB
Outdoor	35.0 °C DB / 24.0 °C WB

Specification of product at standard condition.

Total Cooling Capacity (TC)	22.50 kW
Sensible Heat Capacity (SHC)	19.30 kW

Outdoor air temp. °C DB	Indoor Air temperature																	
	14.0 °C WB		15.0 °C WB		16.0 °C WB		17.0 °C WB		18.0 °C WB		19.0 °C WB		20.0 °C WB		22.0 °C WB		24.0 °C WB	
	20.0 °C DB		21.0 °C DB		23.0 °C DB		24.0 °C DB		26.0 °C DB		27.0 °C DB		28.0 °C DB		30.0 °C DB		32.0 °C DB	
	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
10.0	24.41	22.42	25.26	22.95	26.96	23.96	27.60	24.47	28.87	25.48	29.72	25.49	30.57	25.53	32.37	25.41	33.86	25.04
12.0	23.94	21.99	24.77	22.51	26.43	23.49	27.06	24.00	28.31	24.99	29.14	25.00	29.97	25.03	31.74	24.92	33.20	24.56
14.0	23.46	21.55	24.28	22.06	25.91	23.03	26.52	23.52	27.75	24.49	28.56	24.50	29.38	24.54	31.11	24.42	32.54	24.07
16.0	22.99	21.12	23.79	21.61	25.39	22.56	25.99	23.05	27.19	24.00	27.99	24.01	28.79	24.04	30.49	23.93	31.88	23.58
18.0	22.51	20.68	23.30	21.17	24.86	22.10	25.45	22.57	26.62	23.50	27.41	23.51	28.19	23.54	29.86	23.44	31.23	23.10
20.0	22.04	20.24	22.81	20.72	24.34	21.63	24.92	22.09	26.06	23.01	26.83	23.02	27.60	23.05	29.23	22.94	30.57	22.61
21.0	21.80	20.03	22.56	20.50	24.08	21.40	24.65	21.86	25.78	22.76	26.54	22.77	27.30	22.80	28.91	22.70	30.24	22.37
23.0	21.33	19.59	22.07	20.05	23.55	20.93	24.11	21.38	25.22	22.27	25.97	22.27	26.71	22.30	28.28	22.20	29.58	21.88
25.0	20.85	19.16	21.58	19.61	23.03	20.47	23.57	20.91	24.66	21.77	25.39	21.78	26.11	21.81	27.65	21.71	28.92	21.39
27.0	20.38	18.72	21.09	19.16	22.51	20.00	23.04	20.43	24.10	21.28	24.81	21.28	25.52	21.31	27.03	21.21	28.27	20.91
29.0	19.90	18.28	20.60	18.72	21.98	19.54	22.50	19.95	23.54	20.78	24.23	20.79	24.93	20.81	26.40	20.72	27.61	20.42
31.0	19.43	17.85	20.11	18.27	21.46	19.07	21.97	19.48	22.98	20.28	23.66	20.29	24.33	20.32	25.77	20.23	26.95	19.93
33.0	18.96	17.41	19.62	17.82	20.93	18.61	21.43	19.00	22.42	19.79	23.08	19.80	23.74	19.82	25.14	19.73	26.29	19.45
35.0	18.48	16.98	19.12	17.38	20.41	18.14	20.89	18.53	21.86	19.29	22.50	19.30	23.14	19.33	24.51	19.24	25.63	18.96
37.0	18.01	16.54	18.63	16.93	19.89	17.67	20.36	18.05	21.30	18.80	21.92	18.80	22.55	18.83	23.88	18.75	24.98	18.47
39.0	15.26	14.02	15.79	14.35	16.85	14.98	17.25	15.30	18.05	15.93	18.58	15.94	19.11	15.96	20.24	15.89	21.17	15.66
40.0	14.93	13.71	15.45	14.04	16.49	14.65	16.88	14.97	17.65	15.58	18.17	15.59	18.69	15.61	19.80	15.54	20.71	15.32
42.0	14.26	13.10	14.76	13.41	15.75	14.00	16.12	14.30	16.87	14.89	17.36	14.89	17.86	14.92	18.91	14.85	19.78	14.63
43.0	13.93	12.80	14.41	13.10	15.38	13.67	15.75	13.97	16.47	14.54	16.96	14.55	17.44	14.57	18.47	14.50	19.32	14.29
45.0	12.20	11.21	12.63	11.47	13.48	11.98	13.80	12.23	14.43	12.74	14.86	12.74	15.28	12.76	16.18	12.70	16.93	12.52
46.0	11.87	10.90	12.28	11.16	13.11	11.65	13.42	11.90	14.04	12.39	14.45	12.40	14.86	12.41	15.74	12.36	16.46	12.18

2-1-7. Part Load performance

Combination <Rated condition>

Indoor: RAV-RM2241DTP-E2

Outdoor: RAV-GM2243AT8(J)P-E

Operation range	Cooling		Heating	
	Q	P	Q	P
MINIMUM	W 4600	1300	4600	1250
RATING	W 19000	5970	22400	6910

Cooling

Outdoor Temperature DB (°C)	Parts Load (%)																			
	100		90		80		70		60		50		40		30		20		10	
	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P
20	22658	4686	20392	4203	18126	3719	15860	3235	13595	2752	11329	2268	9063	1784	6797	1301	5486	1021	5486	1021
21	22414	4772	20172	4279	17931	3787	15690	3294	13448	2802	11207	2309	8965	1817	6724	1324	5426	1039	5426	1039
22	22170	4858	19953	4356	17736	3855	15519	3353	13302	2852	11085	2351	8868	1849	6651	1348	5367	1058	5367	1058
23	21926	4943	19733	4433	17541	3923	15348	3413	13156	2902	10963	2392	8770	1882	6578	1372	5308	1076	5308	1076
24	21682	5029	19514	4510	17346	3991	15178	3472	13009	2953	10841	2434	8673	1915	6505	1396	5249	1095	5249	1095
25	21438	5114	19295	4586	17151	4059	15007	3531	12863	3003	10719	2475	8575	1947	6432	1419	5190	1114	5190	1114
26	21195	5200	19075	4663	16956	4126	14836	3590	12717	3053	10597	2516	8478	1980	6358	1443	5131	1132	5131	1132
27	20951	5285	18856	4740	16761	4194	14665	3649	12570	3103	10475	2558	8380	2012	6285	1467	5072	1151	5072	1151
28	20707	5371	18636	4817	16565	4262	14495	3708	12424	3154	10353	2599	8283	2045	6212	1491	5013	1170	5013	1170
29	20463	5457	18417	4893	16370	4330	14324	3767	12278	3204	10232	2641	8185	2077	6139	1514	4954	1188	4954	1188
30	20219	5542	18197	4970	16175	4398	14153	3826	12132	3254	10110	2682	8088	2110	6066	1538	4895	1207	4895	1207
31	19975	5628	17978	5047	15980	4466	13983	3885	11985	3304	9988	2723	7990	2143	5993	1562	4836	1225	4836	1225
32	19732	5713	17758	5124	15785	4534	13812	3944	11839	3355	9866	2765	7893	2175	5919	1585	4777	1244	4777	1244
33	19488	5799	17539	5200	15590	4602	13641	4003	11693	3405	9744	2806	7795	2208	5846	1609	4718	1263	4718	1263
34	19244	5884	17319	5277	15395	4670	13471	4062	11546	3455	9622	2848	7698	2240	5773	1633	4659	1281	4659	1281
35	19000	5970	17100	5354	15200	4738	13300	4121	11400	3505	9500	2889	7600	2273	5700	1657	4600	1300	4600	1300
36	18756	6056	16881	5431	15005	4806	13129	4181	11254	3556	9378	2931	7502	2305	5627	1680	4541	1319	4541	1319
37	18512	6141	16661	5507	14810	4873	12959	4240	11107	3606	9256	2972	7405	2338	5554	1704	4482	1337	4482	1337
38	18269	6227	16442	5584	14615	4941	12788	4299	10961	3656	9134	3013	7307	2371	5481	1728	4423	1356	4423	1356
39	17510	5861	15759	5256	14008	4651	12257	4046	10506	3441	8755	2836	7004	2231	5253	1627	4239	1276	4239	1276
40	17168	5861	15452	5256	13735	4651	12018	4046	10301	3441	8584	2836	6867	2231	5151	1627	4157	1276	4157	1276
41	16827	5861	15144	5256	13462	4651	11779	4046	10096	3441	8413	2836	6731	2231	5048	1627	4074	1276	4074	1276
42	16485	5861	14837	5256	13188	4651	11540	4046	9891	3441	8243	2836	6594	2231	4946	1627	3991	1276	3991	1276
43	16144	5861	14530	5256	12915	4651	11301	4046	9686	3441	8072	2836	6458	2231	4843	1627	3909	1276	3909	1276
44	14317	4559	12885	4088	11453	3618	10022	3147	8590	2677	7158	2206	5727	1736	4295	1265	3466	993	3466	993
45	13975	4559	12578	4088	11180	3618	9783	3147	8385	2677	6988	2206	5590	1736	4193	1265	3383	993	3383	993
46	13634	4559	12270	4088	10907	3618	9544	3147	8180	2677	6817	2206	5453	1736	4090	1265	3301	993	3301	993

Heating

Outdoor Temperature DB (°C)	Parts Load (%)																			
	100		90		80		70		60		50		40		30		20		10	
	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P
-27	6069	2779	5462	2493	4855	2206	4248	1920	3641	1633	3034	1347	2428	1060	1821	774	1246	503	1246	503
-26	6444	2896	5800	2598	5155	2299	4511	2001	3866	1702	3222	1404	2578	1105	1933	806	1323	524	1323	524
-25	6819	3013	6137	2703	5455	2392	4774	2081	4092	1771	3410	1460	2728	1150	2046	839	1400	545	1400	545
-24	7195	3130	6475	2808	5756	2485	5036	2162	4317	1840	3597	1517	2878	1194	2158	872	1477	566	1477	566
-23	7570	3247	6813	2913	6056	2578	5299	2243	4542	1908	3785	1574	3028	1239	2271	904	1555	587	1555	587
-22	7945	3364	7151	3017	6356	2671	5562	2324	4767	1977	3973	1630	3178	1284	2384	937	1632	609	1632	609
-21	8320	3481	7488	3122	6656	2764	5824	2405	4992	2046	4160	1687	3328	1328	2496	969	1709	630	1709	630
-20	8696	3598	7826	3227	6957	2856	6087	2486	5217	2115	4348	1744	3478	1373	2609	1002	1786	651	1786	651
-19	9094	3699	8185	3318	7275	2937	6366	2555	5457	2174	4547	1793	3638	1411	2728	1030	1868	669	1868	669
-18	9493	3800	8543	3409	7594	3017	6645	2625	5696	2233	4746	1842	3797	1450	2848	1058	1949	687	1949	687
-17	9891	3901	8902	3499	7913	3097	6924	2695	5935	2293	4946	1891	3957	1489	2967	1086	2031	706	2031	706
-16	10290	4003	9261	3590	8232	3177	7203	2765	6174	2352	5145	1940	4116	1527	3087	1115	2113	724	2113	724
-15	10688	4104	9620	3681	8551	3258	7482	2835	6413	2412	5344	1989	4275	1566	3207	1143	2195	742	2195	742
-14	10994	4229	9895	3793	8795	3357	7696	2921	6596	2485	5497	2049	4398	1613	3298	1178	2258	765	2258	765
-13	11300	4354	10170	3905	9040	3456	7910	3007	6780	2559	5650	2110	4520	1661	3390	1212	2320	788	2320	788
-12	11606	4479	10445	4017	9284	3556	8124	3094	6963	2632	5803	2171	4642	1709	3482	1247	2383	810	2383	810
-11	11911	4604	10720	4129	9529	3655	8338	3180	7147	2706	5956	2231	4764	1757	3573	1282	2446	833	2446	833
-10	12217	4729	10995	4242	9774	3754	8552	3267	7330	2779	6108	2292	4887	1804	3665	1317	2509	855	2509	855
-9	12523	4854	11270	4354	10018	3853	8766	3353	7514	2853	6261	2352	5009	1852	3757	1352	2572	878	2572	878
-8	12828	4979	11546	4466	10263	3953	8980	3439	7697	2926	6414	2413	5131	1900	3849	1386	2634	901	2634	901
-7	13134	5104	11821	4578	10507	4052	9194	3526	7880	3000	6567	2474	5254	1947	3940	1421	2697	923	2697	923
-6	13478	5217	12130	4679	10783	4141	9435	3603	8087	3066	6739	2528	5391	1990	4043	1453	2768	944	2768	944
-5	13822	5329	12440	4780	11058	4230	9676	3681	8293	3132	6911	2582	5529	2033	4147	1484	2839	964	2839	964
-4	14167	5441	12750	4880	11333	4319	9917	3759	8500	3198	7083	2637	5667	2076	4250	1515	2909	984	2909	984
-3	14511	5554	13060	4981	11609	4409	10158	3836	8707	3264	7255	2691	5804	2119	4353	1546	2980	1005	2980	1005
-2	14855	5666	13370	5082	11884	4498	10399	3914	8913	3330	7428	2746	5942	2162	4457	1578	3051	1025	3051	1025
-1	15199	5778	13679	5183	12159	4587	10639	3991	9120	3396	7600	2800	6080	2205	4560	1609	3121	1045	3121	1045
0	15543	5890	13989	5283	12435	4676	10880	4069	9326	3462	7772	2855	6217	2247	4663	1640	3192	1066	3192	1066
1	15888	6003	14299	5384	12710	4765	11121	4146	9533	3528	7944	2909	6355	2290	4766	1671	3263	1086	3263	1086
2	16232	6115	14609	5485	12986	4854	11362	4224	9739	3594	8116	2963	6493	2333	4870	1703	3333	1106	3333	1106
3	16598	6197	14848	5558	13198	4920	11548	4281	9899	3642	8249	3003	6599	2364	4949	1726	3388	1121	3388	1121
4	16764	6280	15087	5632	13411	4985	11735	4338	10058	3690	8382	3043	6705	2396	5029	1749	3443	1136	3443	1136
5	17030	6362	15327	5706	13624	5050	11921	4394	10218	3739	8515	3083	6812	2427	5109	1771	3497	1151	3497	1151
6	21822	6803	19640	6102	17458	5401	15275	4699	13093	3998	10911	3297	8729	2596	6547	1894	3481	1231	4481	1231
7	22400	6910	20160	6198	17920	5485	15680	4773	13440	4061	11200	3349	8960	2636	6720	1924	4600	1250	4600	1250
8	22978	7017	20680	6294	18382	5570	16085	4847	13787	4124	11489	3401	9191	2677	6893	1954	4719	1269	4719	1269
9	23556	7124	21201	6390	18845	5655	16489	4921	14134	4187	11778	3452	9422	2718	7067	1984	4837	1289	4837	1289
10	24134	7231	21721	6486	19307	5740	16894	4995	14481	4250	12067	3504	9654	2759	7240	2013	4956	1308	4956	1308
11	24712	7338	22241	6582	19770	5825	17299	5069	14827	4312	12356	3556	9885	2800	7414	2043	5075	1327	5075	1327
12	25290	7445	22761	6678	20232	5910	17703	5143	15174	4375	12645	3608	10116	2840	7587	2073	5194	1347	5194	1347
13	25868	7552	23282	6774	20695	5995	18108	5217	15521	4438	12934	3660	10347	2881	7761	2103	5312	1366	5312	1366
14	26446	7659	23802	6869	21157	6080	18513	5291	15868	4501	13223	3712	10579	2922	7934	2133	5431	1385	5431	1385
15	27025	7766	24322	6965	21620	6165	18917	5364	16215	4564	13512	3763	10810	2963	8107	2162	5550	1405	5550	1405
16	27603	7873	24842	7061	22082	6250	19322	5438	16562	4627	13801	3815	11041	3004	8281	2192	5668	1424	5668	1424
17	28181	7980	25363	7157	22545	6335	19726	5512	16908	4690	14090	3867	11272	3045	8454	2222	5787	1444	5787	1444
18	28759	8087	25883	7253	23007	6420	20131	5586	17255	4753	14379	3919	11503	3085	8628	2252	5906	1463	5906	1463
19	29337	8194	26403	7349	23469	6505	20536	5660	17602	4815	14668	3971	11735	3126	8801	2282	6025	1482	6025	1482
20	29915	8301	26923	7445	23932	6590	20940	5734	17949	4878	14957	4023	11966	3167	8974	2311	6143	1502	6143	1502
21	30493	8408	27444	7541	24394	6675	21345	5808	18296	4941	15246	4075	12197	3208	9148	2341	6262	1521	6262	1521
22	31071	8515	27964	7637	24857	6760	21750	5882	18643	5004	15535	4126	12428	3249	9321	2371	6381	1540	6381	1540
23	31649	8622	28484	7733	25319	6844	22154	5956	18989	5067	15825	4178	12660	3290	9495	2401	6499	1560	6499	1560
24	32227	8729	29004	7829	25782	6929	22559	6030	19336	5130	16114	4230	12891	3330	9668	2431	6618	1579	6618	1579

Combination <Capacity range (Max)>

Indoor: RAV-RM2241DTP-E1
Outdoor: RAV-GM2243AT8(J)P-E

Operation range		Cooling		Heating	
		Q	P	Q	P
MINIMUM	W	4600	1300	4600	1250
RATING	W	19000	5970	22400	6910
MAXIMUM	W	22400	8960	25000	8330

Cooling

Outdoor Temperature DB (°C)	Parts Load (%)																	
	100		90		80		70		60		50		40		30		20	
	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P
20	26801	7085	24120	6323	21440	5560	18760	4798	16080	4036	13400	3274	10720	2512	8040	1749	5504	1028
21	26512	7214	23861	6438	21210	5662	18558	4886	15907	4110	13256	3334	10605	2557	7954	1781	5444	1047
22	26224	7344	23601	6554	20979	5764	18357	4973	15734	4183	13112	3393	10489	2603	7867	1813	5385	1065
23	25935	7473	23342	6669	20748	5865	18155	5061	15561	4257	12968	3453	10374	2649	7781	1845	5326	1084
24	25647	7602	23082	6784	20517	5967	17953	5149	15388	4331	12823	3513	10259	2695	7694	1877	5267	1103
25	25358	7732	22823	6900	20287	6068	17751	5236	15215	4404	12679	3573	10143	2741	7608	1909	5208	1122
26	25070	7861	22563	7015	20056	6170	17549	5324	15042	4478	12535	3632	10028	2787	7521	1941	5148	1141
27	24782	7990	22303	7131	19825	6271	17347	5412	14869	4552	12391	3692	9913	2833	7434	1973	5089	1159
28	24493	8120	22044	7246	19595	6373	17145	5499	14696	4626	12247	3752	9797	2878	7348	2005	5030	1178
29	24205	8249	21784	7362	19364	6474	16943	5587	14523	4699	12102	3812	9682	2924	7261	2037	4971	1197
30	23916	8379	21525	7477	19133	6576	16741	5674	14350	4773	11958	3872	9567	2970	7175	2069	4911	1216
31	23628	8508	21265	7593	18902	6677	16540	5762	14177	4847	11814	3931	9451	3016	7088	2101	4852	1234
32	23339	8637	21006	7708	18672	6779	16338	5850	14004	4920	11670	3991	9336	3062	7002	2133	4793	1253
33	23051	8767	20746	7824	18441	6880	16136	5937	13831	4994	11526	4051	9220	3108	6915	2165	4734	1272
34	22763	8896	20486	7939	18210	6982	15934	6025	13658	5068	11381	4111	9105	3154	6829	2197	4674	1291
35	22400	8960	20160	7996	17920	7032	15680	6068	13440	5104	11200	4140	8960	3176	6720	2212	4600	1300
36	21971	8960	19774	7996	17577	7032	15378	6068	13182	5104	10985	4140	8788	3176	6591	2212	4512	1300
37	21549	8960	19394	7996	17239	7032	15084	6068	12929	5104	10774	4140	8620	3176	6465	2212	4425	1300
38	21134	8960	19021	7996	16908	7032	14794	6068	12681	5104	10567	4140	8454	3176	6340	2212	4340	1300
39	17568	5973	15811	5331	14054	4688	12298	4045	10541	3403	8784	2760	7027	2118	5270	1475	3608	867
40	17225	5973	15503	5331	13780	4688	12058	4045	10335	3403	8613	2760	6890	2118	5168	1475	3537	867
41	16883	5973	15194	5331	13506	4688	11818	4045	10130	3403	8441	2760	6753	2118	5065	1475	3467	867
42	16540	5973	14886	5331	13232	4688	11578	4045	9924	3403	8270	2760	6616	2118	4962	1475	3397	867
43	16198	5973	14578	5331	12958	4688	11338	4045	9719	3403	8099	2760	6479	2118	4859	1475	3326	867
44	14364	4646	12928	4146	11491	3646	10055	3146	8618	2647	7182	2147	5746	1647	4309	1147	2950	674
45	14021	4646	12619	4146	11217	3646	9815	3146	8413	2647	7011	2147	5609	1647	4206	1147	2879	674
46	13679	4646	12311	4146	10943	3646	9575	3146	8207	2647	6839	2147	5472	1647	4104	1147	2809	674

Heating

Outdoor Temperature DB (°C)	Parts Load (%)																			
	100		90		80		70		60		50		40		30		20		10	
	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P
-27	6700	3672	6030	3290	5360	2907	4690	2525	4020	2142	3350	1760	2680	1377	2010	995	1340	612	1233	551
-26	7114	3827	6403	3428	5691	3030	4980	2631	4269	2232	3557	1834	2846	1435	2134	1037	1423	638	1309	574
-25	7529	3981	6776	3567	6023	3152	5270	2737	4517	2323	3764	1908	3011	1493	2259	1078	1506	664	1385	597
-24	7943	4136	7149	3705	6354	3274	5560	2844	4766	2413	3971	1982	3177	1551	2383	1120	1589	690	1461	621
-23	8357	4291	7521	3844	6686	3397	5850	2950	5014	2503	4179	2056	3343	1609	2507	1162	1671	715	1538	644
-22	8771	4445	7894	3982	7017	3519	6140	3056	5263	2593	4386	2130	3509	1667	2631	1204	1754	741	1614	667
-21	9186	4600	8267	4121	7349	3642	6430	3162	5511	2683	4593	2204	3674	1725	2756	1246	1837	767	1690	690
-20	9600	4754	8640	4259	7680	3764	6720	3269	5760	2774	4800	2278	3840	1783	2880	1288	1920	793	1766	713
-19	10040	4888	9036	4379	8032	3870	7028	3361	6024	2851	5020	2342	4016	1833	3012	1324	2008	815	1847	733
-18	10480	5022	9432	4498	8384	3975	7336	3452	6288	2929	5240	2406	4192	1883	3144	1360	2096	837	1928	754
-17	10920	5155	9828	4618	8736	4081	7644	3544	6552	3007	5460	2470	4368	1933	3276	1396	2184	859	2009	774
-16	11360	5289	10224	4738	9088	4187	7952	3636	6816	3085	5680	2534	4544	1983	3408	1433	2272	882	2090	794
-15	11800	5422	10620	4857	9440	4293	8260	3728	7080	3163	5900	2598	4720	2034	3540	1469	2360	904	2171	814
-14	12138	5587	10924	5005	9710	4423	8496	3841	7283	3259	6069	2678	4855	2096	3641	1514	2428	932	2233	838
-13	12475	5753	11228	5153	9980	4554	8733	3955	7485	3356	6238	2757	4990	2158	3743	1558	2495	959	2295	863
-12	12813	5918	11531	5302	10250	4685	8969	4069	7688	3452	6406	2836	5125	2219	3844	1603	2563	987	2358	888
-11	13150	6083	11835	5450	10520	4816	9205	4182	7890	3549	6575	2915	5260	2281	3945	1648	2630	1014	2420	913
-10	13488	6248	12139	5598	10790	4947	9441	4296	8093	3645	6744	2994	5395	2343	4046	1693	2698	1042	2482	938
-9	13825	6414	12443	5746	11060	5078	9678	4410	8295	3742	6913	3073	5530	2405	4148	1737	2765	1069	2544	962
-8	14163	6579	12746	5894	11330	5208	9914	4523	8498	3838	7081	3153	5655	2467	4249	1782	2833	1097	2606	987
-7	14500	6744	13050	6042	11600	5339	10150	4637	8700	3934	7250	3232	5800	2529	4350	1827	2900	1124	2668	1012
-6	14880	6893	13392	6175	11904	5457	10416	4739	8928	4021	7440	3303	5952	2585	4464	1867	2976	1149	2738	1034
-5	15260	7041	13734	6308	12208	5574	10682	4841	9156	4108	7630	3374	6104	2641	4578	1907	3052	1174	2808	1057
-4	15640	7189	14076	6441	12512	5692	10948	4943	9384	4194	7820	3445	6256	2696	4692	1948	3128	1199	2878	1079
-3	16020	7338	14418	6574	12816	5809	11214	5045	9612	4281	8010	3516	6408	2752	4806	1988	3204	1223	2948	1101
-2	16400	7486	14760	6706	13120	5927	11480	5147	9840	4367	8200	3587	6560	2808	4920	2028	3280	1248	3018	1123
-1	16780	7635	15102	6839	13424	6044	11746	5249	10068	4454	8390	3659	6712	2863	5034	2068	3356	1273	3088	1146
0	17160	7783	15444	6972	13728	6162	12012	5351	10296	4540	8580	3730	6864	2919	5148	2108	3432	1298	3157	1168
1	17540	7931	15786	7105	14032	6279	12278	5453	10524	4627	8770	3801	7016	2975	5262	2149	3508	1322	3227	1190
2	17920	8080	16128	7238	14336	6397	12544	5555	10752	4713	8960	3872	7168	3030	5376	2189	3584	1347	3297	1212
3	18380	8246	16542	7387	14704	6529	12866	5670	11028	4811	9190	3952	7352	3093	5514	2234	3676	1375	3382	1237
4	18846	8413	16961	7537	15077	6660	13192	5784	11307	4908	9423	4032	7538	3155	5654	2279	3769	1403	3468	1262
5	19317	8580	17385	7686	15454	6792	13522	5899	11590	5005	9658	4111	7727	3218	5795	2324	3863	1430	3554	1287
6	24355	8201	21919	7347	19484	6493	17048	5638	14613	4784	12177	3930	9742	3076	7306	2222	4871	1367	4481	1231
7	25000	8330	22500	7462	20000	6595	17500	5727	15000	4859	12500	3992	10000	3124	7500	2256	5000	1389	4600	1250
8	25645	8459	23081	7578	20516	6697	17952	5816	15387	4935	12823	4054	10258	3172	7694	2291	5129	1410	4719	1269
9	26290	8588	23661	7693	21032	6799	18403	5904	15774	5010	13145	4115	10516	3221	7887	2326	5258	1432	4837	1289
10	26935	8717	24242	7809	21548	6901	18855	5993	16161	5085	13468	4177	10774	3269	8081	2361	5387	1453	4956	1308
11	27581	8846	24823	7925	22065	7003	19306	6082	16548	5160	13790	4239	11032	3318	8274	2396	5516	1475	5075	1327
12	28226	8975	25403	8040	22581	7105	19758	6170	16935	5236	14113	4301	11290	3366	8468	2431	5645	1496	5194	1347
13	28871	9104	25984	8156	23097	7207	20210	6259	17323	5311	14435	4363	11548	3414	8661	2466	5774	1518	5312	1366
14	29666	9325	26669	8270	18373	7215	16076	3661	13780	3106	11483	2552	9186	1997	6890	1442	4593	888	4226	799
15	23342	5325	21008	4770	18674	4215	16340	3661	14005	3106	11671	2552	9337	1997	7003	1442	4668	888	4295	799
16	23717	5325	21345	4770	18973	4215	16602	3661	14230	3106	11858	2552	9487	1997	7115	1442	4743	888	4364	799
17	24090	5325	21681	4770	19272	4215	16863	3661	14454	3106	12045	2552	9636	1997	7227	1442	4818	888	4432	799
18	24460	5325	22014	4770	19568	4215	17122	3661	14676	3106	12230	2552	9784	1997	7338	1442	4892	888	4501	799
19	24830	5325	22347	4770	19864	4215	17381	3661	14898	3106	12415	2552	9932	1997	7449	1442	4966	888	4569	799
20	25197	5325	22678	4770	20158	4215	17638	3661	15118	3106	12599	2552	10079	1997	7559	1442	5039	888	4636	799
21	25563	5325	23007	4770	20451	4215	17894	3661	15338	3106	12782	2552	10225	1997	7669	1442	5113	888	4704	799
22	25928	5325	23335	4770	20742	4215	18150	3661	15557	3106	12964	2552	10371	1997	7778	1442	5186	888	4771	799
23	26291	5325	23662	4770	21033	4215	18404	3661	15775	3106	13146	2552	10516	1997	7887	1442	5258	888	4838	799
24	26653	5325	23988	4770	21322	4215	18657	3661	15992	3106	13326	2552	10661	1997	7996	1442	5331	888	4904	799

Combination <Rated condition>

Indoor: RAV-RM2801DTP-E2
Outdoor: RAV-GM2803AT8(J)P-E

Operation range	Cooling		Heating	
	Q	P	Q	P
MINIMUM	W 4600	1330	4600	1280
RATING	W 22500	8040	24000	7620

Cooling

Outdoor Temperature DB (°C)	Parts Load (%)																			
	100		90		80		70		60		50		40		30		20		10	
	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P
20	26831	6311	24148	5649	21465	4987	18782	4325	16099	3663	13416	3001	10733	2339	8049	1677	5486	1044	5486	1044
21	26543	6427	23888	5752	21234	5078	18580	4404	15926	3730	13271	3056	10617	2382	7963	1707	5426	1063	5426	1063
22	26254	6542	23628	5856	21003	5169	18378	4483	15752	3797	13127	3111	10502	2424	7876	1738	5367	1082	5367	1082
23	25965	6657	23369	5959	20772	5260	18176	4562	15579	3864	12983	3165	10386	2467	7790	1769	5308	1101	5308	1101
24	25676	6772	23109	6062	20541	5351	17973	4641	15406	3931	12838	3220	10271	2510	7703	1799	5249	1120	5249	1120
25	25388	6888	22849	6165	20310	5443	17771	4720	15233	3997	12694	3275	10155	2552	7616	1830	5190	1139	5190	1139
26	25099	7003	22589	6268	20079	5534	17569	4799	15059	4064	12549	3330	10040	2595	7530	1860	5131	1158	5131	1158
27	24810	7118	22329	6371	19848	5625	17367	4878	14886	4131	12405	3384	9924	2638	7443	1891	5072	1177	5072	1177
28	24521	7233	22069	6475	19617	5716	17165	4957	14713	4198	12261	3439	9809	2680	7356	1922	5013	1197	5013	1197
29	24233	7349	21809	6578	19386	5807	16963	5036	14540	4265	12116	3494	9693	2723	7270	1952	4954	1216	4954	1216
30	23944	7464	21549	6681	19155	5898	16761	5115	14366	4332	11972	3549	9578	2766	7183	1983	4895	1235	4895	1235
31	23655	7579	21290	6784	18924	5989	16559	5194	14193	4399	11828	3604	9462	2809	7097	2013	4836	1254	4836	1254
32	23366	7694	21030	6887	18693	6080	16356	5273	14020	4466	11683	3658	9347	2851	7010	2044	4777	1273	4777	1273
33	23078	7810	20770	6990	18462	6171	16154	5352	13847	4532	11539	3713	9231	2894	6923	2075	4718	1292	4718	1292
34	22789	7925	20510	7093	18231	6262	15952	5431	13673	4599	11394	3768	9116	2937	6837	2105	4659	1311	4659	1311
35	22500	8040	20250	7197	18000	6353	15750	5510	13500	4666	11250	3823	9000	2979	6750	2136	4600	1330	4600	1330
36	22211	8155	19990	7300	17769	6444	15548	5589	13327	4733	11106	3878	8885	3022	6663	2167	4541	1349	4541	1349
37	21923	8270	19730	7403	17538	6535	15346	5668	13154	4800	10961	3932	8769	3065	6577	2197	4482	1368	4482	1368
38	21634	8386	19470	7506	17307	6626	15144	5747	12980	4867	10817	3987	8654	3107	6490	2228	4423	1387	4423	1387
39	21345	8501	19210	7609	17076	6717	14942	5826	12800	4934	10673	4042	8539	3149	6403	2259	4364	1406	4364	1406
40	21056	8617	18950	7712	16845	6808	14740	5905	12620	5001	10529	4097	8428	3191	6316	2290	4305	1425	4305	1425
41	20767	8732	18690	7815	16614	6899	14538	5986	12438	5068	10385	4152	8317	3233	6229	2321	4246	1444	4246	1444
42	20478	8848	18430	7918	16383	6990	14336	6067	12257	5139	10241	4207	8206	3275	6142	2352	4187	1463	4187	1463
43	20189	8963	18170	8021	16152	7081	14134	6148	12076	5210	10097	4262	8095	3317	6057	2383	4128	1482	4128	1482
44	19900	9079	17910	8124	15921	7172	13932	6229	11895	5281	9953	4317	7984	3361	5972	2414	4069	1501	4069	1501
45	19611	9194	17650	8227	15690	7263	13730	6310	11714	5352	9809	4368	7873	3405	5887	2445	4010	1520	4010	1520
46	19322	9309	17390	8330	15459	7354	13528	6391	11533	5433	9665	4419	7762	3449	5802	2476	3951	1539	3951	1539

Heating

Outdoor Temperature DB (°C)	Parts Load (%)																			
	100		90		80		70		60		50		40		30		20		10	
	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P
-27	6522	2787	5870	2500	5217	2213	4565	1926	3913	1639	3261	1352	2609	1066	1957	779	1304	492	1250	468
-26	6988	2955	6289	2651	5590	2347	4891	2043	4193	1739	3494	1434	2795	1130	2096	826	1398	522	1339	496
-25	7453	3124	6708	2803	5963	2481	5217	2159	4472	1838	3727	1516	2981	1195	2236	873	1491	552	1429	525
-24	7919	3293	7127	2954	6335	2615	5543	2276	4752	1937	3960	1598	3168	1259	2376	920	1584	581	1518	553
-23	8385	3462	7547	3105	6708	2749	5870	2393	5031	2036	4193	1680	3354	1324	2516	967	1677	611	1607	581
-22	8851	3630	7966	3257	7081	2883	6196	2509	5311	2136	4425	1762	3540	1388	2655	1015	1770	641	1696	610
-21	9317	3799	8385	3408	7453	3017	6522	2626	5590	2235	4658	1844	3727	1453	2795	1062	1863	671	1786	638
-20	9783	3968	8804	3560	7826	3151	6848	2743	5870	2334	4891	1926	3913	1517	2935	1109	1957	701	1875	667
-19	10109	4079	9098	3660	8087	3240	7076	2820	6065	2400	5054	1980	4043	1560	3033	1140	2022	720	1938	685
-18	10435	4191	9391	3760	8348	3328	7304	2897	6261	2465	5217	2034	4174	1603	3130	1171	2087	740	2000	704
-17	10761	4302	9685	3860	8609	3417	7533	2974	6457	2531	5380	2088	4304	1645	3228	1202	2152	760	2063	723
-16	11087	4414	9978	3960	8870	3505	7761	3051	6652	2597	5543	2142	4435	1688	3326	1234	2217	779	2125	741
-15	11413	4525	10272	4060	9130	3594	7989	3128	6848	2662	5707	2196	4565	1731	3424	1265	2283	799	2188	760
-14	11753	4663	10577	4183	9402	3703	8227	3223	7052	2743	5876	2263	4701	1783	3526	1303	2351	823	2253	783
-13	12092	4801	10883	4307	9674	3813	8465	3319	7255	2824	6046	2330	4837	1836	3628	1342	2418	848	2318	806
-12	12432	4939	11189	4431	9946	3922	8702	3414	7459	2906	6216	2397	4973	1889	3730	1380	2486	872	2383	830
-11	12772	5077	11495	4554	10217	4032	8940	3509	7663	2987	6386	2464	5109	1942	3832	1419	2554	896	2448	853
-10	13111	5215	11800	4678	10489	4141	9178	3605	7867	3068	6556	2531	5245	1994	3933	1458	2622	921	2513	876
-9	13451	5353	12106	4802	10761	4251	9416	3700	8071	3149	6726	2598	5380	2047	4035	1496	2690	945	2578	899
-8	13791	5491	12412	4926	11033	4360	9654	3795	8274	3230	6895	2665	5516	2100	4137	1535	2758	969	2643	922
-7	14130	5629	12717	5049	11304	4470	9891	3891	8478	3311	7065	2732	5652	2153	4239	1573	2826	994	2708	946
-6	14493	5753	13043	5160	11594	4568	10145	3976	8696	3384	7246	2792	5797	2200	4348	1608	2899	1016	2778	966
-5	14855	5876	13370	5272	11884	4667	10399	4062	8913	3457	7428	2852	5942	2247	4457	1642	2971	1038	2847	987
-4	15217	6000	13696	5383	12174	4765	10652	4147	9130	3530	7609	2912	6087	2295	4565	1677	3043	1059	2917	1008
-3	15580	6124	14022	5494	12464	4863	10906	4233	9348	3603	7790	2972	6232	2342	4674	1712	3116	1081	2986	1029
-2	15942	6248	14348	5605	12754	4962	11159	4319	9565	3676	7971	3032	6377	2389	4783	1746	3188	1103	3056	1050
-1	16304	6372	14674	5716	13043	5060	11413	4404	9783	3748	8152	3093	6522	2437	4891	1781	3261	1125	3125	1070
0	16667	6496	15000	5827	13333	5158	11667	4490	10000	3821	8333	3153	6667	2484	5000	1815	3333	1147	3194	1091
1	17029	6620	15326	5938	13623	5257	11920	4575	10217	3894	8514	3213	6812	2531	5109	1850	3406	1169	3264	1112
2	17391	6743	15652	6049	13813	5355	12174	4661	10435	3967	8696	3273	6957	2579	5217	1885	3478	1191	3323	1133
3	17676	6834	15909	6131	14141	5427	12373	4724	10606	4020	8838	3317	7070	2613	5303	1910	3535	1207	3388	1148
4	17961	6925	16165	6212	14369	5499	12573	4786	10777	4074	8981	3361	7184	2648	5388	1935	3592	1223	3443	1163
5	18246	7015	16421	6293	14597	5571	12772	4849	10948	4127	9123	3405	7298	2683	5474	1961	3649	1239	3497	1178
6	23381	7502	12043	6730	18705	5958	16366	5185	14028	4413	11690	3641	9352	2869	7014	2097	4676	1325	4481	1260
7	24000	7620	21600	6836	19200	6051	16800	5267	14400	4483	12000	3698	9600	2914	7200	2130	4800	1345	4600	1280
8	24619	7738	22157	6942	19695	6145	17234	5349	14772	4552	12310	3756	9848	2959	7386	2163	4924	1366	4719	1300
9	25239	7856	22715	7047	20191	6239	17667	5430	15143	4621	12619	3813	10095	3004	7572	2196	5048	1387	4837	1320
10	25858	7974	23272	7153	20686	6332	18101	5512	15515	4691	12929	3870	10343	3049	7757	2229	5172	1408	4956	1339
11	26477	8092	23830	7259	21182	6426	18534	5593	15886	4760	13239	3927	10591	3095	7943	2262	5295	1429	5075	1359
12	27097	8210	24387	7365	21677	6520	18968	5675	16258	4830	13548	3985	10839	3140	8129	2295	5419	1450	5194	1379
13	27716	8328	24945	7471	22173	6614	19401	5756	16630	4899	13858	4042	11086	3185	8315	2328	5543	1470	5312	1399
14	28335	8446	25502	7577	22668	6707	19835	5838	17001	4969	14168	4099	11334	3230	8501	2361	5667	1491	5431	1419
15	28955	8564	26059	7682	23164	6801	20268	5919	17373	5038	14477	4156	11582	3275	8686	2393	5791	1512	5550	1439
16	29574	8682	26617	7788	23659	6895	20702	6001	17745	5107	14787	4214	11830	3320	8872	2426	5915	1533	5668	1458
17	24567	5452	22110	4891	19653	4330	17197	3768	14740	3207	12283	2646	9827	2085	7370	1524	4913	963	4709	916
18	24988	5452	22489	4891	19990	4330	17492	3768	14993	3207	12494	2646	9995	2085	7496	1524	4998	963	4789	916
19	25409	5452	22868	4891	20327	4330	17786	3768	15245	3207	12704	2646	10164	2085	7623	1524	5082	963	4870	916
20	25830	5452	23247	4891	20664	4330	18081	3768	15498	3207	12915	2646	10332	2085	7749	1524	5166	963	4951	916
21	26251	5452	23626	4891	21001	4330	18376	3768	15751	3207	13126	2646	10500	2085	7875	1524	5250	963	5031	916
22	26672	5452	24005	4891	21338	4330	18671	3768	16003	3207	13336	2646	10669	2085	8002	1524	5334	963	5112	916
23	27093	5452	24384	4891	21675	4330	18965	3768	16256	3207	13547	2646	10837	2085	8128	1524	5419	963	5193	916
24	27514	5452	24763	4891	22011	4330	19260	3768	16509	3207	13757	2646	11006	2085	8254	1524	5503	963	5274	916

Combination <Capacity range (Max)>

Indoor: RAV-RM2801DTP-E2
Outdoor: RAV-GM2803AT8(J)P-E

Operation range	Cooling				Heating			
	Q	P	Q	P	Q	P	Q	P
MINIMUM	W 4600	1330	4600	1280				
RATING	W 22500	8040	24000	7620				
MAXIMUM	W 25000	10870	28000	9330				

Cooling

Outdoor Temperature DB (°C)	Parts Load (%)															
	100		90		80		70		60		50		40		30	
	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P
20	32126	10276	28914	9171	25701	8065	22488	6960	19276	5855	16063	4750	12850	3645	9638	2539
21	31780	10463	28602	9338	25424	8213	22246	7087	19068	5962	15890	4837	12712	3711	9534	2586
22	31435	10651	28291	9506	25148	8360	22004	7214	18861	6069	15717	4923	12574	3778	9430	2632
23	31089	10839	27980	9673	24871	8507	21762	7341	18653	6176	15544	5010	12436	3844	9327	2678
24	30558	10870	27502	9701	24446	8532	21391	7363	18335	6194	15279	5024	12223	3855	9167	2686
25	30002	10870	27001	9701	24001	8532	21001	7363	18001	6194	15001	5024	12001	3855	9000	2686
26	29457	10870	26511	9701	23565	8532	20620	7363	17674	6194	14728	5024	11783	3855	8837	2686
27	28923	10870	26031	9701	23139	8532	20246	7363	17354	6194	14462	5024	11569	3855	8677	2686
28	28400	10870	25560	9701	22720	8532	19880	7363	17040	6194	14200	5024	11360	3855	8520	2686
29	27888	10870	25099	9701	22310	8532	19521	7363	16733	6194	13944	5024	11155	3855	8366	2686
30	27385	10870	24646	9701	21908	8532	19169	7363	16431	6194	13692	5024	10954	3855	8215	2686
31	26891	10870	24202	9701	21513	8532	18823	7363	16134	6194	13445	5024	10756	3855	8067	2686
32	26406	10870	23765	9701	21125	8532	18484	7363	15843	6194	13203	5024	10562	3855	7922	2686
33	25929	10870	23336	9701	20743	8532	18150	7363	15558	6194	12965	5024	10372	3855	7779	2686
34	25461	10870	22915	9701	20369	8532	17823	7363	15276	6194	12730	5024	10184	3855	7638	2686
35	25000	10870	22500	9701	20000	8532	17500	7363	15000	6194	12500	5024	10000	3855	7500	2686
36	24547	10870	22092	9701	19637	8532	17183	7363	14728	6194	12273	5024	9819	3855	7364	2686
37	24100	10870	21690	9701	19280	8532	16870	7363	14460	6194	12050	5024	9640	3855	7230	2686
38	23661	10870	21295	9701	18929	8532	16563	7363	14197	6194	11830	5024	9464	3855	7098	2686
39	20021	7247	18019	6467	16017	5688	14015	4908	12013	4129	10011	3350	8008	2570	6006	1791
40	19585	7247	17626	6467	15668	5688	13709	4908	11751	4129	9792	3350	7834	2570	5875	1791
41	19148	7247	17233	6467	15318	5688	13404	4908	11489	4129	9574	3350	7659	2570	5744	1791
42	18712	7247	16840	6467	14969	5688	13098	4908	11227	4129	9356	3350	7485	2570	5613	1791
43	18275	7247	16448	6467	14620	5688	12793	4908	10965	4129	9138	3350	7310	2570	5483	1791
44	16446	5636	14802	5030	13157	4424	11512	3818	9868	3211	8223	2605	6578	1999	4934	1393
45	16010	5636	14409	5030	12808	4424	11207	3818	9606	3211	8005	2605	6404	1999	4803	1393
46	15573	5636	14016	5030	12459	4424	10901	3818	9344	3211	7787	2605	6229	1999	4672	1393

Heating

Outdoor Temperature DB (°C)	Parts Load (%)																			
	100		90		80		70		60		50		40		30		20		10	
	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P
-27	9856	6451	8871	5785	7885	5119	6899	4453	5914	3787	4928	3121	3943	2455	2957	1789	1971	1123	1619	885
-26	10560	6842	9504	6136	8448	5429	7392	4723	6336	4017	5280	3310	4224	2604	3168	1897	2112	1191	1735	939
-25	11264	7233	10138	6486	9012	5739	7885	4993	6759	4246	5632	3499	4506	2752	3379	2006	2253	1259	1851	992
-24	11968	7624	10772	6837	9575	6050	8378	5262	7181	4475	5984	3688	4787	2901	3591	2114	2394	1327	1966	1046
-23	12672	8015	11405	7187	10138	6360	8871	5532	7603	4705	6336	3877	5069	3050	3802	2222	2534	1395	2082	1100
-22	13376	8405	12039	7537	10701	6670	9364	5802	8026	4934	6688	4066	5351	3199	4013	2331	2675	1463	2198	1153
-21	14081	8796	12672	7888	11264	6980	9856	6072	8448	5164	7040	4255	5632	3347	4224	2439	2816	1531	2313	1207
-20	14785	9187	13306	8238	11828	7290	10349	6341	8871	5393	7392	4444	5914	3496	4435	2548	2957	1599	2429	1260
-19	15277	9445	13750	8470	12222	7495	10694	6520	9166	5544	7639	4569	6111	3594	4583	2619	3055	1644	2510	1296
-18	15770	9703	14193	8701	12616	7699	11039	6698	9462	5696	7885	4694	6308	3692	4731	2691	3154	1689	2591	1331
-17	16263	9961	14637	8933	13010	7904	11384	6876	9758	5847	8132	4819	6505	3791	4879	2762	3253	1734	2672	1367
-16	16756	10219	15080	9164	13405	8109	11729	7054	10053	5999	8378	4944	6702	3889	5027	2834	3351	1779	2753	1402
-15	17249	10477	15524	9395	13799	8314	12074	7232	10349	6150	8624	5069	6899	3987	5175	2905	3450	1824	2834	1437
-14	17762	10796	15986	9682	14210	8567	12433	7453	10657	6338	8881	5223	7105	4109	5329	2994	3552	1879	2918	1481
-13	18275	11116	16448	9968	14620	8821	12793	7673	10965	6525	9138	5378	7310	4230	5483	3082	3655	1935	3002	1525
-12	18789	11435	16910	10255	15031	9074	13152	7893	11273	6713	9394	5532	7515	4352	5637	3171	3758	1990	3087	1569
-11	19302	11754	17372	10541	15442	9327	13511	8114	11581	6900	9651	5687	7721	4473	5791	3260	3860	2046	3171	1613
-10	19815	12074	17834	10827	15852	9581	13871	8334	11889	7088	9908	5841	7926	4595	5945	3348	3963	2102	3255	1656
-9	20329	12393	18296	11114	16263	9834	14230	8555	12197	7275	10164	5996	8132	4716	6099	3437	4066	2157	3340	1700
-8	20842	12713	18758	11400	16674	10088	14589	8775	12505	7463	10421	6150	8337	4838	6253	3525	4168	2213	3424	1744
-7	21355	13032	19220	11686	17084	10341	14949	8996	12813	7650	10678	6305	8542	4959	6407	3614	4271	2268	3508	1788
-6	21903	13319	19713	11944	17522	10569	15332	9193	13142	7818	10952	6443	8761	5068	6571	3693	4381	2318	3598	1827
-5	22451	13605	20206	12201	17960	10796	15715	9391	13470	7987	11225	6582	8980	5177	6735	3773	4490	2368	3688	1867
-4	22998	13892	20698	12458	18399	11024	16099	9589	13799	8155	11499	6721	9199	5287	6899	3852	4600	2418	3778	1906
-3	23546	14179	21191	12715	18837	11251	16482	9787	14127	8323	11773	6860	9418	5396	7064	3932	4709	2468	3868	1945
-2	24093	14466	21684	12972	19275	11479	16865	9985	14456	8492	12047	6998	9637	5505	7228	4011	4819	2518	3958	1985
-1	24641	14752	22177	13229	19713	11706	17249	10183	14785	8660	12320	7137	9856	5614	7392	4091	4928	2568	4048	2024
0	25188	15039	22670	13486	20151	11934	17632	10381	15113	8828	12594	7276	10075	5723	7557	4170	5038	2618	4138	2063
1	25736	15326	23162	13743	20589	12161	18015	10579	15442	8997	12868	7414	10294	5832	7721	4250	5147	2668	4228	2103
2	26284	15612	23655	14001	21027	12389	18399	10777	15770	9165	13142	7553	10513	5941	7885	4329	5257	2718	4318	2142
3	26863	15874	24176	14235	21490	12596	18804	10957	16118	9318	13431	7680	10745	6041	8059	4402	5373	2763	4413	2178
4	27448	16135	24703	14469	21958	12803	19213	11138	16469	9472	13724	7806	10979	6140	8234	4474	5490	2809	4509	2214
5	24422	9330	21980	8367	19538	7404	17096	6440	14653	5477	12211	4514	9769	3551	7327	2587	4884	1624	4012	1280
6	27472	9330	24724	8367	21977	7404	19230	6440	16483	5477	13736	4514	10989	3551	8241	2587	5494	1624	4513	1280
7	28000	9330	25200	8367	22400	7404	19600	6440	16800	5477	14000	4514	11200	3551	8400	2587	5600	1624	4600	1280
8	28524	9330	25672	8367	22819	7404	19967	6440	17115	5477	14262	4514	11410	3551	8557	2587	5705	1624	4686	1280
9	29045	9330	26140	8367	23236	7404	20331	6440	17427	5477	14522	4514	11618	3551	8713	2587	5809	1624	4772	1280
10	29561	9330	26605	8367	23649	7404	20693	6440	17737	5477	14781	4514	11825	3551	8868	2587	5912	1624	4857	1280
11	30075	9330	27067	8367	24060	7404	21052	6440	18045	5477	15037	4514	12030	3551	9022	2587	6015	1624	4941	1280
12	30584	9330	27526	8367	24468	7404	21409	6440	18351	5477	15292	4514	12234	3551	9175	2587	6117	1624	5025	1280
13	31091	9330	27982	8367	24873	7404	21764	6440	18655	5477	15545	4514	12436	3551	9327	2587	6218	1624	5108	1280
14	31594	9330	28435	8367	25276	7404	22116	6440	18957	5477	15797	4514	12638	3551	9478	2587	6319	1624	5191	1280
15	32095	9330	28885	8367	25676	7404	22466	6440	19257	5477	16047	4514	12838	3551	9628	2587	6419	1624	5273	1280
16	32593	9330	29333	8367	26074	7404	22815	6440	19556	5477	16296	4514	13037	3551	9778	2587	6519	1624	5354	1280
17	33631	9330	30268	8367	26904	7404	23541	6440	20178	5477	16815	4514	13452	3551	10089	2587	6726	1624	5525	1280
18	34207	9330	30786	8367	27366	7404	23945	6440	20524	5477	17103	4514	13683	3551	10262	2587	6841	1624	5620	1280
19	34783	9330	31305	8367	27827	7404	24348	6440	20870	5477	17392	4514	13913	3551	10435	2587	6957	1624	5714	1280
20	35360	9330	31824	8367	28288	7404	24752	6440	21216	5477	17680	4514	14144	3551	10608	2587	7072	1624	5809	1280
21	35936	9330	32343	8367	28749	7404	25155	6440	21562	5477	17968	4514	14374	3551	10781	2587	7187	1624	5904	1280
22	36513	9330	32861	8367	29210	7404	25559	6440	21908	5477	18256	4514	14605	3551	10954	2587	7303	1624	5998	1280
23	37089	9330	33380	8367	29671	7404	25962	6440	22253	5477	18544	4514	14836	3551	11127	2587	7418	1624	6093	1280
24	37665	9330	33899	8367	30132	7404	26366	6440	22599	5477	18833	4514	15066	3551	11300	2587	7533	1624	6188	1280

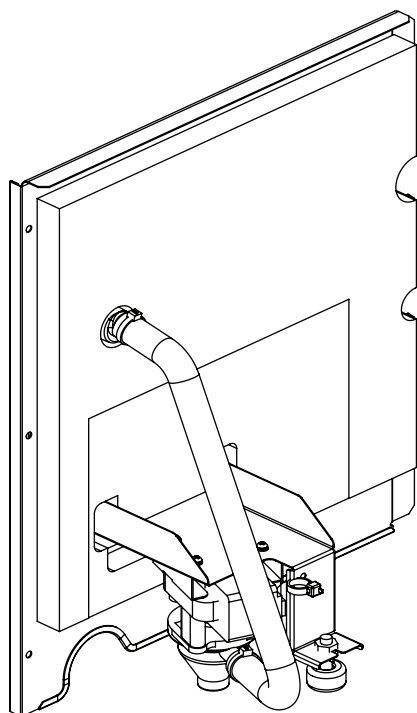
2-1.8 Accessories

No	Type	Model name	Applied model / Note
1	Drain pump kit (optional)	TCB-DP40DP-E	RAV-RM2241 , 2801DTP-E2
2	Long life filter	TCB-LK2801DP-E	
3	Filter Chamber	TCB-FC1281DF-E	
	High efficiency filter 65 %	TCB-UFM1281D-E	
	High efficiency filter 90 %	TCB-UFH1281D-E	
	Long life filter (without frame)	TCB-PF1281D-E	
4	Auxiliary fresh air flange	TCB-FF151US-E	
5	Wireless Remote Kit	RBC-ACXU31P-E	

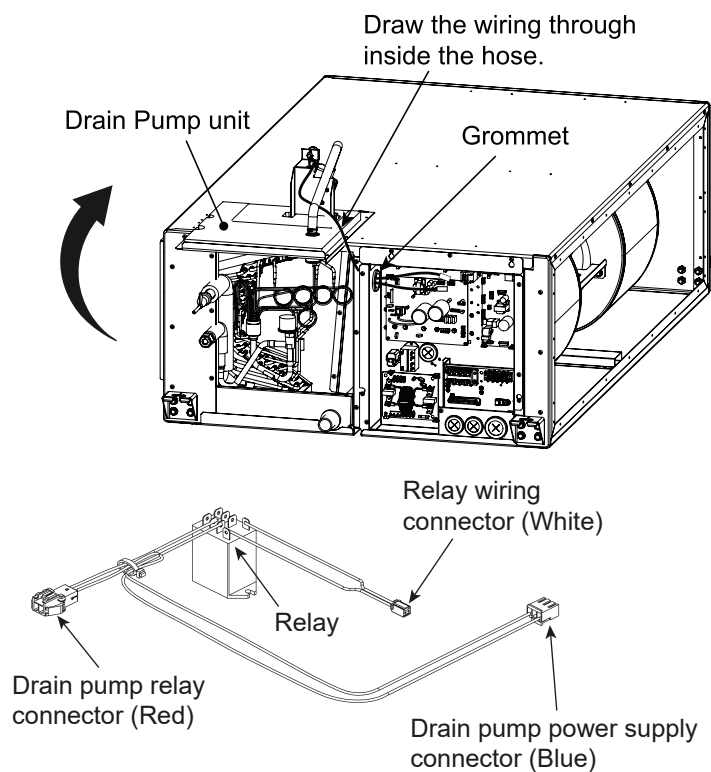
Note : Long life filter kit : In case install with chamber remove frame before put it in
 High efficiency filter 65 and 90% require filter chamber to install

2-1.9 Appendix

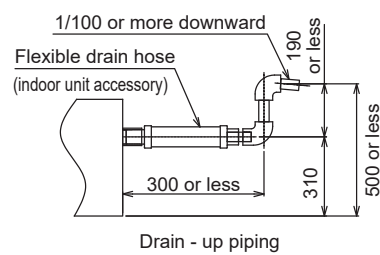
1. Drain pump kit : TCB-DP40DPE



Detail of Relay assembly



- The height of the drain pipe must be 500 mm or less from the underside of the indoor unit.
- Take the drain pipe out of the drain pipe joint with the indoor unit in 300 mm or less, and bend up the pipe vertically.
- Immediately after the pipe is bent up vertically, lay the pipe making a down.gradient.



2. Long life filter kit

TCB-LK2801DP-E

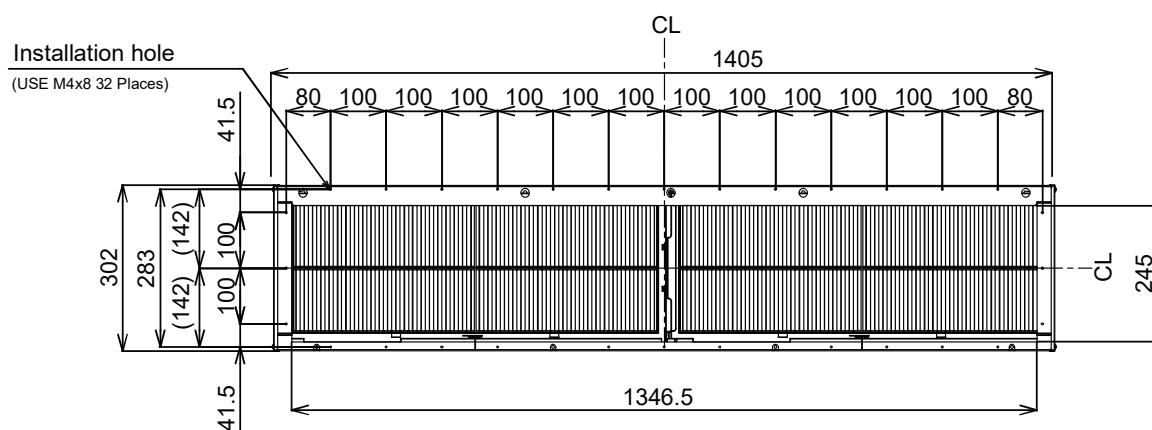
Below part are included.

Part name	Form	Quantity
(1) Frame fix plate		2
(2) Filter frame		1
(3) Filter		2

Duct design

Arrangement

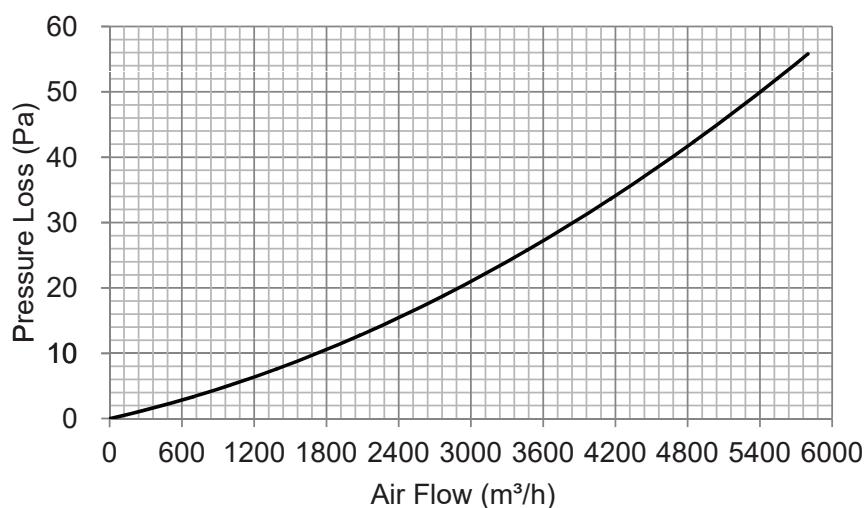
Referring to the following dimension, manufacture duct at the local site.



External Pressure Loss Characteristic

When you use these “Long life filter Kit”, pressure-loss characteristics depends on Air Flow.

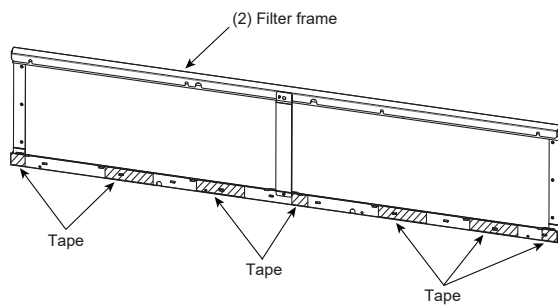
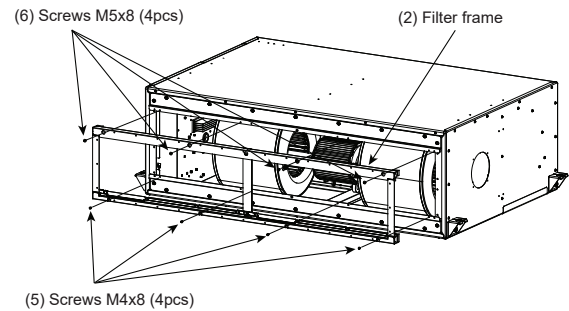
Long life Filter Kit, Pressure Loss Characteristics



How to install

1. Peel off the tape fixing the filter rail.

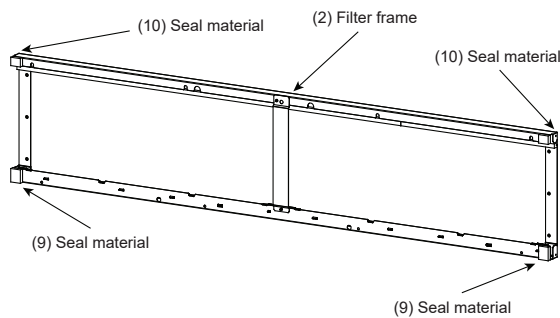
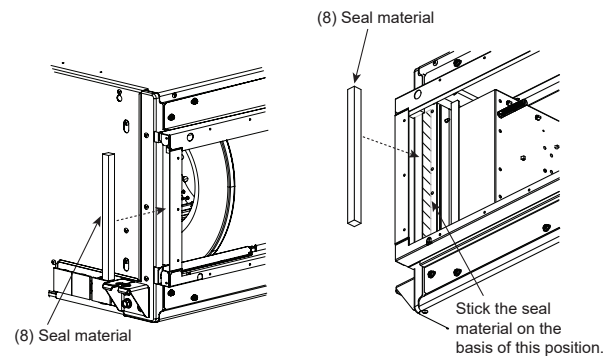
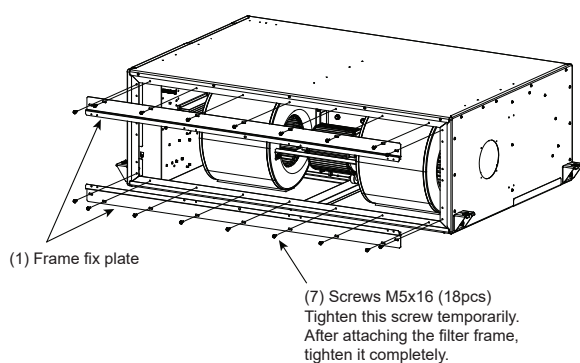
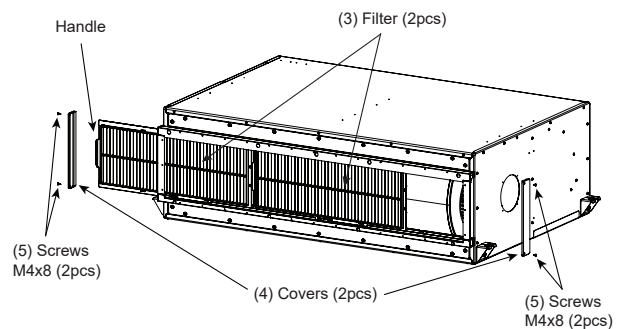
And check if the claw of the filter rail is not taken off.

**4. Install (2) Filter frame.**

· The filter frame gets one having black mold parts (filter rail) in the lower direction at the time of the installation of indoor unit.

2. Install (9) (10) Seal material.

Fit the seal material to the corner and paste it.

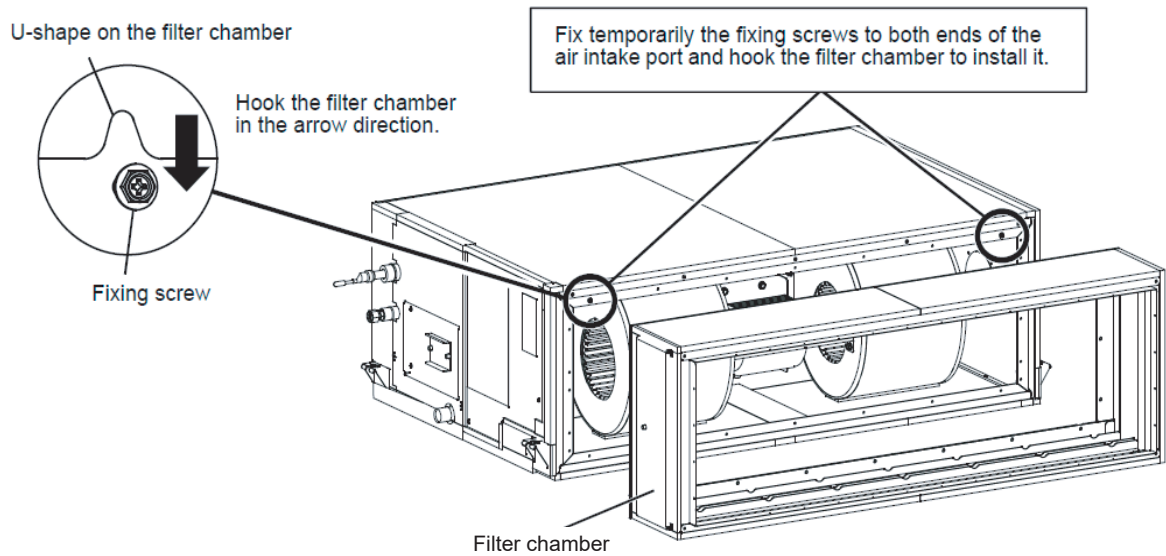
**5. Install (8) Seal material.****3. Install (1) Frame fix plate.****6. Install (3) Filter and (4) Cover.**

· For the filter direction, the insertion direction is the handle side as the above picture.
· Please confirm that two pieces of filters are connected.
· Please attach the cover with both side.

NOTE

When you use too long screws at attach a suction duct (local procured), you can not remove the filters by attack the screws. Be sure to check if the filter can be attached and removed after the attachment.

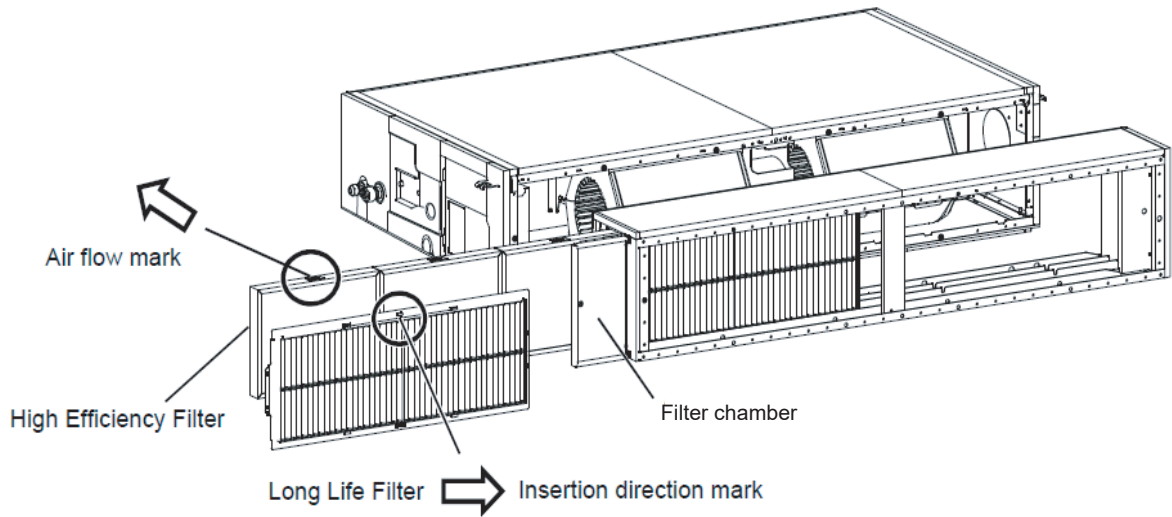
3. Filter Chamber : TCB-FC1281DF-E



Pressure loss in standard air volume (Pa)

Applicable model		RAV-RM2241 , 2801DTP-E2
Filter chamber	(Pa)	2
High efficiency filter 65 %	(Pa)	9
High efficiency filter 90 %	(Pa)	12
Long life filter	(Pa)	2

This estimate is based on the information provided and might subject to further change prior condition



Filter type	Cleanning as a gudie *1	Replacement as a guide *1
High efficiency filter 65 %	-	2500 hr (approx. 1 year) *2
High efficiency filter 90 %	-	1800 hr (approx. 8 months) *2
Long life filter	2500 hr (1 time/year)	-

*1 : Please note that the filter cleaning time and replacement time may differ depending on the environmental conditions.

*2 : The High efficiency filter needs replaceing periodically.

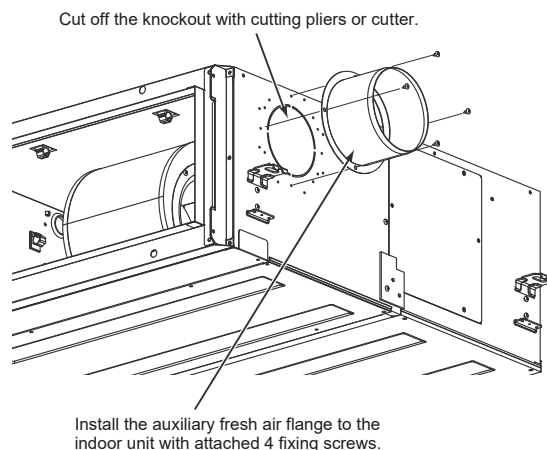
4. Auxiliary fresh air flange

Arrange a flexible duct (locally procured).

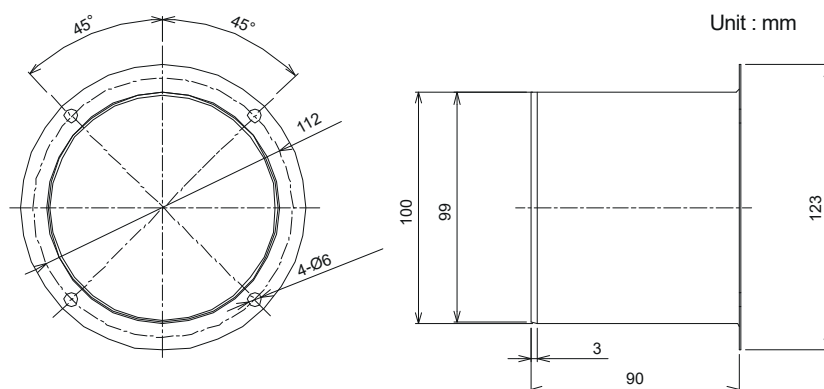
It is necessary to install auxiliary fresh air flange.

INSTALLATION PROCEDURE

- 1 Using the knockout of the indoor unit, as a marker, cut off the steel plate with cutting pliers or cutter.
- 2 Install the auxiliary fresh air flange to the indoor unit with attached 4 fixing screws.



DIMENSION



CAUTION

The fresh air shall be conditioned by heat reclaim ventilator or similar.

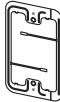
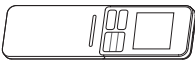
Emsure the fresh air volume is determined so that mixed suction air and fresh air maintain the operating temperature.

Recommended conditioned air temperature is 12°C to 30°C.

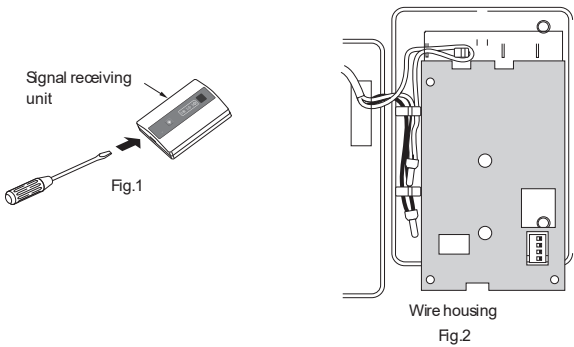
however, make a fresh air volume within 10% of standard.

7. Wireless remote controller kit

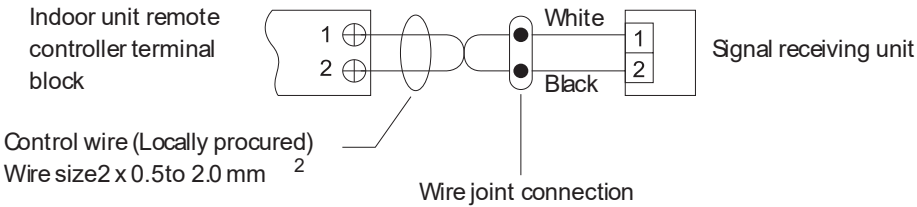
Below part are included.

Part name	Form	Quantity
(1) Signal receiving unit (provided 200 mm control wire)		1
(2) Mounting bracket		1
(3) Remote controller		1
(4) Remote controller holder		1

Connect the Signal receiving unit wiring (2-core control wire) with the wires extended from the indoor unit.
Refer to the Wiring of the Signal Receiving Unit.)
Be sure to determine the correct terminal numbers on the indoor unit when wiring the Signal receiving unit.
The Signal receiving unit will be damaged if high voltage (such as 220 - 240 V) is applied.



Wiring of the Signal Receiving Unit



Multiple Remote Controller Installation

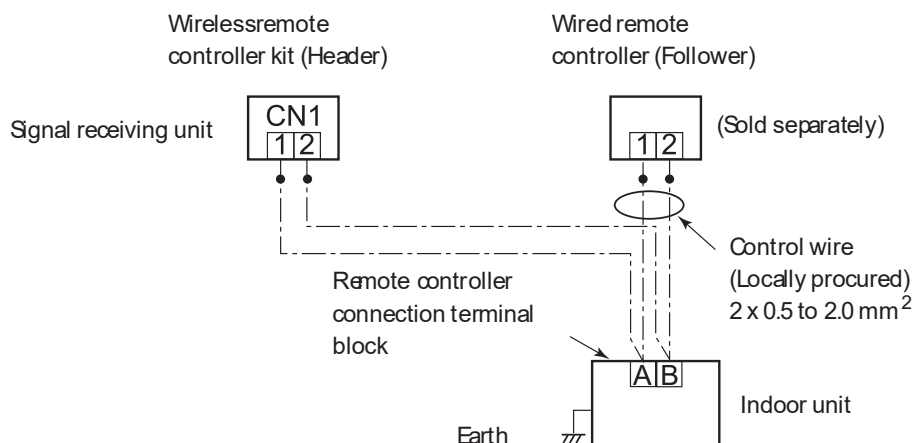
The control by two remote controllers is enabled by installing the wireless remote controller with the wired remote controller for an indoor unit. (Max. 2 remote controllers of wireless or wired are insatiable.) "2-remote controllers" means that one or multiple units are operated by the multiple remote controllers.

Note:

1. Upon confirmation of the terminal numbers of the indoor unit, connect the control wire without miswiring. (If applied 220 - 240 V, damage the unit.)
2. The multiple wireless remote controller kits cannot concurrently be used for an indoor unit.
3. When installing simultaneously the wireless remote controller with the wired remote controller, set one of them as the follower remote controller.
 - To use wired remote controller or Lite-vision plus remote controller as a follower, settings must be changed. For the details, refer to the installation manual of each controller.
 - To use the wireless remote controller as a follower, set bit 4 (Follower side) of DIP switch SW30 on the signal receiving unit P.C. board to ON.

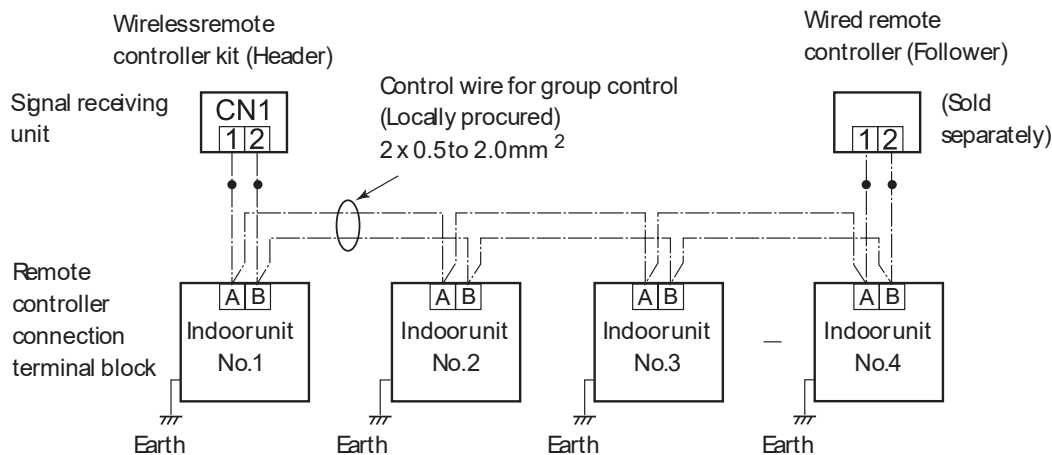
* 2-remote controllers

The indoor unit is operated if either wireless or wired remote controller is set as header or follower remote controller. (Total wire length: Within 400 m)



* Group control

Header and follower remote controllers are operable even if they are installed to any indoor unit. (Total wire length: Within 200 m)



Note : Maximum 8 or 16 units are connectable (depending on connction system TCC link / TU2C ink)

2-2. Ducted Type

2-2-1. Specifications

2-2-2. Dimension

2-2-3. Wiring Diagrams

2-2-4. Fan Characteristics

2-2-5. Sound data

2-2-6. Sensible Capacity

2-2-7. Part Load

2-2-8. Accessories

2-2-9. Appendix

2-2-1. Specification

Duct Type

Twin combination

Model	Indoor unit		RAV	HM1101BTP-E/TR x2
	Outdoor unit		RAV	GM2243AT8P-E/TR
Cooling capacity			(kW)	20.00
Heating capacity			(kW)	22.40
Power supply			1Ph., 220V, 60Hz. 1Ph., 220V - 240V, 50Hz.	
Electrical characteristic	Cooling	Running current (A)		10.55
		Power consumption (W)		0.69
		Power factor (-)		0.94
		EER	(kW/kW)	2.90
		SEER	(kW/kW)	6.00
	Heating	Running current (A)		10.40
		Power consumption (W)		0.67
		Power factor (-)		0.94
		COP	(kW/kW)	3.32
		SCOP	(kW/kW)	3.80
Outer dimension	Main unit	Height (mm)		275
		Width (mm)		1400
		Depth (mm)		750
Total weight		(kg)	41	
Air flow volume		H/M/L (m³ / h)	2100/1650/1260	
Sound pressure level		H/M+/M/L+/L (dB·A)	40/38/36/34/33	
Sound power level		H (dB·A)	55	
Connecting pipe		Gas side (mm)	Ø 28.6	
		Liquid side (mm)	Ø 12.7	
Fan motor			(W)	250
Air filter			Standard filter (Long life filter)	
Controller			Optional (sold separately)	

Note : Rated conditions

Cooling : Indoor air temperature 27 °C DB/ 19°C WB, Outdoor 35 °C DB

Heating : Indoor air temperature 20 °C DB, Outdoor 7°C DB / 6°C WB

Duct Type

Twin combination

Model	Indoor unit		RAV	HM1401BTP-E/TR x2
	Outdoor unit		RAV	GM2803AT8P-E/TR
Cooling capacity			(kW)	23.50
Heating capacity			(kW)	24.00
Power supply			1Ph., 220V, 60Hz. 1Ph., 220V - 240V, 50Hz.	
Electrical characteristic	Cooling	Running current	(A)	16.30
		Power consumption	(W)	1.06
		Power factor	(-)	0.93
		EER	(kW/kW)	2.23
		SEER	(kW/kW)	5.32
	Heating	Running current	(A)	11.70
		Power consumption	(W)	0.76
		Power factor	(-)	0.93
		COP	(kW/kW)	3.18
		SCOP	(kW/kW)	3.70
Outer dimension	Main unit	Height	(mm)	275
		Width	(mm)	1400
		Depth	(mm)	750
Total weight		(kg)	41	
Air flow volume		H/M/L	(m ³ / h)	2100/1650/1260
Sound pressure level		H/M+/M/L+/L	(dB·A)	40/38/36/34/33
Sound power level		H	(dB·A)	55
Connecting pipe		Gas side	(mm)	Ø 28.6
		Liquid side	(mm)	Ø 12.7
Fan motor			(W)	250
Air filter			Standard filter (Long life filter)	
Controller			Optional (sold separately)	

Note : Rated conditions

Cooling : Indoor air tempreature 27 °C DB/ 19°C WB, Outdoor 35 °C DB
Heating : Indoor air tempreature 20 °C DB, Outdoor 7°C DB / 6°C WB

Duct Type

Triple combination

Model	Indoor unit		RAV	HM801BTP-E/TR x3
	Outdoor unit		RAV	GM2243AT8P-E/TR
Cooling capacity			(kW)	20.00
Heating capacity			(kW)	22.40
Power supply			1Ph., 220V, 60Hz. 1Ph., 220V - 240V, 50Hz.	
Electrical characteristic	Cooling	Running current	(A)	10.55
		Power consumption	(W)	0.69
		Power factor	(-)	0.94
		EER	(kW/kW)	2.90
		SEER	(kW/kW)	5.95
	Heating	Running current	(A)	10.40
		Power consumption	(W)	0.67
		Power factor	(-)	0.94
		COP	(kW/kW)	3.32
		SCOP	(kW/kW)	3.8
Outer dimension	Main unit	Height	(mm)	275
		Width	(mm)	1000
		Depth	(mm)	750
Total weight		(kg)	31	
Air flow volume		H/M/L (m ³ / h)	1200/930/750	
Sound pressure level		H/M+/M/L+/L (dB·A)	34/32/30/28/26	
Sound power level		H (dB·A)	49	
Connecting pipe		Gas side (mm)	Ø 28.6	
		Liquid side (mm)	Ø 12.7	
Fan motor			(W)	150
Air filter			Standard filter (Long life filter)	
Controller			Optional (sold separately)	

Note : Rated conditions

Cooling : Indoor air tempreature 27 °C DB/ 19°C WB, Outdoor 35 °C DB

Heating : Indoor air tempreature 20 °C DB, Outdoor 7°C DB / 6°C WB

Duct Type

Triple combination

Model	Indoor unit		RAV	HM801BTP-E/TR x3
	Outdoor unit		RAV	GM2803AT8P-E/TR
Cooling capacity			(kW)	23.50
Heating capacity			(kW)	24.00
Power supply			1Ph., 220V, 60Hz. 1Ph., 220V - 240V, 50Hz.	
Electrical characteristic	Cooling	Running current	(A)	16.30
		Power consumption	(W)	1.06
		Power factor	(-)	0.93
		EER	(kW/kW)	2.23
		SEER	(kW/kW)	5.29
	Heating	Running current	(A)	11.70
		Power consumption	(W)	0.77
		Power factor	(-)	0.93
		COP	(kW/kW)	3.18
		SCOP	(kW/kW)	3.70
Outer dimension	Main unit	Height	(mm)	275
		Width	(mm)	1000
		Depth	(mm)	750
Total weight		(kg)	31	
Air flow volume		H/M/L	(m ³ / h)	1200/930/750
Sound pressure level		H/M+/M/L+/L	(dB·A)	34/32/30/28/26
Sound power level		H	(dB·A)	49
Connecting pipe		Gas side	(mm)	Ø 28.6
		Liquid side	(mm)	Ø 12.7
Fan motor			(W)	150
Air filter			Standard filter (Long life filter)	
Controller			Optional (sold separately)	

Note : Rated conditions

Cooling : Indoor air temperature 27 °C DB/ 19°C WB, Outdoor 35 °C DB
Heating : Indoor air temperature 20 °C DB, Outdoor 7°C DB / 6°C WB

Duct Type

Double Twin combination

Model	Indoor unit		RAV	HM561BTP-E/TR x4	
	Outdoor unit		RAV	GM2243AT8P-E/TR	
Cooling capacity			(kW)	20.00	
Heating capacity			(kW)	22.40	
Power supply			1Ph., 220V, 60Hz. 1Ph., 220V - 240V, 50Hz.		
Electrical characteristic	Cooling	Running current		(A)	10.55
		Power consumption		(W)	0.69
		Power factor		(-)	0.94
		EER	(kW/kW)	2.90	
		SEER	(kW/kW)	5.93	
	Heating	Running current		(A)	10.40
		Power consumption		(W)	6.74
		Power factor		(-)	0.94
		COP	(kW/kW)	3.32	
		SCOP	(kW/kW)	3.80	
Outer dimension	Main unit	Height		(mm)	275
		Width		(mm)	700
		Depth		(mm)	750
Total weight		(kg)		23	
Air flow volume		H/M/L		(m ³ / h)	800/630/480
Sound pressure level		H/M+/M/L+/L		(dB·A)	33/31/29/27/25
Sound power level		H		(dB·A)	48
Connecting pipe		Gas side		(mm)	Ø 28.6
		Liquid side		(mm)	Ø 12.7
Fan motor			(W)	150	
Air filter			Standard filter (Long life filter)		
Controller			Optional (sold separately)		

Note : Rated conditions

Cooling : Indoor air temperature 27 °C DB/ 19°C WB, Outdoor 35 °C DB

Heating : Indoor air temperature 20 °C DB, Outdoor 7°C DB / 6°C WB

Duct Type

Double Twin combination

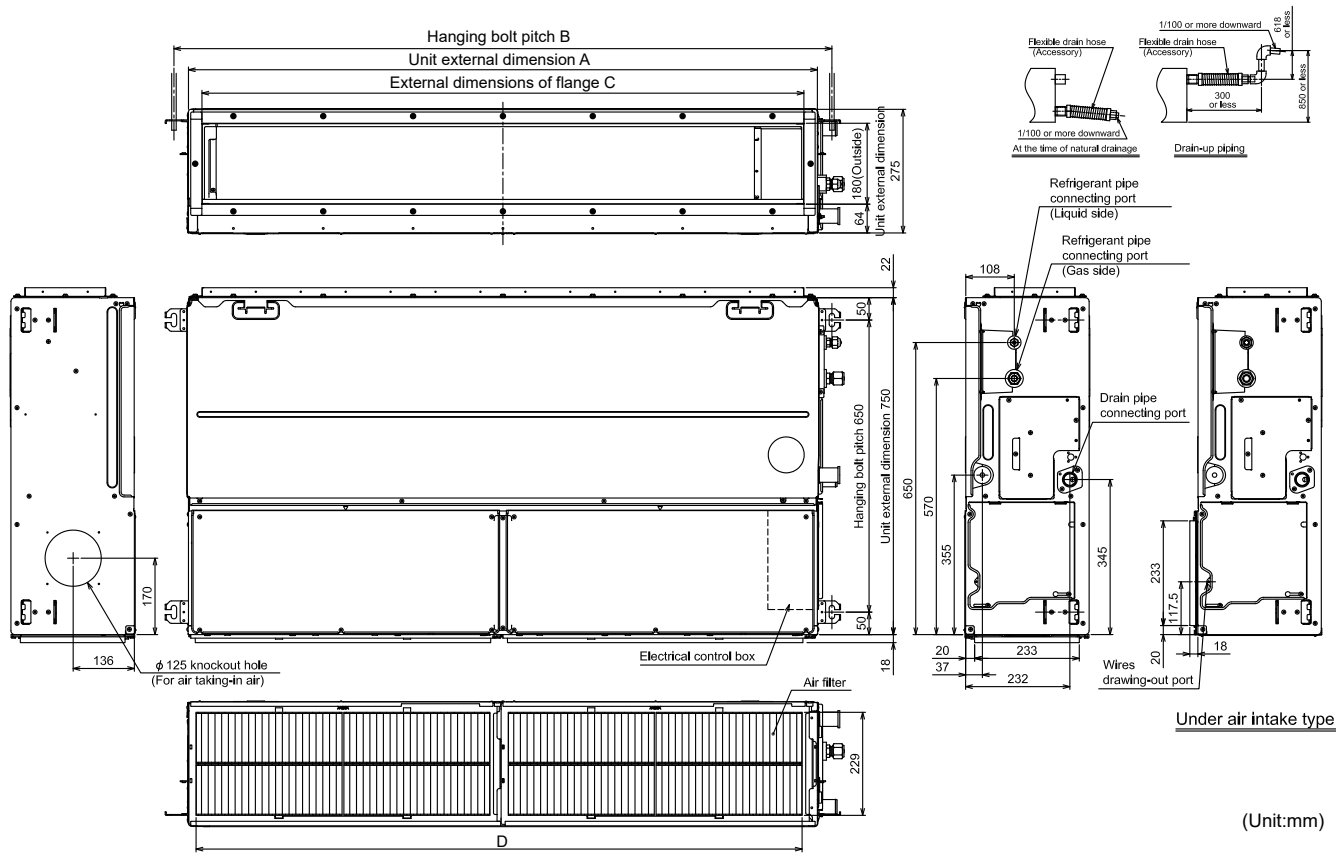
Model	Indoor unit		RAV	HM801BTP-E/TR x4
	Outdoor unit		RAV	GM2803AT8P-E/TR
Cooling capacity			(kW)	23.50
Heating capacity			(kW)	24.00
Power supply			1Ph., 220V, 60Hz. 1Ph., 220V - 240V, 50Hz.	
Electrical characteristic	Cooling	Running current	(A)	16.30
		Power consumption	(W)	1.06
		Power factor	(-)	0.93
		EER		2.23
		SEER		5.26
	Heating	Running current	(A)	11.70
		Power consumption	(W)	0.76
		Power factor	(-)	0.93
		COP	(kW/kW)	3.18
		SCOP	(kW/kW)	3.70
Outer dimension	Main unit	Height	(mm)	275
		Width	(mm)	1000
		Depth	(mm)	750
Total weight		(kg)	31	
Air flow volume		H/M/L	(m ³ / h)	1200/930/750
Sound pressure level		H/M+/M/L+/L	(dB·A)	34/32/30/28/26
Sound power level		H	(dB·A)	49
Connecting pipe		Gas side	(mm)	Ø 28.6
		Liquid side	(mm)	Ø 12.7
Fan motor			(W)	150
Air filter			Standard filter (Long life filter)	
Controller			Optional (sold separately)	

Note : Rated conditions

Cooling : Indoor air temperature 27 °C DB/ 19°C WB, Outdoor 35 °C DB
Heating : Indoor air temperature 20 °C DB, Outdoor 7°C DB / 6°C WB

2-2-2. Dimension

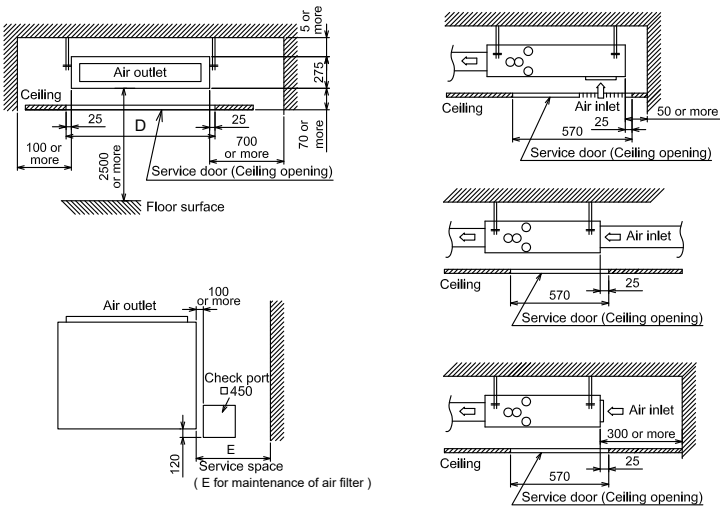
RAV-HM561BTP-E/TR, RAV-HM801BTP-E/TR, RAV-HM1101BTP-E/TR and RAV-HM1401BTP-E/TR



Dimension

	A	B	C	D
RAV-HM561BTP-E / TR	700	765	640	750
RAV-HM801BTP-E / TR	1000	1065	940	1050
RAV-HM1101BTP-E/TR	1400	1465	1340	1450
RAV-HM1401BTP-E / TR				

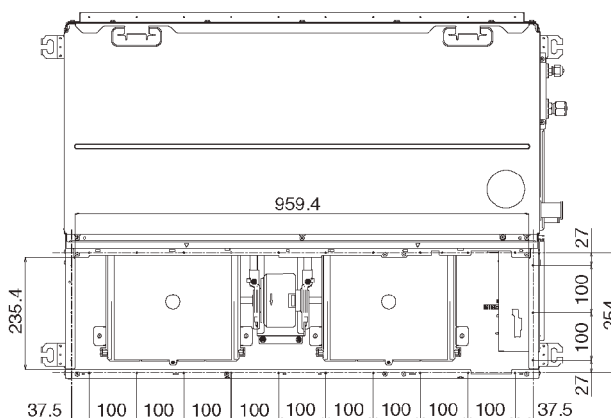
Space required for installation and servicing



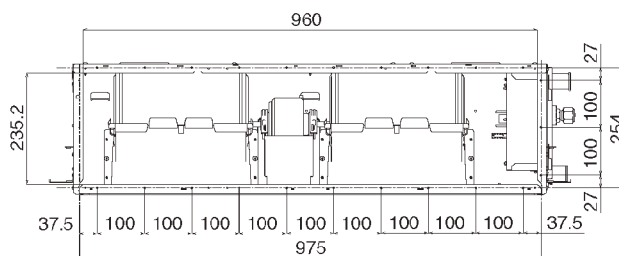
	E
RAV-HM561BTP-E / TR	700
RAV-HM801BTP-E / TR	500
RAV-HM1101BTP-E / TR	700
RAV-HM1401BTP-E / TR	

RAV-HM801BTP-E/TR

<Under air intake>

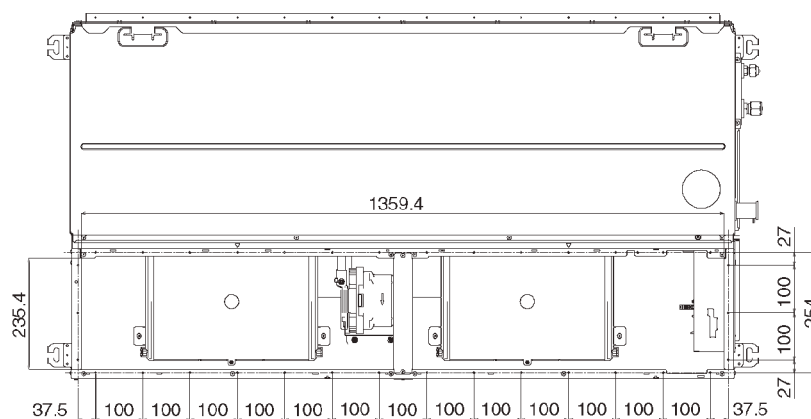


<Back air intake>

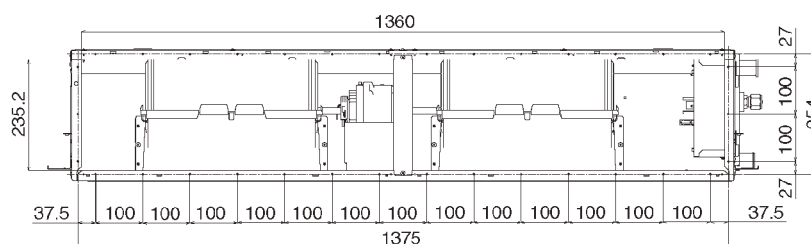


RAV-HM1101BTP-E/TR and RAV-HM1401BTP-E/TR

<Under air intake>



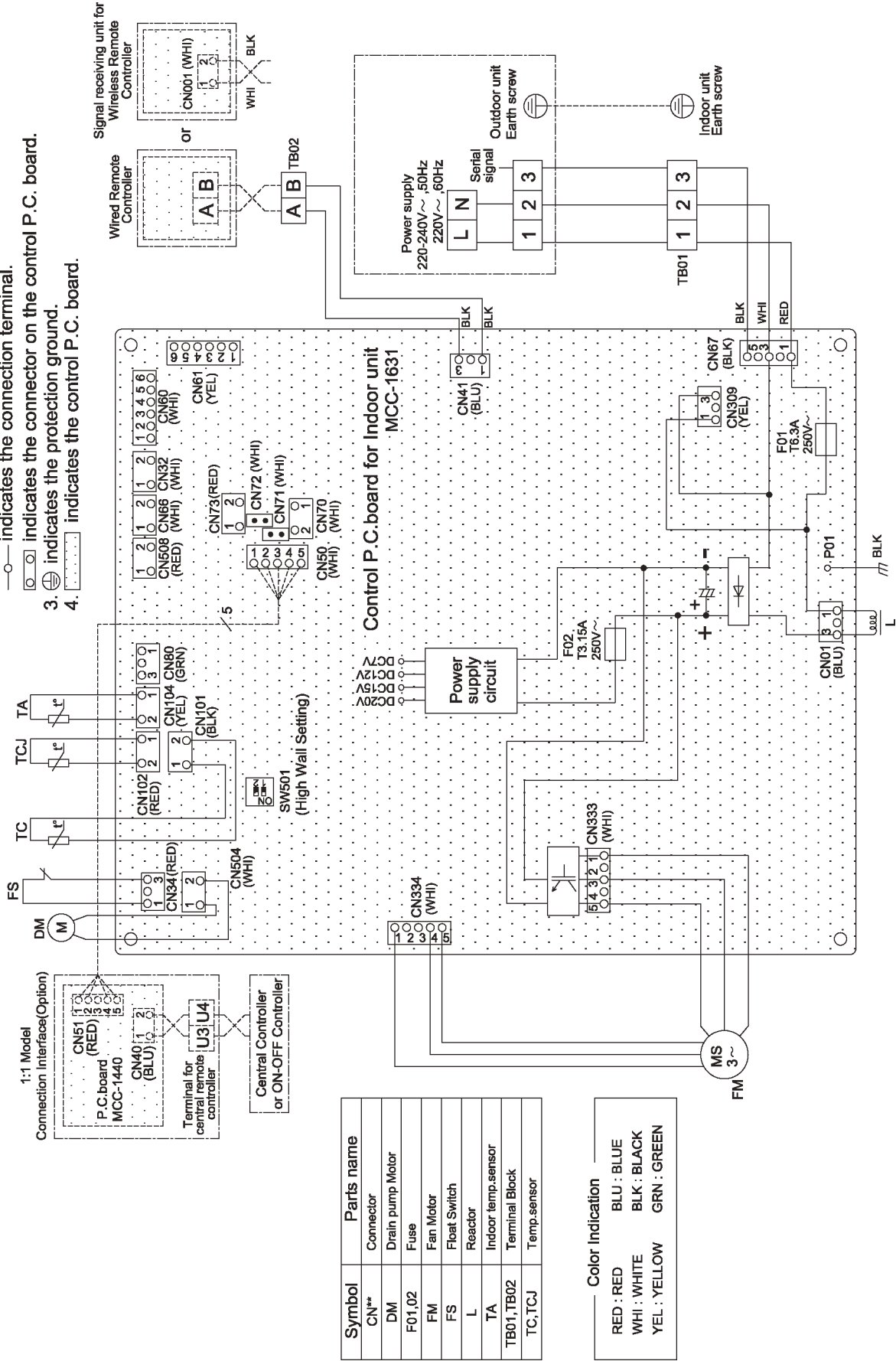
<Back air intake>



2-2-3. Wiring Diagrams

RAV-HM561BTP-E/TR, RAV-HM801BTP-E/TR, RAV-HM1101BTP-E/TR and RAV-HM1401BTP-E/TR

- 1. Broken line indicate the wiring at site.
Long dashed short line indicate the accessories.
- 2. indicates the terminal block.
 indicates the connection terminal.
- 3. indicates the connector on the control P.C. board.
- 4. indicates the protection ground.



2-2-4. Sensible Capacity Table

Product models : RAV-GM2243AT8P-E / RAV-HM1101BTP-E (Twin)

Standard Condition

Indoor	27.0 °C DB / 19.0 °C WB
Outdoor	35.0 °C DB / 24.0 °C WB

Specification of product at standard condition.

Total Cooling Capacity (TC)	10.00 kW
Sensible Heat Capacity (SHC)	8.40 kW

Outdoor air temp. °C DB	Indoor Air temperature																	
	14.0 °C WB		15.0 °C WB		16.0 °C WB		17.0 °C WB		18.0 °C WB		19.0 °C WB		20.0 °C WB		22.0 °C WB		24.0 °C WB	
	20.0 °C DB		21.0 °C DB		23.0 °C DB		24.0 °C DB		26.0 °C DB		27.0 °C DB		28.0 °C DB		30.0 °C DB		32.0 °C DB	
	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
10.0	10.85	9.77	11.23	10.00	11.98	10.44	12.27	10.66	12.83	11.10	13.21	11.10	13.59	11.10	14.39	11.04	15.05	10.86
12.0	10.64	9.58	11.01	9.81	11.75	10.23	12.03	10.45	12.58	10.88	12.95	10.88	13.32	10.89	14.11	10.82	14.76	10.65
14.0	10.43	9.39	10.79	9.61	11.52	10.03	11.79	10.24	12.33	10.67	12.70	10.66	13.06	10.67	13.83	10.61	14.46	10.44
16.0	10.22	9.20	10.57	9.42	11.28	9.83	11.55	10.04	12.08	10.45	12.44	10.45	12.79	10.46	13.55	10.39	14.17	10.23
18.0	10.01	9.01	10.35	9.22	11.05	9.62	11.31	9.83	11.83	10.24	12.18	10.23	12.53	10.24	13.27	10.18	13.88	10.02
20.0	9.80	8.82	10.14	9.03	10.82	9.42	11.07	9.62	11.58	10.02	11.93	10.02	12.27	10.03	12.99	9.97	13.59	9.81
21.0	9.69	8.73	10.03	8.93	10.70	9.32	10.95	9.52	11.46	9.91	11.80	9.91	12.13	9.92	12.85	9.86	13.44	9.70
23.0	9.48	8.54	9.81	8.74	10.47	9.12	10.72	9.31	11.21	9.70	11.54	9.69	11.87	9.70	12.57	9.64	13.15	9.49
25.0	9.27	8.35	9.59	8.54	10.24	8.91	10.48	9.11	10.96	9.48	11.28	9.48	11.61	9.49	12.29	9.43	12.86	9.28
27.0	9.06	8.16	9.37	8.35	10.00	8.71	10.24	8.90	10.71	9.27	11.03	9.26	11.34	9.27	12.01	9.22	12.56	9.07
29.0	8.85	7.97	9.15	8.16	9.77	8.51	10.00	8.69	10.46	9.05	10.77	9.05	11.08	9.05	11.73	9.00	12.27	8.86
31.0	8.64	7.78	8.94	7.96	9.54	8.31	9.76	8.48	10.21	8.83	10.51	8.83	10.81	8.84	11.45	8.79	11.98	8.65
33.0	8.42	7.59	8.72	7.77	9.30	8.10	9.52	8.28	9.96	8.62	10.26	8.62	10.55	8.62	11.17	8.57	11.69	8.44
35.0	8.21	7.40	8.50	7.57	9.07	7.90	9.29	8.07	9.71	8.40	10.00	8.40	10.29	8.41	10.89	8.36	11.39	8.22
37.0	8.00	7.21	8.28	7.38	8.84	7.70	9.05	7.86	9.46	8.19	9.74	8.18	10.02	8.19	10.61	8.14	11.10	8.01
39.0	7.57	6.82	7.83	6.98	8.36	7.28	8.56	7.44	8.95	7.74	9.22	7.74	9.48	7.75	10.04	7.70	10.50	7.58
40.0	7.42	6.69	7.68	6.84	8.20	7.14	8.39	7.29	8.78	7.59	9.04	7.59	9.29	7.60	9.84	7.55	10.29	7.43
42.0	7.13	6.42	7.37	6.57	7.87	6.86	8.06	7.00	8.43	7.29	8.68	7.29	8.92	7.29	9.45	7.25	9.89	7.14
43.0	6.98	6.29	7.22	6.43	7.71	6.71	7.89	6.86	8.25	7.14	8.50	7.14	8.74	7.14	9.26	7.10	9.68	6.99
45.0	6.04	5.44	6.25	5.57	6.67	5.81	6.83	5.94	7.14	6.18	7.36	6.18	7.57	6.18	8.01	6.15	8.38	6.05
46.0	5.89	5.31	6.10	5.43	6.51	5.67	6.66	5.79	6.97	6.03	7.18	6.03	7.38	6.03	7.82	6.00	8.18	5.90

Product models : RAV-GM2803AT8P-E / RAV-HM1401BTP-E (Twin)

Standard Condition

Indoor	27.0 °C DB / 19.0 °C WB
Outdoor	35.0 °C DB / 24.0 °C WB

Specification of product at standard condition.

Total Cooling Capacity (TC)	12.50	kW
Sensible Heat Capacity (SHC)	9.50	kW

Outdoor air temp. °C DB	Indoor Air temperature																	
	14.0 °C WB		15.0 °C WB		16.0 °C WB		17.0 °C WB		18.0 °C WB		19.0 °C WB		20.0 °C WB		22.0 °C WB		24.0 °C WB	
	20.0 °C DB		21.0 °C DB		23.0 °C DB		24.0 °C DB		26.0 °C DB		27.0 °C DB		28.0 °C DB		30.0 °C DB		32.0 °C DB	
	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
10.0	13.56	11.13	14.03	11.38	14.98	11.85	15.33	12.10	16.04	12.59	16.51	12.55	16.98	12.52	17.98	12.36	18.81	12.07
12.0	13.30	10.92	13.76	11.16	14.69	11.62	15.03	11.86	15.73	12.35	16.19	12.30	16.65	12.28	17.64	12.12	18.44	11.84
14.0	13.03	10.70	13.49	10.94	14.39	11.39	14.74	11.63	15.41	12.10	15.87	12.06	16.32	12.03	17.29	11.88	18.08	11.61
16.0	12.77	10.48	13.22	10.72	14.10	11.16	14.44	11.39	15.10	11.86	15.55	11.82	15.99	11.79	16.94	11.64	17.71	11.37
18.0	12.51	10.27	12.94	10.49	13.81	10.93	14.14	11.16	14.79	11.61	15.23	11.57	15.66	11.55	16.59	11.40	17.35	11.14
20.0	12.24	10.05	12.67	10.27	13.52	10.70	13.84	10.92	14.48	11.37	14.91	11.33	15.33	11.30	16.24	11.16	16.98	10.90
21.0	12.11	9.94	12.53	10.16	13.38	10.58	13.69	10.80	14.32	11.24	14.75	11.21	15.17	11.18	16.06	11.04	16.80	10.78
23.0	11.85	9.73	12.26	9.94	13.08	10.35	13.40	10.57	14.01	11.00	14.43	10.96	14.84	10.94	15.71	10.80	16.43	10.55
25.0	11.59	9.51	11.99	9.72	12.79	10.12	13.10	10.33	13.70	10.76	14.10	10.72	14.51	10.70	15.36	10.56	16.07	10.31
27.0	11.32	9.29	11.72	9.50	12.50	9.89	12.80	10.10	13.39	10.51	13.78	10.48	14.18	10.45	15.01	10.32	15.70	10.08
29.0	11.06	9.08	11.44	9.28	12.21	9.66	12.50	9.86	13.08	10.27	13.46	10.23	13.85	10.21	14.66	10.08	15.34	9.85
31.0	10.79	8.86	11.17	9.06	11.92	9.43	12.20	9.63	12.77	10.02	13.14	9.99	13.52	9.97	14.32	9.84	14.97	9.61
33.0	10.53	8.64	10.90	8.84	11.63	9.20	11.91	9.39	12.45	9.78	12.82	9.74	13.19	9.72	13.97	9.60	14.61	9.38
35.0	10.27	8.43	10.62	8.62	11.34	8.97	11.61	9.16	12.14	9.53	12.50	9.50	12.86	9.48	13.62	9.36	14.24	9.14
37.0	10.00	8.21	10.35	8.39	11.05	8.74	11.31	8.92	11.83	9.29	12.18	9.26	12.53	9.24	13.27	9.12	13.88	8.91
39.0	8.48	6.96	8.77	7.11	9.36	7.41	9.58	7.56	10.03	7.87	10.32	7.84	10.62	7.83	11.24	7.73	11.76	7.55
40.0	8.29	6.81	8.58	6.96	9.16	7.24	9.38	7.40	9.81	7.70	10.10	7.67	10.39	7.66	11.00	7.56	11.50	7.38
42.0	7.92	6.50	8.20	6.65	8.75	6.92	8.96	7.07	9.37	7.36	9.65	7.33	9.92	7.32	10.51	7.22	10.99	7.05
43.0	7.74	6.35	8.01	6.49	8.55	6.76	8.75	6.90	9.15	7.18	9.42	7.16	9.69	7.15	10.26	7.05	10.73	6.89
45.0	6.78	5.56	7.02	5.69	7.49	5.92	7.66	6.05	8.02	6.29	8.25	6.27	8.49	6.26	8.99	6.18	9.40	6.04
46.0	6.59	5.41	6.82	5.53	7.28	5.76	7.46	5.88	7.80	6.12	8.03	6.10	8.26	6.09	8.75	6.01	9.15	5.87

Product models : RAV-GM2243AT8P-E / RAV-HM801BTP-E (Triple)

Standard Condition

Indoor	27.0 °C DB / 19.0 °C WB
Outdoor	35.0 °C DB / 24.0 °C WB

Specification of product at standard condition.

Total Cooling Capacity (TC)	7.10 kW
Sensible Heat Capacity (SHC)	5.30 kW

Outdoor air temp. °C DB	Indoor Air temperature																	
	14.0 °C WB		15.0 °C WB		16.0 °C WB		17.0 °C WB		18.0 °C WB		19.0 °C WB		20.0 °C WB		22.0 °C WB		24.0 °C WB	
	20.0 °C DB		21.0 °C DB		23.0 °C DB		24.0 °C DB		26.0 °C DB		27.0 °C DB		28.0 °C DB		30.0 °C DB		32.0 °C DB	
	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
10.0	7.70	6.22	7.97	6.36	8.51	6.61	8.71	6.75	9.11	7.03	9.38	7.00	9.65	6.98	10.22	6.88	10.68	6.71
12.0	7.55	6.10	7.82	6.23	8.34	6.49	8.54	6.62	8.93	6.89	9.20	6.86	9.46	6.85	10.02	6.75	10.48	6.58
14.0	7.40	5.98	7.66	6.11	8.18	6.36	8.37	6.49	8.76	6.75	9.01	6.73	9.27	6.71	9.82	6.61	10.27	6.45
16.0	7.25	5.86	7.51	5.99	8.01	6.23	8.20	6.36	8.58	6.62	8.83	6.59	9.08	6.57	9.62	6.48	10.06	6.32
18.0	7.10	5.74	7.35	5.86	7.85	6.10	8.03	6.23	8.40	6.48	8.65	6.46	8.90	6.44	9.42	6.35	9.85	6.19
20.0	6.95	5.61	7.20	5.74	7.68	5.97	7.86	6.10	8.22	6.35	8.47	6.32	8.71	6.30	9.22	6.21	9.65	6.06
21.0	6.88	5.55	7.12	5.68	7.60	5.91	7.78	6.03	8.14	6.28	8.38	6.25	8.62	6.24	9.12	6.15	9.54	6.00
23.0	6.73	5.43	6.96	5.55	7.43	5.78	7.61	5.90	7.96	6.14	8.19	6.12	8.43	6.10	8.93	6.01	9.33	5.87
25.0	6.58	5.31	6.81	5.43	7.27	5.65	7.44	5.77	7.78	6.00	8.01	5.98	8.24	5.96	8.73	5.88	9.13	5.74
27.0	6.43	5.19	6.65	5.31	7.10	5.52	7.27	5.64	7.61	5.87	7.83	5.84	8.05	5.83	8.53	5.75	8.92	5.60
29.0	6.28	5.07	6.50	5.18	6.94	5.39	7.10	5.51	7.43	5.73	7.65	5.71	7.87	5.69	8.33	5.61	8.71	5.47
31.0	6.13	4.95	6.34	5.06	6.77	5.26	6.93	5.38	7.25	5.59	7.46	5.57	7.68	5.56	8.13	5.48	8.50	5.34
33.0	5.98	4.83	6.19	4.94	6.61	5.14	6.76	5.24	7.07	5.46	7.28	5.44	7.49	5.42	7.93	5.34	8.30	5.21
35.0	5.83	4.71	6.03	4.81	6.44	5.01	6.59	5.11	6.90	5.32	7.10	5.30	7.30	5.29	7.73	5.21	8.09	5.08
37.0	5.68	4.59	5.88	4.69	6.28	4.88	6.42	4.98	6.72	5.18	6.92	5.16	7.12	5.15	7.54	5.08	7.88	4.95
39.0	5.37	4.34	5.56	4.43	5.94	4.61	6.08	4.71	6.36	4.90	6.54	4.88	6.73	4.87	7.13	4.80	7.45	4.68
40.0	5.27	4.25	5.45	4.35	5.82	4.52	5.96	4.62	6.23	4.81	6.42	4.79	6.60	4.78	6.99	4.71	7.31	4.59
42.0	5.06	4.08	5.24	4.17	5.59	4.34	5.72	4.44	5.98	4.62	6.16	4.60	6.34	4.59	6.71	4.52	7.02	4.41
43.0	4.96	4.00	5.13	4.09	5.47	4.25	5.60	4.34	5.86	4.52	6.03	4.50	6.21	4.49	6.57	4.43	6.87	4.32
45.0	4.29	3.46	4.44	3.54	4.74	3.68	4.85	3.76	5.07	3.91	5.22	3.90	5.37	3.89	5.69	3.83	5.95	3.74
46.0	4.18	3.38	4.33	3.45	4.62	3.59	4.73	3.67	4.95	3.82	5.09	3.80	5.24	3.79	5.55	3.74	5.80	3.65

Product models : RAV-GM2803AT8P-E / RAV-HM801BTP-E (Triple)

Standard Condition

Indoor	27.0 °C DB / 19.0 °C WB
Outdoor	35.0 °C DB / 24.0 °C WB

Specification of product at standard condition.

Total Cooling Capacity (TC)	7.10 kW
Sensible Heat Capacity (SHC)	5.30 kW

Outdoor air temp. °C DB	Indoor Air temperature																	
	14.0 °C WB		15.0 °C WB		16.0 °C WB		17.0 °C WB		18.0 °C WB		19.0 °C WB		20.0 °C WB		22.0 °C WB		24.0 °C WB	
	20.0 °C DB		21.0 °C DB		23.0 °C DB		24.0 °C DB		26.0 °C DB		27.0 °C DB		28.0 °C DB		30.0 °C DB		32.0 °C DB	
	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
10.0	7.70	6.22	7.97	6.36	8.51	6.61	8.71	6.75	9.11	7.03	9.38	7.00	9.65	6.98	10.22	6.88	10.68	6.71
12.0	7.55	6.10	7.82	6.23	8.34	6.49	8.54	6.62	8.93	6.89	9.20	6.86	9.46	6.85	10.02	6.75	10.48	6.58
14.0	7.40	5.98	7.66	6.11	8.18	6.36	8.37	6.49	8.76	6.75	9.01	6.73	9.27	6.71	9.82	6.61	10.27	6.45
16.0	7.25	5.86	7.51	5.99	8.01	6.23	8.20	6.36	8.58	6.62	8.83	6.59	9.08	6.57	9.62	6.48	10.06	6.32
18.0	7.10	5.74	7.35	5.86	7.85	6.10	8.03	6.23	8.40	6.48	8.65	6.46	8.90	6.44	9.42	6.35	9.85	6.19
20.0	6.95	5.61	7.20	5.74	7.68	5.97	7.86	6.10	8.22	6.35	8.47	6.32	8.71	6.30	9.22	6.21	9.65	6.06
21.0	6.88	5.55	7.12	5.68	7.60	5.91	7.78	6.03	8.14	6.28	8.38	6.25	8.62	6.24	9.12	6.15	9.54	6.00
23.0	6.73	5.43	6.96	5.55	7.43	5.78	7.61	5.90	7.96	6.14	8.19	6.12	8.43	6.10	8.93	6.01	9.33	5.87
25.0	6.58	5.31	6.81	5.43	7.27	5.65	7.44	5.77	7.78	6.00	8.01	5.98	8.24	5.96	8.73	5.88	9.13	5.74
27.0	6.43	5.19	6.65	5.31	7.10	5.52	7.27	5.64	7.61	5.87	7.83	5.84	8.05	5.83	8.53	5.75	8.92	5.60
29.0	6.28	5.07	6.50	5.18	6.94	5.39	7.10	5.51	7.43	5.73	7.65	5.71	7.87	5.69	8.33	5.61	8.71	5.47
31.0	6.13	4.95	6.34	5.06	6.77	5.26	6.93	5.38	7.25	5.59	7.46	5.57	7.68	5.56	8.13	5.48	8.50	5.34
33.0	5.98	4.83	6.19	4.94	6.61	5.14	6.76	5.24	7.07	5.46	7.28	5.44	7.49	5.42	7.93	5.34	8.30	5.21
35.0	5.83	4.71	6.03	4.81	6.44	5.01	6.59	5.11	6.90	5.32	7.10	5.30	7.30	5.29	7.73	5.21	8.09	5.08
37.0	5.68	4.59	5.88	4.69	6.28	4.88	6.42	4.98	6.72	5.18	6.92	5.16	7.12	5.15	7.54	5.08	7.88	4.95
39.0	4.82	3.89	4.98	3.97	5.32	4.13	5.44	4.22	5.70	4.39	5.86	4.38	6.03	4.36	6.39	4.30	6.68	4.20
40.0	4.71	3.80	4.87	3.89	5.20	4.04	5.33	4.13	5.57	4.30	5.73	4.28	5.90	4.27	6.25	4.21	6.53	4.11
42.0	4.50	3.63	4.66	3.71	4.97	3.86	5.09	3.95	5.32	4.11	5.48	4.09	5.64	4.08	5.97	4.02	6.24	3.92
43.0	4.40	3.55	4.55	3.63	4.85	3.77	4.97	3.85	5.20	4.01	5.35	3.99	5.50	3.98	5.83	3.93	6.10	3.83
45.0	3.85	3.11	3.98	3.18	4.25	3.31	4.35	3.38	4.55	3.51	4.69	3.50	4.82	3.49	5.11	3.44	5.34	3.36
46.0	3.75	3.02	3.88	3.09	4.14	3.22	4.23	3.28	4.43	3.42	4.56	3.40	4.69	3.40	4.97	3.35	5.20	3.26

Product models : RAV-GM2243AT8P-E / RAV-HM561BTP-E (Double twin)

Standard Condition

Indoor	27.0 °C DB / 19.0 °C WB
Outdoor	35.0 °C DB / 24.0 °C WB

Specification of product at standard condition.

Total Cooling Capacity (TC)	5.00	kW
Sensible Heat Capacity (SHC)	4.20	kW

Outdoor air temp. °C DB	Indoor Air temperature																	
	14.0 °C WB		15.0 °C WB		16.0 °C WB		17.0 °C WB		18.0 °C WB		19.0 °C WB		20.0 °C WB		22.0 °C WB		24.0 °C WB	
	20.0 °C DB		21.0 °C DB		23.0 °C DB		24.0 °C DB		26.0 °C DB		27.0 °C DB		28.0 °C DB		30.0 °C DB		32.0 °C DB	
	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
10.0	5.42	4.89	5.61	5.00	5.99	5.22	6.13	5.33	6.42	5.55	6.60	5.55	6.79	5.55	7.19	5.52	7.52	5.43
12.0	5.32	4.79	5.50	4.90	5.87	5.12	6.01	5.23	6.29	5.44	6.48	5.44	6.66	5.44	7.05	5.41	7.38	5.33
14.0	5.21	4.70	5.40	4.81	5.76	5.02	5.89	5.12	6.17	5.33	6.35	5.33	6.53	5.34	6.91	5.30	7.23	5.22
16.0	5.11	4.60	5.29	4.71	5.64	4.91	5.78	5.02	6.04	5.23	6.22	5.22	6.40	5.23	6.77	5.20	7.09	5.12
18.0	5.00	4.51	5.18	4.61	5.52	4.81	5.66	4.92	5.92	5.12	6.09	5.12	6.27	5.12	6.63	5.09	6.94	5.01
20.0	4.90	4.41	5.07	4.51	5.41	4.71	5.54	4.81	5.79	5.01	5.96	5.01	6.13	5.01	6.49	4.98	6.79	4.90
21.0	4.84	4.36	5.01	4.47	5.35	4.66	5.48	4.76	5.73	4.96	5.90	4.95	6.07	4.96	6.43	4.93	6.72	4.85
23.0	4.74	4.27	4.90	4.37	5.23	4.56	5.36	4.66	5.60	4.85	5.77	4.85	5.94	4.85	6.29	4.82	6.57	4.75
25.0	4.63	4.17	4.80	4.27	5.12	4.46	5.24	4.55	5.48	4.74	5.64	4.74	5.80	4.74	6.15	4.71	6.43	4.64
27.0	4.53	4.08	4.69	4.17	5.00	4.36	5.12	4.45	5.36	4.63	5.51	4.63	5.67	4.63	6.01	4.61	6.28	4.53
29.0	4.42	3.98	4.58	4.08	4.88	4.25	5.00	4.35	5.23	4.52	5.39	4.52	5.54	4.53	5.87	4.50	6.14	4.43
31.0	4.32	3.89	4.47	3.98	4.77	4.15	4.88	4.24	5.11	4.42	5.26	4.42	5.41	4.42	5.73	4.39	5.99	4.32
33.0	4.21	3.79	4.36	3.88	4.65	4.05	4.76	4.14	4.98	4.31	5.13	4.31	5.28	4.31	5.59	4.29	5.84	4.22
35.0	4.11	3.70	4.25	3.79	4.54	3.95	4.64	4.03	4.86	4.20	5.00	4.20	5.14	4.20	5.45	4.18	5.70	4.11
37.0	4.00	3.60	4.14	3.69	4.42	3.85	4.52	3.93	4.73	4.09	4.87	4.09	5.01	4.10	5.31	4.07	5.55	4.01
39.0	3.78	3.41	3.92	3.49	4.18	3.64	4.28	3.72	4.48	3.87	4.61	3.87	4.74	3.87	5.02	3.85	5.25	3.79
40.0	3.71	3.34	3.84	3.42	4.10	3.57	4.20	3.65	4.39	3.80	4.52	3.80	4.65	3.80	4.92	3.78	5.15	3.72
42.0	3.56	3.21	3.69	3.28	3.94	3.43	4.03	3.50	4.21	3.65	4.34	3.64	4.46	3.65	4.73	3.63	4.94	3.57
43.0	3.49	3.14	3.61	3.22	3.85	3.36	3.95	3.43	4.13	3.57	4.25	3.57	4.37	3.57	4.63	3.55	4.84	3.49
45.0	3.02	2.72	3.13	2.78	3.34	2.91	3.42	2.97	3.57	3.09	3.68	3.09	3.78	3.09	4.01	3.07	4.19	3.02
46.0	2.95	2.65	3.05	2.72	3.25	2.83	3.33	2.90	3.49	3.01	3.59	3.01	3.69	3.02	3.91	3.00	4.09	2.95

Product models : RAV-GM2803AT8P-E / RAV-HM801BTP-E (Double twin)

Standard Condition

Indoor	27.0 °C DB / 19.0 °C WB
Outdoor	35.0 °C DB / 24.0 °C WB

Specification of product at standard condition.

Total Cooling Capacity (TC)	7.10 kW
Sensible Heat Capacity (SHC)	5.30 kW

Outdoor air temp. °C DB	Indoor Air temperature																	
	14.0 °C WB		15.0 °C WB		16.0 °C WB		17.0 °C WB		18.0 °C WB		19.0 °C WB		20.0 °C WB		22.0 °C WB		24.0 °C WB	
	20.0 °C DB		21.0 °C DB		23.0 °C DB		24.0 °C DB		26.0 °C DB		27.0 °C DB		28.0 °C DB		30.0 °C DB		32.0 °C DB	
	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
10.0	7.70	6.22	7.97	6.36	8.51	6.61	8.71	6.75	9.11	7.03	9.38	7.00	9.65	6.98	10.22	6.88	10.68	6.71
12.0	7.55	6.10	7.82	6.23	8.34	6.49	8.54	6.62	8.93	6.89	9.20	6.86	9.46	6.85	10.02	6.75	10.48	6.58
14.0	7.40	5.98	7.66	6.11	8.18	6.36	8.37	6.49	8.76	6.75	9.01	6.73	9.27	6.71	9.82	6.61	10.27	6.45
16.0	7.25	5.86	7.51	5.99	8.01	6.23	8.20	6.36	8.58	6.62	8.83	6.59	9.08	6.57	9.62	6.48	10.06	6.32
18.0	7.10	5.74	7.35	5.86	7.85	6.10	8.03	6.23	8.40	6.48	8.65	6.46	8.90	6.44	9.42	6.35	9.85	6.19
20.0	6.95	5.61	7.20	5.74	7.68	5.97	7.86	6.10	8.22	6.35	8.47	6.32	8.71	6.30	9.22	6.21	9.65	6.06
21.0	6.88	5.55	7.12	5.68	7.60	5.91	7.78	6.03	8.14	6.28	8.38	6.25	8.62	6.24	9.12	6.15	9.54	6.00
23.0	6.73	5.43	6.96	5.55	7.43	5.78	7.61	5.90	7.96	6.14	8.19	6.12	8.43	6.10	8.93	6.01	9.33	5.87
25.0	6.58	5.31	6.81	5.43	7.27	5.65	7.44	5.77	7.78	6.00	8.01	5.98	8.24	5.96	8.73	5.88	9.13	5.74
27.0	6.43	5.19	6.65	5.31	7.10	5.52	7.27	5.64	7.61	5.87	7.83	5.84	8.05	5.83	8.53	5.75	8.92	5.60
29.0	6.28	5.07	6.50	5.18	6.94	5.39	7.10	5.51	7.43	5.73	7.65	5.71	7.87	5.69	8.33	5.61	8.71	5.47
31.0	6.13	4.95	6.34	5.06	6.77	5.26	6.93	5.38	7.25	5.59	7.46	5.57	7.68	5.56	8.13	5.48	8.50	5.34
33.0	5.98	4.83	6.19	4.94	6.61	5.14	6.76	5.24	7.07	5.46	7.28	5.44	7.49	5.42	7.93	5.34	8.30	5.21
35.0	5.83	4.71	6.03	4.81	6.44	5.01	6.59	5.11	6.90	5.32	7.10	5.30	7.30	5.29	7.73	5.21	8.09	5.08
37.0	5.68	4.59	5.88	4.69	6.28	4.88	6.42	4.98	6.72	5.18	6.92	5.16	7.12	5.15	7.54	5.08	7.88	4.95
39.0	4.82	3.89	4.98	3.97	5.32	4.13	5.44	4.22	5.70	4.39	5.86	4.38	6.03	4.36	6.39	4.30	6.68	4.20
40.0	4.71	3.80	4.87	3.89	5.20	4.04	5.33	4.13	5.57	4.30	5.73	4.28	5.90	4.27	6.25	4.21	6.53	4.11
42.0	4.50	3.63	4.66	3.71	4.97	3.86	5.09	3.95	5.32	4.11	5.48	4.09	5.64	4.08	5.97	4.02	6.24	3.92
43.0	4.40	3.55	4.55	3.63	4.85	3.77	4.97	3.85	5.20	4.01	5.35	3.99	5.50	3.98	5.83	3.93	6.10	3.83
45.0	3.85	3.11	3.98	3.18	4.25	3.31	4.35	3.38	4.55	3.51	4.69	3.50	4.82	3.49	5.11	3.44	5.34	3.36
46.0	3.75	3.02	3.88	3.09	4.14	3.22	4.23	3.28	4.43	3.42	4.56	3.40	4.69	3.40	4.97	3.35	5.20	3.26

2-2-5. Part load performance

Combination <Rated condition>

Indoor: RAV-HM1101BTP-E x 2, RAV-HM801BTP-E x 3, RAV-HM561BTP-E x 4
Outdoor: RAV-GM2243AT8(J)P-E

Operation range	Cooling		Heating	
	Q	P	Q	P
MINIMUM	W 4600	1300	4600	1250
RATING	W 20000	6890	22400	6740

Cooling Outdoor Temperature DB (°C)		Parts Load (%)																			
		100		90		80		70		60		50		40		30		20		10	
		Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P
20	23850	5409	21465	4839	19080	4269	16695	3699	14310	3129	11925	2559	9540	1989	7155	1419	5486	1021	5486	1021	
21	23593	5507	21234	4927	18875	4347	16515	3767	14156	3186	11797	2606	9437	2026	7078	1445	5426	1039	5426	1039	
22	23337	5606	21003	5015	18669	4425	16336	3834	14002	3243	11668	2653	9335	2062	7001	1471	5367	1058	5367	1058	
23	23080	5705	20772	5104	18464	4503	16156	3902	13848	3300	11540	2699	9232	2098	6924	1497	5308	1076	5308	1076	
24	22823	5804	20541	5192	18259	4581	15976	3969	13694	3358	11412	2746	9129	2135	6847	1523	5249	1095	5249	1095	
25	22567	5902	20310	5281	18053	4659	15797	4037	13540	3415	11283	2793	9027	2171	6770	1549	5190	1114	5190	1114	
26	22310	6001	20079	5369	17848	4737	15617	4104	13386	3472	11155	2840	8924	2207	6693	1575	5131	1132	5131	1132	
27	22053	6100	19848	5457	17643	4814	15437	4172	13232	3529	11027	2886	8821	2244	6616	1601	5072	1151	5072	1151	
28	21797	6199	19617	5546	17437	4892	15258	4239	13078	3586	10898	2933	8719	2280	6539	1627	5013	1170	5013	1170	
29	21540	6297	19386	5634	17232	4970	15078	4307	12924	3643	10770	2980	8616	2316	6462	1653	4954	1188	4954	1188	
30	21283	6396	19155	5722	17027	5048	14898	4374	12770	3700	10642	3026	8513	2353	6385	1679	4895	1207	4895	1207	
31	21027	6495	18924	5811	16821	5126	14719	4442	12616	3758	10513	3073	8411	2389	6308	1705	4836	1225	4836	1225	
32	20770	6594	18693	5899	16616	5204	14539	4509	12462	3815	10385	3120	8308	2425	6231	1730	4777	1244	4777	1244	
33	20513	6692	18462	5987	16411	5282	14359	4577	12308	3872	10257	3167	8205	2462	6154	1756	4718	1263	4718	1263	
34	20257	6791	18231	6076	16205	5360	14180	4645	12154	3929	10128	3213	8103	2498	6077	1782	4659	1281	4659	1281	
35	20000	6890	18000	6164	16000	5438	14000	4712	12000	3986	10000	3260	8000	2534	6000	1808	4600	1300	4600	1300	
36	19747	6989	17769	6252	15795	5516	13820	4780	11846	4043	9872	3307	7897	2570	5923	1834	4541	1319	4541	1319	
37	19487	7088	17538	6341	15589	5594	13641	4847	11692	4100	9743	3354	7795	2607	5846	1860	4482	1337	4482	1337	
38	19230	7186	17307	6429	15384	5672	13461	4915	11538	4158	9615	3400	7692	2643	5769	1886	4423	1356	4423	1356	
39	18431	6764	16588	6052	14745	5339	12902	4626	11059	3913	9216	3201	7373	2488	5529	1775	4239	1276	4239	1276	
40	18072	6764	16265	6052	14458	5339	12650	4626	10843	3913	9036	3201	7229	2488	5422	1775	4157	1276	4157	1276	
41	17713	6764	15941	6052	14170	5339	12399	4626	10628	3913	8856	3201	7085	2488	5314	1775	4074	1276	4074	1276	
42	17353	6764	15618	6052	13883	5339	12147	4626	10412	3913	8677	3201	6941	2488	5206	1775	3991	1276	3991	1276	
43	16994	6764	15294	6052	13595	5339	11896	4626	10196	3913	8497	3201	6797	2488	5098	1775	3909	1276	3909	1276	
44	15070	5261	13563	4707	12056	4152	10549	3598	9042	3044	7535	2489	6028	1935	4521	1381	3466	993	3466	993	
45	14711	5261	13240	4707	11768	4152	10297	3598	8826	3044	7355	2489	5884	1935	4413	1381	3383	993	3383	993	
46	14351	5261	12916	4707	11481	4152	10046	3598	8611	3044	7176	2489	5740	1935	4305	1381	3301	993	3301	993	

Heating		Parts Load (%)																			
Outdoor Temperature		100		90		80		70		60		50		40		30		20		10	
DB (°C)		Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P
-27		6069	2711	5462	2433	4855	2155	4248	1877	3641	1599	3034	1321	2428	1044	1821	766	1246	503	1246	503
-26		6444	2825	5800	2535	5155	2246	4511	1956	3866	1667	3222	1377	2578	1088	1933	798	1323	524	1323	524
-25		6819	2939	6137	2638	5455	2337	4774	2035	4092	1734	3410	1433	2728	1131	2046	830	1400	545	1400	545
-24		7195	3053	6475	2740	5756	2427	5036	2114	4317	1801	3597	1488	2878	1175	2158	862	1477	566	1477	566
-23		7570	3167	6813	2843	6056	2518	5299	2193	4542	1869	3785	1544	3028	1219	2271	895	1555	587	1555	587
-22		7945	3281	7151	2945	6356	2609	5562	2272	4767	1936	3973	1600	3178	1263	2384	927	1632	609	1632	609
-21		8320	3396	7488	3048	6656	2699	5824	2351	4992	2003	4160	1655	3328	1307	2496	959	1709	630	1709	630
-20		8696	3510	7826	3150	6957	2790	6087	2430	5217	2071	4348	1711	3478	1351	2609	991	1786	651	1786	651
-19		9094	3608	8185	3238	7275	2869	6366	2499	5457	2129	4547	1759	3638	1389	2728	1019	1868	669	1868	669
-18		9493	3707	8543	3327	7594	2947	6645	2567	5696	2187	4746	1807	3797	1427	2848	1047	1949	687	1949	687
-17		9891	3806	8902	3415	7913	3025	6924	2635	5935	2245	4946	1855	3957	1465	2967	1075	2031	706	2031	706
-16		10290	3904	9261	3504	8232	3104	7203	2704	6174	2303	5145	1903	4116	1503	3087	1103	2113	724	2113	724
-15		10688	4003	9620	3592	8551	3182	7482	2772	6413	2362	5344	1951	4275	1541	3207	1131	2195	742	2195	742
-14		10994	4125	9895	3702	8795	3279	7696	2856	6596	2434	5497	2011	4398	1588	3298	1165	2258	765	2258	765
-13		11300	4247	10170	3811	9040	3376	7910	2941	6780	2505	5650	2070	4520	1635	3390	1200	2320	788	2320	788
-12		11606	4369	10445	3921	9284	3473	8124	3025	6963	2577	5803	2130	4642	1682	3482	1234	2383	810	2383	810
-11		11911	4491	10720	4030	9529	3570	8338	3110	7147	2649	5956	2189	4764	1729	3573	1269	2446	833	2446	833
-10		12217	4613	10995	4140	9774	3667	8552	3194	7330	2721	6108	2249	4887	1776	3665	1303	2509	855	2509	855
-9		12523	4735	11270	4249	10018	3764	8766	3279	7514	2793	6261	2308	5009	1823	3757	1337	2572	878	2572	878
-8		12828	4857	11546	4359	10263	3861	8980	3363	7697	2865	6414	2368	5131	1870	3849	1372	2634	901	2634	901
-7		13134	4979	11821	4468	10507	3958	9194	3448	7880	2937	6567	2427	5254	1917	3940	1406	2697	923	2697	923
-6		13478	5088	12130	4567	10783	4045	9435	3524	8087	3002	6739	2480	5391	1959	4043	1437	2768	944	2768	944
-5		13822	5198	12440	4665	11058	4132	9676	3599	8293	3067	6911	2534	5529	2001	4147	1468	2839	964	2839	964
-4		14167	5307	12750	4763	11333	4219	9917	3675	8500	3131	7083	2587	5667	2043	4250	1499	2909	984	2909	984
-3		14511	5417	13060	4862	11609	4306	10158	3751	8707	3196	7255	2641	5804	2085	4353	1530	2980	1005	2980	1005
-2		14855	5526	13370	4960	11884	4393	10399	3827	8913	3261	7428	2694	5942	2128	4457	1561	3051	1025	3051	1025
-1		15199	5636	13679	5058	12159	4481	10639	3903	9120	3325	7600	2747	6080	2170	4560	1592	3121	1045	3121	1045
0		15543	5746	13989	5157	12435	4568	10880	3979	9326	3390	7772	2801	6217	2212	4663	1623	3192	1066	3192	1066
1		15888	5855	14299	5255	12710	4655	11121	4055	9533	3454	7944	2854	6355	2254	4766	1654	3263	1086	3263	1086
2		16232	5965	14609	5353	12986	4742	11362	4130	9739	3519	8116	2908	6493	2296	4870	1685	3333	1106	3333	1106
3		16498	6045	14848	5425	13198	4806	11548	4186	9899	3566	8249	2947	6599	2327	4949	1707	3388	1121	3388	1121
4		16764	6125	15087	5497	13411	4869	11735	4242	10058	3614	8382	2986	6705	2358	5029	1730	3443	1136	3443	1136
5		17030	6205	15327	5569	13624	4933	11921	4297	10218	3661	8515	3025	6812	2389	5109	1753	3497	1151	3497	1151
6		21822	6263	19640	5955	17458	5275	15275	4595	13093	3915	10911	3235	8729	2555	6547	1874	4481	1231	4481	1231
7		22400	6740	20160	6049	17920	5358	15680	4667	13440	3976	11200	3286	8960	2595	6720	1904	4600	1250	4600	1250
8		22978	6844	20680	6143	18382	5441	16085	4740	13787	4038	11489	3336	9191	2635	6893	1933	4719	1269	4719	1269
9		23556	6949	21201	6236	18845	5524	16489	4812	14134	4100	11778	3387	9422	2675	7067	1963	4837	1289	4837	1289
10		24134	7053	21721	6330	19307	5607	16894	4884	14481	4161	12067	3438	9654	2715	7240	1992	4956	1308	4956	1308
11		24712	7157	22241	6424	19770	5690	17299	4956	14827	4223	12356	3489	9885	2755	7414	2022	5075	1327	5075	1327
12		25290	7262	22761	6517	20232	5773	17703	5029	15174	4284	12645	3540	10116	2796	7587	2051	5194	1347	5194	1347
13		25868	7366	23282	6611	20695	5856	18108	5101	15521	4346	12934	3591	10347	2836	7761	2081	5312	1366	5312	1366
14		26446	7471	23802	6705	21157	5939	18513	5173	15868	4407	13223	3642	10579	2876	7934	2110	5431	1385	5431	1385
15		27025	7575	24322	6798	21620	6022	18917	5246	16215	4469	13512	3693	10810	2916	8107	2140	5550	1405	5550	1405
16		27603	7679	24842	6892	22082	6105	19322	5318	16562	4531	13801	3743	11041	2956	8281	2169	5668	1424	5668	1424
17		28181	7784	25363	6986	22545	6188	19726	5390	16908	4592	14090	3794	11272	2997	8454	2199	5787	1444	5787	1444
18		28759	7888	25883	7079	23007	6271	20131	5462	17255	4654	14379	3845	11503	3037	8628	2228	5906	1463	5906	1463
19		29337	7992	26403	7173	23469	6354	20536	5535	17602	4715	14668	3896	11735	3077	8801	2258	6025	1482	6025	1482
20		29915	8097	26923	7267	23932	6437	20940	5607	17949	4777	14957	3947	11966	3117	8974	2287	6143	1502	6143	1502
21		30493	8201	27444	7360	24394	6520	21345	5679	18296	4838	15246	3998	12197	3157	9148	2317	6262	1521	6262	1521
22		31071	8305	27964	7454	24857	6603	21750	5751	18643	4900	15535	4049	12428	3197	9321	2346	6381	1540	6381	1540
23		31649	8410	28484	7548	25319	6686	22154	5824	18989	4962	15825	4100	12660	3238	9495	2376	6499	1560	6499	1560
24		32227	8514	29004	7641	25782	6769	22559	5896	19336	5023	16114	4150	12891	3278	9668	2405	6618	1579	6618	1579

Combination <Capacity range (Max)>

Indoor: RAV-HM1101BTP-E x 2, RAV-HM801BTP-E x 3, RAV-HM561BTP-E x 4
Outdoor: RAV-GM2243AT8(J)P-E

Operation range	Cooling		Heating	
	Q	P	Q	P
MINIMUM	W 4600	1300	4600	1250
RATING	W 20000	6890	22400	6740
MAXIMUM	W 22400	8960	25000	8330

Cooling

Outdoor Temperature DB (°C)	Parts Load (%)															
	100		90		80		70		60		50		40		30	
	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P
20	26801	7085	24120	6323	21440	5560	18760	4798	16080	4036	13400	3274	10720	2512	8040	1749
21	26512	7214	23861	6438	21210	5662	18558	4886	15907	4110	13256	3334	10605	2557	7954	1781
22	26224	7344	23601	6554	20979	5764	18357	4973	15734	4183	13112	3393	10489	2603	7867	1813
23	25935	7473	23342	6669	20748	5865	18155	5061	15561	4257	12968	3453	10374	2649	7781	1845
24	25647	7602	23082	6784	20517	5967	17953	5149	15388	4331	12823	3513	10259	2695	7694	1877
25	25358	7732	22823	6900	20287	6068	17751	5236	15215	4404	12679	3573	10143	2741	7608	1909
26	25070	7861	22563	7015	20056	6170	17549	5324	15042	4478	12535	3632	10028	2787	7521	1941
27	24782	7990	22303	7131	19825	6271	17347	5412	14869	4552	12391	3692	9913	2833	7434	1973
28	24493	8120	22044	7246	19595	6373	17145	5499	14696	4626	12247	3752	9797	2878	7348	2005
29	24205	8249	21784	7362	19364	6474	16943	5587	14523	4699	12102	3812	9682	2924	7261	2037
30	23916	8379	21525	7477	19133	6576	16741	5674	14350	4773	11958	3872	9567	2970	7175	2069
31	23628	8508	21265	7593	18902	6677	16540	5762	14177	4847	11814	3931	9451	3016	7088	2101
32	23339	8637	21006	7708	18672	6779	16338	5850	14004	4920	11670	3991	9336	3062	7002	2133
33	23051	8767	20746	7824	18441	6880	16136	5937	13831	4994	11526	4051	9220	3108	6915	2165
34	22763	8896	20486	7939	18210	6982	15934	6025	13658	5068	11381	4111	9105	3154	6829	2197
35	22400	8960	20160	7996	17920	7032	15680	6068	13440	5104	11200	4140	8960	3176	6720	2212
36	21971	8960	19774	7996	17577	7032	15379	6068	13182	5104	10985	4140	8788	3176	6591	2212
37	21549	8960	19394	7996	17239	7032	15084	6068	12929	5104	10774	4140	8620	3176	6465	2212
38	21134	8960	19021	7996	16908	7032	14794	6068	12681	5104	10567	4140	8454	3176	6340	2212
39	17568	5973	15811	5331	14054	4688	12298	4045	10541	3403	8784	2760	7027	2118	5270	1475
40	17225	5973	15503	5331	13780	4688	12058	4045	10335	3403	8613	2760	6890	2118	5168	1475
41	16883	5973	15194	5331	13506	4688	11818	4045	10130	3403	8441	2760	6753	2118	5065	1475
42	16540	5973	14886	5331	13232	4688	11578	4045	9924	3403	8270	2760	6616	2118	4962	1475
43	16198	5973	14578	5331	12958	4688	11338	4045	9719	3403	8099	2760	6479	2118	4859	1475
44	14364	4646	12928	4146	11491	3646	10055	3146	8618	2647	7182	2147	5746	1647	4309	1147
45	14021	4646	12619	4146	11217	3646	9815	3146	8413	2647	7011	2147	5609	1647	4206	1147
46	13679	4646	12311	4146	10943	3646	9575	3146	8207	2647	6839	2147	5472	1647	4104	1147

Heating

Outdoor Temperature DB (°C)	Parts Load (%)																			
	100		90		80		70		60		50		40		30		20		10	
	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P
-27	6700	3672	6030	3290	5360	2907	4690	2525	4020	2142	3350	1760	2680	1377	2010	995	1340	618	1233	551
-26	7114	3827	6403	3428	5691	3030	4980	2631	4269	2232	3557	1834	2846	1435	2134	1037	1423	638	1309	574
-25	7529	3981	6776	3567	6023	3152	5270	2737	4517	2323	3764	1908	3011	1493	2259	1078	1506	664	1385	597
-24	7943	4136	7149	3749	6354	3274	5560	2844	4766	2413	3971	1982	3177	1551	2383	1120	1589	690	1461	621
-23	8357	4291	7521	3844	6686	3397	5850	2950	5014	2503	4179	2056	3343	1609	2507	1162	1671	715	1538	644
-22	8771	4445	7894	3982	7017	3519	6140	3056	5263	2593	4386	2130	3509	1667	2631	1204	1754	741	1614	667
-21	9186	4600	8267	4121	7349	3642	6430	3162	5511	2683	4593	2204	3674	1725	2756	1246	1837	767	1690	690
-20	9600	4754	8640	4259	7680	3764	6720	3269	5760	2774	4800	2278	3840	1783	2880	1288	1920	793	1766	713
-19	10040	4888	9036	4379	8032	3870	7028	3361	6024	2851	5020	2342	4016	1833	3012	1324	2008	815	1847	733
-18	10480	5022	9432	4498	8384	3975	7336	3452	6288	2929	5240	2406	4192	1883	3144	1360	2096	837	1928	754
-17	10920	5155	9828	4618	8736	4081	7644	3544	6552	3007	5460	2470	4368	1933	3276	1396	2184	859	2009	774
-16	11360	5289	10224	4738	9088	4187	7952	3636	6816	3085	5680	2534	4544	1983	3408	1433	2272	882	2090	794
-15	11800	5422	10620	4857	9440	4293	8260	3728	7080	3163	5900	2598	4720	2034	3540	1469	2360	904	2171	814
-14	12138	5587	10924	5005	9710	4423	8496	3841	7283	3259	6069	2678	4855	2096	3641	1514	2428	932	2233	838
-13	12475	5753	11228	5153	9980	4554	8733	3955	7485	3356	6238	2757	4990	2158	3743	1558	2495	959	2295	863
-12	12813	5918	11531	5302	10250	4685	8969	4069	7688	3452	6406	2836	5125	2219	3844	1603	2563	987	2358	888
-11	13150	6083	11835	5450	10520	4816	9205	4182	7890	3549	6575	2915	5260	2281	3945	1648	2630	1014	2420	913
-10	13488	6248	12139	5598	10790	4947	9441	4296	8093	3645	6744	2994	5395	2343	4046	1693	2698	1042	2482	938
-9	13825	6414	12443	5746	11060	5078	9678	4410	8295	3742	6913	3073	5530	2405	4148	1737	2765	1069	2544	962
-8	14163	6579	12746	5894	11330	5208	9914	4523	8498	3838	7081	3153	5665	2467	4249	1782	2833	1097	2606	987
-7	14500	6744	13050	6042	11600	5339	10150	4637	8700	3934	7250	3232	5800	2529	4350	1827	2900	1124	2668	1012
-6	14880	6893	13392	6175	11904	5457	10416	4739	8928	4021	7440	3303	5952	2585	4464	1867	2976	1149	2738	1034
-5	15260	7041	13734	6308	12208	5574	10682	4841	9156	4108	7630	3374	6104	2641	4578	1907	3052	1174	2808	1057
-4	15640	7189	14076	6441	12512	5692	10948	4943	9384	4194	7820	3445	6256	2696	4692	1948	3128	1199	2878	1079
-3	16020	7338	14418	6574	12816	5809	11214	5045	9612	4281	8010	3516	6408	2752	4806	1988	3204	1223	2948	1101
-2	16400	7486	14760	6706	13120	5927	11480	5147	9840	4367	8200	3587	6560	2808	4920	2028	3280	1248	3018	1123
-1	16780	7635	15102	6839	13424	6044	11746	5249	10068	4454	8390	3659	6712	2863	5034	2068	3356	1273	3088	1146
0	17160	7783	15444	6972	13728	6162	12012	5351	10296	4540	8580	3730	6864	2919	5148	2108	3432	1298	3157	1168
1	17540	7931	15786	7105	14032	6279	12278	5453	10524	4627	8770	3801	7016	2975	5262	2149	3508	1322	3227	1190
2	17920	8080	16128	7238	14336	6397	12544	5555	10752	4713	8960	3872	7168	3030	5376	2189	3584	1347	3297	1212
3	18380	8246	16542	7387	14704	6529	12866	5670	11028	4811	9190	3952	7352	3093	5514	2234	3676	1375	3382	1237
4	18846	8413	16961	7537	15077	6660	13192	5784	11307	4908	9423	4032	7538	3155	5654	2279	3769	1403	3468	1262
5	19317	8580	17385	7686	15454	6792	13522	5899	11590	5005	9658	4111	7727	3218	5795	2324	3863	1430	3554	1287
6	24355	8201	21919	7347	19484	6493	17048	5638	14613	4784	12177	3930	9742	3076	7306	2222	4871	1367	4481	1231
7	25000	8330	22500	7462	20000	6595	17500	5727	15000	4859	12500	3992	10000	3124	7500	2256	5000	1389	4600	1250
8	25645	8459	23081	7578	20516	6697	17952	5816	15387	4935	12823	4054	10258	3172	7694	2291	5129	1410	4719	1269
9	26290	8588	23661	7693	21032	6799	18403	5904	15774	5010	13145	4115	10516	3221	7887	2326	5258	1432	4837	1289
10	26935	8717	24242	7809	21548	6901	18855	5993	16161	5085	13468	4177	10774	3269	8081	2361	5387	1453	4956	1308
11	27581	8846	24823	7925	22065	7003	19306	6082	16548	5160	13790	4239	11032	3318	8274	2396	5516	1475	5075	1327
12	28226	8975	25403	8040	22581	7105	19758	6170	16935	5236	14113	4301	11290	3366	8468	2431	5645	1496	5194	1347
13	28871	9104	25984	8156	23097	7207	20210	6259	17323	5311	14435	4363	11548	3414	8661	2466	5774	1518	5312	1366
14	22966	5325	20669	4770	18373	4215	16076	3661	13780	3106	11483	2552	9186	1997	6890	1442	4593	888	4226	799
15	23342	5325	21008	4770	18674	4215	16340	3661	14005	3106	11671	2552	9337	1997	7003	1442	4668	888	4295	799
16	23717	5325	21345	4770	18973	4215	16602	3661	14230	3106	11858	2552	9487	1997	7115	1442	4743	888	4364	799
17	24090	5325	21681	4770	19272	4215	16863	3661	14454	3106	12045	2552	9636	1997	7227	1442	4818	888	4432	799
18	24460	5325	22014	4770	19568	4215	17122	3661	14676	3106	12230	2552	9784	1997	7338	1442	4892	888	4501	799
19	24830	5325	22347	4770	19864	4215	17381	3661	14898	3106	12415	2552	9932	1997	7449	1442	4966	888	4569	799
20	25197	5325	22678	4770	20158	4215	17638	3661	15118	3106	12599	2552	10079	1997	7559	1442	5039	888	4636	799
21	25563	5325	23007	4770	20451	4215	17894	3661	15338	3106	12782	2552	10225	1997	7669	1442	5113	888	4704	799
22	25928	5325	23335	4770	20742	4215	18150	3661	15557	3106	12964	2552	10371	1997	7778	1442	5186	888	4771	799
23	26291	5325	23662	4770	21033	4215	18404	3661	15775	3106	13146	2552	10516	1997	7887	1442	5258	888	4838	799
24	26653	5325	23988	4770	21322	4215	18657	3661	15992	3106	13326	2552	10661	1997	7996	1442	5331	888	4904	799

Combination <Rated condition>

Indoor: RAV-HM1101BTP-E x 1, RAV-HM801BTP-E x 3, RAV-HM561BTP-E x 4
Outdoor: RAV-GM2243AT8(J)P-E

Operation range	Cooling		Heating	
	Q	P	Q	P
MINIMUM	W 4600	1300	4600	1250
Night operation 1	W 10000	2045	11200	2166

*When outside air temperature is 40°C or more, the night operation does not operate.

Cooling

Outdoor Temperature DB (°C)	Parts Load (%)																	
	100		90		80		70		60		50		40		30		20	
	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P
20	11925	1605	10733	1497	9540	1389	8348	1280	7155	1172	5963	1064	5486	1021	5486	1021	5486	1021
21	11797	1635	10617	1524	9437	1414	8258	1304	7078	1194	5898	1083	5426	1039	5426	1039	5426	1039
22	11668	1664	10502	1552	9335	1439	8168	1327	7001	1215	5834	1103	5367	1058	5367	1058	5367	1058
23	11540	1693	10386	1579	9232	1465	8078	1351	6924	1236	5770	1122	5308	1076	5308	1076	5308	1076
24	11412	1723	10271	1606	9129	1490	7988	1374	6847	1258	5706	1142	5249	1095	5249	1095	5249	1095
25	11283	1752	10155	1634	9027	1516	7898	1397	6770	1279	5642	1161	5190	1114	5190	1114	5190	1114
26	11155	1781	10040	1661	8924	1541	7809	1421	6693	1301	5578	1180	5131	1132	5131	1132	5131	1132
27	11027	1811	9924	1688	8821	1566	7719	1444	6616	1322	5513	1200	5072	1151	5072	1151	5072	1151
28	10898	1840	9809	1716	8719	1592	7629	1467	6539	1343	5449	1219	5013	1170	5013	1170	5013	1170
29	10770	1869	9693	1743	8616	1617	7539	1491	6462	1365	5385	1239	4954	1188	4954	1188	4954	1188
30	10642	1898	9578	1770	8513	1642	7449	1514	6385	1386	5321	1258	4895	1207	4895	1207	4895	1207
31	10513	1928	9462	1798	8411	1668	7359	1538	6308	1408	5257	1277	4836	1225	4836	1225	4836	1225
32	10385	1957	9347	1825	8308	1693	7270	1561	6231	1429	5193	1297	4777	1244	4777	1244	4777	1244
33	10257	1986	9231	1852	8205	1718	7180	1584	6154	1450	5128	1316	4718	1263	4718	1263	4718	1263
34	10128	2016	9116	1880	8103	1744	7090	1608	6077	1472	5064	1336	4659	1281	4659	1281	4659	1281
35	10000	2045	9000	1907	8000	1769	7000	1631	6000	1493	5000	1355	4600	1300	4600	1300	4600	1300
36	9872	2074	8885	1934	7897	1794	6910	1654	5923	1515	4936	1375	4541	1319	4541	1319	4541	1319
37	9743	2104	8769	1962	7795	1820	6820	1678	5846	1536	4872	1394	4482	1337	4482	1337	4482	1337
38	9615	2133	8654	1989	7692	1845	6731	1701	5769	1557	4808	1413	4423	1356	4423	1356	4423	1356
39	9216	2008	8294	1872	7373	1737	6451	1601	5529	1466	4608	1330	4239	1276	4239	1276	4239	1276
40*	18072	6764	16265	6052	14458	5339	12650	4626	10843	3913	9036	3201	7229	2488	5422	1775	4157	1276
41*	17713	6764	15941	6052	14170	5339	12399	4626	10628	3913	8856	3201	7085	2488	5314	1775	4074	1276
42*	17353	6764	15618	6052	13883	5339	12147	4626	10412	3913	8677	3201	6941	2488	5206	1775	3991	1276
43*	16994	6764	15294	6052	13595	5339	11896	4626	10196	3913	8497	3201	6797	2488	5098	1775	3909	1276
44*	15070	5261	13563	4707	12056	4152	10549	3598	9042	3044	7535	2489	6028	1935	4521	1381	3466	993
45*	14711	5261	13240	4707	11768	4152	10297	3598	8826	3044	7355	2489	5884	1935	4413	1381	3383	993
46*	14351	5261	12916	4707	11481	4152	10046	3598	8611	3044	7176	2489	5740	1935	4305	1381	3301	993

Heating

Outdoor Temperature DB (°C)	Parts Load (%)																			
	100		90		80		70		60		50		40		30		20		10	
	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P
-27	3034	871	2731	809	2428	746	2124	684	1821	621	1517	559	1246	503	1246	503	1246	503	1246	503
-26	3222	908	2900	843	2578	778	2255	712	1933	647	1611	582	1323	524	1323	524	1323	524	1323	524
-25	3410	945	3069	877	2728	809	2387	741	2046	673	1705	606	1400	545	1400	545	1400	545	1400	545
-24	3597	981	3238	911	2878	840	2518	770	2158	700	1799	629	1477	566	1477	566	1477	566	1477	566
-23	3785	1018	3406	945	3028	872	2649	799	2271	726	1892	653	1555	587	1555	587	1555	587	1555	587
-22	3973	1055	3575	979	3178	903	2781	828	2384	752	1986	676	1632	609	1632	609	1632	609	1632	609
-21	4160	1091	3744	1013	3328	935	2912	856	2496	778	2080	700	1709	630	1709	630	1709	630	1709	630
-20	4348	1128	3913	1047	3478	966	3043	885	2609	804	2174	723	1786	651	1786	651	1786	651	1786	651
-19	4547	1160	4092	1076	3638	993	3183	910	2728	827	2274	744	1868	669	1868	669	1868	669	1868	669
-18	4746	1191	4272	1106	3797	1020	3322	935	2848	849	2373	764	1949	687	1949	687	1949	687	1949	687
-17	4946	1223	4451	1135	3957	1047	3462	960	2967	872	2473	784	2031	706	2031	706	2031	706	2031	706
-16	5145	1255	4630	1165	4116	1075	3601	985	3087	894	2572	804	2113	724	2113	724	2113	724	2113	724
-15	5344	1286	4810	1194	4275	1102	3741	1009	3207	917	2672	825	2195	742	2195	742	2195	742	2195	742
-14	5497	1326	4947	1230	4398	1135	3848	1040	3298	945	2749	850	2258	765	2258	765	2258	765	2258	765
-13	5650	1365	5085	1267	4520	1169	3955	1071	3390	973	2825	875	2320	788	2320	788	2320	788	2320	788
-12	5803	1404	5222	1303	4642	1202	4062	1102	3482	1001	2901	900	2383	810	2383	810	2383	810	2383	810
-11	5956	1443	5360	1340	4764	1236	4169	1132	3573	1029	2978	925	2446	833	2446	833	2446	833	2446	833
-10	6108	1482	5498	1376	4887	1270	4276	1163	3665	1057	3054	950	2509	855	2509	855	2509	855	2509	855
-9	6261	1522	5635	1412	5009	1303	4383	1194	3757	1085	3131	976	2572	878	2572	878	2572	878	2572	878
-8	6414	1561	5773	1449	5131	1337	4490	1225	3849	1113	3207	1001	2634	901	2634	901	2634	901	2634	901
-7	6567	1600	5910	1485	5254	1370	4597	1256	3940	1141	3284	1026	2697	923	2697	923	2697	923	2697	923
-6	6739	1635	6065	1518	5391	1400	4717	1283	4043	1166	3370	1048	2768	944	2768	944	2768	944	2768	944
-5	6911	1670	6220	1551	5529	1431	4838	1311	4147	1191	3456	1071	2839	964	2839	964	2839	964	2839	964
-4	7083	1706	6375	1583	5667	1461	4958	1338	4250	1216	3542	1094	2909	984	2909	984	2909	984	2909	984
-3	7255	1741	6530	1616	5804	1491	5079	1366	4353	1241	3628	1116	2980	1005	2980	1005	2980	1005	2980	1005
-2	7428	1776	6685	1649	5942	1521	5199	1394	4457	1266	3714	1139	3051	1025	3051	1025	3051	1025	3051	1025
-1	7600	1811	6840	1681	6080	1551	5320	1421	4560	1291	3800	1161	3121	1045	3121	1045	3121	1045	3121	1045
0	7772	1846	6995	1714	6217	1581	5440	1449	4663	1316	3886	1184	3192	1066	3192	1066	3192	1066	3192	1066
1	7944	1882	7149	1747	6355	1612	5561	1477	4766	1341	3972	1206	3263	1086	3263	1086	3263	1086	3263	1086
2	8116	1917	7304	1779	6493	1642	5681	1504	4870	1367	4058	1229	3333	1106	3333	1106	3333	1106	3333	1106
3	8249	1943	7424	1803	6599	1664	5774	1524	4949	1385	4124	1246	3388	1121	3388	1121	3388	1121	3388	1121
4	8382	1968	7544	1827	6705	1686	5867	1545	5029	1403	4191	1262	3443	1136	3443	1136	3443	1136	3443	1136
5	8515	1994	7663	1851	6812	1708	5960	1565	5109	1422	4257	1279	3497	1151	3497	1151	3497	1151	3497	1151
6	10911	2132	9820	1979	8729	1826	7638	1673	6547	1520	5455	1367	4481	1231	4481	1231	4481	1231	4481	1231
7	11200	2166	10080	2011	8960	1855	7840	1700	6720	1544	5600	1389	4600	1250	4600	1250	4600	1250	4600	1250
8	11489	2200	10340	2042	9191	1884	8042	1726	6893	1568	5745	1410	4719	1269	4719	1269	4719	1269	4719	1269
9	11778	2233	10600	2073	9422	1913	8245	1752	7067	1592	5889	1432	4837	1289	4837	1289	4837	1289	4837	1289
10	12067	2267	10860	2104	9654	1941	8447	1779	7240	1616	6034	1453	4956	1308	4956	1308	4956	1308	4956	1308
11	12356	2300	11121	2135	9885	1970	8649	1805	7414	1640	6178	1475	5075	1327	5075	1327	5075	1327	5075	1327
12	12645	2334	11381	2166	10116	1999	8852	1831	7587	1664	6323	1496	5194	1347	5194	1347	5194	1347	5194	1347
13	12934	2367	11641	2197	10347	2027	9054	1858	7761	1688	6467	1518	5312	1366	5312	1366	5312	1366	5312	1366
14	13223	2401	11901	2228	10579	2056	9256	1884	7934	1712	6612	1539	5431	1385	5431	1385	5431	1385	5431	1385
15	13512	2434	12161	2260	10810	2085	9459	1910	8107	1736	6756	1561	5550	1405	5550	1405	5550	1405	5550	1405
16	13801	2468	12421	2291	11041	2114	9661	1937	8281	1759	6901	1582	5668	1424	5668	1424	5668	1424	5668	1424
17	14090	2501	12681	2322	11272	2142	9863	1963	8454	1783	7045	1604	5787	1444	5787	1444	5787	1444	5787	1444
18	14379	2535	12941	2353	11503	2171	10066	1989	8628	1807	7190	1625	5906	1463	5906	1463	5906	1463	5906	1463
19	14668	2568	13202	2384	11735	2200	10268	2015	8801	1831	7334	1647	6025	1482	6025	1482	6025	1482	6025	1482
20	14957	2602	13462	2415	11966	2229	10470	2042	8974	1855	7479	1668	6143	1502	6143	1502	6143	1502	6143	1502
21	15246	2636	13722	2446	12197	2257	10673	2068	9148	1879	7623	1690	6262	1521	6262	1521	6262	1521	6262	1521
22	15535	2669	13982	2478	12428	2286	10875	2094	9321	1903	7768	1711	6381	1540	6381	1540	6381	1540	6381	1540
23	15825	2703	14242	2509	12660	2315	11077	2121	9495	1927	7912	1733	6499	1560	6499	1560	6499	1560	6499	1560
24	16114	2736	14502	2540	12891	2343	11279	2147	9668	1951	8057	1754	6618	1579	6618	1579	6618	1579	6618	1579

Combination <Rated condition>

Indoor: RAV-HM1101BTP-E x 1, RAV-HM801BTP-E x 3, RAV-HM561BTP-E x 4
Outdoor: RAV-GM2243AT8(J)P-E

Operation range	Cooling		Heating	
	Q	P	Q	P
MINIMUM	W 4600	1300	4600	1250
Night operation 2	W 14000	3063	15680	3559

*When outside air temperature is 40°C or more, the night operation does not operate.

Outdoor Temperature DB (°C)	Parts Load (%)															
	100		90		80		70		60		50		40		30	
	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P
20	16695	2404	15026	2198	13356	1992	11687	1786	10017	1580	8348	1374	6678	1168	5486	1021
21	16515	2448	14864	2238	13212	2029	11561	1819	9909	1609	8258	1399	6606	1189	5426	1039
22	16336	2492	14702	2279	13069	2065	11435	1851	9801	1638	8168	1424	6534	1210	5367	1058
23	16156	2536	14540	2319	12925	2101	11309	1884	9694	1667	8078	1449	6462	1232	5308	1076
24	15976	2580	14379	2359	12781	2138	11183	1917	9586	1695	7988	1474	6391	1253	5249	1095
25	15797	2624	14217	2399	12637	2174	11058	1949	9478	1724	7898	1499	6319	1274	5190	1114
26	15617	2668	14055	2439	12494	2210	10932	1982	9370	1753	7809	1524	6247	1296	5131	1132
27	15437	2712	13894	2479	12350	2247	10806	2014	9262	1782	7719	1549	6175	1317	5072	1151
28	15258	2756	13732	2519	12206	2283	10680	2047	9155	1811	7629	1575	6103	1338	5013	1170
29	15078	2800	13570	2560	12062	2320	10555	2080	9047	1840	7539	1600	6031	1360	4954	1188
30	14898	2843	13409	2600	11919	2356	10429	2112	8939	1868	7449	1625	5959	1381	4895	1207
31	14719	2887	13247	2640	11775	2392	10303	2145	8831	1897	7359	1650	5887	1402	4836	1225
32	14539	2931	13085	2680	11631	2429	10177	2177	8723	1926	7270	1675	5816	1424	4777	1244
33	14359	2975	12923	2720	11487	2465	10052	2210	8616	1955	7180	1700	5744	1445	4718	1263
34	14180	3019	12762	2760	11344	2501	9926	2243	8508	1984	7090	1725	5672	1466	4659	1281
35	14000	3063	12600	2800	11200	2538	9800	2275	8400	2013	7000	1750	5600	1488	4600	1300
36	13820	3107	12438	2841	11056	2574	9674	2308	8292	2042	6910	1775	5528	1509	4541	1319
37	13641	3151	12277	2881	10913	2611	9548	2341	8184	2070	6820	1800	5456	1530	4482	1337
38	13461	3195	12115	2921	10769	2647	9423	2373	8077	2099	6731	1825	5384	1552	4423	1356
39	12902	3007	11612	2749	10322	2492	9031	2234	7741	1976	6451	1718	5161	1460	4239	1276
40*	18072	6764	16265	6052	14458	5339	12650	4626	10843	3913	9036	3201	7229	2488	5422	1775
41*	17713	6764	15941	6052	14170	5339	12399	4626	10628	3913	8856	3201	7085	2488	5314	1775
42*	17353	6764	15618	6052	13883	5339	12147	4626	10412	3913	8677	3201	6941	2488	5206	1775
43*	16994	6764	15294	6052	13595	5339	11896	4626	10196	3913	8497	3201	6797	2488	5098	1775
44*	15070	5261	13563	4707	12056	4152	10549	3598	9042	3044	7535	2489	6028	1935	4521	1381
45*	14711	5261	13240	4707	11768	4152	10297	3598	8826	3044	7355	2489	5884	1935	4413	1381
46*	14351	5261	12916	4707	11481	4152	10046	3598	8611	3044	7176	2489	5740	1935	4305	1381

Heating		Parts Load (%)																		
Outdoor Temperature DB (°C)	100		90		80		70		60		50		40		30		20		10	
	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P
-27	4248	1431	3823	1300	3399	1169	2974	1037	2549	906	2124	774	1699	643	1274	511	1246	503	1246	503
-26	4511	1492	4060	1355	3609	1218	3158	1081	2707	944	2255	807	1804	670	1353	533	1323	524	1323	524
-25	4774	1552	4296	1409	3819	1267	3341	1124	2864	982	2387	840	1909	697	1432	555	1400	545	1400	545
-24	5036	1612	4533	1464	4029	1316	3525	1168	3022	1020	2518	872	2014	724	1511	576	1477	566	1477	566
-23	5299	1672	4769	1519	4239	1365	3709	1212	3179	1058	2649	905	2120	751	1590	598	1555	587	1555	587
-22	5562	1733	5005	1574	4449	1415	3893	1255	3337	1096	2781	937	2225	778	1668	619	1632	609	1632	609
-21	5824	1793	5242	1628	4659	1464	4077	1299	3495	1135	2912	970	2330	805	1747	641	1709	630	1709	630
-20	6087	1853	5478	1683	4870	1513	4261	1343	3652	1173	3043	1003	2435	832	1826	662	1786	651	1786	651
-19	6366	1905	5729	1730	5093	1555	4456	1381	3820	1206	3183	1031	2546	856	1910	681	1868	669	1868	669
-18	6645	1957	5980	1778	5316	1598	4651	1418	3987	1239	3322	1059	2658	879	1993	699	1949	687	1949	687
-17	6924	2009	6232	1825	5539	1640	4847	1456	4154	1271	3462	1087	2770	903	2077	718	2031	706	2031	706
-16	7203	2062	6483	1872	5762	1683	5042	1494	4322	1304	3601	1115	2881	926	2161	737	2113	724	2113	724
-15	7482	2114	6734	1920	5986	1725	5237	1531	4489	1337	3741	1143	2993	949	2245	755	2195	742	2195	742
-14	7696	2178	6926	1978	6157	1778	5387	1578	4618	1378	3848	1178	3078	978	2309	778	2258	765	2258	765
-13	7910	2242	7119	2037	6328	1831	5537	1625	4746	1419	3955	1213	3164	1007	2373	801	2320	788	2320	788
-12	8124	2307	7311	2095	6499	1883	5687	1671	4874	1460	4062	1248	3250	1036	2437	824	2383	810	2383	810
-11	8338	2371	7504	2154	6670	1936	5837	1718	5003	1500	4169	1283	3335	1065	2501	847	2446	833	2446	833
-10	8552	2436	7697	2212	6841	1988	5986	1765	5131	1541	4276	1318	3421	1094	2566	870	2509	855	2509	855
-9	8766	2500	7889	2271	7013	2041	6136	1811	5260	1582	4383	1352	3506	1123	2630	893	2572	878	2572	878
-8	8980	2565	8082	2329	7184	2094	6286	1858	5388	1623	4490	1387	3592	1152	2694	916	2634	901	2634	901
-7	9194	2629	8274	2388	7355	2146	6436	1905	5516	1663	4597	1422	3678	1181	2758	939	2697	923	2697	923
-6	9435	2687	8491	2440	7548	2193	6604	1947	5661	1700	4717	1453	3774	1207	2830	960	2768	944	2768	944
-5	9676	2745	8708	2493	7741	2241	6773	1989	5805	1737	4838	1485	3870	1233	2903	981	2839	964	2839	964
-4	9917	2802	8925	2545	7933	2288	6942	2031	5950	1773	4958	1516	3967	1259	2975	1001	2909	984	2909	984
-3	10158	2860	9142	2598	8126	2335	7110	2072	6095	1810	5079	1547	4063	1285	3047	1022	2980	1005	2980	1005
-2	10399	2918	9359	2650	8319	2382	7279	2114	6239	1846	5199	1579	4159	1311	3120	1043	3051	1025	3051	1025
-1	10639	2976	9576	2703	8512	2430	7448	2156	6384	1883	5320	1610	4256	1337	3192	1063	3121	1045	3121	1045
0	10880	3034	9792	2755	8704	2477	7616	2198	6528	1920	5440	1641	4352	1363	3264	1084	3142	1066	3192	1066
1	11121	3092	10009	2808	8897	2524	7785	2240	6673	1956	5561	1672	4449	1389	3336	1105	3263	1086	3263	1086
2	11362	3150	10226	2860	9090	2571	7954	2282	6817	1993	5681	1704	4545	1415	3409	1125	3333	1106	3333	1106
3	11548	3192	10394	2899	9239	2606	8084	2313	6929	2020	5774	1727	4619	1434	3465	1141	3388	1121	3388	1121
4	11735	3234	10561	2937	9388	2640	8214	2343	7041	2046	5867	1750	4694	1453	3520	1156	3443	1136	3443	1136
5	11921	3277	10729	2976	9537	2675	8344	2374	7152	2073	5960	1772	4768	1472	3576	1171	3497	1151	3497	1151
6	15275	3504	13748	3182	12220	2860	10693	2539	9165	2217	7638	1895	6110	1574	4583	1252	4481	1231	4481	1231
7	15680	3559	14112	3232	12544	2905	10976	2579	9408	2252	7840	1925	6272	1598	4704	1272	4600	1250	4600	1250
8	16085	3614	14476	3282	12868	2950	11259	2619	9651	2287	8042	1955	6434	1623	4825	1291	4719	1269	4719	1269
9	16489	3669	14840	3332	13191	2995	11543	2659	9894	2322	8245	1985	6596	1648	4947	1311	4837	1289	4837	1289
10	16894	3724	15205	3382	13515	3040	11826	2699	10136	2357	8447	2015	6758	1673	5068	1331	4956	1308	4956	1308
11	17299	3779	15569	3432	13839	3085	12109	2738	10379	2391	8649	2044	6919	1697	5190	1350	5075	1327	5075	1327
12	17703	3835	15933	3482	14163	3130	12392	2778	10622	2426	8852	2074	7081	1722	5311	1370	5194	1347	5194	1347
13	18108	3890	16297	3533	14486	3175	12676	2818	10865	2461	9054	2104	7243	1747	5432	1390	5312	1366	5312	1366
14	18513	3945	16661	3583	14810	3220	12959	2858	11108	2496	9256	2134	7405	1772	5554	1410	5431	1385	5431	1385
15	18917	4000	17025	3633	15134	3265	13242	2898	11350	2531	9459	2164	7567	1796	5675	1429	5550	1405	5550	1405
16	19322	4055	17390	3683	15457	3310	13525	2938	11593	2566	9661	2193	7729	1821	5797	1449	5668	1424	5668	1424
17	19726	4110	17754	3733	15781	3355	13809	2978	11836	2601	9863	2223	7891	1846	5918	1469	5787	1444	5787	1444
18	20131	4165	18118	3783	16105	3400	14092	3018	12079	2636	10066	2253	8052	1871	6039	1489	5906	1463	5906	1463
19	20536	4220	18482	3833	16429	3445	14375	3058	12321	2670	10268	2283	8214	1895	6161	1508	6025	1482	6025	1482
20	20940	4275	18846	3883	16752	3490	14658	3098	12564	2705	10470	2313	8376	1920	6282	1528	6143	1502	6143	1502
21	21345	4330	19211	3933	17076	3535	14942	3138	12807	2740	10673	2343	8538	1945	6404	1547	6262	1521	6262	1521
22	21750	4386	19575	3983	17400	3580	15225	3178	13050	2775	10875	2372	8700	1970	6525	1567	6381	1540	6381	1540
23	22154	4441	19939	4033	17723	3625	15508	3218	13293	2810	11077	2402	8862	1994	6646	1587	6499	1560	6499	1560
24	22559	4496	20303	4083	18047	3670	15791	3258	13535	2845	11279	2432	9024	2019	6768	1606	6618	1579	6618	1579

Combination <Rated condition>

Indoor: RAV-HM1101BTP-E x 1, RAV-HM801BTP-E x 3, RAV-HM561BTP-E x 4
Outdoor: RAV-GM2243AT8(J)P-E

Operation range	Cooling		Heating	
	Q	P	Q	P
MINIMUM	W 4600	1300	4600	1250
Night operation 3	W 18000	4851	20160	5237

*When outside air temperature is 40°C or more, the night operation does not operate.

Cooling

Outdoor Temperature DB (°C)	Parts Load (%)															
	100		90		80		70		60		50		40		30	
	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P
20	21465	3808	19319	3434	17172	3059	15026	2685	12879	2310	10733	1936	8586	1561	6440	1187
21	21234	3878	19111	3496	16987	3115	14864	2734	12740	2352	10617	1971	8494	1590	6370	1209
22	21003	3947	18903	3559	16802	3171	14702	2783	12602	2395	10502	2007	8401	1618	6301	1230
23	20772	4017	18695	3622	16618	3227	14540	2832	12463	2437	10386	2042	8309	1647	6232	1252
24	20541	4086	18487	3684	16433	3283	14379	2881	12325	2479	10271	2077	8216	1675	6162	1274
25	20310	4156	18279	3747	16248	3338	14217	2930	12186	2521	10155	2113	8124	1704	6093	1295
26	20079	4225	18071	3810	16063	3394	14055	2979	12047	2563	10040	2148	8032	1732	6024	1317
27	19848	4295	17863	3872	15878	3450	13894	3028	11909	2606	9924	2183	7939	1761	5954	1339
28	19617	4364	17655	3935	15694	3506	13732	3077	11770	2648	9809	2219	7847	1789	5885	1360
29	19386	4434	17447	3998	15509	3562	13570	3126	11632	2690	9693	2254	7754	1818	5816	1382
30	19155	4503	17240	4061	15324	3618	13409	3175	11493	2732	9578	2289	7662	1846	5747	1404
31	18924	4573	17032	4123	15139	3674	13247	3224	11354	2774	9462	2325	7570	1875	5677	1425
32	18693	4642	16824	4186	14954	3729	13085	3273	11216	2816	9347	2360	7477	1903	5608	1447
33	18462	4712	16616	4249	14770	3785	12923	3322	11077	2859	9231	2395	7385	1932	5539	1469
34	18231	4781	16408	4311	14585	3841	12762	3371	10939	2901	9116	2431	7292	1960	5469	1490
35	18000	4851	16200	4374	14400	3897	12600	3420	10800	2943	9000	2466	7200	1989	5400	1512
36	17769	4921	15992	4437	14215	3953	12438	3469	10661	2985	8885	2501	7108	2018	5331	1534
37	17538	4990	15784	4499	14030	4009	12277	3518	10523	3027	8769	2537	7015	2046	5261	1555
38	17307	5060	15576	4562	13846	4065	12115	3567	10384	3070	8654	2572	6923	2075	5192	1577
39	16588	4763	14929	4294	13271	3826	11612	3358	9953	2889	8294	2421	6635	1953	4976	1484
40*	18072	6764	16265	6052	14458	5339	12650	4626	10843	3913	9036	3201	7229	2488	5422	1775
41*	17713	6764	15941	6052	14170	5339	12399	4626	10628	3913	8856	3201	7085	2488	5314	1775
42*	17353	6764	15618	6052	13883	5339	12147	4626	10412	3913	8677	3201	6941	2488	5206	1775
43*	16994	6764	15294	6052	13595	5339	11896	4626	10196	3913	8497	3201	6797	2488	5098	1775
44*	15070	5261	13563	4707	12056	4152	10549	3598	9042	3044	7535	2489	6028	1935	4521	1381
45*	14711	5261	13240	4707	11768	4152	10297	3598	8826	3044	7355	2489	5884	1935	4413	1381
46*	14351	5261	12916	4707	11481	4152	10046	3598	8611	3044	7176	2489	5740	1935	4305	1381

Heating

Outdoor Temperature DB (°C)	Parts Load (%)																			
	100		90		80		70		60		50		40		30		20		10	
	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P		
-27	5462	2106	4916	1899	4370	1691	3823	1483	3277	1275	2731	1068	2185	860	1639	652	1246	503	1246	503
-26	5800	2195	5220	1978	4640	1762	4060	1545	3480	1329	2900	1112	2320	896	1740	679	1323	524	1323	524
-25	6137	2284	5524	2058	4910	1833	4296	1608	3682	1383	3069	1157	2455	932	1841	707	1400	545	1400	545
-24	6475	2372	5828	2138	5180	1904	4533	1670	3885	1436	3238	1202	2590	968	1943	734	1477	566	1477	566
-23	6813	2461	6132	2218	5450	1976	4769	1733	4088	1494	3406	1247	2725	1005	2044	762	1555	587	1555	587
-22	7151	2550	6436	2298	5720	2047	5005	1795	4290	1544	3575	1292	2860	1041	2145	789	1632	609	1632	609
-21	7488	2638	6740	2378	5991	2118	5242	1858	4493	1597	3744	1337	2995	1077	2247	817	1709	630	1709	630
-20	7826	2727	7043	2458	6261	2189	5478	1920	4696	1651	3913	1382	3130	1113	2348	844	1786	651	1786	651
-19	8185	2804	7366	2527	6548	2251	5729	1974	4911	1697	4092	1421	3274	1144	2455	868	1868	669	1868	669
-18	8543	2880	7689	2596	6835	2312	5980	2028	5126	1744	4272	1460	3417	1176	2563	892	1949	687	1949	687
-17	8902	2957	8012	2665	7122	2374	6232	2082	5341	1790	4451	1499	3561	1207	2671	915	2031	706	2031	706
-16	9261	3033	8335	2734	7409	2435	6483	2136	5557	1837	4630	1537	3704	1238	2778	939	2113	724	2113	724
-15	9620	3110	8658	2803	7696	2497	6734	2190	5772	1883	4810	1576	3848	1269	2886	963	2195	742	2195	742
-14	9895	3205	8905	2889	7916	2573	6926	2257	5937	1940	4947	1624	3958	1308	2968	992	2258	765	2258	765
-13	10170	3300	9153	2974	8136	2649	7119	2323	6102	1998	5085	1672	4068	1347	3051	1021	2320	788	2320	788
-12	10445	3394	9400	3060	8356	2725	7311	2390	6267	2055	5222	1720	4178	1386	3133	1051	2383	810	2383	810
-11	10720	3489	9648	3145	8576	2801	7504	2457	6432	2113	5360	1768	4288	1424	3216	1080	2446	833	2446	833
-10	10995	3584	9896	3231	8796	2877	7697	2524	6597	2170	5498	1816	4398	1463	3299	1109	2509	855	2509	855
-9	11270	3679	10143	3316	9016	2953	7889	2590	6762	2227	5635	1864	4508	1502	3381	1139	2572	878	2572	878
-8	11546	3774	10391	3401	9236	3029	8082	2657	6927	2285	5773	1913	4618	1540	3464	1168	2634	901	2634	901
-7	11821	3868	10639	3487	9457	3105	8274	2724	7092	2342	5910	1961	4728	1579	3546	1197	2697	923	2697	923
-6	12130	3954	10917	3564	9704	3174	8491	2784	7278	2394	6065	2004	4852	1614	3639	1224	2768	944	2768	944
-5	12440	4039	11196	3640	9952	3242	8708	2844	7464	2445	6220	2047	4976	1648	3732	1250	2839	964	2839	964
-4	12750	4124	11475	3717	10200	3310	8925	2904	7650	2497	6375	2090	5100	1683	3825	1276	2909	984	2909	984
-3	13060	4209	11754	3794	10448	3379	9142	2963	7836	2548	6530	2133	5224	1718	3918	1303	2980	1005	2980	1005
-2	13370	4294	12033	3870	10696	3447	9359	3023	8022	2600	6685	2176	5348	1753	4011	1329	3051	1025	3051	1025
-1	13679	4379	12311	3947	10943	3515	9576	3083	8208	2651	6840	2219	5472	1787	4104	1355	3121	1045	3121	1045
0	13989	4464	12590	4024	11191	3584	9792	3143	8393	2703	6995	2263	5596	1822	4197	1382	3192	1066	3192	1066
1	14299	4549	12869	4101	11439	3652	10009	3203	8579	2754	7149	2306	5720	1857	4290	1408	3263	1086	3263	1086
2	14609	4635	13148	4177	11687	3720	10226	3263	8765	2806	7304	2349	5843	1892	4383	1435	3333	1106	3333	1106
3	14848	4697	13363	4234	11878	3770	10394	3307	8909	2844	7424	2380	5939	1917	4454	1454	3388	1121	3388	1121
4	15087	4759	13579	4290	12070	3820	10561	3351	9052	2881	7544	2412	6035	1943	4526	1473	3443	1136	3443	1136
5	15327	4821	13794	4346	12261	3870	10729	3395	9196	2919	7663	2444	6131	1968	4598	1492	3497	1151	3497	1151
6	15640	4916	14076	4427	12512	3939	10998	3468	9394	2988	7802	2487	6236	1998	4681	1521	3548	1166	3548	1166
7	20160	5237	18144	4720	16128	4204	14112	3687	12096	3171	10080	2654	8064	2138	6048	1621	4600	1250	4600	1250
8	20680	5318	18612	4794	16544	4269	14476	3744	12408	3220	10340	2695	8272	2171	6204	1646	4719	1269	4719	1269
9	21201	5399	19080	4867	16960	4334	14840	3801	12720	3269	10600	2736	8480	2204	6360	1671	4837	1289	4837	1289
10	21721	5480	19549	4940	17377	4399	15205	3859	13032	3318	10860	2777	8688	2237	6516	1696	4956	1308	4956	1308
11	22241	5561	20017	5013	17793	4464	15569	3916	13345	3367	11121	2819	8896	2270	6672	1721	5075	1327	5075	1327
12	22761	5642	20485	5086	18209	4529	15933	3973	13657	3416	11381	2860	9105	2303	6828	1747	5194	1347	5194	1347
13	23282	5724	20953	5159	18625	4594	16297	4030	13969	3465	11641	2901	9313	2336	6984	1772	5312	1366	5312	1366
14	23802	5805	21422	5232	19041	4660	16661	4087	14281	3514	11901	2942	9521	2369	7141	1797	5431	1385	5431	1385
15	24322	5886	21890	5305	19458	4725	17025	4144	14593	3563	12161	2983	9729	2402	7297	1822	5550	1405	5550	1405
16	24842	5967	22358	5378	19874	4790	17390	4201	14905	3613	12421	3024	9937	2435	7453	1847	5668	1424	5668	1424
17	25363	6048	22826	5451	20290	4855	17754	4258	15218	3662	12681	3065	10145	2469	7609	1872	5787	1444	5787	1444
18	25883	6129	23295	5524	20706	4920	18118	4315	15530	3711	12941	3106	10353	2502	7765	1897	5906	1463	5906	1463
19	26403	6210	23763	5598	21122	4985	18482	4372	15842	3760	13202	3147	10561	2535	7921	1922	6025	1482	6025	1482
20	26923	6291	24231	5671	21539	5050	18846	4430	16154	3809	13462	3188	10769	2568	8077	1947	6143	1502	6143	1502
21	27444	6372	24699	5744	21955	5115	19211	4487	16466	3858	13722	3230	10977	2601	8233	1972	6262	1521	6262	1521
22	27964	6453	25167	5817	22371	5180	19575	4544	16778	3907	13982	3271	11186	2634	8389	1998	6381	1540	6381	1540
23	28484	6534	25636	5890	22787	5245	19939	4601	17090	3956	14242	3312	11394	2667	8545	2023	6499	1560	6499	1560
24	29004	6616	26104	5963	23204	5310	20303	4658	17403	4005	14502	3353	11602	2700	8701	2048	6618	1579	6618	1579

Combination <Rated condition>

Indoor: RAV-HM1401BTP-E x 1, RAV-HM801BTP-E x 3, RAV-HM801BTP-E x 4
Outdoor: RAV-GM2803AT8(J)P-E

Operation range	Cooling		Heating	
	Q	P	Q	P
MINIMUM	W 4600	1330	4600	1280
RATING	W 23500	10550	24000	7560

Cooling

Outdoor Temperature DB (°C)	Parts Load (%)																			
	100		90		80		70		60		50		40		30		20		10	
	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P
20	28024	8282	25221	7382	22419	6482	19617	5582	16814	4682	14012	3782	11210	2882	8407	1982	5605	1082	5486	1044
21	27722	8433	24950	7517	22178	6600	19406	5684	16633	4768	13861	3851	11089	2935	8317	2018	5544	1102	5426	1063
22	27421	8584	24679	7651	21936	6719	19194	5786	16452	4853	13710	3920	10968	2987	8226	2055	5484	1122	5367	1082
23	27119	8735	24407	7786	21695	6837	18983	5888	16271	4939	13560	3989	10848	3040	8136	2091	5424	1142	5308	1101
24	26817	8887	24136	7921	21454	6955	18772	5990	16090	5024	13409	4058	10727	3093	8045	2127	5363	1161	5249	1120
25	26516	9038	23864	8056	21213	7074	18561	6092	15910	5109	13258	4127	10606	3145	7955	2163	5303	1181	5190	1139
26	26214	9189	23593	8191	20971	7192	18350	6194	15729	5195	13107	4196	10486	3198	7864	2199	5243	1201	5131	1158
27	25913	9340	23321	8325	20730	7310	18139	6295	15548	5280	12956	4266	10365	3251	7774	2236	5183	1221	5072	1177
28	25611	9491	23050	8460	20489	7429	17928	6397	15367	5366	12806	4335	10244	3303	7683	2272	5122	1240	5013	1197
29	25310	9643	22779	8595	20248	7547	17717	6499	15186	5451	12655	4404	10124	3356	7593	2308	5062	1260	4954	1216
30	25008	9794	22507	8730	20006	7665	17506	6601	15005	5537	12504	4473	10003	3408	7502	2344	5002	1280	4895	1235
31	24706	9945	22236	8864	19765	7784	17294	6703	14824	5622	12353	4542	9883	3461	7412	2380	4941	1300	4836	1254
32	24405	10096	21964	8999	19524	7902	17083	6805	14643	5708	12202	4611	9762	3514	7321	2417	4881	1319	4777	1273
33	24103	10248	21693	9134	19283	8020	16872	6907	14462	5793	12052	4680	9641	3566	7231	2453	4821	1339	4718	1292
34	23802	10399	21421	9269	19041	8139	16661	7009	14281	5879	11901	4749	9521	3619	7140	2489	4760	1359	4659	1311
35	23500	10550	21150	9404	18800	8257	16450	7111	14100	5964	11750	4818	9400	3672	7050	2525	4700	1379	4600	1330
36	23198	10701	20879	9538	18559	8376	16239	7213	13919	6050	11599	4887	9279	3724	6960	2561	4640	1399	4541	1349
37	22897	10852	20607	9673	18317	8494	16028	7315	13738	6135	11448	4956	9159	3777	6869	2598	4579	1418	4482	1368
38	22595	11004	20336	9808	18076	8612	15817	7417	13557	6221	11298	5025	9038	3829	6779	2634	4519	1438	4423	1387
39	19405	7559	17464	6738	15524	5916	13583	5095	11643	4274	9702	3452	7762	2631	5821	1809	3881	988	3798	953
40	18982	7559	17084	6738	15186	5916	13287	5095	11389	4274	9491	3452	7593	2631	5695	1809	3796	988	3716	953
41	18559	7559	16703	6738	14847	5916	12991	5095	11135	4274	9279	3452	7424	2631	5568	1809	3712	988	3633	953
42	18136	7559	16322	6738	14509	5916	12695	5095	10881	4274	9068	3452	7254	2631	5441	1809	3627	988	3550	953
43	17713	7559	15941	6738	14170	5916	12399	5095	10628	4274	8856	3452	7085	2631	5314	1809	3543	988	3467	953
44	15940	5879	14346	6241	12752	4602	11158	3963	9564	3324	7970	2685	6376	2046	4782	1407	3188	768	3120	741
45	15517	5879	13965	6241	12414	4602	10862	3963	9310	3324	7759	2685	6207	2046	4655	1407	3103	768	3037	741
46	15094	5879	13585	6241	12075	4602	10566	3963	9056	3324	7547	2685	6038	2046	4528	1407	3019	768	2955	741

Heating

Outdoor Temperature DB (°C)	Parts Load (%)																			
	100		90		80		70		60		50		40		30		20		10	
	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P
-27	6522	2765	5870	2480	5217	2196	4565	1912	3913	1628	3261	1344	2609	1060	1957	776	1304	492	1250	468
-26	6988	2932	6289	2631	5590	2329	4891	2028	4193	1727	3494	1425	2795	1124	2096	823	1398	522	1339	496
-25	7453	3099	6708	2781	5963	2462	5217	2144	4472	1825	3727	1507	2981	1188	2236	870	1491	551	1429	525
-24	7919	3267	7127	2931	6335	2595	5543	2260	4752	1924	3960	1588	3168	1253	2376	917	1584	581	1518	553
-23	8385	3434	7547	3081	6708	2729	5870	2376	5031	2023	4193	1670	3354	1317	2516	964	1677	611	1607	581
-22	8851	3602	7966	3232	7081	2862	6196	2491	5311	2121	4425	1751	3540	1381	2655	1011	1770	641	1696	610
-21	9317	3769	8385	3382	7453	2995	6522	2607	5590	2220	4658	1833	3727	1445	2795	1058	1863	670	1786	638
-20	9783	3937	8804	3532	7826	3128	6848	2723	5870	2319	4891	1914	3913	1509	2935	1105	1957	700	1875	667
-19	10109	4047	9098	3631	8087	3215	7076	2800	6065	2384	5054	1968	4043	1552	3033	1136	2022	720	1938	685
-18	10435	4158	9391	3731	8348	3303	7304	2876	6261	2449	5217	2021	4174	1594	3130	1167	2087	740	2000	704
-17	10761	4268	9685	3830	8609	3391	7533	2953	6457	2514	5380	2075	4304	1637	3228	1198	2152	759	2063	723
-16	11087	4379	9978	3929	8870	3479	7761	3029	6652	2579	5543	2129	4435	1679	3326	1229	2217	779	2125	741
-15	11413	4490	10272	4028	9130	3567	7989	3106	6848	2644	5707	2183	4565	1721	3424	1260	2283	799	2188	760
-14	11753	4627	10577	4151	9402	3676	8227	3200	7052	2725	5876	2249	4701	1774	3526	1298	2351	823	2253	783
-13	12092	4763	10883	4274	9674	3784	8465	3295	7255	2805	6046	2316	4837	1826	3628	1337	2418	847	2318	806
-12	12432	4900	11189	4397	9946	3893	8702	3389	7459	2886	6216	2382	4973	1879	3730	1375	2486	872	2383	830
-11	12772	5037	11495	4519	10217	4002	8940	3484	7663	2967	6386	2449	5109	1931	3832	1414	2554	896	2448	853
-10	13111	5174	11800	4642	10489	4111	9178	3579	7867	3047	6556	2515	5245	1984	3933	1452	2622	920	2513	876
-9	13451	5311	12106	4765	10761	4219	9416	3673	8071	3128	6726	2582	5380	2036	4035	1490	2690	945	2578	899
-8	13791	5448	12412	4888	11033	4328	9654	3768	8274	3208	6895	2648	5516	2089	4137	1529	2758	969	2643	922
-7	14130	5584	12717	5011	11304	4437	9891	3863	8478	3289	7065	2715	5652	2141	4239	1567	2826	993	2708	946
-6	14493	5707	13043	5121	11594	4534	10145	3948	8696	3361	7246	2775	5797	2188	4348	1602	2899	1015	2778	966
-5	14855	5830	13370	5231	11884	4632	10399	4033	8913	3434	7428	2834	5942	2235	4457	1636	2971	1037	2847	987
-4	15217	5953	13696	5341	12174	4730	10652	4118	9130	3506	7609	2894	6087	2282	4565	1671	3043	1059	2917	1008
-3	15580	6076	14022	5452	12464	4827	10906	4203	9348	3578	7790	2954	6232	2330	4674	1705	3116	1081	2986	1029
-2	15942	6199	14348	5562	12754	4925	11159	4288	9565	3651	7971	3014	6377	2377	4783	1740	3188	1103	3056	1050
-1	16304	6322	14674	5672	13043	5022	11413	4373	9783	3723	8152	3073	6522	2424	4891	1774	3261	1124	3125	1070
0	16667	6445	15000	5782	13333	5120	11667	4458	10000	3795	8333	3133	6667	2471	5000	1809	3333	1146	3194	1091
1	17029	6567	15326	5892	13623	5218	11920	4543	10217	3868	8514	3193	6812	2518	5109	1843	3406	1168	3264	1112
2	17391	6690	15652	6003	13813	5315	12174	4628	10435	3940	8696	3253	6957	2565	5217	1878	3478	1190	3323	1133
3	17676	6780	15909	6083	14141	5387	12373	4690	10606	3993	8838	3296	7070	2600	5303	1903	3535	1206	3388	1148
4	17961	6870	16165	6164	14369	5458	12573	4752	10777	4046	8981	3340	7184	2634	5388	1928	3592	1222	3443	1163
5	18246	6960	16421	6245	14597	5530	12772	4814	10948	4099	9123	3384	7298	2669	5474	1953	3649	1238	3497	1178
6	23381	7443	17043	6678	18705	5913	16366	5148	14028	4383	11690	3619	9352	2854	7014	2089	4676	1324	4481	1260
7	24000	7560	21600	6783	19200	6006	16800	5229	14400	4452	12000	3675	9600	2899	7200	2122	4800	1345	4600	1280
8	24619	7677	22157	6886	19695	6099	17234	5310	14772	4521	12310	3732	9848	2943	7386	2155	4924	1366	4719	1300
9	25239	7794	22715	6993	20191	6192	17667	5391	15143	4590	12619	3789	10095	2988	7572	2187	5048	1386	4837	1320
10	25858	7911	23272	7098	20686	6285	18101	5472	15515	4659	12929	3846	10343	3033	7757	2220	5172	1407	4956	1339
11	26477	8028	23830	7203	21182	6378	18534	5553	15886	4728	13239	3903	10591	3078	7943	2253	5295	1428	5075	1359
12	27097	8145	24387	7308	21677	6471	18968	5634	16258	4797	13548	3960	10839	3123	8129	2286	5419	1449	5194	1379
13	27716	8262	24945	7413	22173	6564	19401	5715	16630	4866	13858	4017	11086	3168	8315	2319	5543	1470	5312	1399
14	28335	8379	25502	7518	22668	6657	19835	5796	17001	4935	14168	4074	11334	3213	8501	2352	5667	1490	5431	1419
15	28955	8496	26059	7623	23164	6750	20268	5877	17373	5004	14477	4131	11582	3258	8686	2384	5791	1511	5550	1439
16	29574	8614	26617	7728	23659	6843	20702	5958	17745	5073	14787	4188	11830	3302	8872	2417	5915	1532	5668	1458
17	24567	5409	22110	4853	19653	4297	17197	3741	14740	3186	12283	2630	9827	2074	7370	1518	4913	962	4709	916
18	24988	5409	22489	4853	19990	4297	17492	3741	14993	3186	12494	2630	9995	2074	7496	1518	4998	962	4789	916
19	25409	5409	22868	4853	20327	4297	17786	3741	15245	3186	12704	2630	10164	2074	7623	1518	5082	962	4870	916
20	25830	5409	23247	4853	20664	4297	18081	3741	15498	3186	12915	2630	10332	2074	7749	1518	5166	962	4951	916
21	26251	5409	23626	4853	21001	4297	18376	3741	15751	3186	13126	2630	10500	2074	7875	1518	5250	962	5031	916
22	26672	5409	24005	4853	21338	4297	18671	3741	16003	3186	13336	2630	10669	2074	8002	1518	5334	962	5112	916
23	27093	5409	24384	4853	21675	4297	18965	3741	16256	3186	13547	2630	10837	2074	8128	1518	5419	962	5193	916
24	27514	5409	24763	4853	22011	4297	19260	3741	16509	3186	13757	2630	11006	2074	8254	1518	5503	962	5274	916

Combination <Capacity range (Max)>

Indoor: RAV-HM1401BTP-E x 1, RAV-HM801BTP-E x 3, RAV-HM801BTP-E x 4
Outdoor: RAV-GM2803AT8(J)P-E

Operation range	Cooling		Heating	
	Q	P	Q	P
MINIMUM	W	4600	1330	4600
RATING	W	23500	10550	24000
MAXIMUM	W	25000	10870	28000

Cooling

Outdoor Temperature DB (°C)	Parts Load (%)																	
	100		90		80		70		60		50		40		30		20	
	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P
20	32126	10276	28914	9171	25701	8065	22488	6960	19276	5855	16063	4750	12850	3645	9638	2539	6425	1434
21	31780	10463	28602	9338	25424	8213	22246	7087	19068	5962	15890	4837	12712	3711	9534	2586	6356	1460
22	31435	10651	28291	9506	25148	8360	22004	7214	18861	6069	15717	4923	12574	3778	9430	2632	6287	1487
23	31089	10839	27980	9673	24871	8507	21762	7341	18653	6176	15544	5010	12436	3844	9327	2678	6218	1513
24	30558	10870	27502	9701	24446	8532	21391	7363	18335	6194	15279	5024	12223	3855	9167	2686	6112	1517
25	30002	10870	27001	9701	24001	8532	21001	7363	18001	6194	15001	5024	12001	3855	9000	2686	6000	1517
26	29457	10870	26511	9701	23565	8532	20620	7363	17674	6194	14728	5024	11783	3855	8837	2686	5891	1517
27	28923	10870	26031	9701	23139	8532	20246	7363	17354	6194	14462	5024	11569	3855	8677	2686	5785	1517
28	28400	10870	25560	9701	22720	8532	19880	7363	17040	6194	14200	5024	11360	3855	8520	2686	5680	1517
29	27888	10870	25099	9701	22310	8532	19521	7363	16733	6194	13944	5024	11155	3855	8366	2686	5578	1517
30	27385	10870	24646	9701	21908	8532	19169	7363	16431	6194	13692	5024	10954	3855	8215	2686	5477	1517
31	26891	10870	24202	9701	21513	8532	18823	7363	16134	6194	13445	5024	10756	3855	8067	2686	5378	1517
32	26406	10870	23765	9701	21125	8532	18484	7363	15843	6194	13203	5024	10562	3855	7922	2686	5281	1517
33	25929	10870	23336	9701	20743	8532	18150	7363	15558	6194	12965	5024	10372	3855	7779	2686	5186	1517
34	25461	10870	22915	9701	20369	8532	17823	7363	15276	6194	12730	5024	10184	3855	7638	2686	5092	1517
35	25000	10870	22500	9701	20000	8532	17500	7363	15000	6194	12500	5024	10000	3855	7500	2686	5000	1517
36	24547	10870	22092	9701	19637	8532	17183	7363	14728	6194	12273	5024	9819	3855	7364	2686	4909	1517
37	24100	10870	21690	9701	19280	8532	16870	7363	14460	6194	12050	5024	9640	3855	7230	2686	4820	1517
38	23661	10870	21295	9701	18929	8532	16563	7363	14197	6194	11830	5024	9464	3855	7098	2686	4732	1517
39	20021	7247	18019	6467	16017	5688	14015	4908	12013	4129	10011	3350	8008	2570	6006	1791	4004	1011
40	19585	7247	17626	6467	15668	5688	13709	4908	11751	4129	9792	3350	7834	2570	5875	1791	3917	1011
41	19148	7247	17233	6467	15318	5688	13404	4908	11489	4129	9574	3350	7659	2570	5744	1791	3830	1011
42	18712	7247	16840	6467	14969	5688	13098	4908	11227	4129	9356	3350	7485	2570	5613	1791	3742	1011
43	18275	7247	16448	6467	14620	5688	12793	4908	10965	4129	9138	3350	7310	2570	5483	1791	3655	1011
44	16446	5636	14802	5030	13157	4424	11512	3818	9868	3211	8223	2605	6578	1999	4934	1393	3289	787
45	16010	5636	14409	5030	12808	4424	11207	3818	9606	3211	8005	2605	6404	1999	4803	1393	3202	787
46	15573	5636	14016	5030	12459	4424	10901	3818	9344	3211	7787	2605	6229	1999	4672	1393	3115	787

Heating

Outdoor Temperature DB (°C)	Parts Load (%)																			
	100		90		80		70		60		50		40		30		20		10	
	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P
-27	9856	6451	8871	5785	7885	5119	6899	4453	5914	3787	4928	3121	3943	2455	2957	1789	1971	1123	1619	885
-26	10560	6842	9504	6136	8448	5429	7392	4723	6336	4017	5280	3310	4224	2604	3168	1897	2112	1191	1735	939
-25	11264	7233	10138	6486	9012	5739	7885	4993	6759	4246	5632	3499	4506	2752	3379	2006	2253	1259	1851	992
-24	11968	7624	10772	6837	9575	6050	8378	5262	7181	4475	5984	3688	4787	2901	3591	2114	2394	1327	1966	1046
-23	12672	8015	11405	7187	10138	6360	8871	5532	7603	4705	6336	3877	5069	3050	3802	2222	2534	1395	2082	1100
-22	13376	8405	12039	7537	10701	6670	9364	5802	8026	4934	6688	4066	5351	3199	4013	2331	2675	1463	2198	1153
-21	14081	8796	12672	7888	11264	6980	9856	6072	8448	5164	7040	4255	5632	3347	4224	2439	2816	1531	2313	1207
-20	14785	9187	13306	8238	11828	7290	10349	6341	8871	5393	7392	4444	5914	3496	4435	2548	2957	1599	2429	1260
-19	15277	9445	13750	8470	12222	7495	10694	6520	9166	5544	7639	4569	6111	3594	4583	2619	3055	1644	2510	1296
-18	15770	9703	14193	8701	12616	7699	11039	6698	9462	5696	7885	4694	6308	3692	4731	2691	3154	1689	2591	1331
-17	16263	9961	14637	8933	13010	7904	11384	6876	9758	5847	8132	4819	6505	3791	4879	2762	3253	1734	2672	1367
-16	16756	10219	15080	9164	13405	8109	11729	7054	10053	5999	8378	4944	6702	3889	5027	2834	3351	1779	2753	1402
-15	17249	10477	15524	9395	13799	8314	12074	7232	10349	6150	8624	5069	6899	3987	5175	2905	3450	1824	2834	1437
-14	17762	10796	15986	9682	14210	8567	12433	7453	10657	6338	8881	5223	7105	4109	5329	2994	3552	1879	2918	1481
-13	18275	11116	16448	9968	14620	8821	12793	7673	10965	6525	9138	5378	7310	4230	5483	3082	3655	1935	3002	1525
-12	18789	11435	16910	10255	15031	9074	13152	7893	11273	6713	9394	5532	7515	4352	5637	3171	3758	1990	3087	1569
-11	19302	11754	17372	10541	15442	9327	13511	8114	11581	6900	9651	5687	7721	4473	5791	3260	3860	2046	3171	1613
-10	19815	12074	17834	10827	15852	9581	13871	8334	11889	7088	9908	5841	7926	4595	5945	3348	3963	2102	3255	1656
-9	20329	12393	18296	11114	16263	9834	14230	8555	12197	7275	10164	5996	8132	4716	6099	3437	4066	2157	3340	1700
-8	20842	12713	18758	11400	16674	10088	14589	8775	12505	7463	10421	6150	8337	4838	6253	3525	4168	2213	3424	1744
-7	21355	13032	19220	11686	17084	10341	14949	8996	12813	7650	10678	6305	8542	4959	6407	3614	4271	2268	3508	1788
-6	21903	13319	19713	11944	17522	10569	15332	9193	13142	7818	10952	6443	8761	5068	6571	3693	4381	2318	3598	1827
-5	22451	13605	20206	12201	17960	10796	15715	9391	13470	7987	11225	6582	8980	5177	6735	3773	4490	2368	3688	1867
-4	22998	13892	20698	12458	18399	11024	16099	9589	13799	8155	11499	6721	9199	5287	6899	3852	4600	2418	3778	1906
-3	23546	14179	21191	12715	18837	11251	16482	9787	14127	8323	11773	6860	9418	5396	7064	3932	4709	2468	3868	1945
-2	24093	14466	21684	12972	19275	11479	16865	9985	14456	8492	12047	6998	9637	5505	7228	4011	4819	2518	3958	1985
-1	24641	14752	22177	13229	19713	11706	17249	10183	14785	8660	12320	7137	9856	5614	7392	4091	4928	2568	4048	2024
0	25188	15039	22670	13486	20151	11934	17632	10381	15113	8828	12594	7276	10075	5723	7557	4170	5038	2618	4138	2063
1	25736	15326	23162	13743	20589	12161	18015	10579	15442	8997	12868	7414	10294	5832	7721	4250	5147	2668	4228	2103
2	26284	15612	23655	14001	21027	12389	18399	10777	15770	9165	13142	7553	10513	5941	7885	4329	5257	2718	4318	2142
3	26863	15874	24176	14235	21490	12596	18804	10957	16118	9318	13431	7680	10745	6041	8059	4402	5373	2763	4413	2178
4	27448	16135	24703	14469	21958	12803	19213	11138	16469	9472	13724	7806	10979	6140	8234	4474	5490	2809	4509	2214
5	24422	9330	21980	8367	19538	7404	17096	6440	14653	5477	12211	4514	9769	3551	7327	2587	5884	1624	4012	1280
6	27472	9330	24724	8367	21977	7404	19230	6440	16483	5477	13736	4514	10989	3551	8241	2587	5494	1624	4513	1280
7	28000	9330	25200	8367	22400	7404	19600	6440	16800	5477	14000	4514	11200	3551	8400	2587	5600	1624	4600	1280
8	28524	9330	25672	8367	22819	7404	19967	6440	17115	5477	14262	4514	11410	3551	8557	2587	5705	1624	4686	1280
9	29045	9330	26140	8367	23236	7404	20331	6440	17427	5477	14522	4514	11618	3551	8713	2587	5809	1624	4772	1280
10	29561	9330	26605	8367	23649	7404	20693	6440	17737	5477	14781	4514	11825	3551	8868	2587	5912	1624	4857	1280
11	30075	9330	27067	8367	24060	7404	21052	6440	18045	5477	15037	4514	12030	3551	9022	2587	6015	1624	4941	1280
12	30584	9330	27526	8367	24468	7404	21409	6440	18351	5477	15292	4514	12234	3551	9175	2587	6117	1624	5025	1280
13	31091	9330	27982	8367	24873	7404	21764	6440	18655	5477	15545	4514	12436	3551	9327	2587	6218	1624	5108	1280
14	31594	9330	28435	8367	25276	7404	22116	6440	18957	5477	15797	4514	12638	3551	9478	2587	6319	1624	5191	1280
15	32095	9330	28885	8367	25676	7404	22466	6440	19257	5477	16047	4514	12838	3551	9628	2587	6419	1624	5273	1280
16	32593	9330	29333	8367	26074	7404	22815	6440	19556	5477	16296	4514	13037	3551	9778	2587	6519	1624	5354	1280
17	33631	9330	30268	8367	26904	7404	23541	6440	20178	5477	16815	4514	13452	3551	10089	2587	6726	1624	5525	1280
18	34207	9330	30786	8367	27366	7404	23945	6440	20524	5477	17103	4514	13683	3551	10262	2587	6841	1624	5620	1280
19	34783	9330	31305	8367	27827	7404	24348	6440	20870	5477	17392	4514	13913	3551	10435	2587	6957	1624	5714	1280
20	35360	9330	31824	8367	28288	7404	24752	6440	21216	5477	17680	4514	14144	3551	10608	2587	7072	1624	5809	1280
21	35936	9330	32343	8367	28749	7404	25155	6440	21562	5477	17968	4514	14374	3551	10781	2587	7187	1624	5904	1280
22	36513	9330	32861	8367	29210	7404	25559	6440	21908	5477	18256	4514	14605	3551	10954	2587	7303	1624	5998	1280
23	37089	9330	33380	8367	29671	7404	25962	6440	22253	5477	18544	4514	14836	3551	11127	2587	7418	1624	6093	1280
24	37665	9330	33899	8367	30132	7404	26366	6440	22599	5477	18833	4514	15066	3551	11300	2587	7533	1624	6188	1280

Combination <Rated condition>

Indoor: RAV-HM1401BTP-E x 1, RAV-HM801BTP-E x 3, RAV-HM801BTP-E x 4
Outdoor: RAV-GM2803AT8(J)P-E

Operation range		Cooling		Heating	
		Q	P	Q	P
MINIMUM	W	4600	1330	4600	1280
Night operation 1	W	11750	3297	12000	2704

* When outside air temperature is 40°C or more, the night operation does not operate.

Cooling

Outdoor Temperature DB (°C)	Parts Load (%)																			
	100		90		80		70		60		50		40		30		20		10	
	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P
20	14012	2588	12611	2334	11210	2081	9808	1827	8407	1573	7006	1319	5605	1066	5486	1044	5486	1044	5486	1044
21	13861	2635	12475	2377	11089	2119	9703	1860	8317	1602	6931	1343	5544	1085	5426	1063	5426	1063	5426	1063
22	13710	2683	12339	2420	10968	2157	9597	1894	8226	1631	6855	1368	5484	1105	5367	1082	5367	1082	5367	1082
23	13560	2730	12204	2462	10848	2195	9492	1927	8136	1659	6780	1392	5424	1124	5308	1101	5308	1101	5308	1101
24	13409	2777	12068	2505	10727	2233	9386	1960	8045	1688	6704	1416	5363	1143	5249	1120	5249	1120	5249	1120
25	13258	2824	11932	2548	10606	2271	9281	1994	7955	1717	6629	1440	5303	1163	5190	1139	5190	1139	5190	1139
26	13107	2872	11796	2590	10486	2309	9175	2027	7864	1745	6554	1464	5243	1182	5131	1158	5131	1158	5131	1158
27	12956	2919	11661	2633	10365	2347	9069	2060	7774	1774	6478	1488	5183	1202	5072	1177	5072	1177	5072	1177
28	12806	2966	11525	2675	10244	2385	8964	2094	7683	1803	6403	1512	5122	1221	5013	1197	5013	1197	5013	1197
29	12655	3013	11389	2718	10124	2423	8858	2127	7593	1832	6327	1536	5062	1241	4954	1216	4954	1216	4954	1216
30	12504	3061	11254	2761	10003	2461	8753	2160	7502	1860	6252	1560	5002	1260	4895	1235	4895	1235	4895	1235
31	12353	3108	11118	2803	9883	2499	8647	2194	7412	1889	6177	1584	4941	1280	4836	1254	4836	1254	4836	1254
32	12202	3155	10982	2846	9762	2537	8542	2227	7321	1918	6101	1608	4881	1299	4777	1273	4777	1273	4777	1273
33	12052	3202	10846	2889	9641	2575	8436	2261	7231	1947	6026	1633	4821	1319	4718	1292	4718	1292	4718	1292
34	11901	3250	10711	2931	9521	2613	8331	2294	7140	1975	5950	1657	4760	1338	4659	1311	4659	1311	4659	1311
35	11750	3297	10575	2974	9400	2651	8225	2327	7050	2004	5875	1681	4700	1358	4600	1330	4600	1330	4600	1330
36	11599	3344	10439	3016	9279	2688	8119	2361	6960	2033	5800	1705	4640	1377	4541	1349	4541	1349	4541	1349
37	11448	3392	10304	3059	9159	2726	8014	2394	6869	2061	5724	1729	4579	1396	4482	1368	4482	1368	4482	1368
38	11298	3439	10168	3102	9038	2764	7908	2427	6779	2090	5649	1753	4519	1416	4423	1387	4423	1387	4423	1387
39	9702	2362	8732	2131	7762	1899	6792	1668	5821	1436	4851	1204	3881	973	3798	953	3798	953	3798	953
40*	18982	7559	17084	6730	15186	5900	13287	5071	11389	4242	9491	3412	7593	2583	5695	1753	3796	924	3716	888
41*	18559	7559	16703	6730	14847	5900	12991	5071	11135	4242	9279	3412	7424	2583	5568	1753	3712	924	3633	888
42*	18136	7559	16322	6730	14509	5900	12695	5071	10881	4242	9068	3412	7254	2583	5441	1753	3627	924	3550	888
43*	17713	7559	15941	6730	14170	5900	12399	5071	10628	4242	8856	3412	7085	2583	5314	1753	3543	924	3467	888
44*	15940	5879	14346	5234	12752	4589	11158	3944	9564	3299	7970	2654	6376	2009	4782	1364	3188	718	3120	691
45*	15517	5879	13965	5234	12414	4589	10862	3944	9310	3299	7759	2654	6207	2009	4655	1364	3103	718	3037	691
46*	15094	5879	13585	5234	12075	4589	10566	3944	9056	3299	7547	2654	6038	2009	4528	1364	3019	718	2955	691

Heating

Outdoor Temperature DB (°C)	Parts Load (%)																			
	100		90		80		70		60		50		40		30		20		10	
	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P
-27	3261	989	2935	904	2609	820	2283	735	1957	651	1630	567	1304	482	1250	468	1250	468	1250	468
-26	3494	1049	3144	959	2795	870	2446	780	2096	690	1747	601	1398	511	1339	496	1339	496	1339	496
-25	3727	1109	3354	1014	2981	919	2609	825	2236	730	1863	635	1491	541	1429	525	1429	525	1429	525
-24	3960	1168	3564	1069	3168	969	2772	869	2376	769	1980	670	1584	570	1518	553	1518	553	1518	553
-23	4193	1228	3773	1123	3354	1019	2935	914	2516	809	2096	704	1677	599	1607	581	1607	581	1607	581
-22	4425	1288	3983	1178	3540	1068	3098	958	2655	848	2213	738	1770	628	1696	610	1696	610	1696	610
-21	4658	1348	4193	1233	3727	1118	3261	1003	2795	888	2329	773	1863	657	1786	638	1786	638	1786	638
-20	4891	1408	4402	1288	3913	1168	3424	1047	2935	927	2446	807	1957	687	1875	667	1875	667	1875	667
-19	5054	1448	4549	1324	4043	1200	3538	1077	3033	953	2527	829	2022	706	1938	685	1938	685	1938	685
-18	5217	1487	4696	1360	4174	1233	3652	1106	3130	979	2609	852	2087	725	2000	704	2000	704	2000	704
-17	5380	1527	4842	1396	4304	1266	3766	1136	3228	1005	2690	875	2152	744	2063	723	2063	723	2063	723
-16	5543	1566	4989	1433	4435	1299	3880	1165	3326	1031	2772	897	2217	764	2125	741	2125	741	2125	741
-15	5707	1606	5136	1469	4565	1332	3995	1194	3424	1057	2853	920	2283	783	2188	760	2188	760	2188	760
-14	5876	1655	5289	1513	4701	1372	4113	1231	3526	1090	2938	948	2351	807	2253	783	2253	783	2253	783
-13	6046	1704	5442	1558	4837	1413	4232	1267	3628	1122	3023	976	2418	831	2318	806	2318	806	2318	806
-12	6216	1753	5594	1603	4973	1453	4351	1304	3730	1154	3108	1004	2486	855	2383	830	2383	830	2383	830
-11	6386	1802	5747	1648	5109	1494	4470	1340	3832	1186	3193	1032	2554	878	2448	853	2448	853	2448	853
-10	6556	1851	5900	1693	5245	1534	4589	1376	3933	1218	3278	1060	2622	902	2513	876	2513	876	2513	876
-9	6726	1900	6053	1737	5380	1575	4708	1413	4035	1251	3363	1088	2690	926	2578	899	2578	899	2578	899
-8	6895	1948	6206	1782	5516	1616	4827	1449	4137	1283	3448	1116	2758	950	2643	922	2643	922	2643	922
-7	7065	1997	6359	1827	5652	1656	4946	1486	4239	1315	3533	1145	2826	974	2708	946	2708	946	2708	946
-6	7246	2041	6522	1867	5797	1693	5072	1518	4348	1344	3623	1170	2899	995	2778	966	2778	966	2778	966
-5	7428	2085	6685	1907	5942	1729	5199	1551	4457	1373	3714	1195	2971	1017	2847	987	2847	987	2847	987
-4	7609	2129	6848	1947	6087	1766	5326	1584	4565	1402	3804	1220	3043	1038	2917	1008	2917	1008	2917	1008
-3	7790	2173	7011	1988	6232	1802	5453	1616	4674	1431	3895	1245	3116	1060	2986	1029	2986	1029	2986	1029
-2	7971	2217	7174	2028	6377	1838	5580	1649	4783	1460	3986	1270	3188	1081	3056	1050	3056	1050	3056	1050
-1	8152	2261	7337	2068	6522	1875	5707	1682	4891	1489	4076	1296	3261	1103	3125	1070	3125	1070	3125	1070
0	8333	2305	7500	2108	6667	1911	5833	1714	5000	1518	4167	1321	3333	1124	3194	1091	3194	1091	3194	1091
1	8514	2349	7663	2148	6812	1948	5960	1747	5109	1547	4257	1346	3406	1145	3264	1112	3264	1112	3264	1112
2	8696	2393	7826	2189	6957	1984	6087	1780	5217	1576	4348	1371	3478	1167	3333	1133	3333	1133	3333	1133
3	8838	2425	7954	2218	7070	2011	6187	1804	5303	1597	4419	1390	3535	1182	3388	1148	3388	1148	3388	1148
4	8981	2457	8082	2247	7184	2038	6286	1828	5388	1618	4490	1408	3592	1198	3443	1163	3443	1163	3443	1163
5	9123	2489	8211	2277	7298	2064	6386	1852	5474	1639	4561	1426	3649	1214	3497	1178	3497	1178	3497	1178
6	11690	2662	10521	2435	9352	2207	8183	1980	7014	1753	5845	1525	4676	1298	4481	1260	4481	1260	4481	1260
7	12000	2704	10800	2473	9600	2242	8400	2011	7200	1780	6000	1549	4800	1318	4600	1280	4600	1280	4600	1280
8	12310	2746	11079	2511	9848	2277	8617	2042	7386	1808	6155	1573	4924	1339	4719	1300	4719	1300	4719	1300
9	12619	2788	11357	2550	10095	2312	8834	2074	7572	1835	6310	1597	5048	1359	4837	1320	4837	1320	4837	1320
10	12929	2830	11636	2588	10343	2346	9050	2105	7757	1863	6465	1621	5172	1380	4956	1339	4956	1339	4956	1339
11	13239	2871	11915	2626	10591	2381	9267	2136	7943	1891	6619	1645	5295	1400	5075	1359	5075	1359	5075	1359
12	13548	2913	12194	2665	10839	2416	9484	2167	8129	1918	6774	1669	5419	1421	5194	1379	5194	1379	5194	1379
13	13858	2955	12472	2703	11086	2450	9701	2198	8315	1946	6929	1693	5543	1441	5312	1399	5312	1399	5312	1399
14	14168	2997	12751	2741	11334	2485	9917	2229	8501	1973	7084	1717	5667	1461	5431	1419	5431	1419	5431	1419
15	14477	3039	13030	2779	11582	2520	10134	2260	8686	2001	7239	1741	5791	1482	5550	1439	5550	1439	5550	1439
16	14787	3081	13308	2818	11830	2555	10351	2292	8872	2028	7394	1765	5915	1502	5668	1458	5668	1458	5668	1458
17	12283	1935	11055	1769	9827	1604	8598	1439	7370	1274	6142	1109	4913	943	4709	916	4709	916	4709	916
18	12494	1935	11245	1769	9995	1604	8746	1439	7496	1274	6247	1109	4998	943	4789	916	4789	916	4789	916
19	12704	1935	11434	1769	10164	1604	8893	1439	7623	1274	6352	1109	5082	943	4870	916	4870	916	4870	916
20	12915	1935	11624	1769	10332	1604	9041	1439	7749	1274	6458	1109	5166	943	4951	916	4951	916	4951	916
21	13126	1935	11813	1769	10500	1604	9188	1439	7875	1274	6563	1109	5250	943	5031	916	5031	916	5031	916
22	13336	1935	12002	1769	10669	1604	9335	1439	8002	1274	6668	1109	5334	943	5112	916	5112	916	5112	916
23	13547	1935	12192	1769	10837	1604	9483	1439	8128	1274	6773	1109	5419	943	5193	916	5193	916	5193	916
24	13757	1935	12381	1769	11006	1604	9630	1439	8254	1274	6879	1109	5503	943	5274	916	5274	916	5274	916

Combination <Rated condition>

Indoor: RAV-HM1401BTP-E x 1, RAV-HM801BTP-E x 3, RAV-HM801BTP-E x 4
Outdoor: RAV-GM2803AT8(J)P-E

Operation range		Cooling		Heating	
		Q	P	Q	P
MINIMUM	W	4600	1330	4600	1280
Night operation 2	W	16450	5101	16800	4157

* When outside air temperature is 40°C or more, the night operation does not operate.

Cooling

Outdoor Temperature DB (°C)	Parts Load (%)																			
	100		90		80		70		60		50		40		30		20		10	
	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P
20	19617	4004	17655	3593	15693	3182	13732	2771	11770	2361	9808	1950	7847	1539	5885	1128	5486	1044	5486	1044
21	19406	4077	17465	3659	15524	3241	13584	2822	11643	2404	9703	1985	7762	1567	5822	1148	5426	1063	5426	1063
22	19194	4151	17275	3725	15356	3299	13436	2873	11517	2447	9597	2021	7678	1595	5758	1169	5367	1082	5367	1082
23	18983	4224	17085	3790	15187	3357	13288	2923	11390	2490	9492	2056	7593	1623	5695	1190	5308	1101	5308	1101
24	18772	4297	16895	3856	15018	3415	13141	2974	11263	2533	9386	2092	7509	1651	5632	1210	5249	1120	5249	1120
25	18561	4370	16705	3921	14849	3473	12993	3025	11137	2576	9281	2128	7424	1679	5568	1231	5190	1139	5190	1139
26	18350	4443	16515	3987	14680	3531	12845	3075	11010	2619	9175	2163	7340	1707	5505	1251	5131	1158	5131	1158
27	18139	4516	16325	4053	14511	3589	12697	3126	10883	2662	9069	2199	7256	1735	5442	1272	5072	1177	5072	1177
28	17928	4589	16135	4118	14342	3647	12549	3176	10757	2705	8964	2234	7171	1763	5378	1292	5013	1197	5013	1197
29	17717	4662	15945	4184	14173	3705	12402	3227	10630	2748	8858	2270	7087	1792	5315	1313	4954	1216	4954	1216
30	17506	4735	15755	4249	14004	3763	12254	3278	10503	2792	8753	2306	7002	1820	5252	1334	4895	1235	4895	1235
31	17294	4809	15565	4315	13836	3822	12106	3328	10377	2835	8647	2341	6918	1848	5188	1354	4836	1254	4836	1254
32	17083	4882	15375	4381	13667	3880	11958	3379	10250	2878	8542	2377	6833	1876	5125	1375	4777	1273	4777	1273
33	16872	4955	15185	4446	13498	3938	11811	3429	10123	2921	8436	2412	6749	1904	5062	1395	4718	1292	4718	1292
34	16661	5028	14995	4512	13329	3996	11663	3480	9997	2964	8331	2448	6664	1932	4998	1416	4659	1311	4659	1311
35	16450	5101	14805	4578	13160	4054	11515	3531	9870	3007	8225	2484	6580	1960	4935	1437	4600	1330	4600	1330
36	16239	5174	14615	4643	12991	4112	11367	3581	9743	3050	8119	2519	6496	1988	4872	1457	4541	1349	4541	1349
37	16028	5247	14425	4709	12822	4170	11219	3632	9617	3093	8014	2555	6411	2016	4808	1478	4482	1368	4482	1368
38	15817	5320	14235	4774	12653	4228	11072	3682	9490	3136	7908	2590	6327	2044	4745	1498	4423	1387	4423	1387
39	15606	5393	14045	4840	12484	4286	10924	3732	9363	3179	7803	2625	6243	2072	4682	1518	4364	1406	4364	1406
40*	15395	5466	13855	4905	12315	4344	10776	3782	9236	3222	7698	2660	6159	2100	4620	1538	4305	1425	4305	1425
41*	15184	5539	13665	4970	12146	4402	10628	3836	9109	3265	7593	2695	6075	2128	4558	1558	4246	1444	4246	1444
42*	14973	5612	13475	5035	11977	4460	10480	3889	8980	3308	7488	2730	5991	2156	4496	1578	4187	1463	4187	1463
43*	14762	5685	13285	5100	11808	4518	10332	3942	8853	3351	7383	2765	5907	2184	4434	1598	4128	1482	4128	1482
44*	14551	5758	13095	5165	11639	4576	10184	3995	8726	3394	7278	2800	5823	2212	4372	1618	4069	1501	4069	1501
45*	15517	5879	13965	5234	12414	4589	10862	3944	9310	3299	7759	2654	6207	2009	4655	1364	3103	718	3037	691
46*	15094	5879	13585	5234	12075	4589	10566	3944	9056	3299	7547	2654	6038	2009	4528	1364	3019	718	2955	691

Heating

Outdoor Temperature DB (°C)	Parts Load (%)																			
	100		90		80		70		60		50		40		30		20		10	
	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P
-27	4565	1520	4109	1375	3652	1230	3196	1086	2739	941	2283	796	1826	651	1370	506	1250	468	1250	468
-26	4891	1612	4402	1459	3913	1305	3424	1151	2935	998	2446	844	1957	690	1467	537	1339	496	1339	496
-25	5217	1704	4696	1542	4174	1379	3652	1217	3130	1055	2609	892	2087	730	1565	567	1429	525	1429	525
-24	5543	1796	4989	1625	4435	1454	3880	1283	3326	1112	2772	940	2217	769	1663	598	1518	553	1518	553
-23	5870	1888	5283	1708	4696	1529	4109	1349	3522	1169	2935	989	2348	809	1761	629	1607	581	1607	581
-22	6196	1981	5576	1792	4957	1603	4337	1414	3717	1226	3098	1037	2478	848	1859	659	1696	610	1696	610
-21	6522	2073	5870	1875	5217	1678	4565	1480	3913	1283	3261	1085	2609	887	1957	690	1786	638	1786	638
-20	6848	2165	6163	1958	5478	1752	4793	1546	4109	1339	3424	1133	2739	927	2054	721	1875	667	1875	667
-19	7076	2225	6368	2013	5661	1801	4953	1589	4246	1377	3538	1165	2830	953	2123	741	1938	685	1938	685
-18	7304	2286	6574	2068	5843	1851	5113	1633	4383	1415	3652	1197	2922	979	2191	761	2000	704	2000	704
-17	7533	2347	6779	2123	6026	1900	5273	1676	4520	1452	3766	1229	3013	1005	2260	781	2063	723	2063	723
-16	7761	2408	6985	2178	6209	1949	5433	1719	4657	1490	3880	1261	3104	1031	2328	802	2125	741	2125	741
-15	7989	2469	7190	2233	6391	1998	5592	1763	4793	1528	3995	1292	3196	1057	2397	822	2188	760	2188	760
-14	8227	2544	7404	2302	6582	2059	5759	1817	4936	1574	4113	1332	3291	1089	2468	847	2253	783	2253	783
-13	8465	2619	7618	2370	6772	2120	5925	1870	5079	1621	4232	1371	3386	1121	2539	872	2318	806	2318	806
-12	8702	2694	7832	2438	6962	2181	6092	1924	5221	1667	4351	1411	3481	1154	2611	897	2383	830	2383	830
-11	8940	2770	8046	2506	7152	2242	6258	1978	5364	1714	4470	1450	3576	1186	2682	922	2448	853	2448	853
-10	9178	2845	8260	2574	7342	2303	6425	2032	5507	1760	4589	1489	3671	1218	2753	947	2513	876	2513	876
-9	9416	2920	8474	2642	7533	2364	6591	2085	5649	1807	4708	1529	3766	1250	2825	972	2578	899	2578	899
-8	9654	2995	8688	2710	7723	2424	6757	2139	5792	1854	4827	1568	3861	1283	2896	997	2643	922	2643	922
-7	9891	3071	8902	2778	7913	2485	6924	2193	5935	1900	4946	1607	3957	1315	2967	1022	2708	946	2708	946
-6	10145	3138	9130	2839	8116	2540	7101	2241	6087	1942	5072	1643	4058	1344	3043	1045	2778	966	2778	966
-5	10399	3206	9359	2900	8319	2595	7279	2289	6239	1984	5199	1678	4159	1373	3120	1067	2847	987	2847	987
-4	10652	3273	9587	2961	8522	2649	7457	2337	6391	2026	5326	1714	4261	1402	3196	1090	2917	1008	2917	1008
-3	10906	3341	9815	3023	8725	2704	7634	2386	6543	2067	5453	1749	4362	1431	3272	1112	2986	1029	2986	1029
-2	11159	3409	10043	3084	8928	2759	7812	2434	6696	2109	5580	1784	4464	1459	3348	1135	3056	1050	3056	1050
-1	11413	3476	10272	3145	9130	2814	7989	2482	6848	2151	5707	1820	4565	1488	3424	1157	3125	1070	3125	1070
0	11667	3544	10500	3206	9333	2868	8167	2530	7000	2193	5833	1855	4667	1517	3500	1180	3194	1091	3194	1091
1	11920	3611	10728	3267	9536	2923	8344	2579	7152	2235	5960	1890	4768	1546	3576	1202	3264	1112	3264	1112
2	12174	3679	10957	3328	9739	2978	8522	2627	7304	2276	6087	1926	4870	1575	3652	1225	3333	1133	3333	1133
3	12373	3728	11136	3373	9899	3018	8661	2662	7424	2307	6187	1952	4949	1596	3712	1241	3388	1148	3388	1148
4	12573	3778	11315	3418	10058	3058	8801	2698	7544	2338	6286	1978	5029	1618	3772	1258	3443	1163	3443	1163
5	12772	3827	11495	3463	10218	3098	8941	2733	7663	2368	6386	2003	5109	1639	3832	1274	3497	1178	3497	1178
6	12966	3923	11730	3502	10393	3133	9077	2773	7784	2399	6486	2032	5197	1659	3920	1292	3549	1193	3549	1193
7	16800	4157	15120	3761	13440	3365	11760	2968	10080	2572	8400	2176	6720	1780	5040	1384	4600	1280	4600	1280
8	17234	4221	15510	3819	13787	3417	12063	3014	10340	2612	8617	2210	6893	1807	5170	1405	4719	1300	4719	1300
9	17667	4286	15900	3877	14134	3469	12367	3060	10600	2652	8834	2244	7067	1835	5300	1427	4837	1320	4837	1320
10	18101	4350	16291	3936	14481	3521	12670	3106	10860	2692	9050	2277	7240	1863	5430	1448	4956	1339	4956	1339
11	18534	4414	16681	3994	14827	3573	12974	3152	11121	2732	9267	2311	7414	1890	5560	1469	5075	1359	5075	1359
12	18968	4479	17071	4052	15174	3625	13277	3198	11381	2771	9484	2345	7587	1918	5690	1491	5194	1379	5194	1379
13	19401	4543	17461	4110	15521	3677	13581	3244	11641	2811	9701	2378	7761	1945	5820	1512	5312	1399	5312	1399
14	19835	4608	17851	4168	15868	3729	13884	3290	11901	2851	9917	2412	7934	1973	5950	1534	5431	1419	5431	1419
15	20268	4672	18242	4227	16215	3781	14188	3336	12161	2891	10134	2446	8107	2000	6081	1555	5550	1439	5550	1439
16	20702	4736	18632	4285	16562	3834	14491	3382	12421	2931	10351	2479	8281	2028	6211	1577	5668	1458	5668	1458
17	17197	2974	15477	2691	13757	2407	12038	2124	10318	1840	8598	1557	6879	1274	5159	990	4709	916	4709	916
18	17492	2974	15742	2691	13993	2407	12244	2124	10495	1840	8746	1557	6997	1274	5247	990	4789	916	4789	916
19	17786	2974	16008	2691	14229	2407	12450	2124	10672	1840	8893	1557	7115	1274	5336	990	4870	916	4870	916
20	18081	2974	16273	2691	14465	2407	12657	2124	10849	1840	9041	1557	7232	1274	5424	990	4951	916	4951	916
21	18376	2974	16538	2691	14701	2407	12863	2124	11025	1840	9188	1557	7350	1274	5513	990	5031	916	5031	916
22	18671	2974	16803	2691	14936	2407	13069	2124	11202	1840	9335	1557	7468	1274	5601	990	5112	916	5112	916
23	18965	2974	17069	2691	15172	2407	13276	2124	11379	1840	9483	1557	7586	1274	5690	990	5193	916	5193	916
24	19260	2974	17334	2691	15408	2407	13482	2124	11556	1840	9630	1557	7704	1274	5778	990	5274	916	5274	916

Combination <Rated condition>

Indoor: RAV-HM1401BTP-E x 1, RAV-HM801BTP-E x 3, RAV-HM801BTP-E x 4
Outdoor: RAV-GM2803AT8(J)P-E

Operation range		Cooling		Heating	
		Q	P	Q	P
MINIMUM	W	4600	1330	4600	1280
Night operation 3	W	21150	8481	21600	6015

* When outside air temperature is 40°C or more, the night operation does not operate.

Cooling

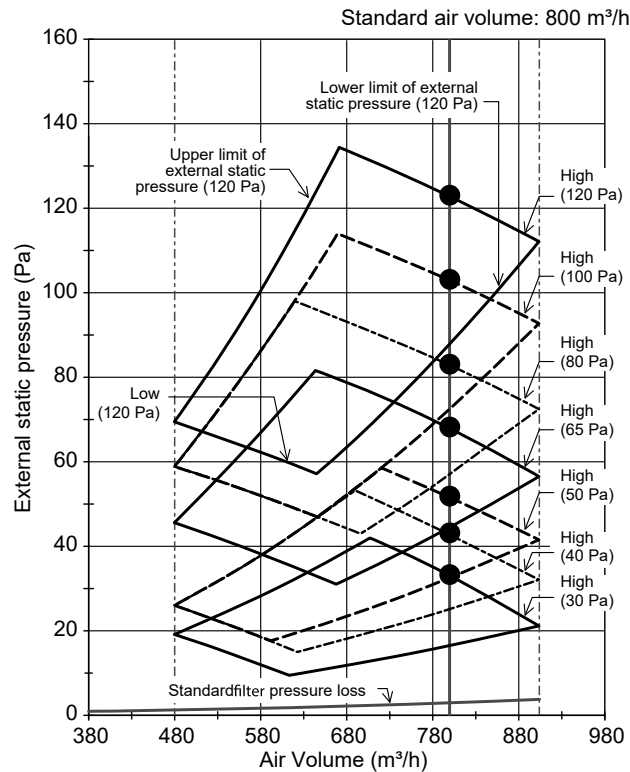
Outdoor Temperature DB (°C)	Parts Load (%)																	
	100		90		80		70		60		50		40		30		20	
	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P
20	25221	6658	22699	5940	20177	5223	17655	4505	15133	3788	12611	3071	10089	2353	7566	1636	5486	1044
21	24950	6779	22455	6049	19960	5318	17465	4588	14970	3857	12475	3127	9980	2396	7485	1666	5426	1063
22	24679	6901	22211	6157	19743	5414	17275	4670	14807	3926	12339	3183	9871	2439	7404	1696	5367	1082
23	24407	7022	21966	6266	19526	5509	17085	4752	14644	3996	12204	3239	9763	2482	7322	1726	5308	1101
24	24136	7144	21722	6374	19309	5604	16895	4835	14481	4065	12068	3295	9654	2525	7241	1755	5249	1120
25	23864	7265	21478	6483	19091	5700	16705	4917	14319	4134	11932	3351	9546	2568	7159	1785	5190	1139
26	23593	7387	21234	6591	18874	5795	16515	4999	14156	4203	11796	3407	9437	2611	7078	1815	5131	1158
27	23321	7509	20989	6699	18657	5890	16325	5081	13993	4272	11661	3463	9329	2654	6996	1845	5072	1177
28	23050	7630	20745	6808	18440	5986	16135	5164	13830	4341	11525	3519	9220	2697	6915	1875	5013	1197
29	22779	7752	20501	6916	18223	6081	15945	5246	13667	4411	11389	3575	9111	2740	6834	1905	4954	1216
30	22507	7873	20256	7025	18006	6176	15755	5328	13504	4480	11254	3631	9003	2783	6752	1935	4895	1235
31	22236	7995	20012	7133	17789	6272	15565	5410	13341	4549	11118	3687	8894	2826	6671	1965	4836	1254
32	21964	8116	19768	7242	17571	6367	15375	5493	13179	4618	10982	3744	8786	2869	6589	1994	4777	1273
33	21693	8238	19524	7350	17354	6463	15185	5575	13016	4687	10846	3800	8677	2912	6508	2024	4718	1292
34	21421	8359	19279	7459	17137	6558	14995	5657	12853	4756	10711	3856	8569	2955	6426	2054	4659	1311
35	21150	8481	19035	7567	16920	6653	14805	5739	12690	4826	10575	3912	8460	2998	6345	2084	4600	1330
36	20879	8603	18791	7676	16703	6749	14615	5822	12527	4895	10439	3968	8351	3041	6264	2114	4541	1349
37	20607	8724	18546	7784	16486	6844	14425	5904	12364	4964	10304	4024	8243	3084	6182	2144	4482	1368
38	20336	8846	18302	7893	16269	6939	14235	5986	12201	5033	10168	4080	8134	3127	6101	2174	4423	1387
39	17464	6077	15718	5422	13972	4767	12225	4112	10479	3458	8732	2803	6986	2148	5239	1493	3798	953
40*	18982	7559	17084	6730	15186	5900	13287	5071	11389	4242	9491	3412	7593	2583	5695	1753	3796	924
41*	18559	7559	16703	6730	14847	5900	12991	5071	11135	4242	9279	3412	7424	2583	5568	1753	3712	924
42*	18136	7559	16322	6730	14509	5900	12695	5071	10881	4242	9068	3412	7254	2583	5441	1753	3627	924
43*	17713	7559	15941	6730	14170	5900	12399	5071	10628	4242	8856	3412	7085	2583	5314	1753	3543	924
44*	15940	5879	14346	5234	12752	4589	11158	3944	9564	3299	7970	2654	6376	2009	4782	1364	3188	718
45*	15517	5879	13965	5234	12414	4589	10862	3944	9310	3299	7759	2654	6207	2009	4655	1364	3103	718
46*	15094	5879	13585	5234	12075	4589	10566	3944	9056	3299	7547	2654	6038	2009	4528	1364	3019	718

Heating

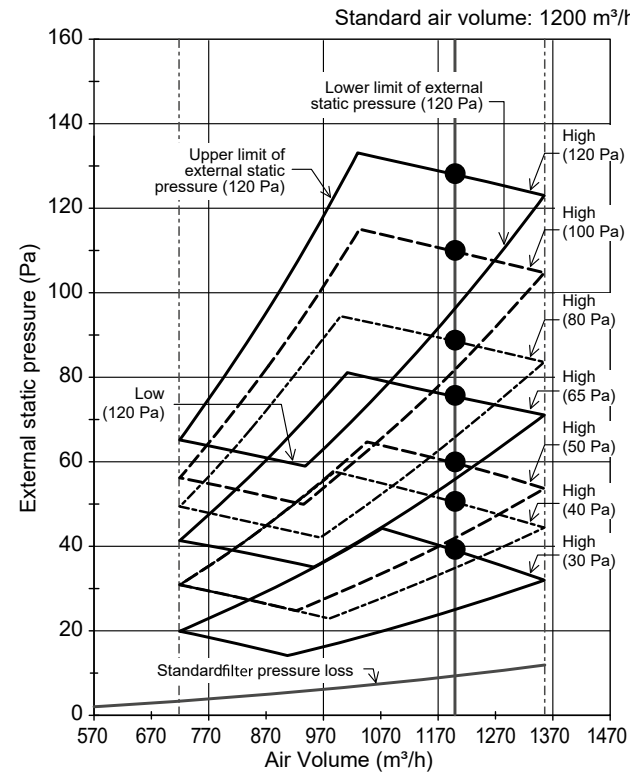
Outdoor Temperature DB (°C)	Parts Load (%)																			
	100		90		80		70		60		50		40		30		20		10	
	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P		
-27	5870	2200	5283	1980	4696	1760	4109	1540	3522	1320	2935	1100	2348	880	1761	660	1250	468	1250	468
-26	6289	2333	5660	2099	5031	1866	4402	1633	3773	1400	3144	1166	2516	933	1887	700	1339	496	1339	496
-25	6708	2466	6037	2219	5366	1973	4696	1726	4025	1479	3354	1233	2683	986	2012	739	1429	525	1429	525
-24	7127	2599	6415	2339	5702	2079	4989	1819	4276	1559	3564	1299	2851	1039	2138	779	1518	553	1518	553
-23	7547	2733	6792	2459	6037	2186	5283	1913	4528	1639	3773	1366	3019	1093	2264	819	1607	581	1607	581
-22	7966	2866	7169	2579	6373	2292	5576	2006	4780	1719	3983	1433	3186	1146	2390	859	1696	610	1696	610
-21	8385	2999	7547	2699	6708	2399	5870	2099	5031	1799	4193	1499	3354	1199	2516	899	1786	638	1786	638
-20	8804	3132	7924	2819	7043	2506	6163	2192	5283	1879	4402	1566	3522	1253	2641	939	1875	667	1875	667
-19	9098	3220	8188	2898	7278	2576	6368	2254	5459	1932	4549	1610	3639	1288	2729	966	1938	685	1938	685
-18	9391	3308	8452	2977	7513	2646	6574	2316	5635	1985	4696	1654	3757	1323	2817	992	2000	704	2000	704
-17	9685	3396	8716	3056	7748	2717	6779	2377	5811	2037	4842	1698	3874	1358	2905	1018	2063	723	2063	723
-16	9978	3484	8980	3136	7983	2787	6985	2439	5987	2090	4989	1742	3991	1393	2993	1045	2125	741	2125	741
-15	10272	3572	9245	3215	8217	2858	7190	2500	6163	2143	5136	1786	4109	1428	3082	1071	2188	760	2188	760
-14	10577	3681	9520	3313	8462	2945	7404	2576	6346	2208	5289	1840	4231	1472	3173	1104	2253	783	2253	783
-13	10883	3790	9795	3411	8707	3032	7618	2653	6530	2274	5442	1895	4353	1515	3265	1136	2318	806	2318	806
-12	11189	3899	10070	3509	8951	3119	7832	2729	6713	2339	5594	1949	4476	1559	3357	1169	2383	830	2383	830
-11	11495	4008	10345	3607	9196	3206	8046	2805	6897	2404	5747	2003	4598	1603	3448	1202	2448	853	2448	853
-10	11800	4117	10620	3705	9440	3293	8260	2881	7080	2470	5900	2058	4720	1646	3540	1234	2513	876	2513	876
-9	12106	4225	10895	3803	9685	3380	8474	2958	7264	2535	6053	2112	4842	1690	3632	1267	2578	899	2578	899
-8	12412	4334	11171	3901	9929	3467	8688	3034	7447	2600	6206	2167	4965	1733	3724	1300	2643	922	2643	922
-7	12717	4443	11446	3999	10174	3554	8902	3110	7630	2666	6359	2221	5087	1777	3815	1332	2708	946	2708	946
-6	13043	4541	11739	4087	10435	3633	9130	3178	7826	2724	6522	2270	5217	1816	3913	1362	2778	966	2778	966
-5	13370	4639	12033	4175	10696	3711	9359	3247	8022	2783	6685	2319	5348	1855	4011	1391	2847	987	2847	987
-4	13696	4736	12326	4263	10957	3789	9587	3315	8217	2841	6848	2368	5478	1894	4109	1420	2917	1008	2917	1008
-3	14022	4834	12620	4351	11217	3867	9815	3384	8413	2900	7011	2417	5609	1933	4207	1450	2986	1029	2986	1029
-2	14348	4932	12913	4439	11478	3945	10043	3452	8609	2959	7174	2465	5739	1972	4304	1479	3056	1050	3056	1050
-1	14674	5030	13207	4527	11739	4024	10272	3521	8804	3017	7337	2514	5870	2011	4402	1508	3125	1070	3125	1070
0	15000	5127	13500	4615	12000	4102	10500	3589	9000	3076	7500	2563	6000	2050	4500	1538	3194	1091	3194	1091
1	15326	5225	13793	4703	12261	4180	10728	3657	9196	3135	7663	2612	6130	2089	4598	1567	3264	1112	3264	1112
2	15652	5323	14087	4791	12522	4258	10957	3726	9391	3193	7826	2661	6261	2129	4696	1596	3333	1133	3333	1133
3	15909	5395	14318	4855	12727	4315	11136	3776	9545	3236	7954	2697	6363	2157	4773	1618	3388	1148	3388	1148
4	16165	5466	14548	4919	12932	4373	11315	3826	9699	3279	8082	2733	6466	2186	4849	1639	3443	1163	3443	1163
5	16421	5538	14779	4984	13137	4430	11495	3876	9853	3322	8211	2768	6569	2214	4926	1661	3497	1178	3497	1178
6	21043	5922	18938	5330	16834	4737	14730	4145	12626	3553	10521	2960	8417	2368	6313	1776	4481	1260	4481	1260
7	21600	6015	19440	5413	17280	4812	15120	4210	12960	3609	10800	3007	8640	2405	6480	1804	4600	1280	4600	1280
8	22157	6108	19942	5497	17726	4886	15510	4275	13294	3664	11079	3053	8863	2443	6647	1832	4719	1300	4719	1300
9	22715	6201	20443	5581	18172	4961	15900	4341	13629	3720	11357	3100	9086	2480	6814	1859	4837	1320	4837	1320
10	23272	6294	20945	5665	18618	5035	16291	4406	13963	3776	11636	3147	9309	2517	6982	1887	4956	1339	4956	1339
11	23830	6388	21447	5749	19064	5110	16681	4471	14298	3832	11915	3193	9532	2554	7149	1915	5075	1359	5075	1359
12	24387	6481	21948	5832	19510	5184	17071	4536	14632	3888	12194	3240	9755	2591	7316	1943	5194	1379	5194	1379
13	24945	6574	22450	5916	19956	5259	17461	4601	14967	3944	12472	3286	9978	2629	7483	1971	5312	1399	5312	1399
14	25502	6667	22952	6000	20402	5333	17851	4666	15301	4000	12751	3333	10201	2666	7651	1999	5431	1419	5431	1419
15	26059	6760	23453	6084	20847	5408	18245	4732	15636	4055	13030	3379	10424	2703	7818	2027	5550	1439	5550	1439
16	26617	6853	23955	6168	21293	5482	18632	4797	15970	4111	13308	3426	10647	2740	7985	2055	5668	1458	5668	1458
17	22110	4304	19899	3873	17688	3443	15477	3012	13266	2582	11055	2151	8844	1721	6633	1290	4709	916	4709	916
18	22489	4304	20240	3873	17991	3443	15742	3012	13493	2585	11245	2151	8996	1721	6747	1290	4789	916	4789	916
19	22868	4304	20581	3873	18294	3443	16008	3012	13721	2582	11434	2151	9147	1721	6860	1290	4870	916	4870	916
20	23247	4304	20922	3873	18598	3443	16273	3012	13948	2582	11624	2151	9299	1721	6974	1290	4951	916	4951	916
21	23626	4304	21263	3873	18901	3443	16538	3012	14176	2582	11813	2151	9450	1721	7088	1290	5031	916	5031	916
22	24005	4304	21604	3873	19204	3443	16803	3012	14403	2582	12002	2151	9602	1721	7201	1290	5112	916	5112	916
23	24384	4304	21946	3873	19507	3443	17069	3012	14630	2582	12192	2151	9754	1721	7315	1290	5193	916	5193	916
24	24763	4304	22287	3873	19810	3443	17334	3012	14858	2582	12381	2151	9905	1721	7429	1290	5274	916	5274	916

2-2-6. Fan Static Characteristic

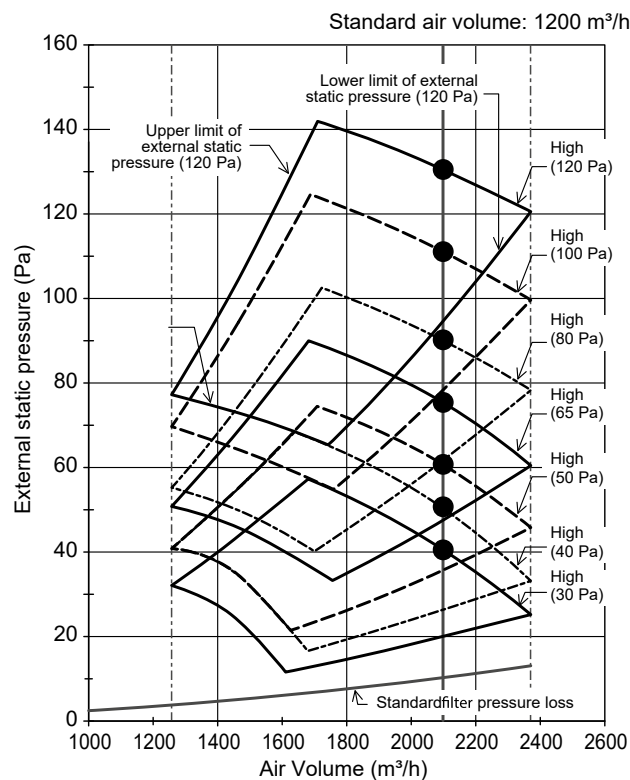
RAV-HM561BTP-E/TR



RAV-HM801BTP-E/TR

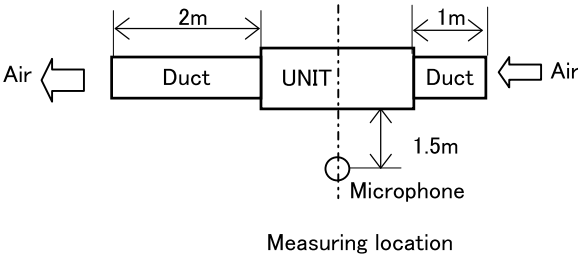


RAV-HM1101BTP-E/TR and RAV-HM1401BTP-E/TR



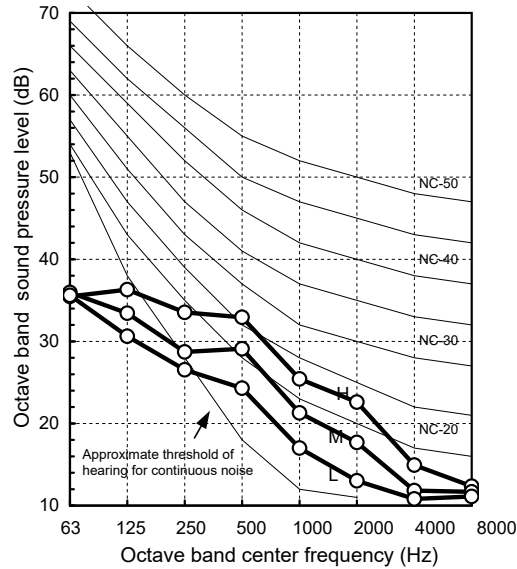
2-2-7. Sound Characteristics (NC curve)

RAV-HM561BTP-E/TR



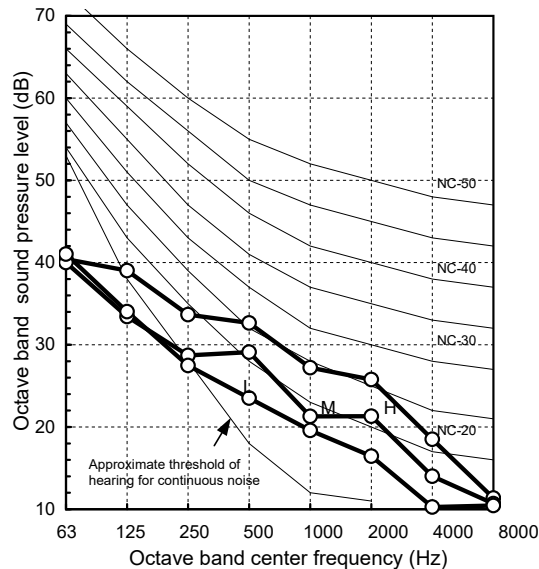
External static pressure 30Pa

FAN tap	H	M	L
Sound pressure level (dB(A))	33	29	25



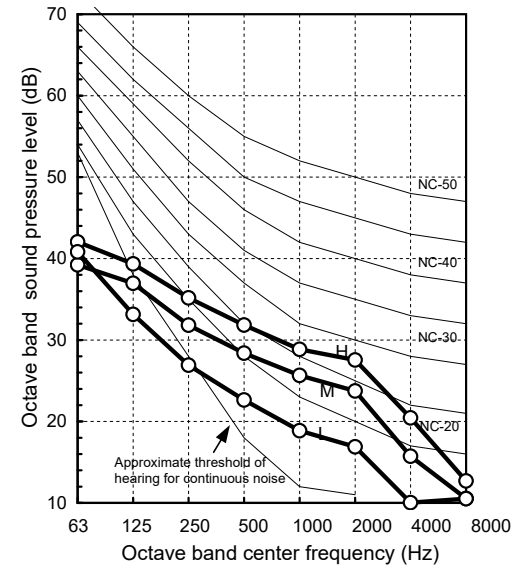
External static pressure 40Pa

FAN tap	H	M	L
Sound pressure level (dB(A))	34	30	26



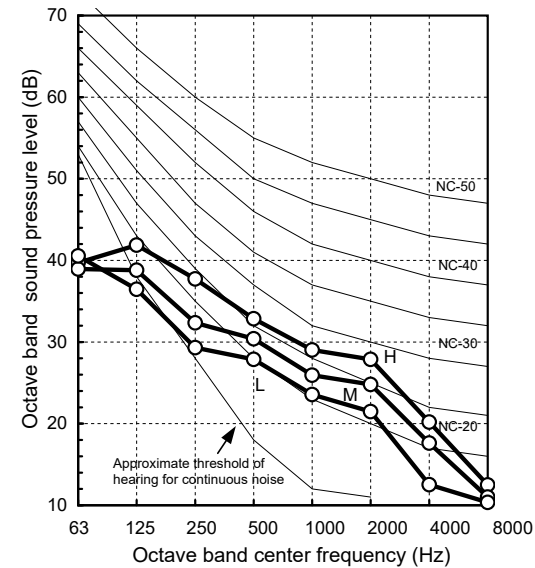
External static pressure 50Pa

FAN tap	H	M	L
Sound pressure level (dB(A))	35	31	26



External static pressure 65Pa

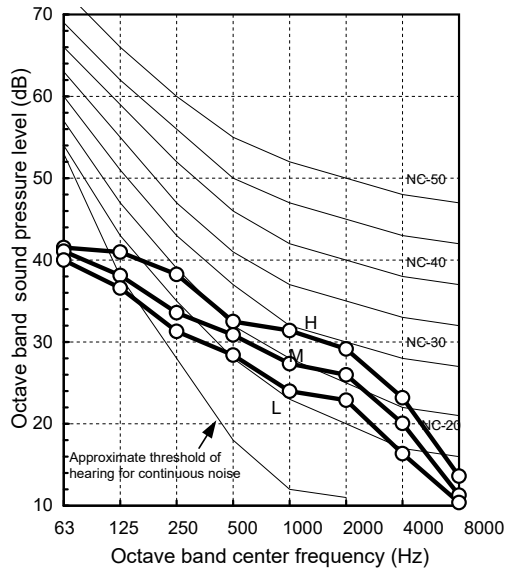
FAN tap	H	M	L
Sound pressure level (dB(A))	36	32	29



RAV-HM561BTP-E/TR

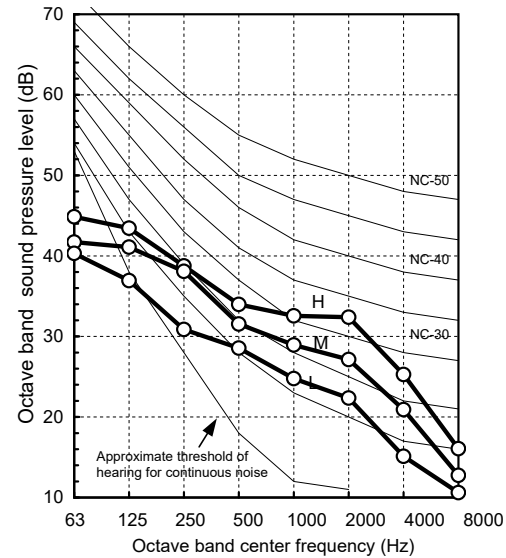
External static pressure 80Pa

FAN tap	H	M	L
Sound pressure level (dB(A))	37	33	31



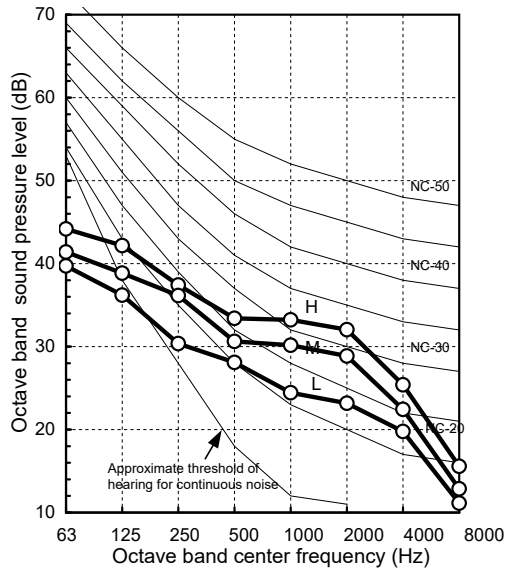
External static pressure 100Pa

FAN tap	H	M	L
Sound pressure level (dB(A))	38	35	31

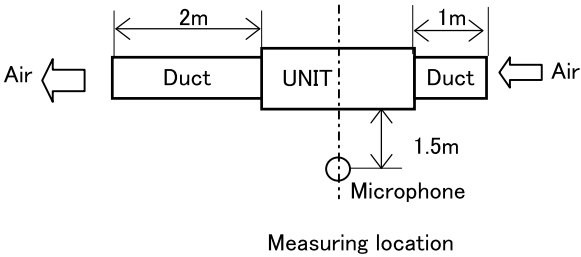


External static pressure 120Pa

FAN tap	H	M	L
Sound pressure level (dB(A))	39	35	31

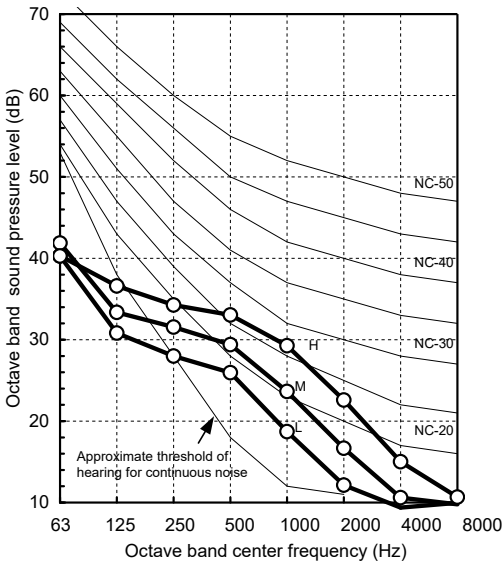


RAV-HM801BTP-E/TR



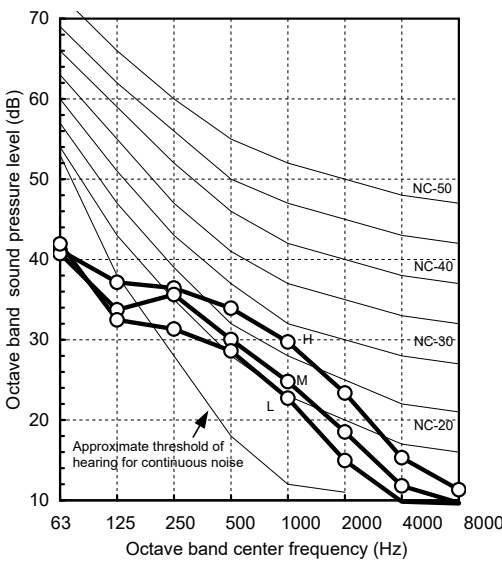
External static pressure 30Pa

FAN tap	H	M	L
Sound pressure level (dB(A))	34	30	26



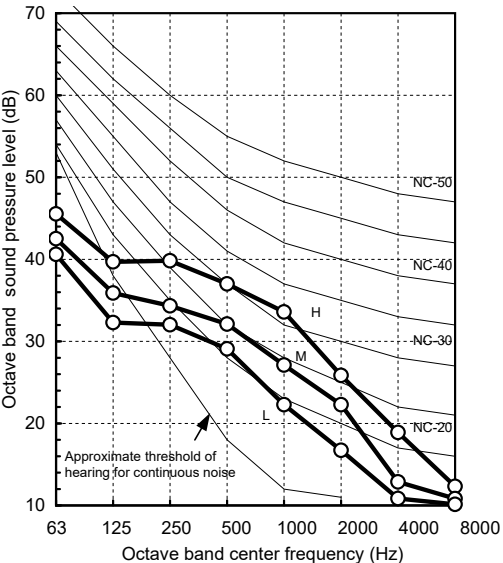
External static pressure 40Pa

FAN tap	H	M	L
Sound pressure level (dB(A))	35	32	29



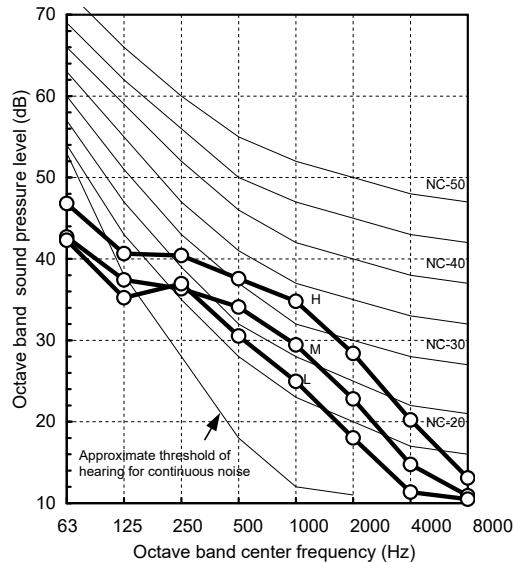
External static pressure 50Pa

FAN tap	H	M	L
Sound pressure level (dB(A))	38	33	29



External static pressure 65Pa

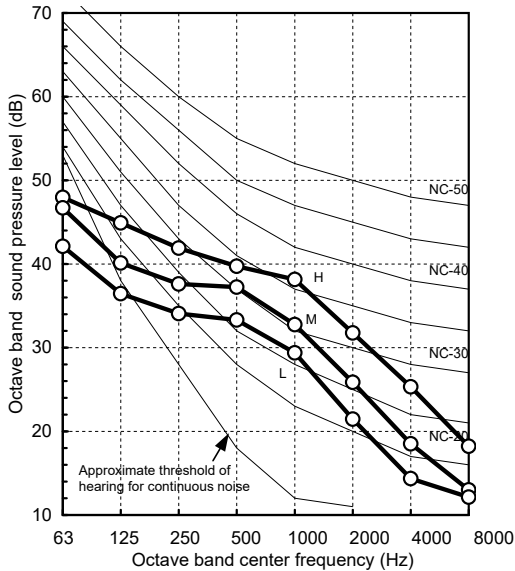
FAN tap	H	M	L
Sound pressure level (dB(A))	39	35	32



RAV-HM801BTP-E/TR

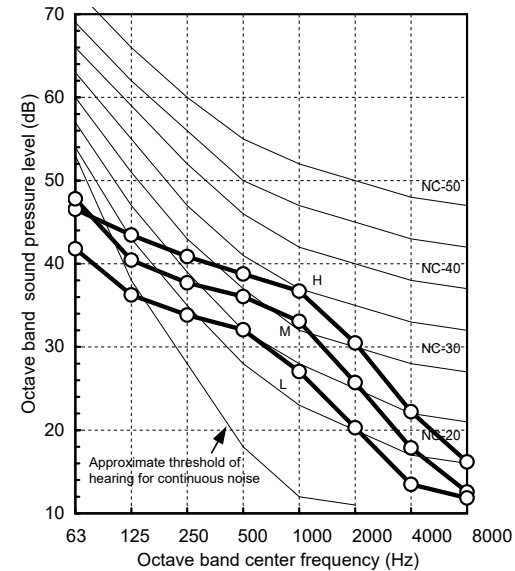
External static pressure 80Pa

FAN tap	H	M	L
Sound pressure level (dB(A))	42	38	34



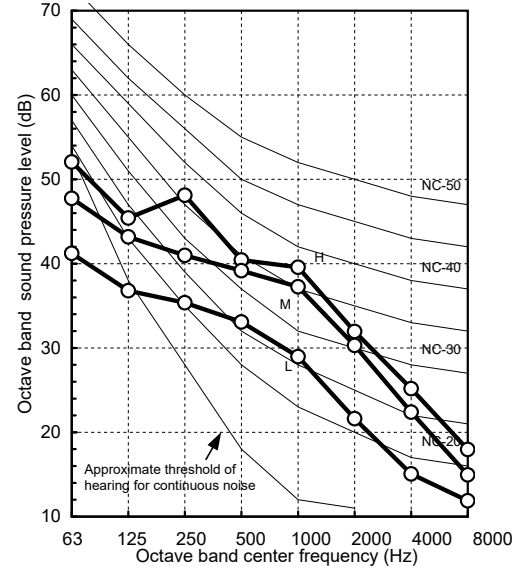
External static pressure 100Pa

FAN tap	H	M	L
Sound pressure level (dB(A))	42	39	33

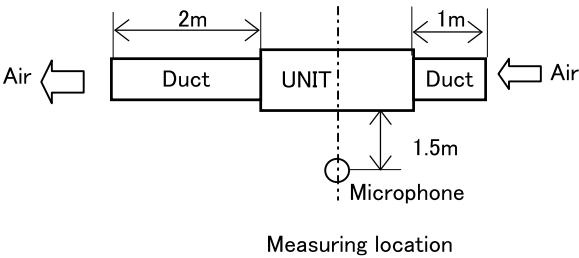


External static pressure 120Pa

FAN tap	H	M	L
Sound pressure level (dB(A))	44	41	34

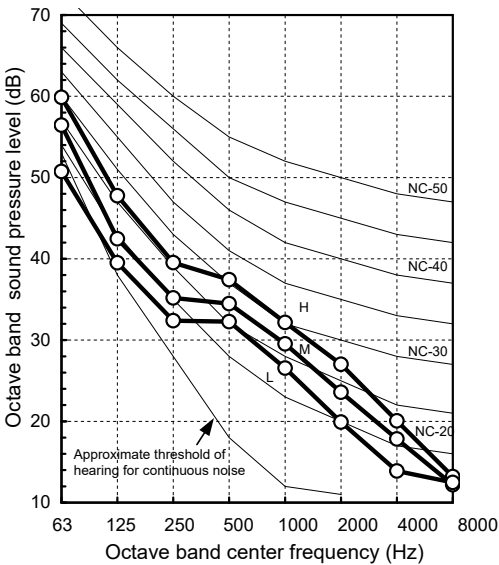


RAV-HM1101BTP-E/TR, RAV-HM1401BTP-E/TR



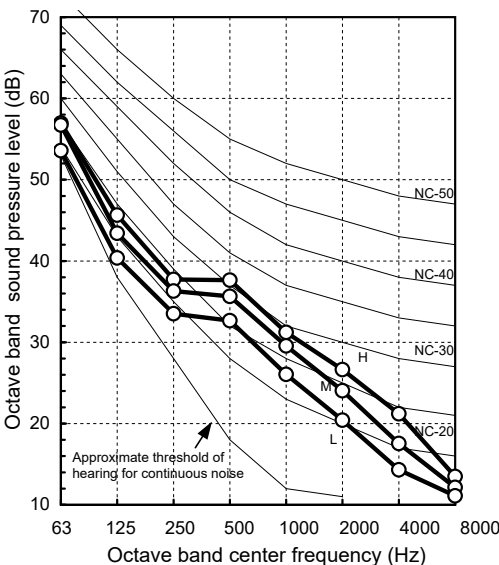
External static pressure 30Pa

FAN tap	H	M	L
Sound pressure level (dB(A))	39	36	33



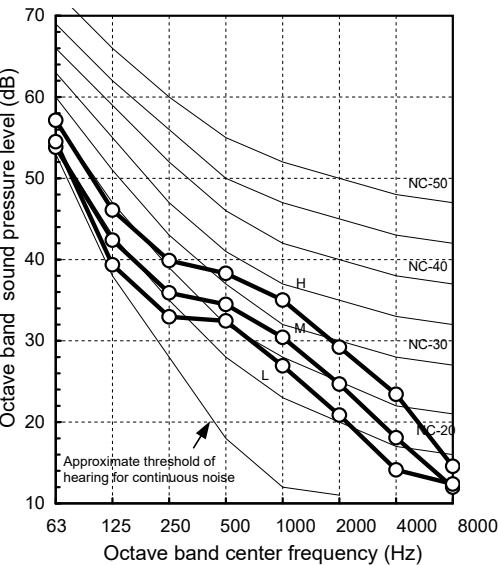
External static pressure 40Pa

FAN tap	H	M	L
Sound pressure level (dB(A))	39	36	33



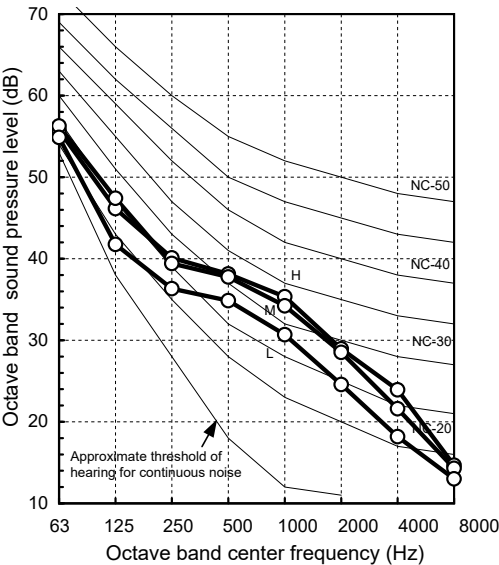
External static pressure 50Pa

FAN tap	H	M	L
Sound pressure level (dB(A))	40	36	33



External static pressure 65Pa

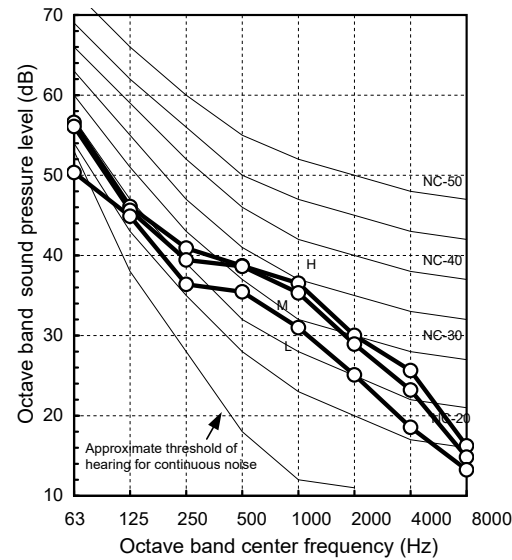
FAN tap	H	M	L
Sound pressure level (dB(A))	41	39	36



RAV-HM1101BTP-E/TR, RAV-HM1401BTP-E/TR

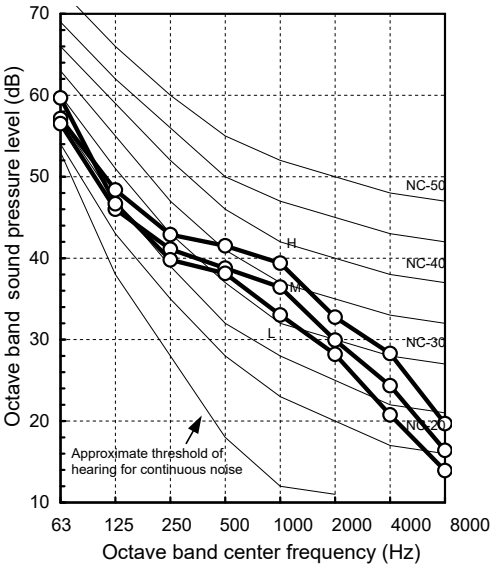
External static pressure 80Pa

FAN tap	H	M	L
Sound pressure level (dB(A))	41	40	36



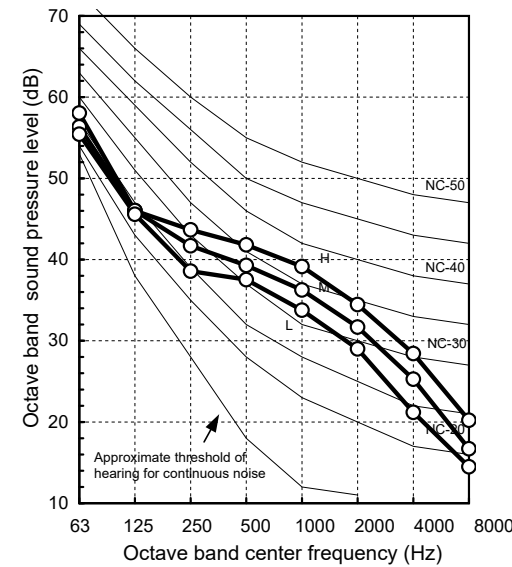
External static pressure 100Pa

FAN tap	H	M	L
Sound pressure level (dB(A))	43	41	39



External static pressure 120Pa

FAN tap	H	M	L
Sound pressure level (dB(A))	44	42	39



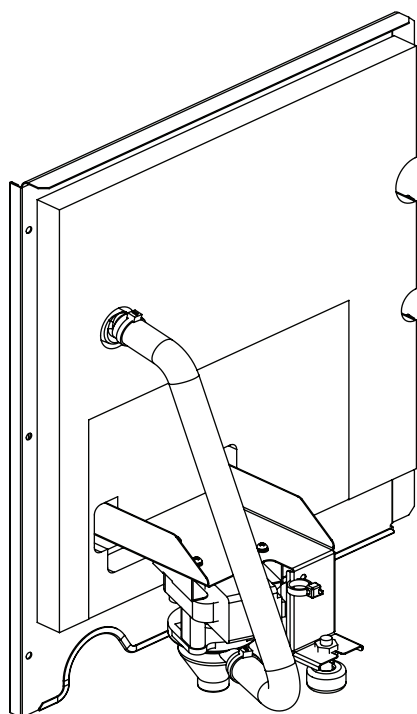
2-2.8 Accessories

No	Type	Model name	Applied model / Note
1	Drain pump kit (Built-in)	TCB-DP40DPE	RAV-HM__1BTP-E/TR (56,80,110,140)
2	Long life filter	TCB-LK801D-E	RAV-HM__1BTP-E/TR (56,80)
		TCB-LK1401D-E	RAV-HM__BTP-E/TR (110 , 140)
3	Auxiliary fresh air flange	TCB-FF151US-E	RAV-HM__1BTP-E/TR (56,80,110,140)
4	Spigot shaped flange	TCB-SF56C6BPE	RAV-HM__1BTP-E/TR (56,80)
		TCB-SF80C6BPE	RAV-HM__BTP-E/TR (110 , 140)
5	Wireless remote	RBC-ACXU31P-E	RAV-HM__1BTP-E/TR (56,80,110,140)

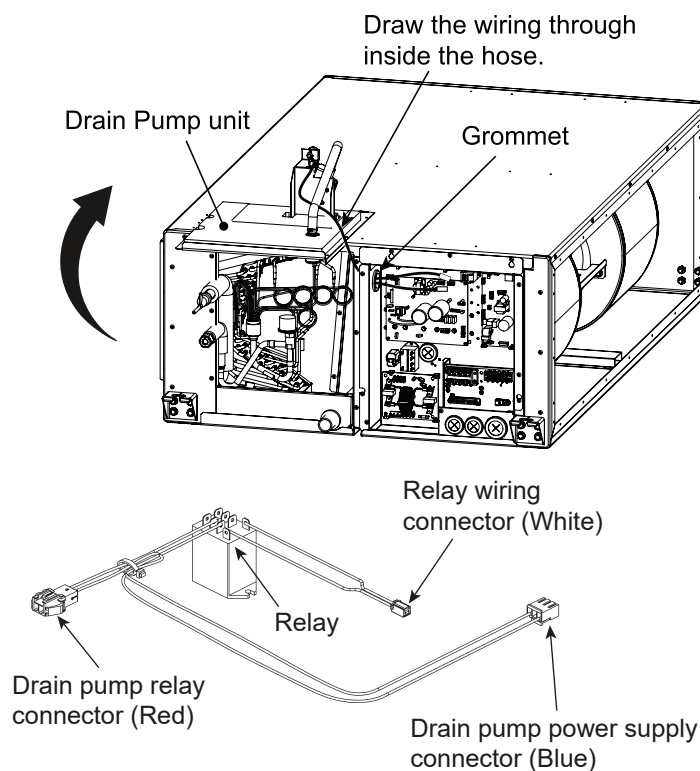
Note : Long life filter kit : incase install with chamber remove frame before put it in
High efficiency filter 65 and 90% require filter chamber to install

2-2.9 Appendix

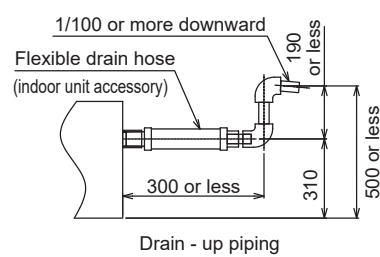
1. Drain pump kit : TCB-DP40DPE



Detail of Relay assembly

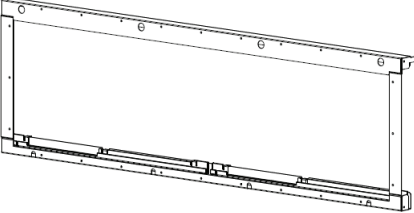
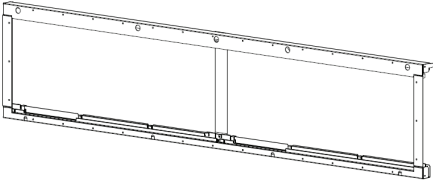
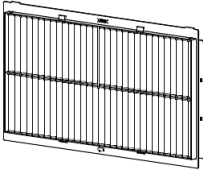
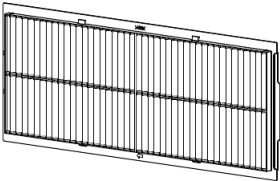


- The height of the drain pipe must be 500 mm or less from the underside of the indoor unit.
- Take the drain pipe out of the drain pipe joint with the indoor unit in 300 mm or less, and bend up the pipe vertically.
- Immediately after the pipe is bent up vertically, lay the pipe making a down.gradient.

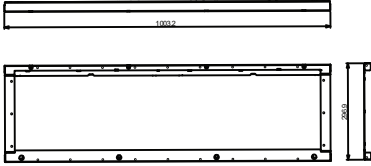
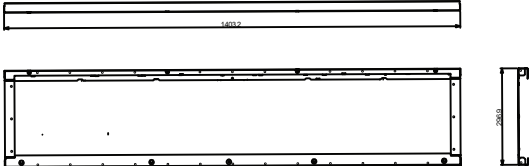
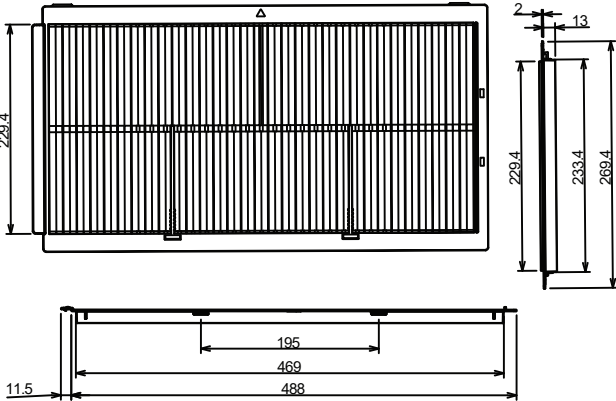
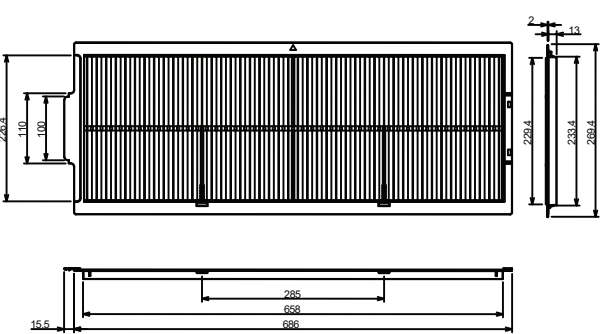


2. Long life filter kit

TCB-LK801D-E , TCB-LK1401D-E

	Model: TCB-LK801D-E		Model: TCB-LK1401D-E	
Parts nam e	Form	Quantit y	Form	Quantity
(1) Filter Frame		1		1
(2) Filter		2		2

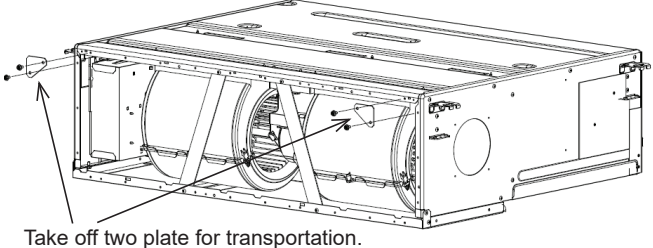
Dimension

Parts nam e	Model: TCB-LK801D-E	Model: TCB-LK1401D-E
(1) Filter Frame		
(2) Filter		

How to install

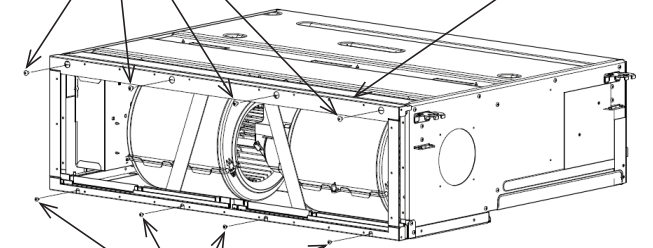
Install (1) Filter frame, (2) Filter, (3) Cover in indoor unit.

1. Before installation.



Take off two plate for transportation.

2. Install (1) Filter frame in indoor unit.



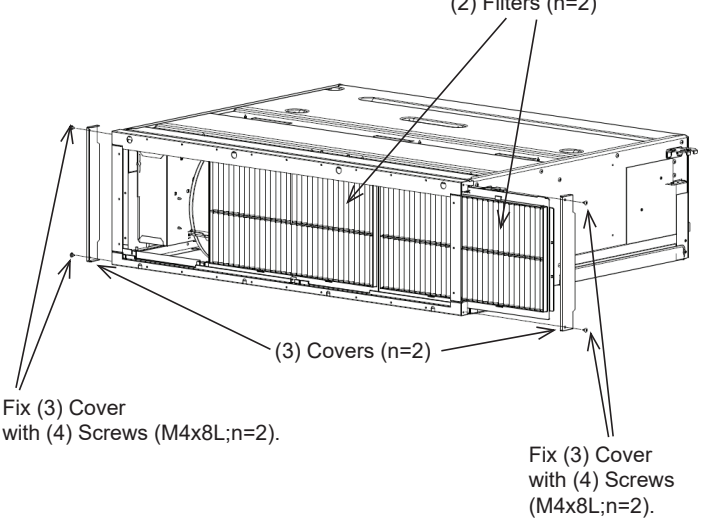
(1) Flange

Fix (1) Filter frame with (5) Screws (M5x8L;n=4).

Fix (1) Filter frame with (4) Screws (M4x8L;n=4).

- The flange gets one having black mold parts (filter rail) in the lower direction at the time of the installation of indoor unit.

3. Install (2) Filter and (3) Cover in (1) Filter frame



(2) Filters (n=2)

(3) Covers (n=2)

Fix (3) Cover with (4) Screws (M4x8L;n=2).

Fix (3) Cover with (4) Screws (M4x8L;n=2).

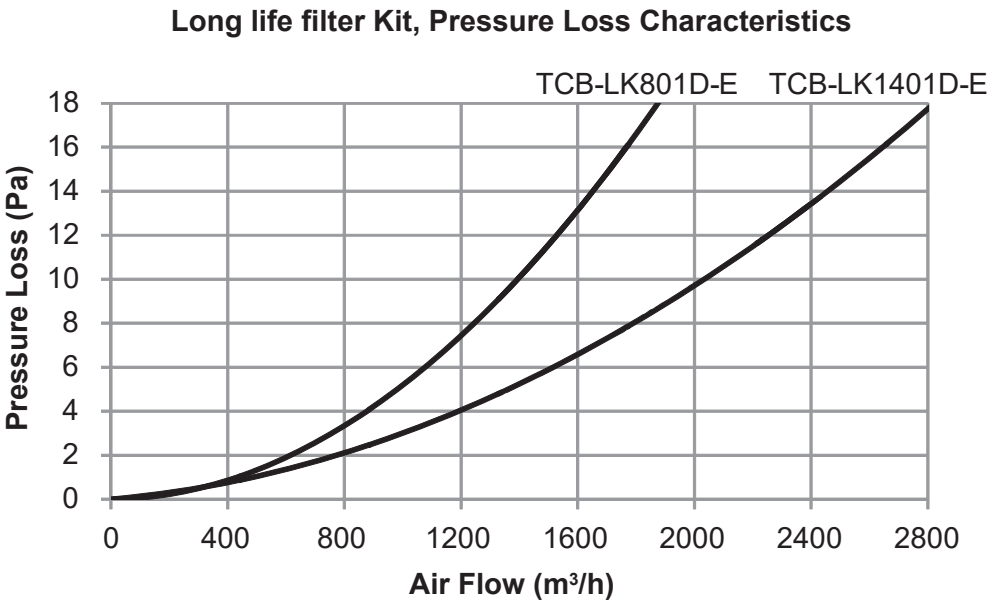
- Please confirm that two pieces of filters are connected .
- Please attach the cover with both side.

NOTE

- When you use too long screws at attach a suction duct (locally procured), you can not remove the filters by attack the screws.
- After installation completion, please confirm the putting on and taking off of the filter by all means.

External Pressure Loss Characteristic

When you use these “Long life filter Kit”, pressure-loss characteristics depends on Air Flow.



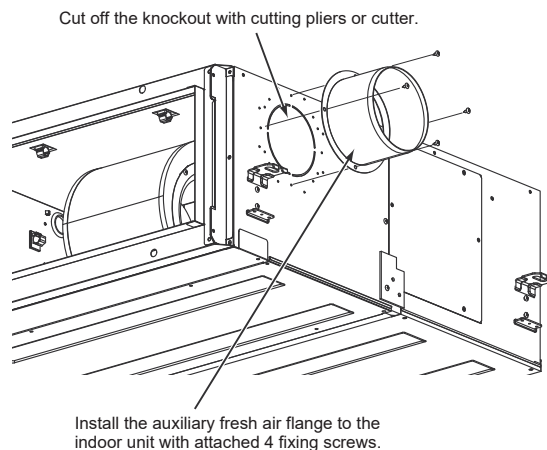
3. Auxiliary fresh air flange

Arrange a flexible duct (locally procured).

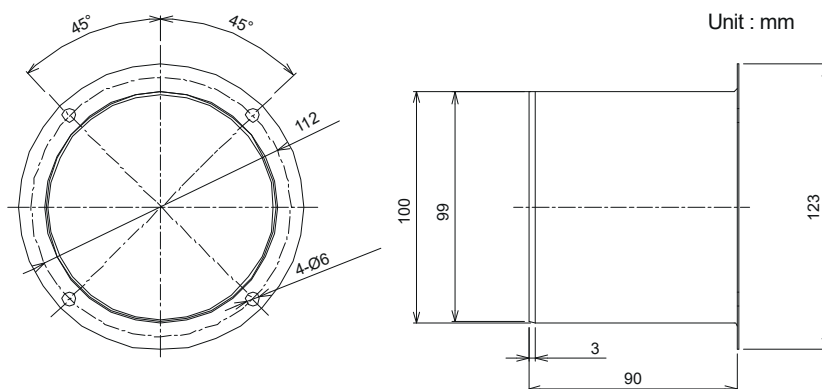
It is necessary to install auxiliary fresh air flange.

INSTALLATION PROCEDURE

- 1 Using the knockout of the indoor unit, as a marker, cut off the steel plate with cutting pliers or cutter.
- 2 Install the auxiliary fresh air flange to the indoor unit with attached 4 fixing screws.



DIMENSION



CAUTION

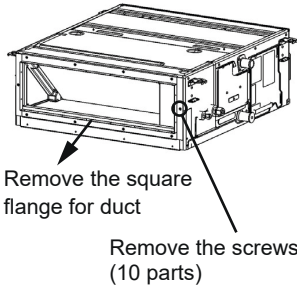
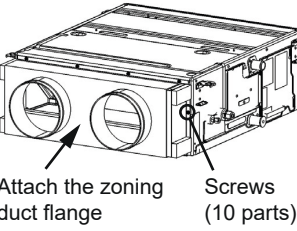
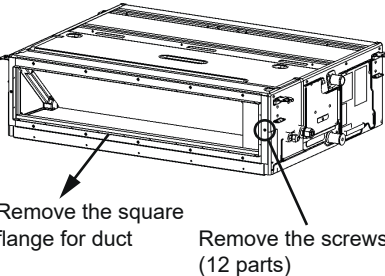
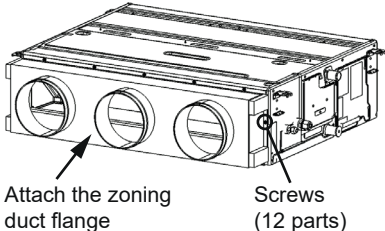
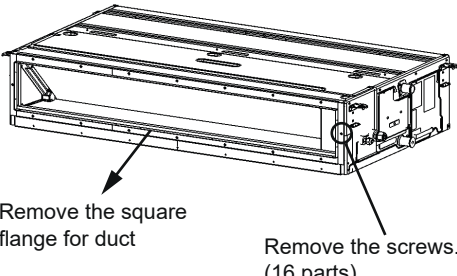
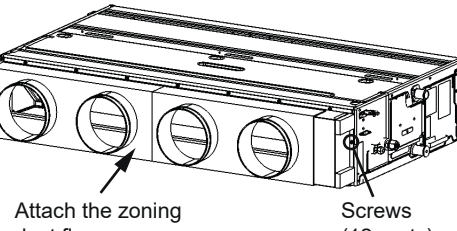
The fresh air shall be conditioned by heat reclaim ventilator or similar.

Emsure the fresh air volume is determined so that mixed suction air and fresh air maintain the operating temperature.

Recommended conditioned air temperature is 12°C to 30°C.

however, make a fresh air volume within 10% of standard.

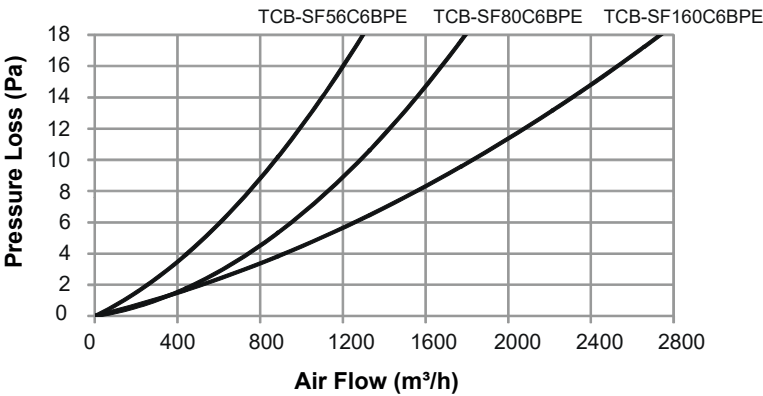
4. Spigot shaped flange

Zoning duct flange TCB-SF56C6BPE	Zoning duct flange TCB-SF80C6BPE	Zoning duct flange TCB-SF160C6BPE
 Remove the square flange for duct Remove the screws. (10 parts)  Attach the zoning duct flange Screws (10 parts)	 Remove the square flange for duct Remove the screws. (12 parts)  Attach the zoning duct flange Screws (12 parts)	 Remove the square flange for duct Remove the screws. (16 parts)  Attach the zoning duct flange Screws (12 parts)

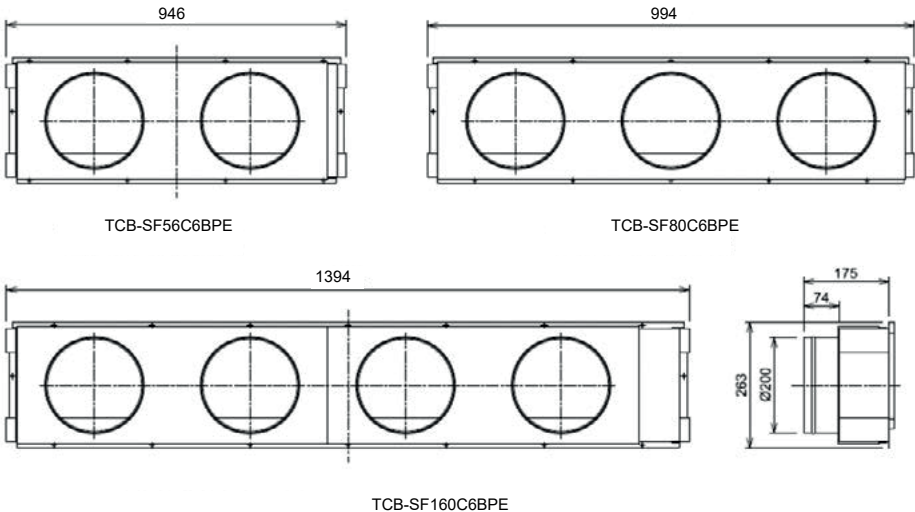
Remove screws on square flange for duct of indoor unit and attach the zoning duct flange with the screw.

External pressure loss characteristic

When you use these “Zoning duct flange” with Concealed Duct Type and High Static Pressure type, pressure-loss characteristics depends on Air Flow.

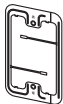


External dimension

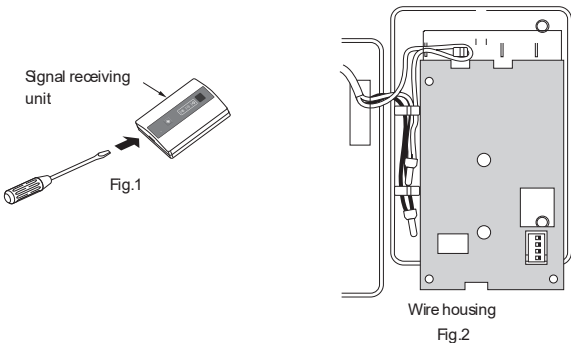


5. Wireless remote controller kit

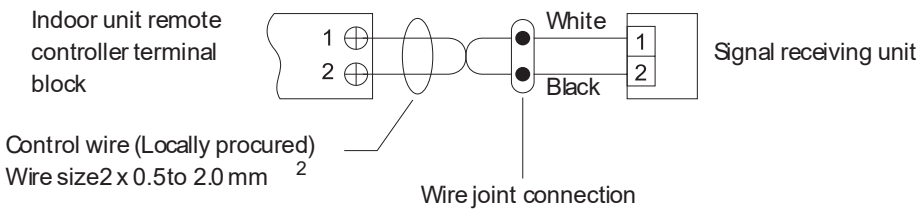
Below part are included.

Part name	Form	Quantity
(1) Signal receiving unit (provided 200 mm control wire)		1
(2) Mounting bracket		1
(3) Remote controller		1
(4) Remote controller holder		1

Connect the Signal receiving unit wiring (2-core control wire) with the wires extended from the indoor unit.
Refer to the Wiring of the Signal Receiving Unit.)
Be sure to determine the correct terminal numbers on the indoor unit when wiring the Signal receiving unit.
The Signal receiving unit will be damaged if high voltage (such as 220 - 240 V) is applied.



Wiring of the Signal Receiving Unit



Multiple Remote Controller Installation

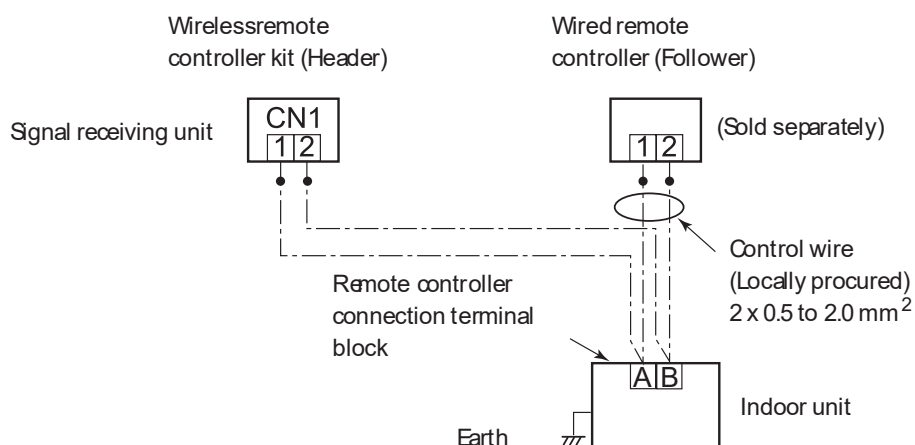
The control by two remote controllers is enabled by installing the wireless remote controller with the wired remote controller for an indoor unit. (Max. 2 remote controllers of wireless or wired are insatiable.) "2-remote controllers" means that one or multiple units are operated by the multiple remote controllers.

Note:

1. Upon confirmation of the terminal numbers of the indoor unit, connect the control wire without miswiring. (If applied 220 - 240 V, damage the unit.)
2. The multiple wireless remote controller kits cannot concurrently be used for an indoor unit.
3. When installing simultaneously the wireless remote controller with the wired remote controller, set one of them as the follower remote controller.
 - To use wired remote controller or Lite-vision plus remote controller as a follower, settings must be changed. For the details, refer to the installation manual of each controller.
 - To use the wireless remote controller as a follower, set bit 4 (Follower side) of DIP switch SW30 on the signal receiving unit P.C. board to ON.

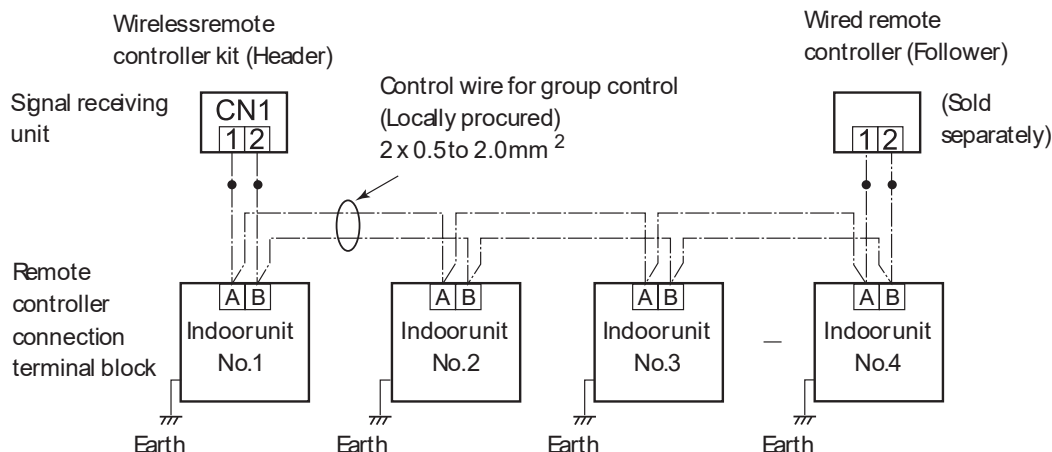
* 2-remote controllers

The indoor unit is operated if either wireless or wired remote controller is set as header or follower remote controller. (Total wire length: Within 400 m)



* Group control

Header and follower remote controllers are operable even if they are installed to any indoor unit. (Total wire length: Within 200 m)



Note : Maximum 8 or 16 units are connectable (depending on connction system TCC link / TU2C ink)

2-3. Compact 4-way Cassette Type

2-3-1. Specifications

2-3-2. Dimension

2-3-3. Wiring Diagrams

2-3-4. Sensible Capacity Table

2-3-5. Part Load Performance

2-3-6. Air Throw Distance Chart

2-3-7. Sound Characteristics (NC Curve)

2-3-8. Accessories

2-3-9. Appendix

2-3-1. Specification

Compact 4-way cassette Type

Double Twin combination

Model	Indoor unit		RAV	HM561MUTP-E/TR x4
	Outdoor unit		RAV	GM2243AT8P-E/TR
Cooling capacity			(kW)	20.00
Heating capacity			(kW)	22.40
Power supply			1Ph., 220V, 60Hz. 1Ph., 220V - 240V, 50Hz.	
Electrical characteristic	Cooling	Running current	(A)	10.90
		Power consumption	(W)	7.09
		Power factor	(-)	0.94
		EER	(-)	2.82
		SEER	(-)	6.59
	Heating	Running current	(A)	11.00
		Power consumption	(W)	7.13
		Power factor	(-)	0.94
		COP	(-)	3.03
		SCOP	(-)	4.07
Outer dimension	Main unit	Height	(mm)	256
		Width	(mm)	575
		Depth	(mm)	575
Total weight		(kg)	16	
Air flow volume		H/M/L	(m³ / h)	80/67/55
Sound pressure level		H/M+/M/L+/L	(dB·A)	44//42/39/36/35
Sound power level		H	(dB·A)	59
Connecting pipe			(mm)	Ø 28.6
		Liquid side	(mm)	Ø 12.7
Fan motor			(W)	940
Air filter			Standard filter (Long life filter)	
Controller			Optional (Sold separately)	

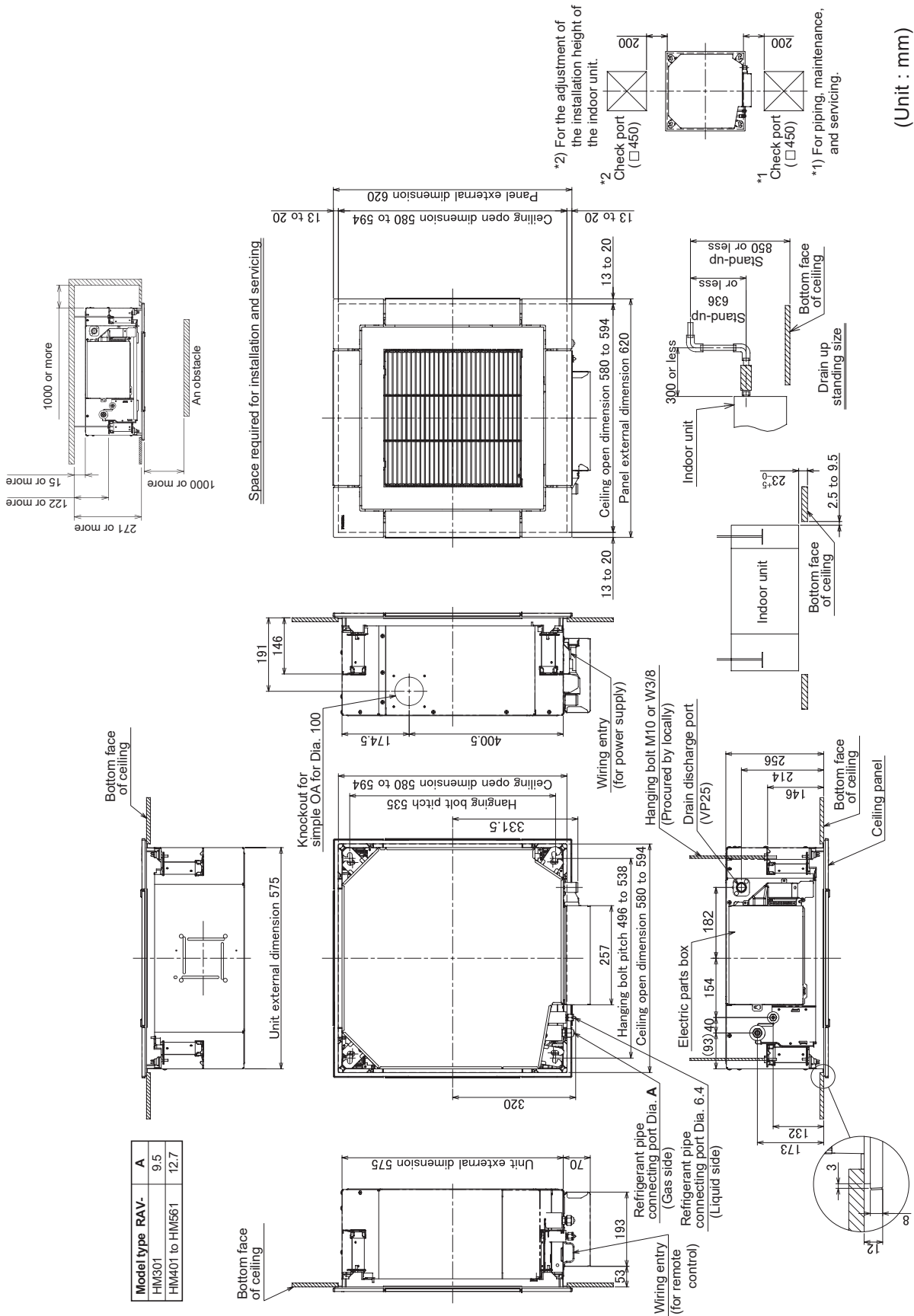
Note : Rated conditions

Cooling : Indoor air tempreature 27 °C DB/ 19°C WB, Outdoor 35 °C DB

Heating : Indoor air tempreature 20 °C DB, Outdoor 7°C DB / 6°C WB

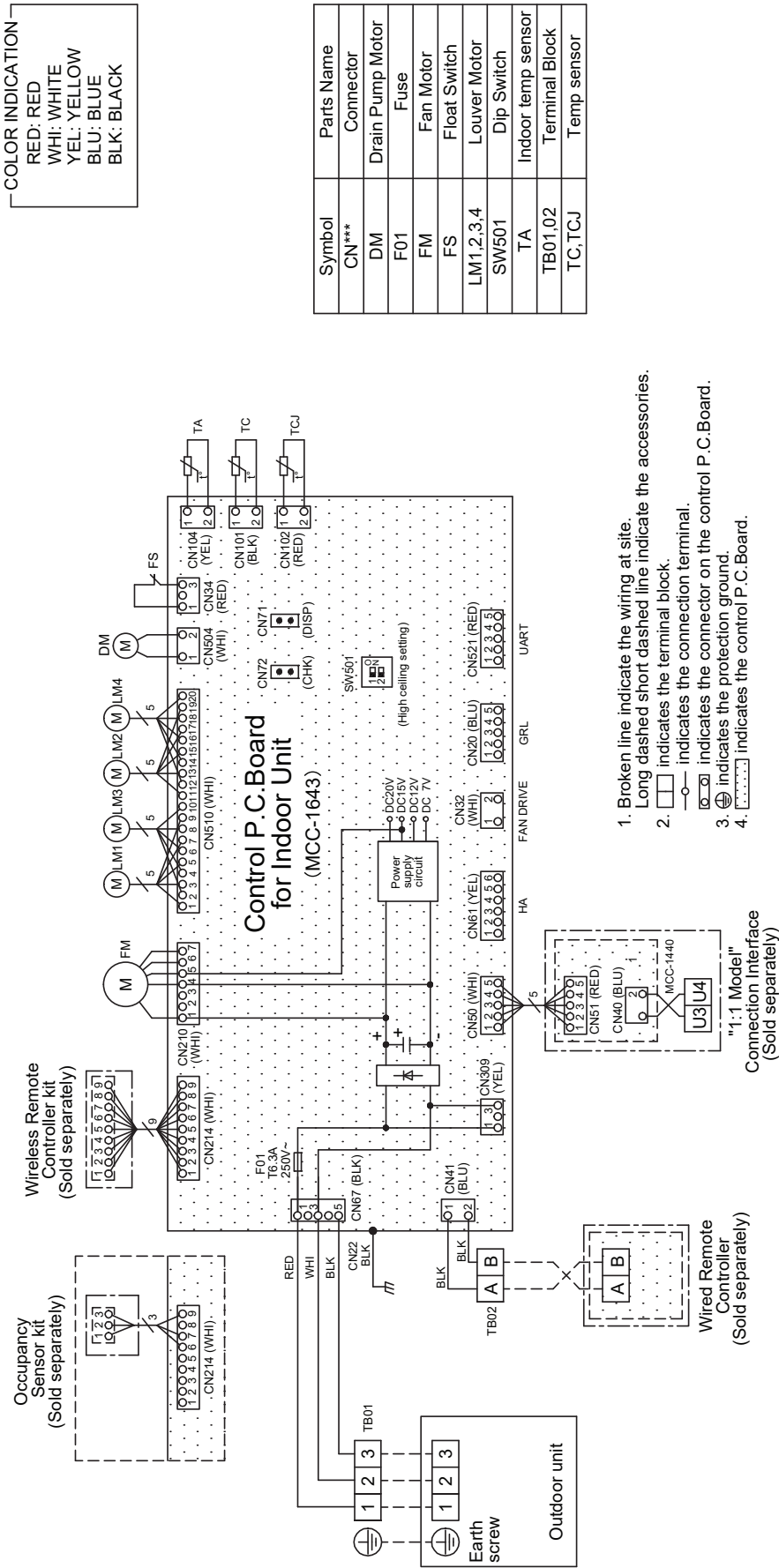
2-3-2. Dimension

RAV-HM561MUTP-E/TR



2-3-3. Wiring Diagrams

RAV-HM561MUTP-E/TR



2-3-4. Sensible Capacity Table

Product models : RAV-GM2243AT8P-E / RAV-HM561MUTP-E (Double twin)

Standard Condition

Indoor	27.0 °C DB / 19.0 °C WB
Outdoor	35.0 °C DB / 24.0 °C WB

Specification of product at standard condition.

Total Cooling Capacity (TC)	5.00 kW
Sensible Heat Capacity (SHC)	3.80 kW

Outdoor air temp.	Indoor Air temperature																	
	14.0 °C WB		15.0 °C WB		16.0 °C WB		17.0 °C WB		18.0 °C WB		19.0 °C WB		20.0 °C WB		22.0 °C WB		24.0 °C WB	
	20.0 °C DB		21.0 °C DB		23.0 °C DB		24.0 °C DB		26.0 °C DB		27.0 °C DB		28.0 °C DB		30.0 °C DB		32.0 °C DB	
°C DB	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
10.0	5.42	4.45	5.61	4.55	5.99	4.74	6.13	4.84	6.42	5.04	6.60	5.02	6.79	5.01	7.19	4.94	7.52	4.83
12.0	5.32	4.37	5.50	4.46	5.87	4.65	6.01	4.74	6.29	4.94	6.48	4.92	6.66	4.91	7.05	4.85	7.38	4.74
14.0	5.21	4.28	5.40	4.37	5.76	4.55	5.89	4.65	6.17	4.84	6.35	4.82	6.53	4.81	6.91	4.75	7.23	4.64
16.0	5.11	4.19	5.29	4.29	5.64	4.46	5.78	4.56	6.04	4.74	6.22	4.73	6.40	4.72	6.77	4.66	7.09	4.55
18.0	5.00	4.11	5.18	4.20	5.52	4.37	5.66	4.46	5.92	4.64	6.09	4.63	6.27	4.62	6.63	4.56	6.94	4.45
20.0	4.90	4.02	5.07	4.11	5.41	4.28	5.54	4.37	5.79	4.55	5.96	4.53	6.13	4.52	6.49	4.46	6.79	4.36
21.0	4.84	3.98	5.01	4.07	5.35	4.23	5.48	4.32	5.73	4.50	5.90	4.48	6.07	4.47	6.43	4.42	6.72	4.31
23.0	4.74	3.89	4.90	3.98	5.23	4.14	5.36	4.23	5.60	4.40	5.77	4.39	5.94	4.38	6.29	4.32	6.57	4.22
25.0	4.63	3.80	4.80	3.89	5.12	4.05	5.24	4.13	5.48	4.30	5.64	4.29	5.80	4.28	6.15	4.22	6.43	4.13
27.0	4.53	3.72	4.69	3.80	5.00	3.96	5.12	4.04	5.36	4.20	5.51	4.19	5.67	4.18	6.01	4.13	6.28	4.03
29.0	4.42	3.63	4.58	3.71	4.88	3.86	5.00	3.95	5.23	4.11	5.39	4.09	5.54	4.08	5.87	4.03	6.14	3.94
31.0	4.32	3.54	4.47	3.62	4.77	3.77	4.88	3.85	5.11	4.01	5.26	4.00	5.41	3.99	5.73	3.93	5.99	3.84
33.0	4.21	3.46	4.36	3.53	4.65	3.68	4.76	3.76	4.98	3.91	5.13	3.90	5.28	3.89	5.59	3.84	5.84	3.75
35.0	4.11	3.37	4.25	3.45	4.54	3.59	4.64	3.66	4.86	3.81	5.00	3.80	5.14	3.79	5.45	3.74	5.70	3.66
37.0	4.00	3.28	4.14	3.36	4.42	3.50	4.52	3.57	4.73	3.71	4.87	3.70	5.01	3.69	5.31	3.65	5.55	3.56
39.0	3.78	3.11	3.92	3.18	4.18	3.31	4.28	3.38	4.48	3.51	4.61	3.50	4.74	3.49	5.02	3.45	5.25	3.37
40.0	3.71	3.05	3.84	3.11	4.10	3.24	4.20	3.31	4.39	3.45	4.52	3.43	4.65	3.43	4.92	3.38	5.15	3.30
42.0	3.56	2.92	3.69	2.99	3.94	3.11	4.03	3.18	4.21	3.31	4.34	3.30	4.46	3.29	4.73	3.25	4.94	3.17
43.0	3.49	2.86	3.61	2.93	3.85	3.05	3.95	3.11	4.13	3.24	4.25	3.23	4.37	3.22	4.63	3.18	4.84	3.11
45.0	3.02	2.48	3.13	2.53	3.34	2.64	3.42	2.69	3.57	2.80	3.68	2.80	3.78	2.79	4.01	2.75	4.19	2.69
46.0	2.95	2.42	3.05	2.47	3.25	2.57	3.33	2.63	3.49	2.74	3.59	2.73	3.69	2.72	3.91	2.69	4.09	2.62

2-3-5. Part load performance

Combination <Rated condition>

Indoor: RAV-HM561MUTP-E x 4

Outdoor: RAV-GM2243AT8(J)P-E

Operation range	Cooling		Heating	
	Q	P	Q	P
MINIMUM	W 4600	1300	4600	1250
RATING	W 20000	7090	22400	7040

Cooling

Outdoor Temperature DB (°C)	Parts Load (%)																			
	100		90		80		70		60		50		40		30		20		10	
	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P
20	23850	5566	21465	4975	19080	4385	16695	3795	14310	3205	11925	2614	9540	2024	7155	1434	5486	1021	5486	1021
21	23593	5667	21234	5066	18875	4465	16515	3864	14156	3263	11797	2662	9437	2061	7078	1460	5426	1039	5426	1039
22	23337	5769	21003	5157	18669	4545	16336	3933	14002	3322	11668	2710	9335	2098	7001	1486	5367	1058	5367	1058
23	23080	5871	20772	5248	18464	4625	16156	4003	13848	3380	11540	2757	9232	2135	6924	1512	5308	1076	5308	1076
24	22823	5972	20541	5339	18259	4705	15976	4072	13694	3439	11412	2805	9129	2172	6847	1538	5249	1095	5249	1095
25	22567	6074	20310	5430	18053	4785	15797	4141	13540	3497	11283	2853	9027	2209	6770	1565	5190	1114	5190	1114
26	22310	6175	20079	5520	17848	4865	15617	4211	13386	3556	11155	2901	8924	2246	6693	1591	5131	1132	5131	1132
27	22053	6277	19848	5611	17643	4946	15437	4280	13232	3614	11027	2948	8821	2283	6616	1617	5072	1151	5072	1151
28	21797	6379	19617	5702	17437	5026	15258	4349	13078	3673	10898	2996	8719	2320	6539	1643	5013	1170	5013	1170
29	21540	6480	19386	5793	17232	5106	15078	4418	12924	3731	10770	3044	8616	2357	6462	1669	4954	1188	4954	1188
30	21283	6582	19155	5884	17027	5186	14898	4488	12770	3790	10642	3092	8513	2394	6385	1695	4895	1207	4895	1207
31	21027	6684	18924	5975	16821	5266	14719	4557	12616	3848	10513	3139	8411	2430	6308	1722	4836	1225	4836	1225
32	20770	6785	18693	6066	16616	5346	14539	4626	12462	3907	10385	3187	8308	2467	6231	1748	4777	1244	4777	1244
33	20513	6887	18462	6156	16411	5426	14359	4696	12308	3965	10257	3235	8205	2504	6154	1774	4718	1263	4718	1263
34	20257	6988	18231	6247	16205	5506	14180	4765	12154	4024	10128	3283	8103	2541	6077	1800	4659	1281	4659	1281
35	20000	7090	18000	6338	16000	5586	14000	4834	12000	4082	10000	3330	8000	2578	6000	1826	4600	1300	4600	1300
36	19743	7192	17769	6429	15795	5666	13820	4903	11846	4141	9872	3378	7897	2615	5923	1853	4541	1319	4541	1319
37	19487	7293	17538	6520	15589	5746	13641	4973	11692	4199	9743	3426	7795	2652	5846	1879	4482	1337	4482	1337
38	19230	7395	17307	6611	15384	5826	13461	5042	11538	4258	9615	3473	7692	2689	5769	1905	4423	1356	4423	1356
39	18431	6961	16588	6222	14745	5484	12902	4746	11059	4008	9216	3270	7373	2531	5529	1793	4239	1276	4239	1276
40	18072	6961	16265	6222	14458	5484	12650	4746	10843	4008	9036	3270	7229	2531	5422	1793	4157	1276	4157	1276
41	17713	6961	15941	6222	14170	5484	12399	4746	10628	4008	8856	3270	7085	2531	5314	1793	4074	1276	4074	1276
42	17353	6961	15618	6222	13883	5484	12147	4746	10412	4008	8677	3270	6941	2531	5206	1793	3991	1276	3991	1276
43	16994	6961	15294	6222	13595	5484	11896	4746	10196	4008	8497	3270	6797	2531	5098	1793	3909	1276	3909	1276
44	15070	5414	13563	4840	12056	4265	10549	3691	9042	3117	7535	2543	6028	1969	4521	1395	3466	993	3466	993
45	14711	5414	13240	4840	11768	4265	10297	3691	8826	3117	7355	2543	5884	1969	4413	1395	3383	993	3383	993
46	14351	5414	12916	4840	11481	4265	10046	3691	8611	3117	7176	2543	5740	1969	4305	1395	3301	993	3301	993

Heating

Outdoor Temperature DB (°C)	Parts Load (%)																			
	100		90		80		70		60		50		40		30		20		10	
	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P
-27	6069	2831	5462	2538	4855	2245	4248	1952	3641	1659	3034	1366	2428	1073	1821	780	1246	503	1246	503
-26	6444	2951	5800	2645	5155	2340	4511	2035	3866	1729	3222	1424	2578	1118	1933	813	1323	524	1323	524
-25	6819	3070	6137	2752	5455	2434	4774	2117	4092	1799	3410	1481	2728	1164	2046	846	1400	545	1400	545
-24	7195	3189	6475	2859	5756	2529	5036	2199	4317	1869	3597	1539	2878	1209	2158	879	1477	566	1477	566
-23	7570	3308	6813	2966	6056	2624	5299	2281	4542	1939	3785	1596	3028	1254	2271	911	1555	587	1555	587
-22	7945	3428	7151	3073	6356	2718	5562	2363	4767	2009	3973	1654	3178	1299	2384	944	1632	609	1632	609
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-20	8696	3666	7826	3287	6957	2907	6087	2528	5217	2148	4348	1769	3478	1389	2609	1010	1786	651	1786	651
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-15	10688	4181	9620	3748	8551	3315	7482	2883	6413	2450	5344	2017	4275	1585	3207	1152	2195	742	2195	742
-14	10994	4308	9895	3862	8795	3416	7696	2971	6596	2525	5497	2079	4398	1633	3298	1187	2258	765	2258	765
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-11	11911	4691	10720	4205	9529	3720	8338	3234	7147	2749	5956	2263	4764	1778	3573	1292	2446	833	2446	833
-10	12217	4818	10995	4319	9774	3821	8552	3322	7330	2823	6108	2325	4887	1826	3665	1327	2509	855	2509	855
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4	16764	6398	15087	5736	13411	5073	11735	4411	10058	3749	8382	3087	6705	2425	5029	1763	3443	1136	3443	1136
5	17030	6481	15327	5811	13624	5140	11921	4469	10218	3798	8515	3127	6812	2457	5109	1786	3497	1151	3497	1151
6	17822	6931	19640	6214	17458	5496	15275	4779	13093	4062	10511	3344	8729	2627	6547	1916	4481	1231	4481	1231
7	22400	7040	20160	6311	17920	5583	15680	4854	13440	4125	11200	3397	8960	2668	6720	1940	4600	1250	4600	1250
8	22978	7149	20680	6409	18382	5669	16085	4929	13787	4189	11489	3449	9191	2710	6893	1970	4719	1269	4719	1269
9	23556	7258	21201	6507	18845	5756	16489	5004	14134	4253	11778	3502	9422	2751	7067	2000	4837	1289	4837	1289
10	24134	7367	21721	6605	19307	5842	16894	5080	14481	4317	12067	3555	9654	2792	7240	2030	4956	1308	4956	1308
11	24712	7476	22241	6702	19770	5929	17299	5155	14827	4381	12356	3607	9885	2833	7414	2060	5075	1327	5075	1327
12	25290	7585	22761	6800	20232	6015	17703	5230	15174	4445	12645	3660	10116	2875	7587	2090	5194	1347	5194	1347
13	25868	7694	23282	6898	20695	6101	18108	5305	15521	4509	12934	3712	10347	2916	7761	2120	5312	1366	5312	1366
14	26446	7803	23802	6995	21157	6188	18513	5380	15868	4573	13223	3765	10579	2957	7934	2150	5431	1385	5431	1385
15	27025	7912	24322	7093	21620	6274	18917	5455	16215	4637	13512	3818	10810	2999	8107	2180	5550	1405	5550	1405
16	27603	8021	24842	7191	22082	6361	19322	5531	16562	4700	13801	3870	11041	3040	8281	2210	5668	1424	5668	1424
17	28181	8130	25363	7289	22545	6447	19726	5606	16908	4764	14090	3923	11272	3081	8454	2240	5787	1444	5787	1444
18	28759	8239	25883	7386	23007	6534	20131	5681	17255	4828	14379	3975	11503	3123	8628	2270	5906	1463	5906	1463
19	29337	8348	26403	7484	23469	6620	20536	5756	17602	4892	14668	4028	11735	3164	8801	2300	6025	1482	6025	1482
20	29915	8457	26923	7582	23932	6706	20940	5831	17949	4956	14957	4081	11966	3205	8974	2330	6143	1502	6143	1502
21	30493	8566	27444	7680	24394	6793	21345	5906	18296	5020	15246	4133	12197	3247	9148	2360	6262	1521	6262	1521
22	31071	8675	27964	7777	24857	6879	21750	5982	18643	5084	15535	4186	12428	3288	9321	2390	6381	1540	6381	1540
23	31649	8784	28484	7875	25319	6966	22154	6057	18989	5148	15825	4238	12660	3329	9495	2420	6499	1560	6499	1560
24	32227	8893	29004	7973	25782	7052	22559	6132	19336	5211	16114	4291	12891	3371	9668	2450	6618	1579	6618	1579

Combination <Capacity range (Max)>

Indoor: RAV-HM561MUT-E x 4
Outdoor: RAV-GM2243AT8(J)P-E

Operation range		Cooling		Heating	
		Q	P	Q	P
MINIMUM	W	4600	1300	4600	1250
RATING	W	20000	7090	22400	7040
MAXIMUM	W	22400	8960	25000	8330

Cooling

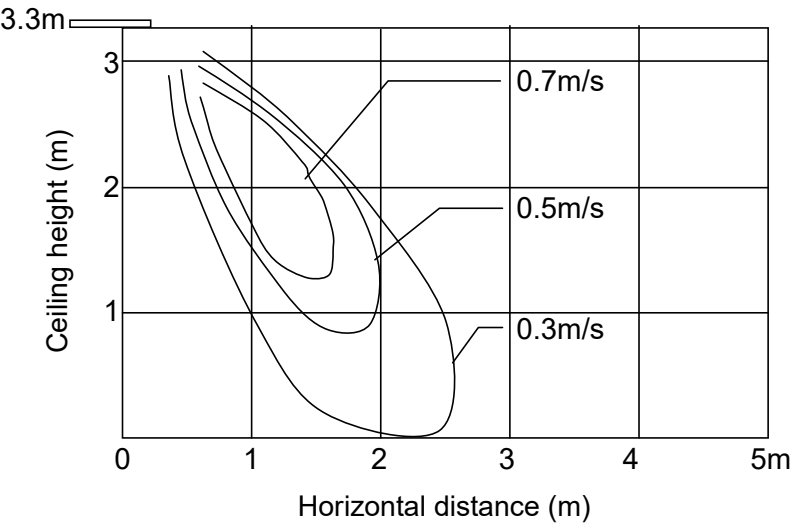
Outdoor Temperature DB (°C)	Parts Load (%)																			
	100		90		80		70		60		50		40		30		20		10	
	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P
20	26801	7085	24120	6323	21440	5560	18760	4798	16080	4036	13400	3274	10720	2512	8040	1749	5504	1028	5504	1028
21	26512	7214	23861	6438	21210	5662	18558	4886	15907	4110	13256	3334	10605	2557	7954	1781	5444	1047	5444	1047
22	26224	7344	23601	6554	20979	5764	18357	4973	15734	4183	13112	3393	10489	2603	7867	1813	5385	1065	5385	1065
23	25935	7473	23342	6669	20748	5865	18155	5061	15561	4257	12968	3453	10374	2649	7781	1845	5326	1084	5326	1084
24	25647	7602	23082	6784	20517	5967	17953	5149	15388	4331	12823	3513	10259	2695	7694	1877	5267	1103	5267	1103
25	25358	7732	22823	6900	20287	6068	17751	5236	15215	4404	12679	3573	10143	2741	7608	1909	5208	1122	5208	1122
26	25070	7861	22563	7015	20056	6170	17549	5324	15042	4478	12535	3632	10028	2787	7521	1941	5148	1141	5148	1141
27	24782	7990	22303	7131	19825	6271	17347	5412	14869	4552	12391	3692	9913	2833	7434	1973	5089	1159	5089	1159
28	24493	8120	22044	7246	19595	6373	17145	5499	14696	4626	12247	3752	9797	2878	7348	2005	5030	1178	5030	1178
29	24205	8249	21784	7362	19364	6474	16943	5587	14523	4699	12102	3812	9682	2924	7261	2037	4971	1197	4971	1197
30	23916	8379	21525	7477	19133	6576	16741	5674	14350	4773	11958	3872	9567	2970	7175	2069	4911	1216	4911	1216
31	23628	8508	21265	7593	18902	6677	16540	5762	14177	4847	11814	3931	9451	3016	7088	2101	4852	1234	4852	1234
32	23339	8637	21006	7708	18672	6779	16338	5850	14004	4920	11670	3991	9336	3062	7002	2133	4793	1253	4793	1253
33	23051	8767	20746	7824	18441	6880	16136	5937	13831	4994	11526	4051	9220	3108	6915	2165	4734	1272	4734	1272
34	22763	8896	20486	7939	18210	6982	15934	6025	13658	5068	11381	4111	9105	3154	6829	2197	4674	1291	4674	1291
35	22400	8960	20160	7996	17920	7032	15680	6068	13440	5104	11200	4140	8960	3176	6720	2212	4600	1300	4600	1300
36	21971	8960	19774	7996	17577	7032	15379	6068	13182	5104	10985	4140	8788	3176	6591	2212	4512	1300	4512	1300
37	21549	8960	19394	7996	17239	7032	15084	6068	12929	5104	10774	4140	8620	3176	6465	2212	4425	1300	4425	1300
38	21134	8960	19021	7996	16908	7032	14794	6068	12681	5104	10567	4140	8454	3176	6340	2212	4340	1300	4340	1300
39	17568	5973	15811	5331	14054	4688	12298	4045	10541	3403	8784	2760	7027	2118	5270	1475	3608	867	3608	867
40	17225	5973	15503	5331	13780	4688	12058	4045	10335	3403	8613	2760	6890	2118	5168	1475	3537	867	3537	867
41	16883	5973	15194	5331	13506	4688	11818	4045	10130	3403	8441	2760	6753	2118	5065	1475	3467	867	3467	867
42	16540	5973	14886	5331	13232	4688	11578	4045	9924	3403	8270	2760	6616	2118	4962	1475	3397	867	3397	867
43	16198	5973	14578	5331	12958	4688	11338	4045	9719	3403	8099	2760	6479	2118	4859	1475	3326	867	3326	867
44	14364	4646	12928	4146	11491	3646	10055	3146	8618	2647	7182	2147	5746	1647	4309	1147	2950	674	2950	674
45	14021	4646	12619	4146	11217	3646	9815	3146	8413	2647	7011	2147	5609	1647	4206	1147	2879	674	2879	674
46	13679	4646	12311	4146	10943	3646	9575	3146	8207	2647	6839	2147	5472	1647	4104	1147	2809	674	2809	674

Heating

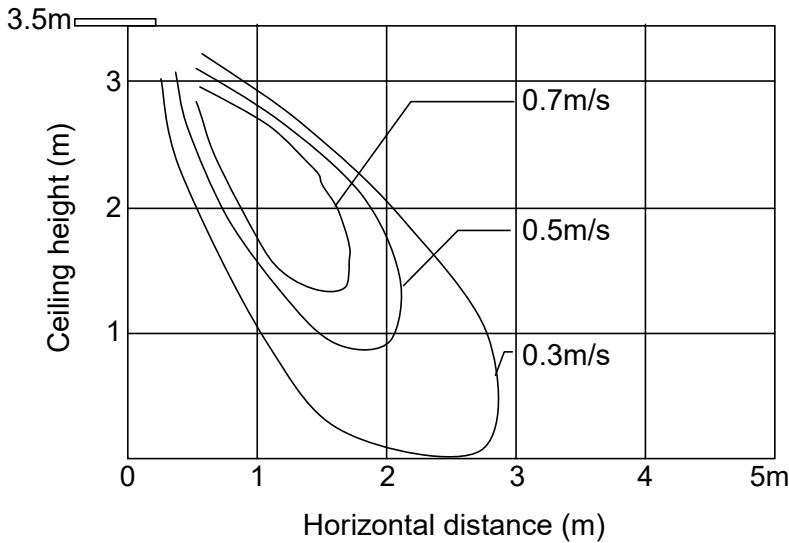
Outdoor DB (°C)	Parts Load (%)																			
	100		90		80		70		60		50		40		30		20		10	
	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P
-27	6700	3672	6030	3290	5360	2907	4690	2525	4020	2142	3350	1760	2680	1377	2010	995	1340	612	1233	551
-26	7114	3827	6403	3428	5691	3030	4980	2631	4269	2232	3557	1834	2846	1435	2134	1037	1423	638	1309	574
-25	7529	3981	6776	3567	6023	3152	5270	2737	4517	2323	3764	1908	3011	1493	2259	1078	1506	664	1385	597
-24	7943	4136	7149	3705	6354	3274	5560	2844	4766	2413	3971	1982	3177	1551	2383	1120	1589	690	1461	621
-23	8357	4291	7521	3844	6686	3397	5850	2950	5014	2503	4179	2056	3343	1609	2507	1162	1671	715	1538	644
-22	8771	4445	7894	3982	7017	3519	6140	3056	5263	2593	4386	2130	3509	1667	2631	1204	1754	741	1614	667
-21	9186	4600	8267	4121	7349	3642	6430	3162	5511	2683	4593	2204	3674	1725	2756	1246	1837	767	1690	690
-20	9600	4754	8640	4259	7680	3764	6720	3269	5760	2774	4800	2278	3840	1783	2880	1288	1920	793	1766	713
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-18	10480	5022	9432	4498	8384	3975	7336	3452	6288	2929	5240	2406	4192	1883	3144	1360	2096	837	1928	754
-17	10920	5155	9828	4618	8736	4081	7644	3544	6552	3007	5460	2470	4368	1933	3276	1396	2184	859	2009	774
-16	11360	5289	10224	4738	9088	4187	7952	3636	6816	3085	5680	2534	4544	1983	3408	1433	2272	882	2090	794
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1	17540	7931	15786	7105	14032	6279	12278	5453	10524	4627	8770	3801	7016	2975	5262	2149	3508	1322	3227	1190
2	17920	8080	16128	7238	14336	6397	12544	5555	10752	4713	8960	3872	7168	3030	5376	2189	3584	1347	3297	1212
3	18380	8246	16542	7387	14674	6529	12866	5670	11028	4811	9190	3952	7322	3093	5514	2234	3676	1375	3382	1237
4	18846	8413	16961	7537	15077	6660	13192	5784	11307	4908	9423	4032	7538	3155	5654	2279	3769	1403	3468	1262
5	19317	8580	17385	7686	15454	6792	13522	5899	11590	5005	9658	4111	7727	3218	5795	2324	3863	1430	3554	1287
6	24355	8201	21919	7347	19484	6493	17048	5638	14613	4784	12177	3930	9742	3076	7306	2222	4871	1367	4481	1231
7	25000	8330	22500	7462	20000	6595	17500	5727	15000	4859	12500	3992	10000	3124	7500	2256	5000	1389	4600	1250
8	25645	8459	23081	7578	20516	6697	17952	5816	15387	4935	12823	4054	10258	3172	7694	2291	5129	1410	4719	1269
9	26290	8588	23661	7693	21032	6799	18403	5904	15774	5010	13145	4115	10516	3221	7887	2326	5258	1432	4837	1289
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12	28226	8975	25403	8040	22581	7105	19758	6170	16935	5236	14113	4301	11290	3366	8468	2431	5645	1496	5194	1347
13	28871	9104	25984	8156	23097	7207	20210	6259	17323	5311	14435	4363	11548	3414	8661	2466	5774	1518	5312	1366
14	29566	9235	26569	8271	23613	7315	20666	6348	17710	5391	14757	4425	11806	3467	8847	2497	5903	1540	5439	1385
15	23342	9325	21008	8470	18674	7421	16340	3661	14005	3106	11671	2552	9337	1997	7003	1442	4668	888	4295	799
16	23717	9325	21345	8570	18973	7421	16602	3661	14230	3106	11858	2552	9487	1997	7115	1442	4743	888	4364	799
17	24090	9325	21681	8670	19272	7421	16863	3661	14454	3106	12045	2552	9636	1997	7227	1442	4818	888	4432	799
18	24460	9325	22014	8770	19568	7421	17122	3661	14676	3106	12230	2552	9784	1997	7338	1442	4892	888	4501	799
19	24830	9325	22347	8870	19864	7421	17381	3661	14898	3106	12415	2552	9932	1997	7449	1442	4966	888	4569	799
20	25197	9325	22678	8970	20158	7421	17638	3661	15118	3106	12599	2552	10079	1997	7559	1442	5039	888	4636	799
21	25563	9325	23007	9070	20451	7421	17894	3661	15338	3106	12782	2552	10225	1997	7669	1442	5113	888	4704	799
22	25928	9325	23335	9170	20742	7421	18150	3661	15557	3106	12964	2552	10371	1997	7778	1442	5186	888	4771	799
23	26291	9325	23662	9270	21033	7421	18404	3661	15775	3106	13146	2552	10516	1997	7887	1442	5258	888	4838	799
24	26653	9325	23988	9370	21322	7421	18657	3661	15992	3106	13326	2552	10661	1997	7996	1442	5331	888	4904	799

2-3-6. Air Throw Distance Chart

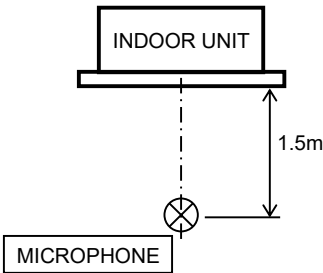
RAV-HM561MUT-E/TR



RAV-HM561MUT-E/TR (High ceiling mode)

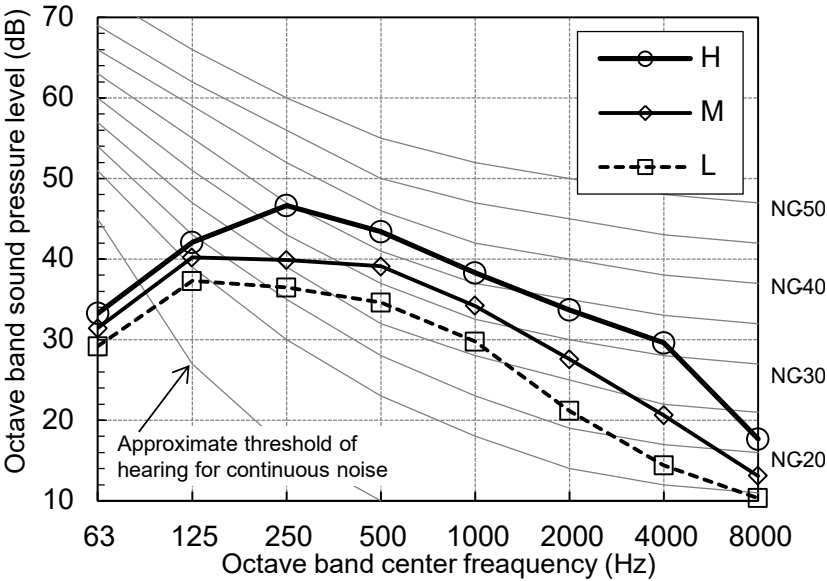


2-3-7. Sound Characteristics (NC curve)

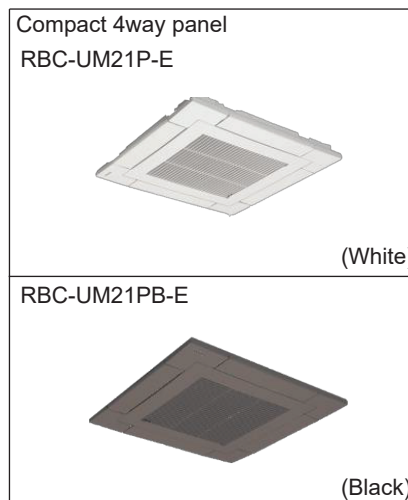
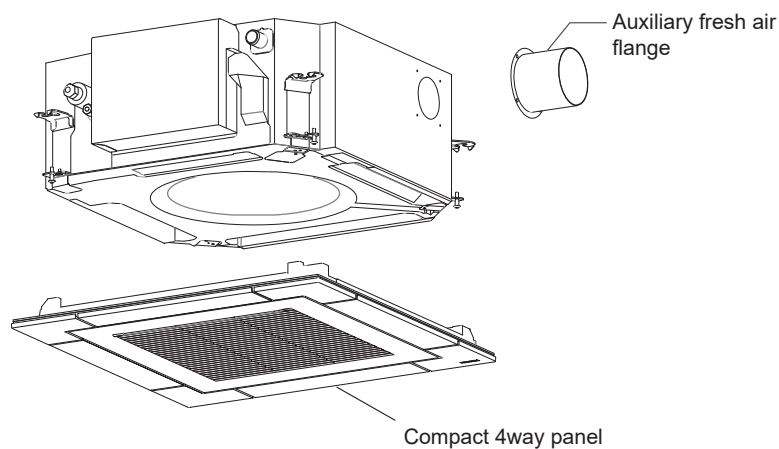


RAV-HM561MUT-E/TR

Fan tap	H	M	L
Sound pressure level (dB(A))	44	39	35



2-3-8. Accessories



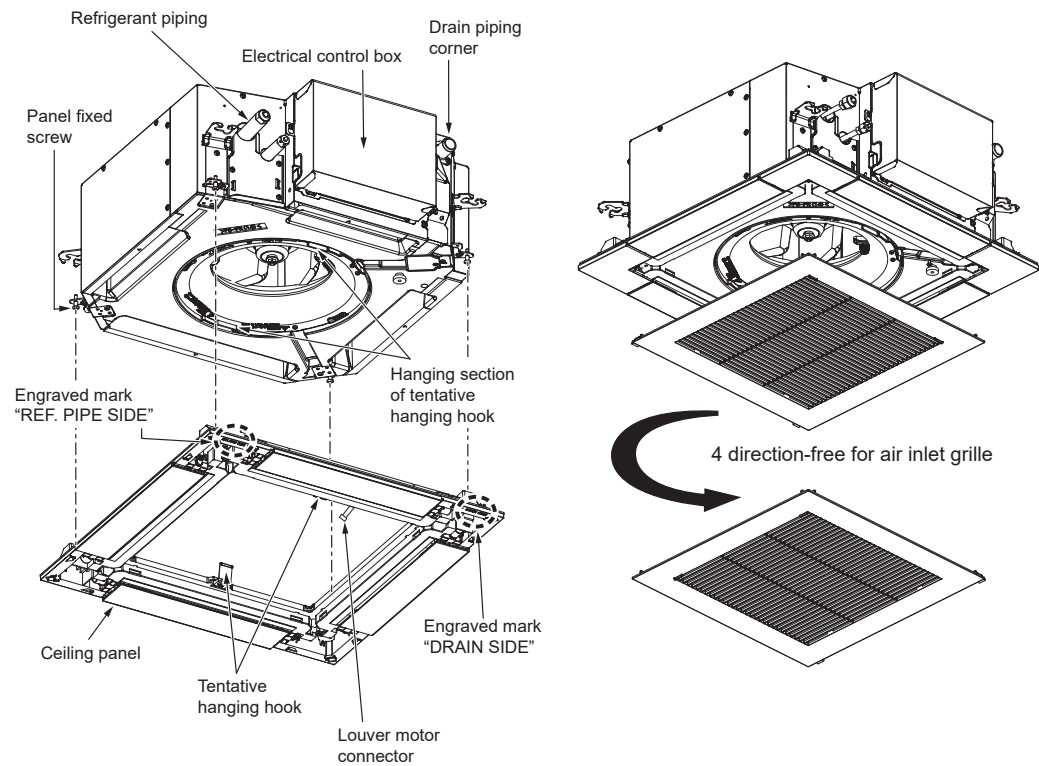
No	Type	Model Name	Qty/unit
1	1.1 Compact 4way panel (White)	RBC-UM21P-E	1
	1.2 Compact 4way panel (Black)	RBC-UM21PB-E	1
2	Auxiliary fresh air flange	TCB-FF101URE2	1
3	Wireless RC (White)	RBC-AXU31UMP-E	1
	3.1 Wireless RC (Black)	RBC-AXU31UMPB-E	1
	Occupancy sensor kit	TCB-SIR41UMP-E	1
	3.2 Standard wired remote controller	RBC-ASCU11-E	1
	3.3 Wired remote controller	RBC-AMTU31-E	1
	3.4 Premium wired remote controller with bluetooth	RBC-AWSU52-E	1
	Premium wired remote without bluetooth	RBC-AMSU52-E	1

Combination pattern		Compact 4way panel (White) RBC-UM21P-E	Compact 4way panel (Black) RBC-UM21PB-E	Wireless RC (White) RBC-AXU31UMP-E	Wireless RC (Black) RBC-AXU31UMPB-E	Occupancy sensor kit TCB-SIR41UMP-E	Standard wired remote controller RBC-ASCU11-E	Wired remote controller RBC-AMTU31-E	Premium wired remote controller with bluetooth RBC-AWSU52-E	Premium wired remote without bluetooth RBC-AMSU52-E	Auxiliary fresh air flange TCB-FF101URE2
Ceiling Panel	Compact 4way panel (White)	RBC-UM21P-E		OK		OK	OK	OK	OK	OK	OK
	Compact 4way panel (Black)	RBC-UM21PB-E			OK		OK	OK	OK	OK	OK
Wireless RC (White)		RBC-AXU31UMP-E	OK			OK	OK	OK	OK	OK	OK
Wireless RC (Black)		RBC-AXU31UMPB-E		OK			OK	OK	OK	OK	OK
Occupancy sensor kit		TCB-SIR41UMP-E	OK		OK		OK	OK	OK	OK	OK
Standard wired remote controller		RBC-ASCU11-E	OK	OK	OK	OK		OK	OK	OK	OK
Wired remote controller		RBC-AMTU31-E	OK	OK	OK	OK	OK		OK	OK	OK
Premium wired remote controller with bluetooth		RBC-AWSU52-E	OK	OK	OK	OK	OK	OK		OK	OK
Premium wired remote without bluetooth		RBC-AMSU52-E	OK	OK	OK	OK	OK	OK	OK		OK
Auxiliary fresh air flange		TCB-FF101URE2	OK	OK	OK	OK	OK	OK	OK	OK	

2-3-9. Appendix

1.Ceiling Panel

1.1 Compact 4way panel (white) : RBC-UM21P-E



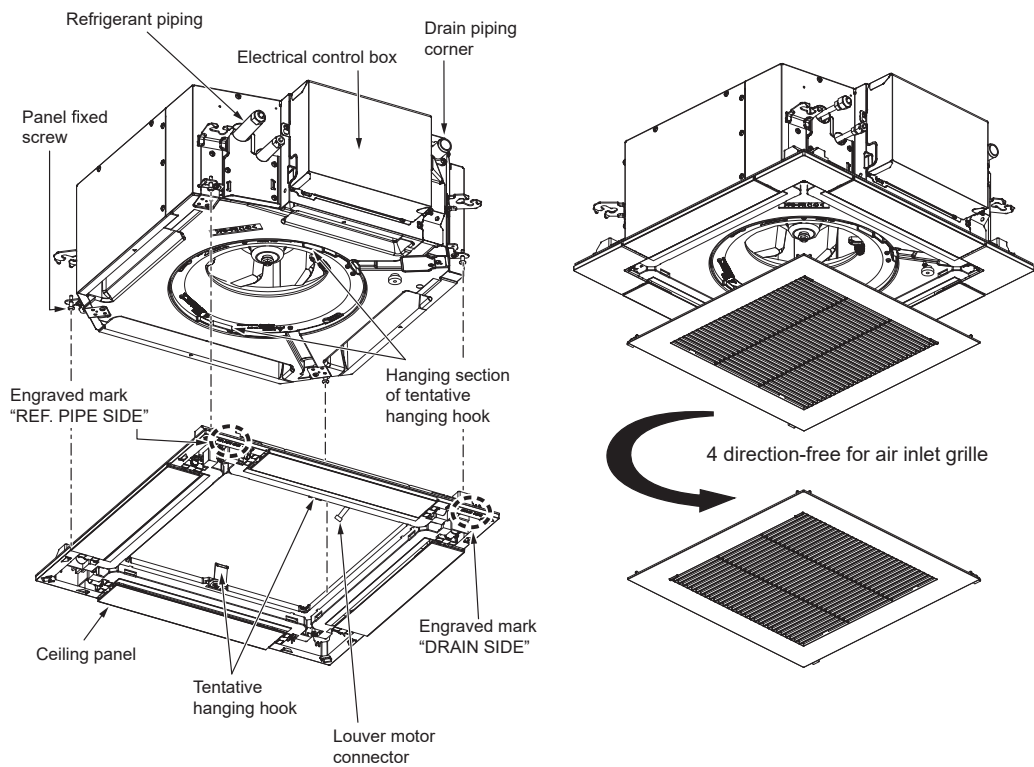
Wireless RC (White) : TCB-AXU31UMP-E



Occupancy sensor kit : TCB-SIR41UMP-E



1.2 Compact 4way panel (Black) : RBC-UM21PB-E



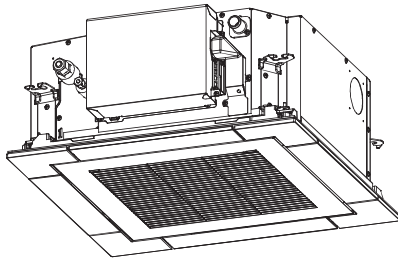
Wireless RC (Black) : TCB-AXU31UMPB-E



2.Auxiliary fresh air flange : TCB-FF101URE2

Installation

1. Using the knockout of the indoor unit main body, as a marker, cut off the flange with the heat insulator (styrol) with cutting pliers or cutter.

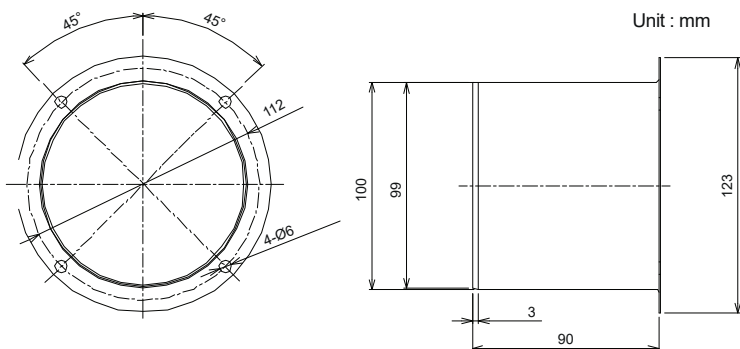


NOTE

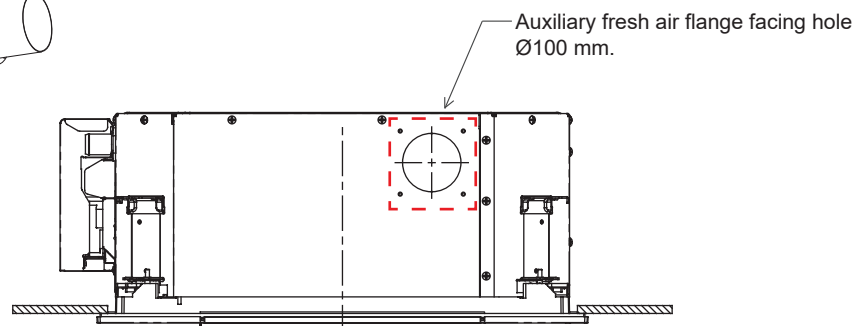
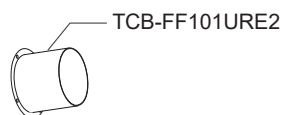
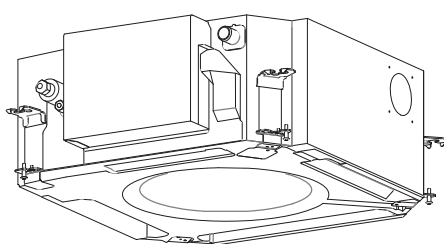
When cutting off the styrol inside, be careful not to insert the cutter blade deeper than 30 mm. (Damage to the drain pan inside can cause water leakage.) Wear safety globes to carry out these works. Do not attempt with bare hands.

2. A gap between the styrol and steel plate may cause a trouble such as condensation. Be sure to attach the attached heat insulator A first with it aligned to the screw hole, and then attach B, according to the right figure.
3. Install the auxiliary fresh air flange to the indoor unit main body with attached 4 fixing screws.

Dimension



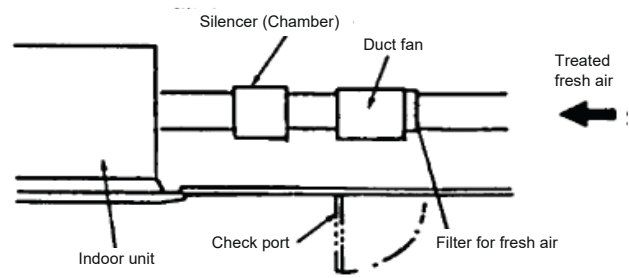
Installation



Duct fan

In order to take fresh air, provide the duct fan separately.

1. Install the filter for fresh air
2. Provide the check port beneath the duct fan for maintenance.
3. Provide the silencer to prevent the effect of noise.



Caution

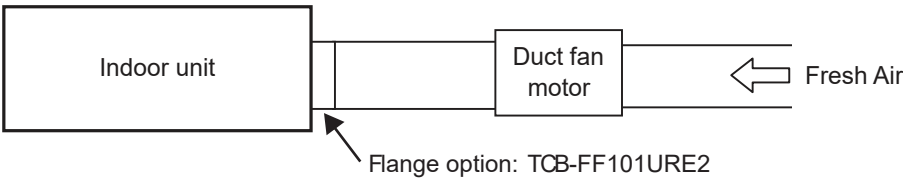
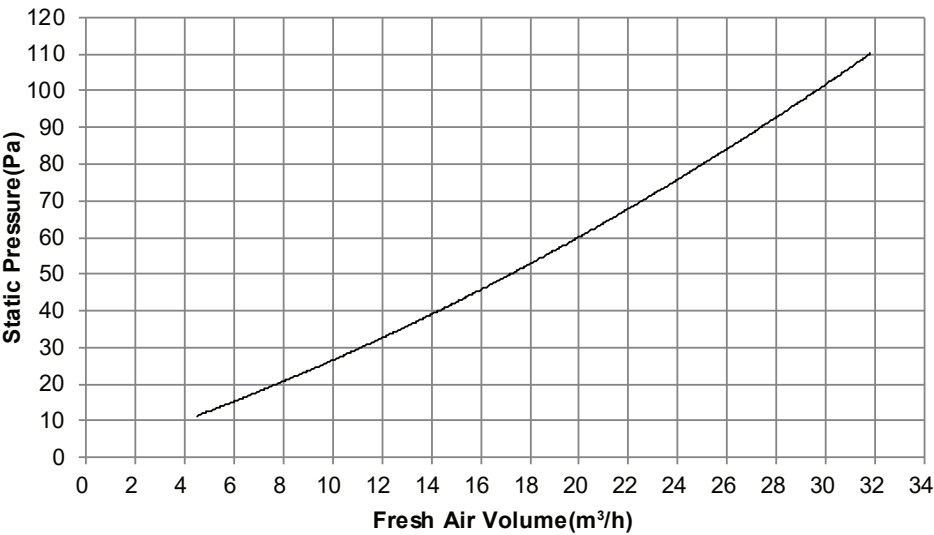
The fresh air shall be conditioned by a heat reclaim ventilator or similar.
Ensure the fresh air volume is determined so that mixed suction air and fresh air can maintain the operating temperature.

*1.Recommended conditioned air temperature is 12 °C to 30 °C.

However, Make a fresh air volume within 2% of standard.

Model name		RAV-HM561MUTP-E
Standard air flow	m³/h	798

- Install a filter within the fresh air duct.
(Fresh air does not pass through the filter of Indoor unit.)
- Insulate the fresh air duct.
- Electrically connect the fan of the Heat exchanger unit and the Indoor unit to a single isolator.

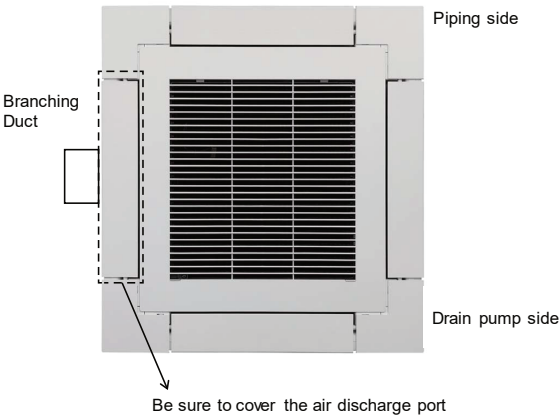
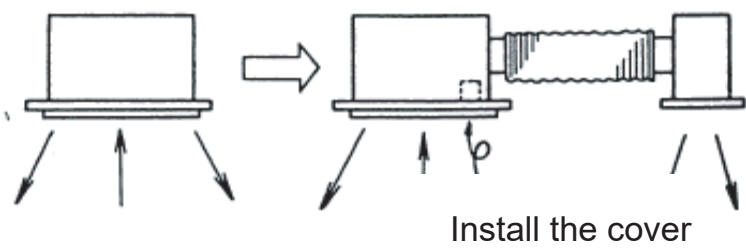


Inter - lock circuit

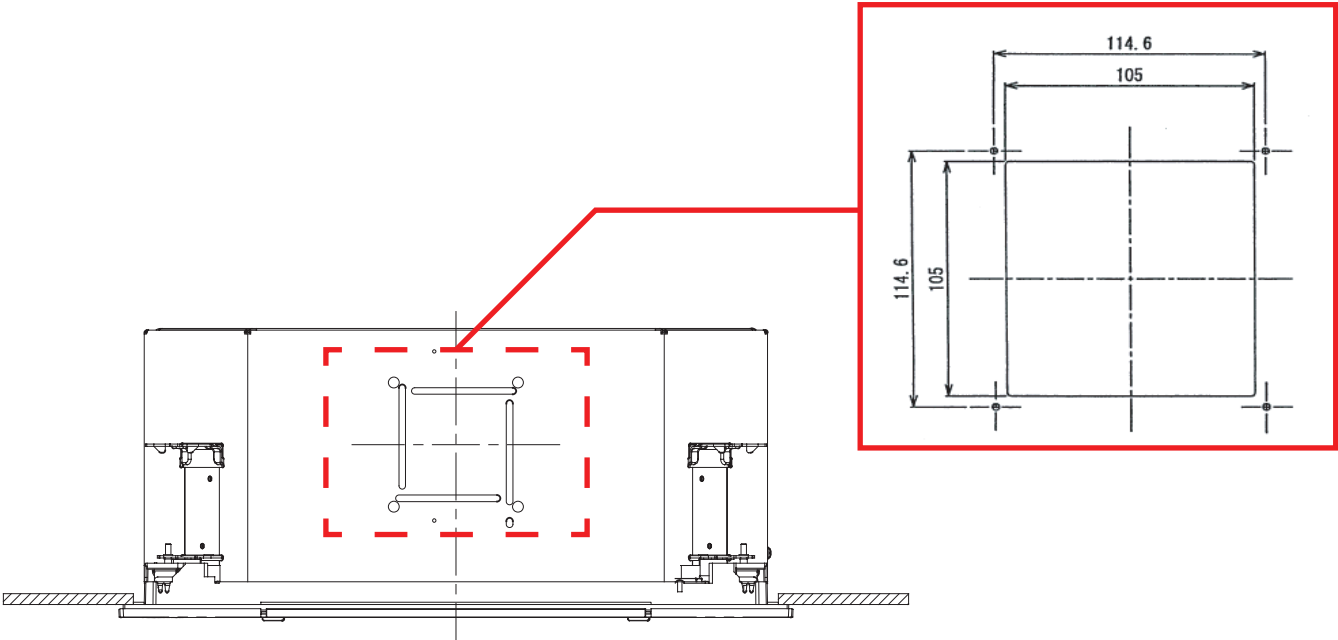
- Connect the driving relay of the duct fan(DC 12V) between 1 and 6 on the indoor P.C. board.
(Rated current of the relay for duct fan should be up to 75mA.)
- After installation, carry out a test run to check that the duct fan of the indoor unit start/stop simultaneously.
- (Carry out the test run following the installation manual of the indoor unit.)

Branching duct (design guide)

Cover method

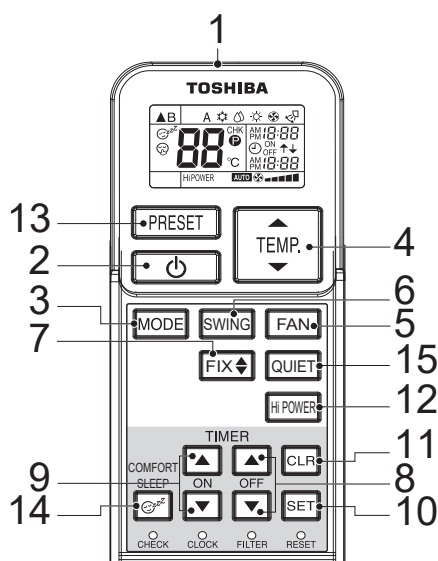


Dimension



3. Remote controller

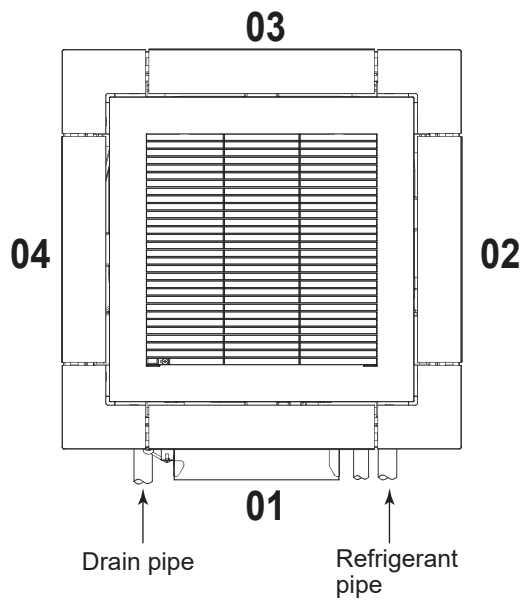
3.1 Wireless RC (White / Black) : RBC-AXU31UMP-E / RBC-AXU31UMPB-E



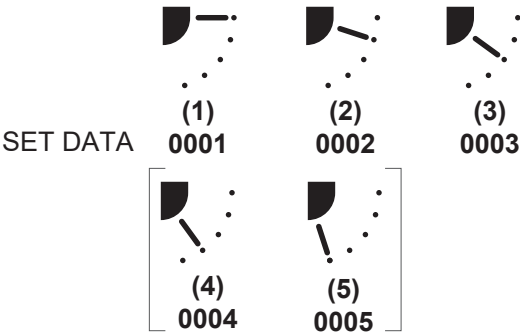
- 1 Infrared signal emitter**
Transmits a signal to the indoor unit.
- 2 START/STOP button**
Press the button to start operation.
(A receiving beep is heard.)
Press the button again to stop operation.
(A receiving beep is heard.)
If no receiving sound is heard from the indoor unit, press the button twice.
- 3 Mode select button (MODE)**
Press this button to select a mode.
Each time you press the button, a mode is selected in a sequence that goes from A : Auto, ☀ : Cool, 💧 : Dry, ☀ : Heat, 🌀 : Fan only, and back to A.
(A receiving beep is heard.)
- 4 Temperature button ()**
 The set temperature is increased up to 30°C.
 The set temperature is dropped down to 17°C. (A receiving beep is heard.)
- 5 Fan speed button ()**
Press this button to select fan speed.
When you select AUTO, the fan speed is automatically adjusted according to the room temperature.

You can also manually select the desired fan speed from among five settings.
(LOW , LOW* , MED , MED* , HIGH )
(A receiving beep is heard.)
- 6 Auto louver button (SWING)**
Press this button to swing the louver.
(A receiving beep is heard.)
Press the SWING button to stop the louver swinging.
(A receiving beep is heard.)
- 7 Set louver button (FIX)**
Press this button to adjust the airflow direction.
(A receiving beep is heard.) While this FIX button is kept depressed, the receiving tone continuously sounds.
- 8 Off timer button (OFF)**
Press this button to set the OFF timer.
- 9 On timer button (ON)**
Press this button to set the ON timer.
- 10 Reserve button (SET)**
Press this button to reserve time settings.
(A receiving beep is heard.)
- 11 Cancel button (CLR)**
Press this button to cancel ON timer and OFF timer.
(A receiving beep is heard.)
- 12 High power button (Hi POWER)**
Press this button to start the high power operation.
This function is not operated group control.
- 13 PRESET button**
Press this button to change the operation mode to the preferred operation mode memorized previously. To memorize the operation mode, press this button for at least 3 seconds during the preferred operation mode.  is displayed and the operation mode is memorized.
- 14 COMFORT SLEEP button**
Press this button to start the OFF timer operation that automatically adjusts the room temperature and the fan speed. You can select the OFF timer time from four durations (1, 3, 5 or 9 hours). During group control operation, the set temperature and the fan speed are not automatically adjusted. Only off timer function is activated.
- 15 QUIET button**
Press this button to start quiet operation.
Pressing this button again will restore normal operation.

Louvers position

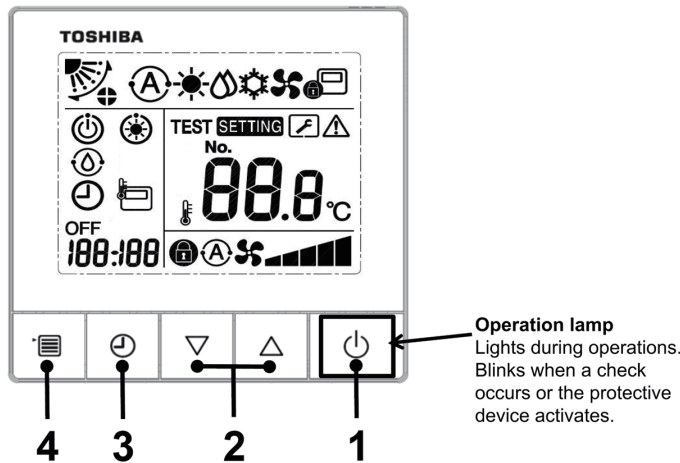


A position of the individual louvers (four directions) can be locked.



* When (4) or (5) is selected, dew drop may occur during cooling mode.

3.2 Standard wired remote controller : RBC-ASCU11-E



1 ON/OFF button

Press the button to turn on the air conditioner, and press the button again to turn off the air conditioner.

2 Setting button

It is used for temperature setting in general conditions. In running mode, fan speed mode and wind direction mode, it is used for the change of respective settings.

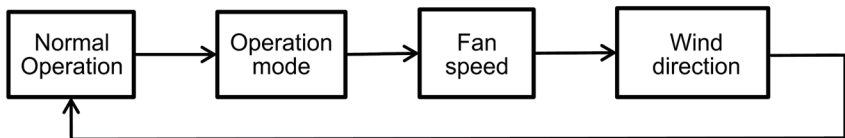
3 Timer off button

Set the timer off.

4 Menu button

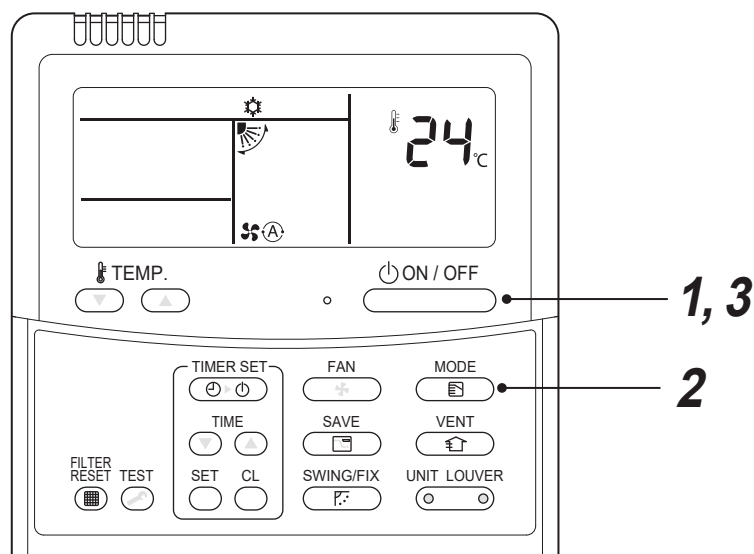
It is used for the selection of the running mode, fan speed and wind direction. Press of the button each time, then it will switch in the following order.

- In different modes of the indoor unit, the selection of fan speed or wind direction may be omitted.



3.3 Wired remote controller : RBC-AMTU31-E

■ Operations

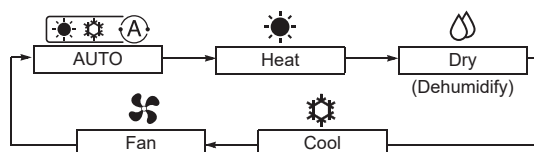


1 Push the button.

The operation lamp lights up.

2 Push the button to select a operation mode.

Each time you push the button, the operation mode and its icon change in the following order:



Depending on the type of unit connected, the operation modes that cannot be set will not be displayed.

3 Push the button to stop running.

The operation lamp turns off.

■ Changing the fan speed

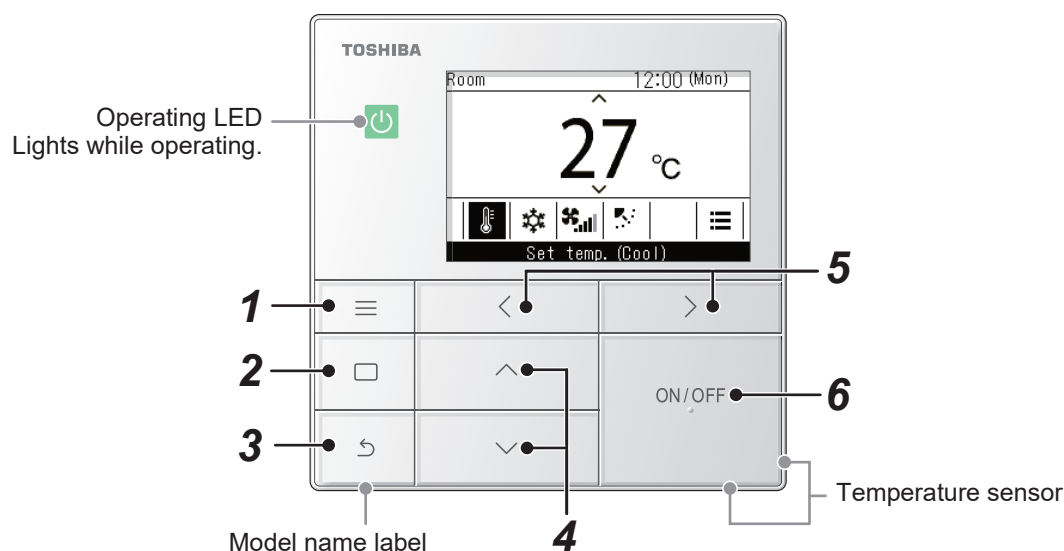
Push the button to select a fan speed.

- Each time you push the button, fan speed and its indication change in the following order: (" AUTO" cannot be selected in the FAN mode.)
- * The available fan speeds vary depending on the indoor unit connected.



- The temperature sensor detects the return air temperature at the indoor unit, which may slightly differ from the actual room temperature depending on installation condition. Set temperature is a target of room temperature.

3.4 Premium wired remote controller with/without bluetooth : RBC-AWSU52-E / RBC-AMSU52-E



* The screens shown here are examples. The content that is displayed may differ, depending on the environment settings being used.

1 [Menu] button

Shows the "Menu".
(Page 17)

2 [Set/Fix] button

Fixes and applies settings.
Ways to use it are shown on screen.

3 [Return] button

Deletes selections.
Ways to use it are shown on screen.

4 [Up/Down] buttons

Changes settings and selects items.

5 [Left/Right] buttons

Selects setting items.
Other ways to use it are shown on screen.

6 [ON/OFF] button

Starts and stops connected devices.

2-4. Slim Duct Type

2-4-1. Specifications

2-4-2. Dimension

2-4-3. Wiring Diagrams

2-4-4. Sensible Capacity Table

2-4-5. Part Load Performance

2-4-6. Air Throw Distance Chart

2-4-7. Sound Characteristics (NC Curve)

2-4-1. Specification

Slim Duct Type

Triple combination

Model	Indoor unit		RAV	HM801SDTY-E/TR x3
	Outdoor unit		RAV	GM2243AT8P-E/TR
Cooling capacity			(kW)	20.00
Heating capacity			(kW)	22.40
Power supply			1Ph., 220V, 60Hz. 1Ph., 220V - 240V, 50Hz.	
Electrical characteristic	Cooling	Running current	(A)	11.45
		Power consumption	(W)	7.44
		Power factor	(-)	0.94
		EER	(kW/kW)	2.69
		SEER	(kW/kW)	6.09
	Heating	Running current	(A)	11.00
		Power consumption	(W)	7.13
		Power factor	(-)	0.94
		COP	(kW/kW)	3.14
		SCOP	(kW/kW)	3.93
Outer dimension	Main unit	Height	(mm)	210
		Width	(mm)	1100
		Depth	(mm)	450
Total weight		(kg)	22	
Air flow volume		H/M/L	(m ³ / h)	114/106/98/94/91
Sound pressure level		H/M+/M/L+/L	(dB·A)	48/47/45/44/43
Sound power level		H	(dB·A)	61
Connecting pipe		Gas side	(mm)	Ø 28.6
		Liquid side	(mm)	Ø 12.7
Fan motor			(W)	94
Air filter			Standard filter (Long life filter)	
Controller			Optional (sold separately)	

Note : Rated conditions

Cooling : Indoor air temperature 27 °C DB/ 19°C WB, Outdoor 35 °C DB

Heating : Indoor air temperature 20 °C DB, Outdoor 7°C DB / 6°C WB

Slim Duct Type

Triple combination

Model	Indoor unit		RAV	HM801SDTY-E/TR x3
	Outdoor unit		RAV	GM2803AT8P-E/TR
Cooling capacity			(kW)	23.50
Heating capacity			(kW)	24.00
Power supply			1Ph., 220V, 60Hz. 1Ph., 220V - 240V, 50Hz.	
Electrical characteristic	Cooling	Running current	(A)	17.00
		Power consumption	(W)	1.06
		Power factor	(-)	0.93
		EER	(kW/kW)	2.23
		SEER	(kW/kW)	5.03
	Heating	Running current	(A)	11.10
		Power consumption	(W)	7.16
		Power factor	(-)	0.93
		COP	(kW/kW)	3.01
		SCOP	(kW/kW)	3.53
Outer dimension	Main unit	Height	(mm)	210
		Width	(mm)	1100
		Depth	(mm)	450
Total weight		(kg)	22	
Air flow volume		H/M/L (m ³ / h)	114/106/98/94/91	
Sound pressure level		H/M+/M/L+/L (dB·A)	48/47/45/44/43	
Sound power level		H (dB·A)	61	
Connecting pipe		Gas side (mm)	Ø 28.6	
		Liquid side (mm)	Ø 12.7	
Fan motor			(W)	94
Air filter			Standard filter (Long life filter)	
Controller			Optional (sold separately)	

Note : Rated conditions

Cooling : Indoor air temperature 27 °C DB/ 19°C WB, Outdoor 35 °C DB
Heating : Indoor air temperature 20 °C DB, Outdoor 7°C DB / 6°C WB

Slim Duct Type

Double Twin combination

Model	Indoor unit		RAV	HM561SDTY-E/TR x4
	Outdoor unit		RAV	GM2243AT8P-E/TR
Cooling capacity			(kW)	20.00
Heating capacity			(kW)	22.40
Power supply			1Ph., 220V, 60Hz. 1Ph., 220V - 240V, 50Hz.	
Electrical characteristic	Cooling	Running current	(A)	11.45
		Power consumption	(W)	7.44
		Power factor	(-)	0.94
		EER	(kW/kW)	2.69
		SEER		6.04
	Heating	Running current	(A)	11.00
		Power consumption	(W)	7.13
		Power factor	(-)	0.94
		COP	(kW/kW)	3.14
		SCOP	(kW/kW)	3.90
Outer dimension	Main unit	Height	(mm)	210
		Width	(mm)	900
		Depth	(mm)	450
Total weight		(kg)	19	
Air flow volume		H/M/L	(m ³ / h)	78/76/73/69/65
Sound pressure level		H/M+/M/L+/L	(dB·A)	46/45/44/43/41
Sound power level		H	(dB·A)	56
Connecting pipe		Gas side	(mm)	Ø 28.6
		Liquid side	(mm)	Ø 12.7
Fan motor			(W)	94
Air filter			Standard filter (Long life filter)	
Controller			Optional (sold separately)	

Note : Rated conditions

Cooling : Indoor air tempreature 27 °C DB/ 19°C WB, Outdoor 35 °C DB
Heating : Indoor air tempreature 20 °C DB, Outdoor 7°C DB / 6°C WB

Slim Duct Type

Double Twin combination

Model	Indoor unit		RAV	HM801SDTY-E/TR x4
	Outdoor unit		RAV	GM2803AT8P-E/TR
Cooling capacity			(kW)	23.50
Heating capacity			(kW)	24.00
Power supply			1Ph., 220V, 60Hz. 1Ph., 220V - 240V, 50Hz.	
Electrical characteristic	Cooling	Running current	(A)	16.4
		Power consumption	(W)	1.06
		Power factor	(-)	0.93
		EER	(kW/kW)	2.23
		SEER	(kW/kW)	5.00
	Heating	Running current	(A)	12.40
		Power consumption	(W)	7.97
		Power factor	(-)	0.93
		COP	(kW/kW)	3.01
		SCOP	(kW/kW)	3.51
Outer dimension	Main unit	Height	(mm)	210
		Width	(mm)	1100
		Depth	(mm)	450
Total weight		(kg)	22	
Air flow volume		H/M/L	(m ³ / h)	114/106/98/94/91
Sound pressure level		H/M+/M/L+/L	(dB·A)	48/47/45/44/43
Sound power level		H	(dB·A)	61
Connecting pipe		Gas side	(mm)	Ø 28.6
		Liquid side	(mm)	Ø 12.7
Fan motor			(W)	94
Air filter			Standard filter (Long life filter)	
Controller			Optional (sold separately)	

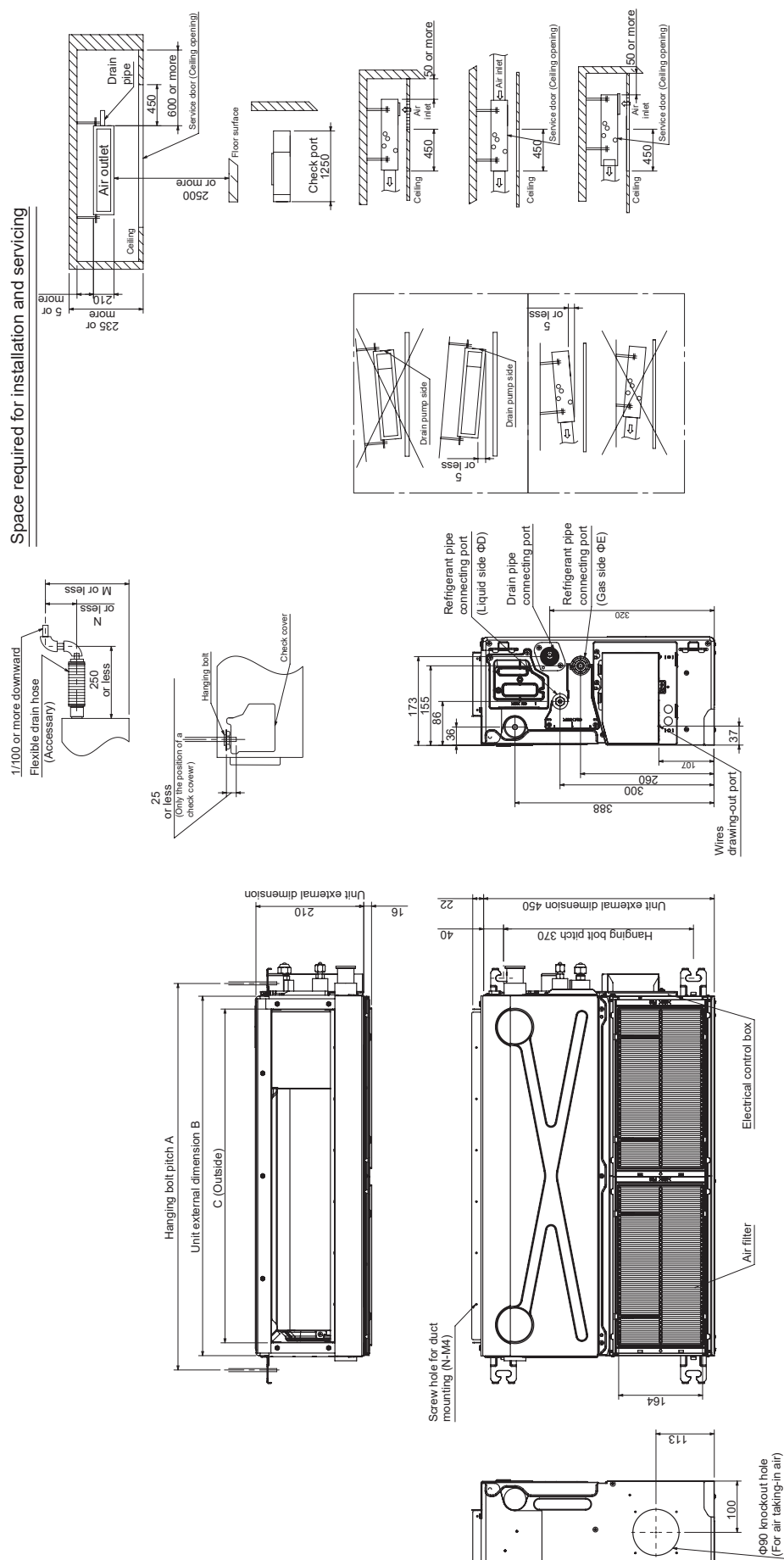
Note : Rated conditions

Cooling : Indoor air temperature 27 °C DB/ 19°C WB, Outdoor 35 °C DB

Heating : Indoor air temperature 20 °C DB, Outdoor 7°C DB / 6°C WB

2-4-2. Dimension

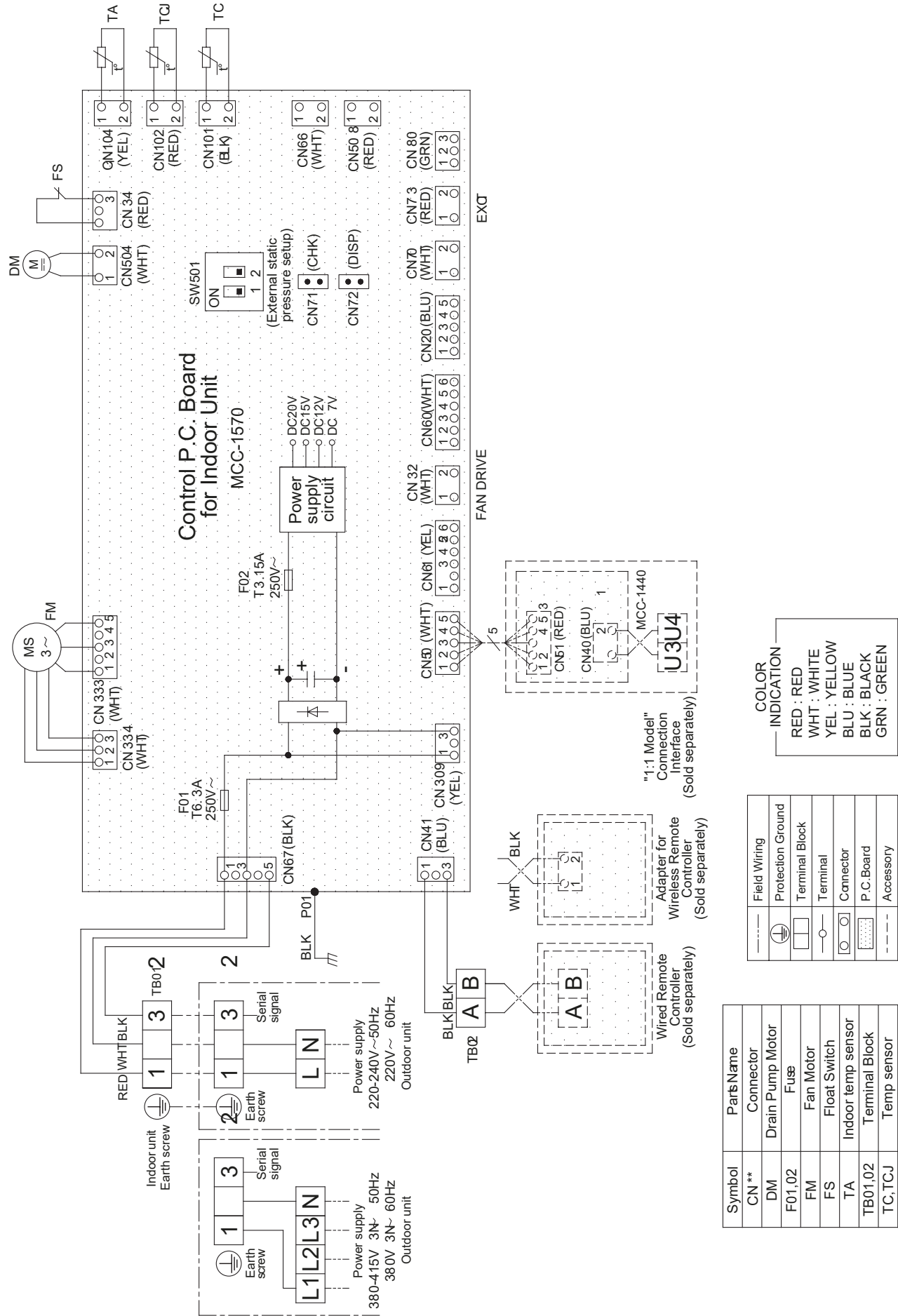
RAV-HM__1SDTY-E/TR (56,80)



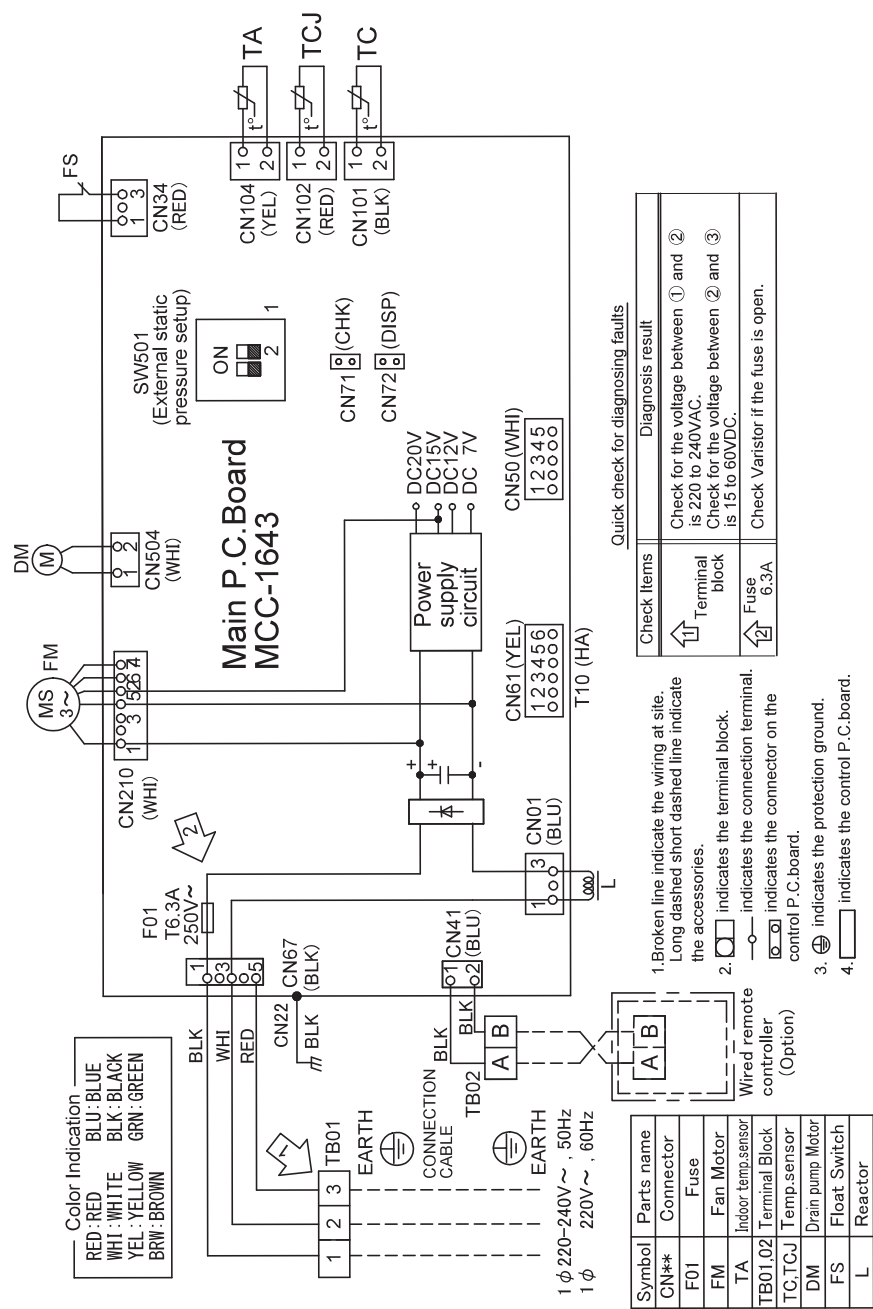
Model type	A	B	C	D	E
561	970	900	850	6.4	12.7
904	1170	1100	1050	0.5	15.0

2-4-3. Wiring Diagrams

RAV-HM561SDTY-E/TR



RAV-HM801SDTY-E/TR



2-4-4. Sensible Capacity Table

Product models : RAV-GM2243AT8P-E / RAV-HM801SDTY-E (Triple)

Standard Condition

Indoor	27.0 °C DB / 19.0 °C WB
Outdoor	35.0 °C DB / 24.0 °C WB

Specification of product at standard condition.

Total Cooling Capacity (TC)	7.10	kW
Sensible Heat Capacity (SHC)	5.40	kW

	Indoor Air temperature																	
Outdoor air temp.	14.0 °C WB		15.0 °C WB		16.0 °C WB		17.0 °C WB		18.0 °C WB		19.0 °C WB		20.0 °C WB		22.0 °C WB		24.0 °C WB	
	20.0 °C DB		21.0 °C DB		23.0 °C DB		24.0 °C DB		26.0 °C DB		27.0 °C DB		28.0 °C DB		30.0 °C DB		32.0 °C DB	
	°C DB	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	
10.0	7.70	6.33	7.97	6.47	8.51	6.73	8.71	6.88	9.11	7.16	9.38	7.13	9.65	7.12	10.22	7.03	10.68	6.86
12.0	7.55	6.20	7.82	6.34	8.34	6.60	8.54	6.74	8.93	7.02	9.20	6.99	9.46	6.98	10.02	6.89	10.48	6.73
14.0	7.40	6.08	7.66	6.22	8.18	6.47	8.37	6.61	8.76	6.88	9.01	6.86	9.27	6.84	9.82	6.75	10.27	6.60
16.0	7.25	5.96	7.51	6.09	8.01	6.34	8.20	6.47	8.58	6.74	8.83	6.72	9.08	6.70	9.62	6.62	10.06	6.46
18.0	7.10	5.84	7.35	5.97	7.85	6.21	8.03	6.34	8.40	6.60	8.65	6.58	8.90	6.56	9.42	6.48	9.85	6.33
20.0	6.95	5.71	7.20	5.84	7.68	6.08	7.86	6.21	8.22	6.46	8.47	6.44	8.71	6.43	9.22	6.34	9.65	6.20
21.0	6.88	5.65	7.12	5.78	7.60	6.01	7.78	6.14	8.14	6.39	8.38	6.37	8.62	6.36	9.12	6.27	9.54	6.13
23.0	6.73	5.53	6.96	5.65	7.43	5.88	7.61	6.01	7.96	6.25	8.19	6.23	8.43	6.22	8.93	6.14	9.33	6.00
25.0	6.58	5.40	6.81	5.53	7.27	5.75	7.44	5.87	7.78	6.11	8.01	6.09	8.24	6.08	8.73	6.00	9.13	5.86
27.0	6.43	5.28	6.65	5.40	7.10	5.62	7.27	5.74	7.61	5.97	7.83	5.95	8.05	5.94	8.53	5.87	8.92	5.73
29.0	6.28	5.16	6.50	5.27	6.94	5.49	7.10	5.61	7.43	5.84	7.65	5.82	7.87	5.80	8.33	5.73	8.71	5.60
31.0	6.13	5.04	6.34	5.15	6.77	5.36	6.93	5.47	7.25	5.70	7.46	5.68	7.68	5.67	8.13	5.59	8.50	5.46
33.0	5.98	4.91	6.19	5.02	6.61	5.23	6.76	5.34	7.07	5.56	7.28	5.54	7.49	5.53	7.93	5.46	8.30	5.33
35.0	5.83	4.79	6.03	4.90	6.44	5.10	6.59	5.21	6.90	5.42	7.10	5.40	7.30	5.39	7.73	5.32	8.09	5.20
37.0	5.68	4.67	5.88	4.77	6.28	4.97	6.42	5.07	6.72	5.28	6.92	5.26	7.12	5.25	7.54	5.18	7.88	5.06
39.0	5.37	4.41	5.56	4.51	5.94	4.70	6.08	4.80	6.36	4.99	6.54	4.98	6.73	4.97	7.13	4.90	7.45	4.79
40.0	5.27	4.33	5.45	4.42	5.82	4.61	5.96	4.70	6.23	4.90	6.42	4.88	6.60	4.87	6.99	4.81	7.31	4.70
42.0	5.06	4.16	5.24	4.25	5.59	4.42	5.72	4.52	5.98	4.70	6.16	4.69	6.34	4.68	6.71	4.62	7.02	4.51
43.0	4.96	4.07	5.13	4.16	5.47	4.33	5.60	4.42	5.86	4.60	6.03	4.59	6.21	4.58	6.57	4.52	6.87	4.42
45.0	4.29	3.52	4.44	3.60	4.74	3.75	4.85	3.83	5.07	3.99	5.22	3.97	5.37	3.96	5.69	3.91	5.95	3.82
46.0	4.18	3.44	4.33	3.51	4.62	3.66	4.73	3.74	4.95	3.89	5.09	3.87	5.24	3.87	5.55	3.82	5.80	3.73

Product models : RAV-GM2243AT8P-E / RAV-HM561SDTY-E (Double twin)

Standard Condition

Indoor	27.0 °C DB / 19.0 °C WB
Outdoor	35.0 °C DB / 24.0 °C WB

Specification of product at standard condition.

Total Cooling Capacity (TC)	5.00	kW
Sensible Heat Capacity (SHC)	3.80	kW

Outdoor air temp. °C DB	Indoor Air temperature																	
	14.0 °C WB		15.0 °C WB		16.0 °C WB		17.0 °C WB		18.0 °C WB		19.0 °C WB		20.0 °C WB		22.0 °C WB		24.0 °C WB	
	20.0 °C DB		21.0 °C DB		23.0 °C DB		24.0 °C DB		26.0 °C DB		27.0 °C DB		28.0 °C DB		30.0 °C DB		32.0 °C DB	
	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
10.0	5.42	4.45	5.61	4.55	5.99	4.74	6.13	4.84	6.42	5.04	6.60	5.02	6.79	5.01	7.19	4.94	7.52	4.83
12.0	5.32	4.37	5.50	4.46	5.87	4.65	6.01	4.74	6.29	4.94	6.48	4.92	6.66	4.91	7.05	4.85	7.38	4.74
14.0	5.21	4.28	5.40	4.37	5.76	4.55	5.89	4.65	6.17	4.84	6.35	4.82	6.53	4.81	6.91	4.75	7.23	4.64
16.0	5.11	4.19	5.29	4.29	5.64	4.46	5.78	4.56	6.04	4.74	6.22	4.73	6.40	4.72	6.77	4.66	7.09	4.55
18.0	5.00	4.11	5.18	4.20	5.52	4.37	5.66	4.46	5.92	4.64	6.09	4.63	6.27	4.62	6.63	4.56	6.94	4.45
20.0	4.90	4.02	5.07	4.11	5.41	4.28	5.54	4.37	5.79	4.55	5.96	4.53	6.13	4.52	6.49	4.46	6.79	4.36
21.0	4.84	3.98	5.01	4.07	5.35	4.23	5.48	4.32	5.73	4.50	5.90	4.48	6.07	4.47	6.43	4.42	6.72	4.31
23.0	4.74	3.89	4.90	3.98	5.23	4.14	5.36	4.23	5.60	4.40	5.77	4.39	5.94	4.38	6.29	4.32	6.57	4.22
25.0	4.63	3.80	4.80	3.89	5.12	4.05	5.24	4.13	5.48	4.30	5.64	4.29	5.80	4.28	6.15	4.22	6.43	4.13
27.0	4.53	3.72	4.69	3.80	5.00	3.96	5.12	4.04	5.36	4.20	5.51	4.19	5.67	4.18	6.01	4.13	6.28	4.03
29.0	4.42	3.63	4.58	3.71	4.88	3.86	5.00	3.95	5.23	4.11	5.39	4.09	5.54	4.08	5.87	4.03	6.14	3.94
31.0	4.32	3.54	4.47	3.62	4.77	3.77	4.88	3.85	5.11	4.01	5.26	4.00	5.41	3.99	5.73	3.93	5.99	3.84
33.0	4.21	3.46	4.36	3.53	4.65	3.68	4.76	3.76	4.98	3.91	5.13	3.90	5.28	3.89	5.59	3.84	5.84	3.75
35.0	4.11	3.37	4.25	3.45	4.54	3.59	4.64	3.66	4.86	3.81	5.00	3.80	5.14	3.79	5.45	3.74	5.70	3.66
37.0	4.00	3.28	4.14	3.36	4.42	3.50	4.52	3.57	4.73	3.71	4.87	3.70	5.01	3.69	5.31	3.65	5.55	3.56
39.0	3.78	3.11	3.92	3.18	4.18	3.31	4.28	3.38	4.48	3.51	4.61	3.50	4.74	3.49	5.02	3.45	5.25	3.37
40.0	3.71	3.05	3.84	3.11	4.10	3.24	4.20	3.31	4.39	3.45	4.52	3.43	4.65	3.43	4.92	3.38	5.15	3.30
42.0	3.56	2.92	3.69	2.99	3.94	3.11	4.03	3.18	4.21	3.31	4.34	3.30	4.46	3.29	4.73	3.25	4.94	3.17
43.0	3.49	2.86	3.61	2.93	3.85	3.05	3.95	3.11	4.13	3.24	4.25	3.23	4.37	3.22	4.63	3.18	4.84	3.11
45.0	3.02	2.48	3.13	2.53	3.34	2.64	3.42	2.69	3.57	2.80	3.68	2.80	3.78	2.79	4.01	2.75	4.19	2.69
46.0	2.95	2.42	3.05	2.47	3.25	2.57	3.33	2.63	3.49	2.74	3.59	2.73	3.69	2.72	3.91	2.69	4.09	2.62

Product models : RAV-GM2803AT8P-E / RAV-HM801SDTY-E (Triple)

Standard Condition

Indoor	27.0 °C DB / 19.0 °C WB
Outdoor	35.0 °C DB / 24.0 °C WB

Specification of product at standard condition.

Total Cooling Capacity (TC)	7.10 kW
Sensible Heat Capacity (SHC)	5.40 kW

Outdoor air temp.	Indoor Air temperature																	
	14.0 °C WB		15.0 °C WB		16.0 °C WB		17.0 °C WB		18.0 °C WB		19.0 °C WB		20.0 °C WB		22.0 °C WB		24.0 °C WB	
	20.0 °C DB		21.0 °C DB		23.0 °C DB		24.0 °C DB		26.0 °C DB		27.0 °C DB		28.0 °C DB		30.0 °C DB		32.0 °C DB	
°C DB	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
10.0	7.70	6.33	7.97	6.47	8.51	6.73	8.71	6.88	9.11	7.16	9.38	7.13	9.65	7.12	10.22	7.03	10.68	6.86
12.0	7.55	6.20	7.82	6.34	8.34	6.60	8.54	6.74	8.93	7.02	9.20	6.99	9.46	6.98	10.02	6.89	10.48	6.73
14.0	7.40	6.08	7.66	6.22	8.18	6.47	8.37	6.61	8.76	6.88	9.01	6.86	9.27	6.84	9.82	6.75	10.27	6.60
16.0	7.25	5.96	7.51	6.09	8.01	6.34	8.20	6.47	8.58	6.74	8.83	6.72	9.08	6.70	9.62	6.62	10.06	6.46
18.0	7.10	5.84	7.35	5.97	7.85	6.21	8.03	6.34	8.40	6.60	8.65	6.58	8.90	6.56	9.42	6.48	9.85	6.33
20.0	6.95	5.71	7.20	5.84	7.68	6.08	7.86	6.21	8.22	6.46	8.47	6.44	8.71	6.43	9.22	6.34	9.65	6.20
21.0	6.88	5.65	7.12	5.78	7.60	6.01	7.78	6.14	8.14	6.39	8.38	6.37	8.62	6.36	9.12	6.27	9.54	6.13
23.0	6.73	5.53	6.96	5.65	7.43	5.88	7.61	6.01	7.96	6.25	8.19	6.23	8.43	6.22	8.93	6.14	9.33	6.00
25.0	6.58	5.40	6.81	5.53	7.27	5.75	7.44	5.87	7.78	6.11	8.01	6.09	8.24	6.08	8.73	6.00	9.13	5.86
27.0	6.43	5.28	6.65	5.40	7.10	5.62	7.27	5.74	7.61	5.97	7.83	5.95	8.05	5.94	8.53	5.87	8.92	5.73
29.0	6.28	5.16	6.50	5.27	6.94	5.49	7.10	5.61	7.43	5.84	7.65	5.82	7.87	5.80	8.33	5.73	8.71	5.60
31.0	6.13	5.04	6.34	5.15	6.77	5.36	6.93	5.47	7.25	5.70	7.46	5.68	7.68	5.67	8.13	5.59	8.50	5.46
33.0	5.98	4.91	6.19	5.02	6.61	5.23	6.76	5.34	7.07	5.56	7.28	5.54	7.49	5.53	7.93	5.46	8.30	5.33
35.0	5.83	4.79	6.03	4.90	6.44	5.10	6.59	5.21	6.90	5.42	7.10	5.40	7.30	5.39	7.73	5.32	8.09	5.20
37.0	5.68	4.67	5.88	4.77	6.28	4.97	6.42	5.07	6.72	5.28	6.92	5.26	7.12	5.25	7.54	5.18	7.88	5.06
39.0	4.82	3.96	4.98	4.04	5.32	4.21	5.44	4.30	5.70	4.47	5.86	4.46	6.03	4.45	6.39	4.39	6.68	4.29
40.0	4.71	3.87	4.87	3.96	5.20	4.12	5.33	4.20	5.57	4.38	5.73	4.36	5.90	4.35	6.25	4.30	6.53	4.20
42.0	4.50	3.70	4.66	3.78	4.97	3.93	5.09	4.02	5.32	4.18	5.48	4.17	5.64	4.16	5.97	4.10	6.24	4.01
43.0	4.40	3.61	4.55	3.69	4.85	3.84	4.97	3.92	5.20	4.08	5.35	4.07	5.50	4.06	5.83	4.01	6.10	3.92
45.0	3.85	3.16	3.98	3.23	4.25	3.37	4.35	3.44	4.55	3.58	4.69	3.57	4.82	3.56	5.11	3.51	5.34	3.43
46.0	3.75	3.08	3.88	3.15	4.14	3.27	4.23	3.34	4.43	3.48	4.56	3.47	4.69	3.46	4.97	3.42	5.20	3.34

Product models : RAV-GM2803AT8P-E / RAV-HM801SDTY-E (Double twin)

Standard Condition

Indoor	27.0 °C DB / 19.0 °C WB
Outdoor	35.0 °C DB / 24.0 °C WB

Specification of product at standard condition.

Total Cooling Capacity (TC)	7.10 kW
Sensible Heat Capacity (SHC)	5.40 kW

Outdoor air temp. °C DB	Indoor Air temperature																	
	14.0 °C WB		15.0 °C WB		16.0 °C WB		17.0 °C WB		18.0 °C WB		19.0 °C WB		20.0 °C WB		22.0 °C WB		24.0 °C WB	
	20.0 °C DB		21.0 °C DB		23.0 °C DB		24.0 °C DB		26.0 °C DB		27.0 °C DB		28.0 °C DB		30.0 °C DB		32.0 °C DB	
	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
10.0	7.70	6.33	7.97	6.47	8.51	6.73	8.71	6.88	9.11	7.16	9.38	7.13	9.65	7.12	10.22	7.03	10.68	6.86
12.0	7.55	6.20	7.82	6.34	8.34	6.60	8.54	6.74	8.93	7.02	9.20	6.99	9.46	6.98	10.02	6.89	10.48	6.73
14.0	7.40	6.08	7.66	6.22	8.18	6.47	8.37	6.61	8.76	6.88	9.01	6.86	9.27	6.84	9.82	6.75	10.27	6.60
16.0	7.25	5.96	7.51	6.09	8.01	6.34	8.20	6.47	8.58	6.74	8.83	6.72	9.08	6.70	9.62	6.62	10.06	6.46
18.0	7.10	5.84	7.35	5.97	7.85	6.21	8.03	6.34	8.40	6.60	8.65	6.58	8.90	6.56	9.42	6.48	9.85	6.33
20.0	6.95	5.71	7.20	5.84	7.68	6.08	7.86	6.21	8.22	6.46	8.47	6.44	8.71	6.43	9.22	6.34	9.65	6.20
21.0	6.88	5.65	7.12	5.78	7.60	6.01	7.78	6.14	8.14	6.39	8.38	6.37	8.62	6.36	9.12	6.27	9.54	6.13
23.0	6.73	5.53	6.96	5.65	7.43	5.88	7.61	6.01	7.96	6.25	8.19	6.23	8.43	6.22	8.93	6.14	9.33	6.00
25.0	6.58	5.40	6.81	5.53	7.27	5.75	7.44	5.87	7.78	6.11	8.01	6.09	8.24	6.08	8.73	6.00	9.13	5.86
27.0	6.43	5.28	6.65	5.40	7.10	5.62	7.27	5.74	7.61	5.97	7.83	5.95	8.05	5.94	8.53	5.87	8.92	5.73
29.0	6.28	5.16	6.50	5.27	6.94	5.49	7.10	5.61	7.43	5.84	7.65	5.82	7.87	5.80	8.33	5.73	8.71	5.60
31.0	6.13	5.04	6.34	5.15	6.77	5.36	6.93	5.47	7.25	5.70	7.46	5.68	7.68	5.67	8.13	5.59	8.50	5.46
33.0	5.98	4.91	6.19	5.02	6.61	5.23	6.76	5.34	7.07	5.56	7.28	5.54	7.49	5.53	7.93	5.46	8.30	5.33
35.0	5.83	4.79	6.03	4.90	6.44	5.10	6.59	5.21	6.90	5.42	7.10	5.40	7.30	5.39	7.73	5.32	8.09	5.20
37.0	5.68	4.67	5.88	4.77	6.28	4.97	6.42	5.07	6.72	5.28	6.92	5.26	7.12	5.25	7.54	5.18	7.88	5.06
39.0	4.82	3.96	4.98	4.04	5.32	4.21	5.44	4.30	5.70	4.47	5.86	4.46	6.03	4.45	6.39	4.39	6.68	4.29
40.0	4.71	3.87	4.87	3.96	5.20	4.12	5.33	4.20	5.57	4.38	5.73	4.36	5.90	4.35	6.25	4.30	6.53	4.20
42.0	4.50	3.70	4.66	3.78	4.97	3.93	5.09	4.02	5.32	4.18	5.48	4.17	5.64	4.16	5.97	4.10	6.24	4.01
43.0	4.40	3.61	4.55	3.69	4.85	3.84	4.97	3.92	5.20	4.08	5.35	4.07	5.50	4.06	5.83	4.01	6.10	3.92
45.0	3.85	3.16	3.98	3.23	4.25	3.37	4.35	3.44	4.55	3.58	4.69	3.57	4.82	3.56	5.11	3.51	5.34	3.43
46.0	3.75	3.08	3.88	3.15	4.14	3.27	4.23	3.34	4.43	3.48	4.56	3.47	4.69	3.46	4.97	3.42	5.20	3.34

2-4-5. Part load performance

Combination <Rated condition>

Indoor: RAV-HM801SDTY-E x 3, RAV-HM561SDTY-E x4
Outdoor: RAV-GM2243AT8(J)P-E

Operation range	Cooling		Heating	
	Q	P	Q	P
MINIMUM	W	4600	1300	4600
RATING	W	20000	7440	22400

Cooling

Outdoor Temperature DB (°C)	Parts Load (%)																	
	100		90		80		70		60		50		40		30		20	
	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P
20	23850	5840	21465	5214	19080	4588	16695	3963	14310	3337	11925	2711	9540	2085	7155	1459	5486	1021
21	23593	5947	21234	5310	18875	4672	16515	4035	14156	3397	11797	2760	9437	2123	7078	1485	5426	1039
22	23337	6054	21003	5405	18669	4756	16336	4107	14002	3458	11668	2810	9335	2161	7001	1512	5367	1058
23	23080	6160	20772	5500	18464	4840	16156	4180	13848	3519	11540	2859	9232	2199	6924	1539	5308	1076
24	22823	6267	20541	5595	18259	4924	15976	4252	13694	3580	11412	2909	9129	2237	6847	1565	5249	1095
25	22567	6374	20310	5690	18053	5007	15797	4324	13540	3641	11283	2958	9027	2275	6770	1592	5190	1114
26	22310	6480	20079	5786	17848	5091	15617	4397	13386	3702	11155	3008	8924	2313	6693	1618	5131	1132
27	22053	6587	19848	5881	17643	5175	15437	4469	13232	3763	11027	3057	8821	2351	6616	1645	5072	1151
28	21797	6694	19617	5976	17437	5259	15258	4541	13078	3824	10898	3107	8719	2389	6539	1672	5013	1170
29	21540	6800	19386	6071	17232	5343	15078	4614	12924	3885	10770	3156	8616	2427	6462	1698	4954	1188
30	21283	6907	19155	6167	17027	5426	14898	4686	12770	3946	10642	3206	8513	2465	6385	1725	4895	1207
31	21027	7013	18924	6262	16821	5510	14719	4758	12616	4007	10513	3255	8411	2503	6308	1752	4836	1225
32	20770	7120	18693	6357	16616	5594	14539	4831	12462	4068	10385	3305	8308	2541	6231	1778	4777	1244
33	20513	7227	18462	6452	16411	5678	14359	4903	12308	4129	10257	3354	8205	2579	6154	1805	4718	1263
34	20257	7333	18231	6547	16205	5761	14180	4975	12154	4189	10128	3403	8103	2618	6077	1832	4659	1281
35	20000	7440	18000	6643	16000	5845	14000	5048	12000	4250	10000	3453	8000	2656	6000	1858	4600	1300
36	19743	7547	17769	6738	15795	5929	13820	5120	11846	4311	9872	3502	7897	2694	5923	1885	4541	1319
37	19487	7653	17538	6833	15589	6013	13641	5192	11692	4372	9743	3552	7795	2732	5846	1911	4482	1337
38	19230	7760	17307	6928	15384	6097	13461	5265	11538	4433	9615	3601	7692	2770	5769	1938	4423	1356
39	18431	7304	16588	6521	14745	5739	12902	4956	11059	4173	9216	3390	7373	2607	5529	1824	4239	1276
40	18072	7304	16265	6521	14458	5739	12650	4956	10843	4173	9036	3390	7229	2607	5422	1824	4157	1276
41	17713	7304	15941	6521	14170	5739	12399	4956	10628	4173	8856	3390	7085	2607	5314	1824	4074	1276
42	17353	7304	15618	6521	13883	5739	12147	4956	10412	4173	8677	3390	6941	2607	5206	1824	3991	1276
43	16994	7304	15294	6521	13595	5739	11896	4956	10196	4173	8497	3390	6797	2607	5098	1824	3909	1276
44	15070	5681	13563	5072	12056	4463	10549	3854	9042	3246	7535	2637	6028	2028	4521	1419	3466	993
45	14711	5681	13240	5072	11768	4463	10297	3854	8826	3246	7355	2637	5884	2028	4413	1419	3383	993
46	14351	5681	12916	5072	11481	4463	10046	3854	8611	3246	7176	2637	5740	2028	4305	1419	3301	993

Heating

Outdoor Temperature DB (°C)	Parts Load (%)																			
	100		90		80		70		60		50		40		30		20		10	
	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P
-27	6069	2976	5462	2665	4855	2354	4248	2042	3641	1731	3034	1420	2428	1109	1821	797	1246	503	1246	503
-26	6444	3102	5800	2777	5155	2453	4511	2128	3866	1804	3222	1480	2578	1155	1933	831	1323	524	1323	524
-25	6819	3227	6137	2889	5455	2552	4774	2214	4092	1877	3410	1539	2728	1202	2046	864	1400	545	1400	545
-24	7195	3352	6475	3002	5756	2651	5036	2300	4317	1950	3597	1599	2878	1249	2158	898	1477	566	1477	566
-23	7570	3478	6813	3114	6056	2750	5299	2386	4542	2023	3785	1659	3028	1295	2271	932	1555	587	1555	587
-22	7945	3603	7151	3226	6356	2849	5562	2472	4767	2096	3973	1719	3178	1342	2384	965	1632	609	1632	609
-21	8320	3728	7488	3338	6656	2948	5824	2558	4992	2168	4160	1779	3328	1389	2496	999	1709	630	1709	630
-20	8696	3853	7826	3450	6957	3047	6087	2644	5217	2241	4348	1838	3478	1435	2609	1032	1786	651	1786	651
-19	9094	3962	8185	3547	7275	3133	6366	2719	5457	2304	4547	1890	3638	1476	2728	1061	1868	669	1868	669
-18	9493	4070	8543	3644	7594	3219	6645	2793	5696	2367	4746	1942	3797	1516	2848	1090	1949	687	1949	687
-17	9891	4178	8902	3741	7913	3304	6924	2867	5935	2430	4946	1993	3957	1556	2967	1119	2031	706	2031	706
-16	10290	4286	9261	3838	8232	3380	7203	2942	6174	2493	5145	2045	4116	1597	3087	1148	2113	724	2113	724
-15	10688	4395	9620	3935	8551	3475	7482	3016	6413	2556	5344	2097	4275	1637	3207	1177	2195	742	2195	742
-14	10994	4529	9895	4055	8795	3581	7696	3108	6596	2634	5497	2160	4398	1687	3298	1213	2258	765	2258	765
-13	11300	4663	10170	4175	9040	3687	7910	3200	6780	2712	5650	2224	4520	1737	3390	1249	2320	788	2320	788
-12	11606	4796	10445	4295	9284	3793	8124	3292	6963	2790	5803	2288	4642	1787	3482	1285	2383	810	2383	810
-11	11911	4930	10720	4415	9529	3899	8338	3383	7147	2868	5956	2352	4764	1837	3573	1321	2446	833	2446	833
-10	12217	5064	10995	4535	9774	4005	8552	3475	7330	2946	6108	2416	4887	1886	3665	1357	2509	855	2509	855
-9	12523	5198	11270	4655	10018	4111	8766	3567	7514	3024	6261	2480	5009	1936	3757	1393	2572	878	2572	878
-8	12828	5332	11546	4775	10263	4217	8980	3659	7697	3102	6414	2544	5131	1986	3849	1429	2634	901	2634	901
-7	13134	5466	11821	4895	10507	4323	9194	3751	7880	3179	6567	2608	5254	2036	3940	1464	2697	923	2697	923
-6	13478	5587	12130	5002	10783	4418	9435	3834	8087	3249	6739	2665	5391	2081	4043	1497	2768	944	2768	944
-5	13822	5707	12440	5110	11058	4513	9676	3916	8293	3319	6911	2723	5529	2126	4147	1529	2839	964	2839	964
-4	14167	5827	12750	5218	11333	4608	9917	3999	8500	3389	7083	2780	5667	2171	4250	1561	2909	984	2909	984
-3	14511	5947	13060	5325	11609	4703	10158	4081	8707	3459	7255	2837	5804	2215	4353	1593	2980	1005	2980	1005
-2	14855	6068	13370	5433	11884	4798	10399	4164	8913	3529	7428	2895	5942	2260	4457	1626	3051	1025	3051	1025
-1	15199	6188	13679	5541	12159	4894	10639	4246	9120	3599	7600	2952	6080	2305	4560	1658	3121	1045	3121	1045
0	15543	6308	13989	5648	12435	4989	10880	4329	9326	3669	7772	3009	6217	2350	4663	1690	3192	1066	3192	1066
1	15888	6428	14299	5756	12710	5084	11121	4411	9533	3739	7944	3067	6355	2394	4766	1722	3263	1086	3263	1086
2	16232	6549	14609	5864	12986	5179	11362	4494	9739	3809	8116	3124	6493	2439	4870	1754	3333	1106	3333	1106
3	16498	6637	14848	5943	13198	5249	11548	4554	9899	3860	8249	3166	6599	2472	4949	1778	3388	1121	3388	1121
4	16764	6725	15087	6023	13411	5318	11735	4615	10058	3912	8382	3208	6705	2505	5029	1802	3443	1136	3443	1136
5	17030	6813	15327	6100	13624	5388	11921	4675	10218	3963	8515	3250	6812	2538	5109	1825	3497	1151	3497	1151
6	21822	7285	19640	6523	17458	5762	15275	5000	13093	4238	10911	3476	8729	2714	6547	1952	4481	1231	4481	1231
7	22400	7400	20160	6626	17920	5852	15680	5078	13440	4304	11200	3530	8960	2756	6720	1982	4600	1250	4600	1250
8	22978	7515	20680	6729	18382	5943	16085	5157	13787	4371	11489	3585	9191	2799	6893	2013	4719	1269	4719	1269
9	23556	7629	21201	6831	18845	6033	16489	5235	14134	4438	11778	3640	9422	2842	7067	2044	4837	1289	4837	1289
10	24134	7744	21721	6934	19307	6124	16894	5314	14481	4504	12067	3694	9654	2884	7240	2075	4956	1308	4956	1308
11	24712	7858	22241	7036	19770	6215	17299	5393	14827	4571	12356	3749	9885	2927	7414	2105	5075	1327	5075	1327
12	25290	7973	22761	7139	20232	6305	17703	5471	15174	4638	12645	3804	10116	2970	7587	2136	5194	1347	5194	1347
13	25868	8087	23282	7242	20695	6396	18108	5550	15521	4704	12934	3858	10347	3012	7761	2167	5312	1366	5312	1366
14	26446	8202	23802	7344	21157	6486	18513	5629	15868	4771	13223	3913	10579	3055	7934	2197	5431	1385	5431	1385
15	27025	8317	24322	7447	21620	6577	18917	5707	16215	4837	13512	3968	10810	3098	8107	2228	5550	1405	5550	1405
16	27603	8431	24842	7549	22082	6668	19322	5786	16562	4904	13801	4022	11041	3141	8281	2259	5668	1424	5668	1424
17	28181	8546	25363	7652	22545	6758	19726	5865	16908	4971	14090	4077	11272	3183	8454	2289	5787	1444	5787	1444
18	28759	8660	25883	7755	23007	6849	20131	5943	17255	5037	14379	4132	11503	3226	8628	2320	5906	1463	5906	1463
19	29337	8775	26403	7857	23469	6939	20536	6022	17602	5104	14668	4186	11735	3269	8801	2351	6025	1482	6025	1482
20	29915	8890	26923	7960	23932	7030	20940	6100	17949	5171	14957	4241	11966	3311	8974	2382	6143	1502	6143	1502
21	30493	9004	27444	8062	24394	7121	21345	6179	18296	5237	15246	4296	12197	3354	9148	2412	6262	1521	6262	1521
22	31071	9119	27964	8165	24857	7211	21750	6258	18643	5304	15535	4350	12428	3397	9321	2443	6381	1540	6381	1540
23	31649	9233	28484	8268	25319	7302	22154	6336	18989	5371	15825	4405	12660	3439	9495	2474	6499	1560	6499	1560
24	32227	9348	29004	8370	25782	7393	22559	6415	19336	5437	16114	4460	12891	3482	9668	2504	6618	1579	6618	1579

Combination <Capacity range (Max)>

Indoor: RAV-HM801SDTY-E x 3, RAV-HM561SDTY-E x4
Outdoor: RAV-GM2243AT8(J)P-E

Operation range		Cooling		Heating	
		Q	P	Q	P
MINIMUM	W	4600	1300	4600	1250
RATING	W	20000	7440	22400	7400
MAXIMUM	W	22400	8960	25000	8330

Cooling

Outdoor Temperature DB (°C)	Parts Load (%)																			
	100		90		80		70		60		50		40		30		20		10	
	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P
20	26801	7085	24120	6323	21440	5560	18760	4798	16080	4036	13400	3274	10720	2512	8040	1749	5504	1028	5504	1028
21	26512	7214	23861	6438	21210	5662	18558	4886	15907	4110	13256	3334	10605	2557	7954	1781	5444	1047	5444	1047
22	26224	7344	23601	6554	20979	5764	18357	4973	15734	4183	13112	3393	10489	2603	7867	1813	5385	1065	5385	1065
23	25935	7473	23342	6669	20748	5865	18155	5061	15561	4257	12968	3453	10374	2649	7781	1845	5326	1084	5326	1084
24	25647	7602	23082	6784	20517	5967	17953	5149	15388	4331	12823	3513	10259	2695	7694	1877	5267	1103	5267	1103
25	25358	7732	22823	6900	20287	6068	17751	5236	15215	4404	12679	3573	10143	2741	7608	1909	5208	1122	5208	1122
26	25070	7861	22563	7015	20056	6170	17549	5324	15042	4478	12535	3632	10028	2787	7521	1941	5148	1141	5148	1141
27	24782	7990	22303	7131	19825	6271	17347	5412	14869	4552	12391	3692	9913	2833	7434	1973	5089	1159	5089	1159
28	24493	8120	22044	7246	19595	6373	17145	5499	14696	4626	12247	3752	9797	2878	7348	2005	5030	1178	5030	1178
29	24205	8249	21784	7362	19364	6474	16943	5587	14523	4699	12102	3812	9682	2924	7261	2037	4971	1197	4971	1197
30	23916	8379	21525	7477	19133	6576	16741	5674	14350	4773	11958	3872	9567	2970	7175	2069	4911	1216	4911	1216
31	23628	8508	21265	7593	18902	6677	16540	5762	14177	4847	11814	3931	9451	3016	7088	2101	4852	1234	4852	1234
32	23339	8637	21006	7708	18672	6779	16338	5850	14004	4920	11670	3991	9336	3062	7002	2133	4793	1253	4793	1253
33	23051	8767	20746	7824	18441	6880	16136	5937	13831	4994	11526	4051	9220	3108	6915	2165	4734	1272	4734	1272
34	22763	8896	20486	7939	18210	6982	15934	6025	13658	5068	11381	4111	9105	3154	6829	2197	4674	1291	4674	1291
35	22400	8960	20160	7996	17920	7032	15680	6068	13440	5104	11200	4140	8960	3176	6720	2212	4600	1300	4600	1300
36	21971	8960	19774	7996	17577	7032	15379	6068	13182	5104	10985	4140	8788	3176	6591	2212	4512	1300	4512	1300
37	21549	8960	19394	7996	17239	7032	15084	6068	12929	5104	10774	4140	8620	3176	6465	2212	4425	1300	4425	1300
38	21134	8960	19021	7996	16908	7032	14794	6068	12681	5104	10567	4140	8454	3176	6340	2212	4340	1300	4340	1300
39	17568	5973	15811	5331	14054	4688	12298	4045	10541	3403	8784	2760	7027	2118	5270	1475	3608	867	3608	867
40	17225	5973	15503	5331	13780	4688	12058	4045	10335	3403	8613	2760	6890	2118	5168	1475	3537	867	3537	867
41	16883	5973	15194	5331	13506	4688	11818	4045	10130	3403	8441	2760	6753	2118	5065	1475	3467	867	3467	867
42	16540	5973	14886	5331	13232	4688	11578	4045	9924	3403	8270	2760	6616	2118	4962	1475	3397	867	3397	867
43	16198	5973	14578	5331	12958	4688	11338	4045	9719	3403	8099	2760	6479	2118	4859	1475	3326	867	3326	867
44	14364	4646	12928	4146	11491	3646	10055	3146	8618	2647	7182	2147	5746	1647	4309	1147	2950	674	2950	674
45	14021	4646	12619	4146	11217	3646	9815	3146	8413	2647	7011	2147	5609	1647	4206	1147	2879	674	2879	674
46	13679	4646	12311	4146	10943	3646	9575	3146	8207	2647	6839	2147	5472	1647	4104	1147	2809	674	2809	674

Heating

Outdoor Temperature DB (°C)	Parts Load (%)																			
	100		90		80		70		60		50		40		30		20		10	
	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P
-27	6700	3672	6030	3290	5360	2907	4690	2525	4020	2142	3350	1760	2680	1377	2010	995	1340	612	1233	551
-26	7114	3827	6403	3428	5691	3030	4980	2631	4269	2232	3557	1834	2846	1435	2134	1037	1423	638	1309	574
-25	7529	3981	6776	3567	6023	3152	5270	2737	4517	2323	3764	1908	3011	1493	2259	1078	1506	664	1385	597
-24	7943	4136	7149	3705	6354	3274	5560	2844	4766	2413	3971	1982	3177	1551	2383	1120	1589	690	1461	621
-23	8357	4291	7521	3844	6686	3397	5850	2950	5014	2503	4179	2056	3343	1609	2507	1162	1671	715	1538	644
-22	8771	4445	7894	3982	7017	3519	6140	3056	5263	2593	4386	2130	3509	1667	2631	1204	1754	741	1614	667
-21	9186	4600	8267	4121	7349	3642	6430	3162	5511	2683	4593	2204	3674	1725	2756	1246	1837	767	1690	690
-20	9600	4754	8640	4259	7680	3764	6720	3269	5760	2774	4800	2278	3840	1783	2880	1288	1920	793	1766	713
-19	10040	4888	9036	4379	8032	3870	7028	3361	6024	2851	5020	2342	4016	1833	3012	1324	2008	815	1847	733
-18	10480	5022	9432	4498	8384	3975	7336	3452	6288	2929	5240	2406	4192	1883	3144	1360	2096	837	1928	754
-17	10920	5155	9828	4618	8736	4081	7644	3544	6552	3007	5460	2470	4368	1933	3276	1396	2184	859	2009	774
-16	11360	5289	10224	4738	9088	4187	7952	3636	6816	3085	5680	2534	4544	1983	3408	1433	2272	882	2090	794
-15	11800	5422	10620	4857	9440	4293	8260	3728	7080	3163	5900	2598	4720	2034	3540	1469	2360	904	2171	814
-14	12138	5587	10924	5005	9710	4423	8496	3841	7283	3259	6069	2678	4855	2096	3641	1514	2428	932	2233	838
-13	12475	5753	11228	5153	9980	4554	8733	3955	7485	3356	6238	2757	4990	2158	3743	1558	2495	959	2295	863
-12	12813	5918	11531	5302	10250	4685	8969	4069	7688	3452	6406	2836	5125	2219	3844	1603	2563	987	2358	888
-11	13150	6083	11835	5450	10520	4816	9205	4182	7890	3549	6575	2915	5260	2281	3945	1648	2630	1014	2420	913
-10	13488	6248	12139	5598	10790	4947	9441	4296	8093	3645	6744	2994	5395	2343	4046	1693	2698	1042	2482	938
-9	13825	6414	12443	5746	11060	5078	9678	4410	8295	3742	6913	3073	5530	2405	4148	1737	2765	1069	2544	962
-8	14163	6579	12746	5894	11330	5208	9914	4523	8498	3838	7081	3153	5665	2467	4249	1782	2833	1097	2606	987
-7	14500	6744	13050	6042	11600	5339	10150	4637	8700	3934	7250	3232	5800	2529	4350	1827	2900	1124	2668	1012
-6	14880	6893	13392	6175	11904	5457	10416	4739	8928	4021	7440	3303	5952	2585	4464	1867	2976	1149	2738	1034
-5	15260	7041	13734	6308	12208	5574	10682	4841	9156	4108	7630	3374	6104	2641	4578	1907	3052	1174	2808	1057
-4	15640	7189	14076	6441	12512	5682	10948	4943	9384	4194	7820	3445	6256	2696	4692	1948	3128	1199	2878	1079
-3	16020	7338	14418	6574	12816	5809	11214	5045	9612	4281	8010	3516	6408	2752	4806	1988	3204	1223	2948	1101
-2	16400	7486	14760	6706	13120	5927	11480	5147	9840	4367	8200	3587	6560	2808	4920	2028	3280	1248	3018	1123
-1	16780	7635	15102	6839	13424	6044	11746	5249	10068	4454	8390	3659	6712	2863	5034	2068	3356	1273	3088	1146
0	17160	7783	15444	6972	13728	6162	12012	5351	10296	4540	8580	3730	6864	2919	5148	2108	3432	1298	3157	1168
1	17540	7931	15786	7105	14032	6279	12278	5453	10524	4627	8770	3801	7016	2975	5262	2149	3508	1322	3227	1190
2	17920	8080	16128	7238	14336	6397	12544	5555	10752	4713	8960	3872	7168	3030	5376	2189	3584	1347	3297	1212
3	18380	8246	16542	7387	14704	6529	12866	5670	11028	4811	9190	3952	7352	3093	5514	2234	3676	1375	3382	1237
4	18846	8413	16961	7537	15077	6660	13192	5784	11307	4908	9380	4032	7538	3155	5654	2279	3769	1403	3468	1262
5	19317	8580	17385	7686	15454	6792	13522	5899	11590	5005	9658	4111	7727	3218	5795	2324	3863	1430	3554	1287
6	24355	8201	21919	7347	19484	6493	17048	5638	14613	4784	12177	3930	9742	3076	7306	2222	4871	1367	4481	1251
7	25000	8330	22500	7462	20000	6595	17500	5727	15000	4859	12500	3992	10000	3124	7500	2256	5000	1389	4600	1250
8	25645	8459	23081	7578	20516	6697	17952	5816	15387	4935	12823	4054	10258	3172	7694	2291	5129	1410	4719	1269
9	26290	8588	23661	7693	21032	6799	18403	5904	15774	5010	13145	4115	10516	3221	7887	2326	5258	1432	4837	1289
10	26935	8717	24242	7809	21548	6901	18855	5993	16161	5085	13468	4177	10774	3269	8081	2361	5387	1453	4956	1308
11	27581	8846	24823	7925	22065	7003	19306	6082	16548	5160	13790	4239	11032	3318	8274	2396	5516	1475	5075	1327
12	28226	8975	25403	8040	22581	7105	19758	6170	16935	5236	14113	4301	11290	3366	8468	2431	5645	1496	5194	1347
13	28871	9104	25984	8156	23097	7207	20210	6259	17323	5311	14435	4363	11548	3414	8661	2466	5774	1518	5312	1366
14	22966	5325	20669	4770	18373	4215	16076	3661	13780	3106	11483	2552	9186	1997	6890	1442	4593	888	4226	799
15	23342	5325	21008	4770	18674	4215	16340	3661	14005	3106	11671	2552	9337	1997	7003	1442	4668	888	4295	799
16	23717	5325	21345	4770	18973	4215	16602	3661	14230	3106	11858	2552	9487	1997	7115	1442	4743	888	4364	799
17	24090	5325	21681	4770	19272	4215	16863	3661	14454	3106	12045	2552	9636	1997	7227	1442	4818	888	4432	799
18	24460	5325	22014	4770	19568	4215	17122	3661	14676	3106	12230	2552	9784	1997	7338	1442	4892	888	4501	799
19	24830	5325	22347	4770	19864	4215	17381	3661	14898	3106	12415	2552	9932	1997	7449	1442	4966	888	4569	799
20	25197	5325	22678	4770	20158	4215	17638	3661	15118	3106	12599	2552	10079	1997	7559	1442	5039	888	4636	799
21	25563	5325	23007	4770	20451	4215	17894	3661	15338	3106	12782	2552	10225	1997	7669	1442	5113	888	4704	799
22	25928	5325	23335	4770	20742	4215	18150	3661	15557	3106	12964	2552	10371	1997	7778	1442	5186	888	4771	799
23	26291	5325	23662	4770	21033	4215	18404	3661	15775	3106	13146	2552	10516	1997	7887	1442	5258	888	4838	799
24	26653	5325	23988	4770	21322	4215	18657	3661	15992	3106	13326	2552	10661	1997	7996	1442	5331	888	4904	799

Combination <Rated condition>

Indoor: RAV-HM801SDTY-E×3,RAV-HM561SDTY-E×4
Outdoor: RAV-GM2243AT8(J)P-E

Operation range	Cooling		Heating	
	Q	P	Q	P
MINIMUM	W 4600	1300	4600	1250
Night operation 1	W 10000	2246	11200	2543

*When outside air temperature is 40°C or more, the night operation does not operate.

Cooling

Outdoor Temperature DB (°C)	Parts Load (%)															
	100		90		80		70		60		50		40		30	
	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P
20	11925	1763	10733	1626	9540	1488	8348	1351	7155	1213	5963	1076	5486	1021	5486	1021
21	11797	1795	10617	1655	9437	1515	8258	1375	7078	1235	5898	1095	5426	1039	5426	1039
22	11668	1827	10502	1685	9335	1542	8168	1400	7001	1257	5834	1115	5367	1058	5367	1058
23	11540	1860	10386	1715	9232	1570	8078	1425	6924	1279	5770	1134	5308	1076	5308	1076
24	11412	1892	10271	1744	9129	1597	7988	1449	6847	1302	5706	1154	5249	1095	5249	1095
25	11283	1924	10155	1774	9027	1624	7898	1474	6770	1324	5642	1174	5190	1114	5190	1114
26	11155	1956	10040	1804	8924	1651	7809	1499	6693	1346	5578	1193	5131	1132	5131	1132
27	11027	1988	9924	1833	8821	1678	7719	1523	6616	1368	5513	1213	5072	1151	5072	1151
28	10898	2021	9809	1863	8719	1705	7629	1548	6539	1390	5449	1233	5013	1170	5013	1170
29	10770	2053	9693	1893	8616	1733	7539	1572	6462	1412	5385	1252	4954	1188	4954	1188
30	10642	2085	9578	1922	8513	1760	7449	1597	6385	1435	5321	1272	4895	1207	4895	1207
31	10513	2117	9462	1952	8411	1787	7359	1622	6308	1457	5257	1292	4836	1225	4836	1225
32	10385	2149	9347	1982	8308	1814	7270	1646	6231	1479	5193	1311	4777	1244	4777	1244
33	10257	2182	9231	2011	8205	1841	7180	1671	6154	1501	5128	1331	4718	1263	4718	1263
34	10128	2214	9116	2041	8103	1868	7090	1696	6077	1523	5064	1350	4659	1281	4659	1281
35	10000	2246	9000	2071	8000	1896	7000	1720	6000	1545	5000	1370	4600	1300	4600	1300
36	9872	2278	8885	2100	7897	1923	6910	1745	5923	1567	4936	1390	4541	1319	4541	1319
37	9743	2310	8769	2130	7795	1950	6820	1770	5846	1590	4872	1409	4482	1337	4482	1337
38	9615	2343	8654	2160	7692	1977	6731	1794	5769	1612	4808	1429	4423	1356	4423	1356
39	9216	2205	8294	2033	7373	1861	6451	1689	5529	1517	4608	1345	4239	1276	4239	1276
40*	18072	7304	16265	6521	14458	5739	12650	4956	10843	4173	9036	3390	7229	2607	5422	1824
41*	17713	7304	15941	6521	14170	5739	12399	4956	10628	4173	8856	3390	7085	2607	5314	1824
42*	17353	7304	15618	6521	13883	5739	12147	4956	10412	4173	8677	3390	6941	2607	5206	1824
43*	16994	7304	15294	6521	13595	5739	11896	4956	10196	4173	8497	3390	6797	2607	5098	1824
44*	15070	5681	13563	5072	12056	4463	10549	3854	9042	3246	7535	2637	6028	2028	4521	1419
45*	14711	5681	13240	5072	11768	4463	10297	3854	8826	3246	7355	2637	5884	2028	4413	1419
46*	14351	5681	12916	5072	11481	4463	10046	3854	8611	3246	7176	2637	5740	2028	4305	1419

Heating

Outdoor Temperature DB (°C)	Parts Load (%)															
	100		90		80		70		60		50		40		30	
	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P
-27	3034	1023	2731	935	2428	846	2124	758	1821	670	1517	582	1246	503	1246	503
-26	3222	1066	2900	974	2578	882	2255	790	1933	698	1611	606	1323	524	1323	524
-25	3410	1109	3069	1013	2728	918	2387	822	2046	726	1705	631	1400	545	1400	545
-24	3597	1152	3238	1053	2878	953	2518	854	2158	754	1799	655	1477	566	1477	566
-23	3785	1195	3406	1092	3028	989	2649	886	2271	783	1892	679	1555	587	1555	587
-22	3973	1238	3575	1131	3178	1024	2781	918	2384	811	1986	704	1632	609	1632	609
-21	4160	1281	3744	1171	3328	1060	2912	950	2496	839	2080	728	1709	630	1709	630
-20	4348	1324	3913	1210	3478	1096	3043	981	2609	867	2174	753	1786	651	1786	651
-19	4547	1361	4092	1244	3638	1126	3183	1009	2728	892	2274	774	1868	669	1868	669
-18	4746	1399	4272	1278	3797	1157	3322	1037	2848	916	2373	795	1949	687	1949	687
-17	4946	1436	4451	1312	3957	1188	3462	1064	2967	940	2473	816	2031	706	2031	706
-16	5145	1473	4630	1346	4116	1219	3601	1092	3087	965	2572	838	2113	724	2113	724
-15	5344	1510	4810	1380	4275	1250	3741	1119	3207	989	2672	859	2195	742	2195	742
-14	5497	1556	4947	1422	4398	1288	3848	1153	3298	1019	2749	885	2258	765	2258	765
-13	5650	1602	5085	1464	4520	1326	3955	1188	3390	1049	2825	911	2320	788	2320	788
-12	5803	1648	5222	1506	4642	1364	4062	1222	3482	1079	2901	937	2383	810	2383	810
-11	5956	1694	5360	1548	4764	1402	4169	1256	3573	1110	2978	963	2446	833	2446	833
-10	6108	1740	5498	1590	4887	1440	4276	1290	3665	1140	3054	990	2509	855	2509	855
-9	6261	1786	5635	1632	5009	1478	4383	1324	3757	1170	3131	1016	2572	878	2572	878
-8	6414	1832	5773	1674	5131	1516	4490	1358	3849	1200	3207	1042	2634	901	2634	901
-7	6567	1878	5910	1716	5254	1554	4597	1392	3940	1230	3284	1068	2697	923	2697	923
-6	6739	1920	6065	1754	5391	1589	4717	1423	4043	1257	3370	1092	2768	944	2768	944
-5	6911	1961	6220	1792	5529	1623	4838	1453	4147	1284	3456	1115	2839	964	2839	964
-4	7083	2002	6375	1830	5667	1657	4958	1484	4250	1311	3542	1139	2909	984	2909	984
-3	7255	2044	6530	1867	5804	1691	5079	1515	4353	1338	3628	1162	2980	1005	2980	1005
-2	7428	2085	6685	1905	5942	1725	5199	1545	4457	1365	3714	1186	3051	1025	3051	1025
-1	7600	2126	6840	1943	6080	1759	5320	1576	4560	1393	3800	1209	3121	1045	3121	1045
0	7772	2168	6995	1981	6217	1794	5440	1607	4663	1420	3886	1233	3192	1066	3192	1066
1	7944	2209	7149	2019	6355	1828	5561	1637	4766	1447	3972	1256	3263	1086	3263	1086
2	8116	2250	7304	2056	6493	1862	5681	1668	4870	1474	4058	1280	3333	1106	3333	1106
3	8249	2281	7424	2084	6599	1887	5774	1690	4949	1494	4124	1297	3388	1121	3388	1121
4	8382	2311	7544	2112	6705	1912	5867	1713	5029	1513	4191	1314	3443	1136	3443	1136
5	8515	2341	7663	2139	6812	1937	5960	1735	5109	1533	4257	1331	3497	1151	3497	1151
6	10911	2504	9820	2288	8729	2072	7638	1856	6547	1640	5455	1424	4481	1231	4481	1231
7	11200	2543	10080	2324	8960	2104	7840	1885	6720	1665	5600	1446	4600	1250	4600	1250
8	11489	2582	10340	2360	9191	2137	8042	1914	6893	1691	5745	1468	4719	1269	4719	1269
9	11778	2622	10600	2396	9422	2169	8245	1943	7067	1717	5889	1491	4837	1289	4837	1289
10	12067	2661	10860	2432	9654	2202	8447	1972	7240	1743	6034	1513	4956	1308	4956	1308
11	12356	2701	11121	2467	9885	2234	8649	2001	7414	1768	6178	1535	5075	1327	5075	1327
12	12645	2740	11381	2503	10116	2267	8852	2031	7587	1794	6323	1558	5194	1347	5194	1347
13	12934	2779	11641	2539	10347	2300	9054	2060	7761	1820	6467	1580	5312	1366	5312	1366
14	13223	2819	11901	2575	10579	2332	9256	2089	7934	1846	6612	1603	5431	1385	5431	1385
15	13512	2858	12161	2611	10810	2365	9459	2118	8107	1872	6756	1625	5550	1405	5550	140

Combination <Rated condition>

Indoor: RAV-HM801SDTY-E×3,RAV-HM561SDTY-E×4
Outdoor: RAV-GM2243AT8(J)P-E

Operation range	Cooling		Heating	
	Q	P	Q	P
MINIMUM	W	4600	1300	4600
Night operation 2	W	14000	3363	15680

*When outside air temperature is 40℃ or more, the night operation does not operate.

Cooling

Outdoor Temperature DB (℃)	Parts Load (%)															
	100		90		80		70		60		50		40		30	
	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P
20	16695	2640	15026	2399	13356	2158	11687	1916	10017	1675	8348	1434	6678	1193	5486	1021
21	16515	2688	14864	2443	13212	2197	11561	1951	9909	1706	8258	1460	6606	1215	5426	1039
22	16336	2736	14702	2486	13069	2236	11435	1986	9801	1736	8168	1486	6534	1236	5367	1058
23	16156	2785	14540	2530	12925	2276	11309	2021	9694	1767	8078	1513	6462	1258	5308	1076
24	15976	2833	14379	2574	12781	2315	11183	2056	9586	1798	7988	1539	6391	1280	5249	1095
25	15797	2881	14217	2618	12637	2355	11058	2091	9478	1828	7898	1565	6319	1302	5190	1114
26	15617	2929	14055	2662	12494	2394	10932	2126	9370	1859	7809	1591	6247	1323	5131	1132
27	15437	2977	13894	2705	12350	2433	10806	2161	9262	1889	7719	1617	6175	1345	5072	1151
28	15258	3026	13732	2749	12206	2473	10680	2196	9155	1920	7629	1643	6103	1367	5013	1170
29	15078	3074	13570	2793	12062	2512	10555	2231	9047	1950	7539	1670	6031	1389	4954	1188
30	14898	3122	13409	2837	11919	2552	10429	2266	8939	1981	7449	1696	5959	1411	4895	1207
31	14719	3170	13247	2881	11775	2591	10303	2301	8831	2012	7359	1722	5887	1432	4836	1225
32	14539	3218	13085	2924	11631	2630	10177	2336	8723	2042	7270	1748	5816	1454	4777	1244
33	14359	3267	12923	2968	11487	2670	10052	2371	8616	2073	7180	1774	5744	1476	4718	1263
34	14180	3315	12762	3012	11344	2709	9926	2406	8508	2103	7090	1801	5672	1498	4659	1281
35	14000	3363	12600	3056	11200	2748	9800	2441	8400	2134	7000	1827	5600	1519	4600	1300
36	13820	3411	12438	3100	11056	2788	9674	2476	8282	2165	6910	1853	5528	1541	4541	1319
37	13641	3459	12277	3143	10913	2827	9548	2511	8184	2195	6820	1879	5456	1563	4482	1337
38	13461	3508	12115	3187	10769	2867	9423	2546	8077	2226	6731	1905	5384	1585	4423	1356
39	13292	3557	11954	3230	10625	2906	9301	2581	7970	2257	6641	1931	5312	1607	4364	1375
40*	18072	7304	16265	6521	14458	5739	12650	4956	10843	4173	9036	3390	7229	2607	5422	1824
41*	17713	7304	15941	6521	14170	5739	12399	4956	10628	4173	8856	3390	7085	2607	5314	1824
42*	17353	7304	15618	6521	13883	5739	12147	4956	10412	4173	8677	3390	6941	2607	5206	1824
43*	16994	7304	15294	6521	13595	5739	11896	4956	10196	4173	8497	3390	6797	2607	5098	1824
44*	15070	5681	13563	5072	12056	4463	10549	3854	9042	3246	7535	2637	6028	2028	4521	1419
45*	14711	5681	13240	5072	11768	4463	10297	3854	8826	3246	7355	2637	5884	2028	4413	1419
46*	14351	5681	12916	5072	11481	4463	10046	3854	8611	3246	7176	2637	5740	2028	4305	1419

Heating

Outdoor Temperature DB (°C)	Parts Load (%)																			
	100		90		80		70		60		50		40		30		20		10	
	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P
-27	4248	1680	3823	1514	3399	1347	2974	1180	2549	1014	2124	847	1699	680	1274	514	1246	503	1246	503
-26	4511	1751	4060	1577	3609	1404	3158	1230	2707	1056	2255	883	1804	709	1353	535	1323	524	1323	524
-25	4774	1822	4296	1641	3819	1461	3341	1280	2864	1099	2387	918	1909	738	1432	557	1400	545	1400	545
-24	5036	1893	4533	1705	4029	1517	3525	1330	3022	1142	2518	954	2014	766	1511	579	1477	566	1477	566
-23	5299	1963	4769	1769	4239	1574	3709	1379	3179	1184	2649	990	2120	795	1590	600	1555	587	1555	587
-22	5562	2034	5005	1832	4449	1631	3893	1429	3337	1227	2781	1025	2225	824	1668	622	1632	609	1632	609
-21	5824	2105	5242	1896	4659	1687	4077	1479	3495	1270	2912	1061	2330	852	1747	644	1709	630	1709	630
-20	6087	2176	5478	1960	4870	1744	4261	1528	3652	1313	3043	1097	2435	881	1826	665	1786	651	1786	651
-19	6366	2237	5729	2015	5093	1793	4456	1571	3820	1349	3183	1128	2546	906	1910	684	1868	669	1868	669
-18	6645	2298	5980	2070	5316	1842	4651	1614	3987	1386	3322	1158	2658	930	1993	703	1949	687	1949	687
-17	6924	2359	6232	2125	5539	1891	4847	1657	4154	1423	3462	1189	2770	955	2077	721	2031	706	2031	706
-16	7203	2420	6483	2180	5762	1940	5042	1700	4322	1460	3601	1220	2881	980	2161	740	2113	724	2113	724
-15	7482	2481	6734	2235	5986	1989	5237	1743	4489	1497	3741	1251	2993	1005	2245	759	2195	742	2195	742
-14	7696	2557	6926	2303	6157	2050	5387	1796	4618	1543	3848	1289	3078	1035	2309	782	2258	765	2258	765
-13	7910	2632	7119	2371	6328	2110	5537	1849	4746	1588	3955	1327	3164	1066	2373	805	2320	788	2320	788
-12	8124	2708	7311	2439	6499	2171	5687	1902	4874	1634	4062	1365	3250	1097	2437	828	2383	810	2383	810
-11	8338	2784	7504	2508	6670	2232	5837	1955	5003	1679	4169	1403	3335	1127	2501	851	2446	833	2446	833
-10	8552	2859	7697	2576	6841	2292	5986	2009	5131	1725	4276	1441	3421	1158	2566	874	2509	855	2509	855
-9	8766	2935	7889	2644	7013	2353	6136	2062	5260	1771	4383	1480	3506	1188	2630	897	2572	878	2572	878
-8	8980	3011	8082	2712	7184	2413	6286	2115	5388	1816	4490	1518	3592	1219	2694	921	2634	901	2634	901
-7	9194	3086	8274	2780	7355	2474	6436	2168	5516	1862	4597	1556	3678	1250	2758	944	2697	923	2697	923
-6	9435	3154	8491	2841	7548	2528	6604	2216	5661	1903	4717	1590	3774	1277	2830	964	2768	944	2768	944
-5	9676	3222	8708	2902	7741	2583	6773	2263	5805	1944	4838	1624	3870	1305	2903	985	2839	964	2839	964
-4	9917	3290	8925	2964	7933	2637	6942	2311	5950	1985	4958	1659	3967	1332	2975	1006	2909	984	2909	984
-3	10158	3358	9142	3025	8126	2692	7110	2359	6095	2026	5079	1693	4063	1360	3047	1027	2980	1005	2980	1005
-2	10399	3426	9359	3086	8319	2746	7279	2406	6239	2067	5199	1727	4159	1387	3120	1047	3051	1025	3051	1025
-1	10639	3494	9576	3147	8512	2801	7448	2454	6384	2108	5320	1761	4256	1415	3192	1068	3121	1045	3121	1045
0	10880	3562	9792	3208	8704	2855	7616	2502	6528	2149	5440	1795	4352	1442	3264	1089	3192	1066	3192	1066
1	11121	3629	10009	3269	8897	2910	7785	2550	6673	2190	5561	1830	4449	1470	3336	1110	3263	1086	3263	1086
2	11362	3697	10226	3331	9090	2964	7954	2597	6817	2231	5681	1864	4545	1497	3409	1131	3333	1106	3333	1106
3	11548	3747	10394	3375	9239	3004	8084	2632	6929	2261	5774	1889	4619	1517	3465	1146	3388	1121	3388	1121
4	11735	3797	10561	3420	9388	3044	8214	2667	7041	2291	5867	1914	4694	1537	3520	1161	3443	1136	3443	1136
5	11921	3847	10729	3465	9537	3084	8344	2702	7152	2321	5960	1939	4768	1558	3576	1176	3497	1151	3497	1151
6	15275	4113	13748	3705	12220	3297	10693	2889	9165	2482	7388	2074	6110	1666	4583	1258	4481	1231	4481	1231
7	15680	4178	14112	3764	12544	3349	10976	2935	9408	2521	7840	2106	6272	1692	4704	1277	4600	1250	4600	1250
8	16085	4243	14476	3822	12868	3401	11259	2980	9651	2560	8242	2139	6434	1718	4825	1297	4719	1269	4719	1269
9	16489	4307	14840	3880	13191	3453	11543	3026	9894	2599	8645	2171	6596	1744	4947	1317	4837	1289	4837	1289
10	16894	4372	15205	3938	13515	3505	11826	3071	10136	2638	9047	2204	6758	1770	5068	1337	4956	1308	4956	1308
11	17299	4437	15569	3997	13839	3557	12109	3117	10379	2677	9449	2237	6919	1797	5190	1357	5075	1327	5075	1327
12	17703	4501	15933	4055	14163	3609	12392	3162	10622	2716	9852	2269	7081	1823	5311	1376	5194	1347	5194	1347
13	18108	4566	16297	4113	14486	3660	12676	3208	10865	2755	10254	2302	7243	1849	5432	1396	5312	1366	5312	1366
14	18513	4631	16661	4172	14810	3712	12959	3253	11108	2794	10656	2334	7405	1875	5554	1416	5431	1385	5431	1385
15	18917	4696	17025	4230	15134	3764	13242	3298	11350	2833	10959	2367	7567	1901	5675	1436	5550	1405	5550	1405
16	19322	4760	17390	4288	15457	3816	13525	3344	11593	2872	11261	2400	7729	1928	5797	1456	5668	1424	5668	1424
17	19726	4825	17754	4346	15781	3868	13809	3389	11836	2911	11567	2432	7891	1954	5918	1475	5787	1444	5787	1444
18	20131	4890	18118	4405	16105	3920	14092	3435	12079	2950	11878	2465	8052	1980	6039	1495	5906	1463	5906	1463
19	20536	4954	18482	4463	16429	3972	14375	3480	12321	2989	12189	2498	8214	2006	6161	1515	6025	1482	6025	1482
20	20940	5019	18846	4521	16752	4023	14658	3526	12564	3028	12500	2530	8376	2032	6282	1535	6143	1502	6143	1502
21	21345	5084	19211	4580	17076	4075	14942	3571	12807	3067	12813	2563	8538	2059	6404	1554	6262	1521	6262	1521
22	21750	5148	19575	4638	17400	4127	15225	3617	13050	3106	13127	2595	8700	2085	6525	1574	6381	1540	6381	1540
23	22154	5213	19939	4696	17723	4179	15508	3662	13293	3145	13442	2628	8862	2111	6646	1594	6499	1560	6499	1560
24	22559	5278	20303	4754	18047	4231	15791	3707	13535	3184	13759	2661	9024	2137	6768	1614	6618	1579	6618	1579

Combination <Rated condition>

Indoor: RAV-HM801SDTY-E×3,RAV-HM561SDTY-E×4
Outdoor: RAV-GM2243AT8(J)P-E

Operation range	Cooling		Heating	
	Q	P	Q	P
MINIMUM	W 4600	1300	4600	1250
Night operation 3	W 18000	5325	20160	6149

*When outside air temperature is 40°C or more, the night operation does not operate.

Cooling		Parts Load (%)																					
Outdoor Temperature DB (°C)		100		90		80		70		60		50		40		30		20		10			
		Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P				
20		21465	4180	19319	3756	17172	3331	15026	2907	12879	2482	10733	2058	8586	1634	6440	1209	5486	1021	5486	1021		
21		21234	4256	19111	3824	16987	3392	14864	2960	12740	2528	10617	2096	8494	1663	6370	1231	5426	1039	5426	1039		
22		21003	4333	18903	3893	16802	3453	14702	3013	12602	2573	10502	2133	8401	1693	6301	1253	5367	1058	5367	1058		
23		20772	4409	18695	3961	16618	3514	14540	3066	12463	2618	10386	2171	8309	1723	6232	1275	5308	1076	5308	1076		
24		20541	4485	18487	4030	16433	3575	14379	3119	12325	2664	10271	2208	8216	1753	6162	1297	5249	1095	5249	1095		
25		20310	4562	18279	4099	16248	3635	14217	3172	12186	2709	10155	2246	8124	1783	6093	1320	5190	1114	5190	1114		
26		20079	4638	18071	4167	16063	3696	14055	3225	12047	2754	10040	2283	8032	1813	6024	1342	5131	1132	5131	1132		
27		19848	4714	17863	4236	15878	3757	13894	3278	11909	2800	9924	2321	7939	1842	5954	1364	5072	1151	5072	1151		
28		19617	4791	17655	4304	15694	3818	13732	3331	11770	2845	9809	2359	7847	1872	5885	1386	5013	1170	5013	1170		
29		19386	4867	17447	4373	15509	3879	13570	3385	11632	2890	9693	2396	7754	1902	5816	1408	4954	1188	4954	1188		
30		19155	4943	17240	4441	15324	3940	13409	3438	11493	2936	9578	2434	7662	1932	5747	1430	4895	1207	4895	1207		
31		18924	5020	17032	4510	15139	4000	13247	3491	11354	2981	9462	2471	7570	1962	5677	1452	4836	1225	4836	1225		
32		18693	5096	16824	4579	14954	4061	13085	3544	11216	3026	9347	2509	7477	1991	5608	1474	4777	1244	4777	1244		
33		18462	5172	16616	4647	14770	4122	12923	3597	11077	3072	9231	2546	7385	2021	5539	1496	4718	1263	4718	1263		
34		18231	5249	16408	4716	14585	4183	12762	3650	10939	3117	9116	2584	7292	2051	5469	1518	4659	1281	4659	1281		
35		18000	5325	16200	4784	14400	4244	12600	3703	10800	3162	9000	2622	7200	2081	5400	1540	4600	1300	4600	1300		
36		17769	5401	15992	4853	14215	4304	12438	3756	10661	3208	8885	2659	7108	2111	5331	1562	4541	1319	4541	1319		
37		17538	5478	15784	4921	14030	4365	12277	3809	10523	3253	8769	2697	7015	2141	5261	1584	4482	1337	4482	1337		
38		17307	5554	15576	4990	13846	4426	12115	3862	10384	3298	8654	2734	6923	2170	5192	1607	4423	1356	4423	1356		
39		16588	5228	14929	4697	13271	4166	11612	3635	9953	3105	8294	2574	6635	2043	4976	1512	4239	1276	4239	1276		
40*		18072	7304	16265	6521	14458	5739	12650	4956	10843	4173	9036	3390	7229	2607	5422	1824	4157	1276	4157	1276		
41*		17713	7304	15941	6521	14170	5739	12399	4956	10628	4173	8856	3390	7085	2607	5314	1824	4074	1276	4074	1276		
42*		17353	7304	15618	6521	13883	5739	12147	4956	10412	4173	8677	3390	6941	2607	5206	1824	3991	1276	3991	1276		
43*		16994	7304	15294	6521	13595	5739	11896	4956	10196	4173	8497	3390	6797	2607	5098	1824	3909	1276	3909	1276		
44*		15070	5681	13563	5072	12056	4463	10549	3854	9042	3246	7535	2637	6028	2028	4521	1419	3466	993	3466	993		
45*		14711	5681	13240	5072	11768	4463	10297	3854	8826	3246	7355	2637	5884	2028	4413	1419	3383	993	3383	993		
46*		14351	5681	12916	5072	11481	4463	10046	3854	8611	3246	7176	2637	5740	2028	4305	1419	3301	993	3301	993		

Heating Outdoor Temperature DB (°C)	Parts Load (%)																					
	100		90		80		70		60		50		40		30		20		10			
	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P		
-27	5462	2473	4916	2218	4370	1963	3823	1707	3277	1452	2731	1197	2185	941	1639	686	1246	503	1246	503		
-26	5800	2577	5220	2311	4640	2045	4060	1779	3480	1513	2900	1247	2320	981	1740	715	1323	524	1323	524		
-25	6137	2681	5524	2405	4910	2128	4296	1851	3682	1574	3069	1297	2455	1021	1841	744	1400	545	1400	545		
-24	6475	2785	5828	2498	5180	2210	4533	1923	3885	1635	3238	1348	2590	1060	1943	773	1477	566	1477	566		
-23	6813	2890	6132	2591	5450	2293	4769	1995	4088	1697	3406	1398	2725	1100	2044	802	1555	587	1555	587		
-22	7151	2994	6436	2685	5720	2376	5005	2067	4290	1758	3575	1449	2860	1140	2145	831	1632	609	1632	609		
-21	7488	3098	6740	2778	5991	2458	5242	2139	4493	1819	3744	1499	2995	1179	2247	859	1709	630	1709	630		
-20	7826	3202	7043	2871	6261	2541	5478	2210	4696	1880	3913	1549	3130	1219	2348	888	1786	651	1786	651		
-19	8185	3292	7366	2952	6548	2612	5729	2273	4911	1933	4092	1593	3274	1253	2455	913	1868	669	1868	669		
-18	8543	3382	7688	3033	6835	2684	5980	2335	5126	1986	4272	1636	3417	1287	2563	938	1949	687	1949	687		
-17	8902	3472	8012	3113	7122	2755	6232	2397	5341	2038	4451	1680	3561	1322	2671	963	2031	706	2031	706		
-16	9261	3562	8335	3194	7409	2826	6483	2459	5557	2091	4630	1723	3704	1356	2778	988	2113	724	2113	724		
-15	9620	3652	8658	3275	7696	2898	6734	2521	5772	2144	4810	1767	3848	1390	2886	1013	2195	742	2195	742		
-14	9895	3763	8905	3375	7916	2986	6926	2598	5937	2209	4947	1821	3958	1432	2968	1044	2258	765	2258	765		
-13	10170	3874	9153	3474	8136	3074	7119	2675	6102	2275	5085	1875	4068	1475	3051	1075	2320	788	2320	788		
-12	10445	3986	9400	3574	8356	3163	7311	2751	6267	2340	5222	1929	4178	1517	3133	1106	2383	810	2383	810		
-11	10720	4097	9648	3674	8576	3251	7504	2828	6432	2405	5360	1982	4288	1560	3216	1137	2446	833	2446	833		
-10	10995	4208	9896	3774	8796	3339	7697	2905	6597	2471	5498	2036	4398	1602	3299	1167	2509	855	2509	855		
-9	11270	4320	10143	3874	9016	3428	7889	2982	6762	2536	5635	2090	4508	1644	3381	1198	2572	878	2572	878		
-8	11546	4431	10391	3973	9236	3516	8082	3059	6927	2601	5773	2144	4618	1687	3464	1229	2634	901	2634	901		
-7	11821	4542	10639	4073	9457	3604	8274	3136	7092	2667	5910	2198	4728	1729	3546	1260	2697	923	2697	923		
-6	12130	4642	10917	4163	9704	3684	8491	3205	7278	2725	6065	2246	4852	1767	3639	1288	2768	944	2768	944		
-5	12440	4742	11196	4253	9952	3763	8708	3274	7464	2784	6220	2295	4976	1805	3732	1316	2839	964	2839	964		
-4	12750	4842	11475	4342	10200	3842	8925	3343	7650	2843	6375	2343	5100	1843	3825	1343	2909	984	2909	984		
-3	13060	4942	11754	4432	10448	3922	9142	3412	7836	2901	6530	2391	5224	1881	3918	1371	2980	1005	2980	1005		
-2	13370	5042	12033	4521	10696	4001	9359	3481	8022	2960	6685	2440	5348	1919	4011	1399	3051	1025	3051	1025		
-1	13679	5142	12311	4611	10943	4080	9576	3550	8208	3019	6840	2488	5472	1957	4104	1426	3121	1045	3121	1045		
0	13989	5242	12590	4701	11191	4160	9792	3618	8393	3077	6995	2536	5596	1995	4197	1454	3192	1066	3192	1066		
1	14299	5342	12869	4790	11439	4239	10009	3687	8579	3136	7149	2585	5720	2033	4290	1482	3263	1086	3263	1086		
2	14609	5442	13148	4880	11687	4318	10226	3756	8765	3195	7304	2633	5843	2071	4383	1510	3333	1106	3333	1106		
3	14848	5515	13363	4946	11878	4376	10394	3807	8909	3238	7424	2668	5939	2099	4454	1530	3388	1121	3388	1121		
4	15087	5588	13579	5011	12070	4434	10561	3858	9052	3281	7544	2704	6035	2127	4526	1550	3443	1136	3443	1136		
5	15327	5661	13794	5077	12261	4492	10729	3908	9196	3324	7663	2739	6131	2155	4598	1571	3497	1151	3497	1151		
6	19640	6054	17676	5429	12712	4804	13748	4179	11784	3554	9820	2929	7856	2304	5892	1679	4481	1231	4481	1231		
7	20160	6149	18144	5514	16128	4880	14112	4245	12096	3610	10080	2975	8064	2341	6048	1706	4600	1250	4600	1250		
8	20680	6244	18612	5600	16544	4955	14476	4311	12408	3666	10340	3021	8272	2377	6204	1732	4719	1269	4719	1269		
9	21201	6339	19080	5685	16960	5031	14840	4376	12720	3722	10600	3067	8480	2413	6360	1759	4837	1289	4837	1289		
10	21721	6435	19549	5770	17377	5106	15205	4442	13032	3778	10860	3114	8688	2449	6516	1785	4956	1308	4956	1308		
11	22241	6530	20017	5856	17793	5182	15569	4508	13345	3834	11121	3160	8896	2486	6672	1812	5075	1327	5075	1327		
12	22761	6625	20485	5941	18209	5257	15933	4573	13657	3890	11381	3206	9105	2522	6828	1838	5194	1347	5194	1347		
13	23282	6720	20953	6027	18625	5333	16297	4639	13969	3945	11641	3252	9313	2558	6984	1864	5312	1366	5312	1366		
14	23802	6815	21422	6112	19041	5408	16661	4705	14281	4001	11901	3298	9521	2594	7141	1891	5431	1385	5431	1385		
15	24322	6911	21890	6197	19458	5484	17025	4771	14593	4057	12161	3344	9729	2631	7297	1917	5550	1405	5550	1405		
16	24842	7006	22358	6283	19874	5560	17390	4836	14905	4113	12421	3390	9937	2667	7453	1944	5668	1424	5668	1424		
17	25363	7101	22826	6368	20290	5635	17754	4902	15218	4169	12681	3436	10145	2703	7609	1970	5787	1444	5787	1444		
18	25883	7196	23295	6453	20706	5711	18118	4968	15530	4225	12941	3482	10353	2739	7765	1996	5906	1463	5906	1463		
19	26403	7292	23763	6539	21122	5786	18482	5034	15842	4281	13202	3528	10561	2776	7921	2023	6025	1482	6025	1482		
20	26923	7387	24231	6624	21539	5862	18846	5099	16154	4337	13462	3574	10769	2812	8077	2049	6143	1502	6143	1502		
21	27444	7482	24699	6710	21955	5937	19211	5165	16466	4393	13722	3620	10977	2848	8233	2076	6262	1521	6262	1521		
22	27964	7577	25167	6795	22371	6013	19575	5231	16778	4449	13982	3666	11186	2884	8389	2102	6381	1540	6381	1540		
23	28484	7672	25636	6880	22787	6088	19939	5296	17090	4504	14242	3712	11394	2920	8545	2129	6499	1560	6499	1560		
24	29004	7768	26104	6966	23204	6164	20303	5362	17403	4560	14502	3759	11602	2957	8701	2155	6618	1579	6618	1579		

Combination <Rated condition>

Indoor: RAV-HM801SDTY-E×3, RAV-HM561SDTY-E×4
Outdoor: RAV-GM2803AT(8J)P-E

Operation range	Cooling		Heating	
	Q	P	Q	P
MINIMUM	W 4600	1330	4600	1280
RATING	W 23500	10550	24000	9670

Cooling

Outdoor Temperature DB (°C)	Parts Load (%)																			
	100		90		80		70		60		50		40		30		20		10	
	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P
20	28024	8282	25221	7382	22419	6482	19617	5582	16814	4682	14012	3782	11210	2882	8407	1982	5605	1082	5486	1044
21	27722	8433	24950	7517	22178	6600	19406	5684	16633	4768	13861	3851	11089	2935	8317	2018	5544	1102	5426	1063
22	27421	8584	24679	7651	21936	6719	19194	5786	16452	4853	13710	3920	10968	2987	8226	2055	5484	1122	5367	1082
23	27119	8735	24407	7786	21695	6837	18983	5888	16271	4939	13560	3989	10848	3040	8136	2091	5424	1142	5308	1101
24	26817	8887	24136	7921	21454	6955	18772	5990	16090	5024	13409	4058	10727	3093	8045	2127	5363	1161	5249	1120
25	26516	9038	23864	8056	21213	7074	18561	6092	15910	5109	13258	4127	10606	3145	7955	2163	5303	1181	5190	1139
26	26214	9189	23593	8191	20971	7192	18350	6194	15729	5195	13107	4196	10486	3198	7864	2199	5243	1201	5131	1158
27	25913	9340	23321	8325	20730	7310	18139	6295	15548	5280	12956	4266	10365	3251	7774	2236	5183	1221	5072	1177
28	25611	9491	23050	8460	20489	7429	17928	6397	15367	5366	12806	4335	10244	3303	7683	2272	5122	1240	5013	1197
29	25310	9643	22779	8595	20248	7547	17717	6499	15186	5451	12655	4404	10124	3356	7593	2308	5062	1260	4954	1216
30	25008	9794	22507	8730	20006	7665	17506	6601	15005	5537	12504	4473	10003	3408	7502	2344	5002	1280	4895	1235
31	24706	9945	22236	8864	19765	7784	17294	6703	14824	5622	12353	4542	9883	3461	7412	2380	4941	1300	4836	1254
32	24405	10096	21964	8999	19524	7902	17083	6805	14643	5708	12202	4611	9762	3514	7321	2417	4881	1319	4777	1273
33	24103	10248	21693	9134	19283	8020	16872	6907	14462	5793	12052	4680	9641	3566	7231	2453	4821	1339	4718	1292
34	23802	10399	21421	9269	19041	8139	16661	7009	14281	5879	11901	4749	9521	3619	7140	2489	4760	1359	4659	1311
35	23500	10550	21150	9404	18800	8257	16450	7111	14100	5965	11750	4818	9400	3672	7050	2525	4700	1379	4600	1330
36	23198	10701	20879	9538	18559	8376	16239	7213	13919	6050	11599	4887	9279	3724	6960	2561	4640	1399	4541	1349
37	22897	10852	20607	9673	18317	8494	16028	7315	13738	6135	11448	4956	9159	3777	6869	2598	4579	1418	4482	1368
38	22595	11004	20336	9808	18076	8612	15817	7417	13557	6221	11298	5025	9038	3829	6779	2634	4519	1438	4423	1387
39	19405	7559	17464	6738	15524	5916	13583	5095	11643	4274	9702	3452	7762	2631	5821	1809	3881	988	3798	953
40	18982	7559	17084	6738	15186	5916	13287	5095	11389	4274	9491	3452	7593	2631	5695	1809	3796	988	3716	953
41	18559	7559	16703	6738	14847	5916	12991	5095	11135	4274	9279	3452	7424	2631	5568	1809	3712	988	3633	953
42	18136	7559	16322	6738	14509	5916	12695	5095	10881	4274	9068	3452	7254	2631	5441	1809	3627	988	3550	953
43	17713	7559	15941	6738	14170	5916	12399	5095	10628	4274	8856	3452	7085	2631	5314	1809	3543	988	3467	953
44	15940	5879	14346	5241	12752	4602	11158	3963	9564	3324	7970	2685	6376	2046	4782	1407	3188	768	3120	741
45	15517	5879	13965	5241	12414	4602	10862	3963	9310	3324	7759	2685	6207	2046	4655	1407	3103	768	3037	741
46	15094	5879	13585	5241	12075	4602	10566	3963	9056	3324	7547	2685	6038	2046	4528	1407	3019	768	2955	741

Heating

Outdoor Temperature DB (°C)	Parts Load (%)																			
	100		90		80		70		60		50		40		30		20		10	
	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P
-27	6522	3536	5870	3157	5217	2777	4565	2397	3913	2018	3261	1638	2609	1259	1957	879	1304	500	1250	468
-26	6988	3750	6289	3348	5590	2945	4891	2543	4193	2140	3494	1738	2795	1335	2096	933	1398	530	1339	496
-25	7453	3965	6708	3539	5963	3113	5217	2688	4472	2262	3727	1837	2981	1411	2236	986	1491	560	1429	525
-24	7919	4179	7127	3730	6335	3282	5543	2833	4752	2385	3960	1936	3168	1488	2376	1039	1584	591	1518	553
-23	8385	4393	7547	3921	6708	3450	5870	2978	5031	2507	4193	2035	3354	1564	2516	1092	1677	621	1607	581
-22	8851	4607	7966	4113	7081	3618	6196	3124	5311	2629	4425	2135	3540	1640	2655	1146	1770	651	1696	610
-21	9317	4821	8385	4304	7453	3786	6522	3269	5590	2751	4658	2234	3727	1716	2795	1199	1863	681	1786	638
-20	9783	5036	8804	4495	7826	3955	6848	3414	5870	2874	4891	2333	3913	1793	2935	1252	1957	712	1875	667
-19	10109	5177	9098	4621	8087	4066	7076	3510	6065	2954	5054	2399	4043	1843	3033	1287	2022	732	1938	685
-18	10435	5318	9391	4748	8348	4177	7304	3606	6261	3035	5217	2464	4174	1893	3130	1322	2087	752	2000	704
-17	10761	5460	9685	4874	8609	4288	7533	3702	6457	3116	5380	2530	4304	1944	3228	1358	2152	772	2063	723
-16	11087	5601	9978	5000	8870	4399	7761	3798	6652	3196	5543	2595	4435	1994	3326	1393	2217	792	2125	741
-15	11413	5743	10272	5126	9130	4510	7989	3894	6848	3277	5707	2661	4565	2044	3424	1428	2283	812	2188	760
-14	11753	5918	10577	5283	9402	4647	8227	4012	7052	3377	5876	2742	4701	2107	3526	1471	2351	836	2253	783
-13	12092	6093	10883	5439	9674	4785	8465	4131	7255	3477	6046	2823	4837	2169	3628	1515	2418	861	2318	806
-12	12432	6268	11189	5595	9946	4922	8702	4250	7459	3577	6216	2904	4973	2231	3730	1558	2486	886	2383	830
-11	12772	6443	11495	5751	10217	5060	8940	4368	7663	3677	6386	2985	5109	2294	3832	1602	2554	910	2448	853
-10	13111	6618	11800	5908	10489	5197	9178	4487	7867	3777	6556	3066	5245	2356	3933	1646	2622	935	2513	876
-9	13451	6793	12106	6064	10761	5335	9416	4606	8071	3876	6726	3147	5380	2418	4035	1689	2690	960	2578	899
-8	13791	6968	12412	6220	11033	5472	9654	4724	8274	3976	6895	3228	5516	2481	4137	1733	2758	985	2643	922
-7	14130	7143	12717	6376	11304	5610	9891	4843	8478	4076	7065	3310	5652	2543	4239	1776	2826	1009	2708	946
-6	14493	7300	13043	6517	11594	5733	10145	4949	8696	4166	7246	3382	5797	2599	4348	1815	2899	1032	2778	966
-5	14855	7457	13370	6657	11884	5856	10399	5056	8913	4256	7428	3455	5942	2655	4457	1854	2971	1054	2847	987
-4	15217	7615	13696	6797	12174	5980	10652	5163	9130	4345	7609	3528	6087	2711	4565	1893	3043	1076	2917	1008
-3	15580	7772	14022	6938	12464	6103	10906	5269	9348	4435	7790	3601	6232	2767	4674	1932	3116	1098	2986	1029
-2	15942	7929	14348	7078	12754	6227	11159	5376	9565	4525	7971	3674	6377	2823	4783	1972	3188	1120	3056	1050
-1	16304	8086	14674	7218	13043	6350	11413	5482	9783	4614	8152	3746	6522	2879	4891	2011	3261	1143	3125	1070
0	16667	8243	15000	7358	13333	6474	11667	5589	10000	4704	8333	3819	6667	2934	5000	2050	3333	1165	3194	1091

Combination <Capacity range (Max)>

Indoor: RAV-HM801SDTY-E×3, RAV-HM561SDTY-E×4
Outdoor: RAV-GM2803AT8(J)P-E

Operation range	Cooling				Heating			
	Q	P	Q	P	Q	P	Q	P
MINIMUM	W 4600	1330	4600	1280				
RATING	W 23500	10550	24000	9670				
MAXIMUM	W 25000	10870	28000	9330				

Cooling

Outdoor Temperature DB (°C)	Parts Load (%)															
	100		90		80		70		60		50		40		30	
	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P
20	32126	10276	28914	9171	25701	8065	22488	6960	19276	5855	16063	4750	12850	3645	9638	2539
21	31780	10463	28602	9338	25424	8213	22246	7087	19068	5962	15890	4837	12712	3711	9534	2586
22	31435	10651	28291	9506	25148	8360	22004	7214	18861	6069	15717	4923	12574	3778	9430	2632
23	31089	10839	27980	9673	24871	8507	21762	7341	18653	6176	15544	5010	12436	3844	9327	2678
24	30558	10870	27502	9701	24446	8532	21391	7363	18335	6194	15279	5024	12223	3855	9167	2686
25	30002	10870	27001	9701	24001	8532	21001	7363	18001	6194	15001	5024	12001	3855	9000	2686
26	29457	10870	26511	9701	23565	8532	20620	7363	17674	6194	14728	5024	11783	3855	8837	2686
27	28923	10870	26031	9701	23139	8532	20246	7363	17354	6194	14462	5024	11569	3855	8677	2686
28	28400	10870	25560	9701	22720	8532	19880	7363	17040	6194	14200	5024	11360	3855	8520	2686
29	27888	10870	25099	9701	22310	8532	19521	7363	16733	6194	13944	5024	11155	3855	8366	2686
30	27385	10870	24646	9701	21908	8532	19169	7363	16431	6194	13692	5024	10954	3855	8215	2686
31	26891	10870	24202	9701	21513	8532	18823	7363	16134	6194	13445	5024	10756	3855	8067	2686
32	26406	10870	23765	9701	21125	8532	18484	7363	15843	6194	13203	5024	10562	3855	7922	2686
33	25929	10870	23336	9701	20743	8532	18150	7363	15558	6194	12965	5024	10372	3855	7779	2686
34	25461	10870	22915	9701	20369	8532	17823	7363	15276	6194	12730	5024	10184	3855	7638	2686
35	25000	10870	22500	9701	20000	8532	17500	7363	15000	6194	12500	5024	10000	3855	7500	2686
36	24547	10870	22092	9701	19637	8532	17183	7363	14728	6194	12273	5024	9819	3855	7364	2686
37	24100	10870	21690	9701	19280	8532	16870	7363	14460	6194	12050	5024	9640	3855	7230	2686
38	23661	10870	21295	9701	18929	8532	16563	7363	14197	6194	11830	5024	9464	3855	7098	2686
39	20021	7247	18019	6467	16017	5688	14015	4908	12013	4129	10011	3350	8008	2570	6006	1791
40	19585	7247	17626	6467	15668	5688	13709	4908	11751	4129	9792	3350	7834	2570	5875	1791
41	19148	7247	17233	6467	15318	5688	13404	4908	11489	4129	9574	3350	7659	2570	5744	1791
42	18712	7247	16840	6467	14969	5688	13098	4908	11227	4129	9356	3350	7485	2570	5613	1791
43	18275	7247	16448	6467	14620	5688	12793	4908	10965	4129	9138	3350	7310	2570	5483	1791
44	16446	5636	14802	5030	13157	4424	11512	3818	9868	3211	8223	2605	6578	1999	4934	1393
45	16010	5636	14409	5030	12808	4424	11207	3818	9606	3211	8005	2605	6404	1999	4803	1393
46	15573	5636	14016	5030	12459	4424	10901	3818	9344	3211	7787	2605	6229	1999	4672	1393

Heating

Outdoor Temperature DB (°C)	Parts Load (%)																			
	100		90		80		70		60		50		40		30		20		10	
	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P
-27	9856	6451	8871	5785	7885	5119	6899	4453	5914	3787	4928	3121	3943	2455	2957	1789	1971	1123	1619	885
-26	10560	6842	9504	6136	8448	5429	7392	4723	6336	4017	5280	3310	4224	2604	3168	1897	2112	1191	1735	939
-25	11264	7233	10138	6486	9012	5739	7885	4993	6759	4246	5632	3499	4506	2752	3379	2006	2253	1259	1851	992
-24	11968	7624	10772	6837	9575	6050	8378	5262	7181	4475	5984	3688	4787	2901	3591	2114	2394	1327	1966	1046
-23	12672	8015	11405	7187	10138	6360	8871	5532	7603	4705	6336	3877	5069	3050	3802	2222	2534	1395	2082	1100
-22	13376	8405	12039	7537	10701	6670	9364	5802	8026	4934	6688	4066	5351	3199	4013	2331	2675	1463	2198	1153
-21	14081	8796	12672	7888	11264	6980	9856	6072	8448	5164	7040	4255	5632	3347	4224	2439	2816	1531	2313	1207
-20	14785	9187	13306	8238	11828	7290	10349	6341	8871	5393	7392	4444	5914	3496	4435	2548	2957	1599	2429	1260
-19	15277	9445	13750	8470	12222	7495	10694	6520	9166	5544	7639	4569	6111	3594	4583	2619	3055	1644	2510	1296
-18	15770	9703	14193	8701	12616	7699	11039	6698	9462	5696	7885	4694	6308	3692	4731	2691	3154	1689	2591	1331
-17	16263	9961	14637	8933	13010	7904	11384	6876	9758	5847	8132	4819	6505	3791	4879	2762	3253	1734	2672	1367
-16	16756	10219	15080	9164	13405	8109	11729	7054	10053	5999	8378	4944	6702	3889	5027	2834	3351	1779	2753	1402
-15	17249	10477	15524	9395	13799	8314	12074	7232	10349	6150	8624	5069	6899	3987	5175	2905	3450	1824	2834	1437
-14	17762	10796	15986	9682	14210	8567	12433	7453	10657	6338	8881	5223	7105	4109	5329	2994	3552	1879	2918	1481
-13	18275	11116	16448	9968	14620	8821	12793	7673	10965	6525	9138	5378	7310	4230	5483	3082	3655	1935	3002	1525
-12	18789	11435	16910	10255	15031	9074	13152	7893	11273	6713	9394	5532	7515	4352	5637	3171	3758	1990	3087	1569
-11	19302	11754	17372	10541	15442	9327	13511	8114	11581	6900	9651	5687	7721	4473	5791	3260	3860	2046	3171	1613
-10	19815	12074	17834	10827	15852	9581	13871	8334	11889	7088	9908	5841	7926	4595	5945	3348	3963	2102	3255	1656
-9	20329	12393	18296	11114	16263	9834	14230	8555	12197	7275	10164	5996	8132	4716	6099	3437	4066	2157	3340	1700
-8	20842	12713	18758	11400	16674	10088	14589	8775	12505	7463	10421	6150	8337	4838	6253	3525	4168	2231	3424	1744
-7	21355	13032	19220	11686	17084	10341	14949	8996	12813	7650	10678	6305	8542	4959	6407	3614	4271	2268	3508	1788
-6	21903	13319	19713	11944	17522	10569	15332	9193	13142	7818	10952	6443	8761	5068	6571	3693	4381	2318	3598	1827
-5	22451	13605	20206	12201	17960	10796	15715	9391	13470	7987	11225	6582	8980	5177	6735	3773	4490	2368	3688	1867
-4	22998	13892	20698	12458	18399	11024	16099	9589	13799	8155	11499	6721	9199	5287	6899	3852	4600	2418	3778	1906
-3	23546	14179	21191	12715	18837	11251	16482	9787	14127	8323	11773	6860	9418	5396	7064	3932	4709	2468	3868	1945
-2	24093	14466	21684	12972	19275	11479	16865	9985	14456	8492	12047	6998	9637	5505	7228	4011	4819	2518	3958	1985
-1	24641	14752	22177	13229	19713	11706	17249	10183	14785	8660	12320	7137	9856	5614	7392	4091	4928	2568	4048	2024
0	25188	15039	22670	13486	20151	11934	17632	10381	15113	8828	12594	7276	10075	5723	7557	4170	5038	2618	4138	2063
1	25736	15326	23162	13743	20589	12161	18015	10579	15442	8997	12868	7414	10294	5832	7721	4250	5147	2668	4228	2103
2	26284	15612	23655	14001	21027	12389	18399	10777	15770	9165	13142	7553	10513	5941	7885	4329	5257	2718	4318	2142
3	26863	15874	24176	14235	21490	12596	18804	10957	16118	9318	13431	7680	10745	6041	8059	4402	5373	2763	4413	2178
4	27448	16135	24703	14469	21958	12803	19213	11138	16469	9472	13724	7806	10979	6140	8234	4474	5490	2809	4509	2214
5	24422	9330	21980	8367	19538	7404	17096	6440	14653	5477	12211	4514	9769	3551	7327	2587	4884	1624	4012	1280
6	27472	9330	24724	8367	21977	7404	19230	6440	16483	5477	13736	4514	10989	3551	8241	2587	5494	1624	4513	1280
7	28000	9330	25200	8367	22400	7404	19600	6440	16800	5477	14000	4514	11200	3551	8400	2587	5600	1624	4600	1280
8	28524	9330	25672	8367	22819	7404	19967	6440	17115	5477	14262	4514	11410	3551	8557	2587	5705	1624	4686	1280
9	29045	9330	26140	8367	23236	7404	20331	6440	17427	5477	14522	4514	11618	3551	8713	2587	5809	1624	4772	1280
10	29561	9330	26605	8367	23649	7404	20693	6440	17737	5477	14781	4514	11825	3551	8868	2587	5912	1624	4857	1280
11	30075	9330	27067	8367	24060	7404	21052	6440	18045	5477	15037	4514	12030	3551	9022	2587	6015	1624	4941	1280
12	30584	9330	27526	8367	24468	7404	21409	6440	18351	5477	15292	4514	12234	3551	9175	2587	6117	1624	5025	1280
13	31091	9330	27982	8367	24873	7404	21764	6440	18655	5477	15545	4514	12436	3551	9327	2587	6218	1624	5108	1280
14	31594	9330	28435	8367	25276	7404	22116	6440	18957	5477	15797	4514	12638	3551	9478	2587	6319	1624	5191	1280
15	32095	9330	28885	8367	25676	7404	22466	6440	19257	5477	16047	4514	12838	3551	9628	2587	6419	1624	5273	1280
16	32593	9330	29333	8367	26074	7404	22815	6440	19556	5477	16296	4514	13037	3551	9778	2587	6519	1624	5354	1280
17	33631	9330	30268	8367	26904	7404	23541	6440	20178	5477	16815	4514	13452	3551	10089	2587	6726	1624	5525	1280
18	34207	9330	30786	8367	27366	7404	23945	6440	20524	5477	17103	4514	13683	3551	10262	2587	6841	1624	5620	1280
19	34783	9330	31305	8367	27827	7404	24348	6440	20870	5477	17392	4514	13913	3551	10435	2587	6957	1624	5714	1280
20	35360	9330	31824	8367	28288	7404	24752	6440	21216	5477	17680	4514	14144	3551	10608	2587	7072	1624	5809	1280
21	35936	9330	32343	8367	28749	7404	25155	6440	21562	5477	17968	4514	14374	3551	10781	2587	7187	1624	5904	1280
22	36513	9330	32861	8367	29210	7404	25559	6440	21908	5477	18256	4514	14605	3551	10954	2587	7303	1624	5998	1280
23	37089	9330	33380	8367	29671	7404	25962	6440	22253	5477	18544	4514	14836	3551	11127	2587	7418	1624	6093	1280
24	37665	9330	33899	8367	30132	7404	26366	6440	22599	5477	18833	4514	15066	3551	11300	2587	7533	1624	6188	1280

Combination <Rated condition>

Indoor: RAV-HM801SDTY-E×3, RAV-HM561SDTY-E×4
Outdoor: RAV-GM2803AT8(J)P-E

Operation range	Cooling		Heating	
	Q	P	Q	P
MINIMUM	W 4600	1330	4600	1280
Night operation 1	W 11750	3498	12000	2975

* When outside air temperature is 40°C or more, the night operation does not operate.

Cooling

Outdoor Temperature DB (°C)	Parts Load (%)															
	100		90		80		70		60		50		40		30	
	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P
20	14012	2746	12611	2466	11210	2187	9808	1907	8407	1627	7006	1348	5605	1068	5486	1044
21	13861	2796	12475	2511	11089	2226	9703	1942	8317	1657	6931	1372	5544	1087	5426	1063
22	13710	2846	12339	2556	10968	2266	9597	1977	8226	1687	6855	1397	5484	1107	5367	1082
23	13560	2896	12204	2601	10848	2306	9492	2011	8136	1716	6780	1421	5424	1126	5308	1101
24	13409	2946	12068	2646	10727	2346	9386	2046	8045	1746	6704	1446	5363	1146	5249	1120
25	13258	2997	11932	2691	10606	2386	9281	2081	7955	1776	6629	1471	5303	1165	5190	1139
26	13107	3047	11796	2736	10486	2426	9175	2116	7864	1805	6554	1495	5243	1185	5131	1158
27	12956	3097	11661	2781	10365	2466	9069	2151	7774	1835	6478	1520	5183	1204	5072	1177
28	12806	3147	11525	2827	10244	2506	8964	2185	7683	1865	6403	1544	5122	1224	5013	1197
29	12655	3197	11389	2872	10124	2546	8858	2220	7593	1895	6327	1569	5062	1243	4954	1216
30	12504	3247	11254	2917	10003	2586	8753	2255	7502	1924	6252	1594	5002	1263	4895	1235
31	12353	3297	11118	2962	9883	2626	8647	2290	7412	1954	6177	1618	4941	1282	4836	1254
32	12202	3348	10982	3007	9762	2666	8542	2325	7321	1984	6101	1643	4881	1302	4777	1273
33	12052	3398	10846	3052	9641	2706	8436	2360	7231	2013	6026	1667	4821	1321	4718	1292
34	11901	3448	10711	3097	9521	2746	8331	2394	7140	2043	5950	1692	4760	1341	4659	1311
35	11750	3498	10575	3142	9400	2785	8225	2429	7050	2073	5875	1717	4700	1360	4600	1330
36	11599	3548	10439	3187	9279	2825	8119	2464	6960	2103	5800	1741	4640	1380	4541	1349
37	11448	3598	10304	3232	9159	2865	8014	2499	6869	2132	5724	1766	4579	1399	4482	1368
38	11298	3648	10168	3277	9038	2905	7908	2534	6779	2162	5649	1790	4519	1419	4423	1387
39	9702	2506	8732	2251	7762	1996	6792	1741	5821	1485	4851	1230	3881	975	3798	953
40*	18982	7559	17084	6730	15186	5900	13287	5071	11389	4242	9491	3412	7593	2583	5695	1753
41*	18559	7559	16703	6730	14847	5900	12991	5071	11135	4242	9279	3412	7424	2583	5568	1753
42*	18136	7559	16322	6730	14509	5900	12695	5071	10881	4242	9068	3412	7254	2583	5441	1753
43*	17713	7559	15941	6730	14170	5900	12399	5071	10628	4242	8856	3412	7085	2583	5314	1753
44*	15940	5879	14346	5234	12752	4589	11158	3944	9561	3299	7970	2654	6376	2009	4782	1364
45*	15517	5879	13965	5234	12414	4589	10862	3944	9310	3299	7759	2654	6207	2009	4655	1364
46*	15094	5879	13585	5234	12075	4589	10566	3944	9056	3299	7547	2654	6038	2009	4528	1364

Heating

Outdoor Temperature DB (°C)	Parts Load (%)																			
	100		90		80		70		60		50		40		30		20		10	
	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P
-27	3261	1088	2935	987	2609	887	2283	786	1957	686	1630	585	1304	485	1250	468	1250	468	1250	468
-26	3494	1154	3144	1047	2795	941	2446	834	2096	727	1747	621	1398	514	1339	496	1339	496	1339	496
-25	3727	1220	3354	1107	2981	994	2609	882	2236	769	1863	656	1491	544	1429	525	1429	525	1429	525
-24	3960	1286	3564	1167	3168	1048	2772	929	2376	810	1980	692	1584	573	1518	553	1518	553	1518	553
-23	4193	1351	3773	1227	3354	1102	2935	977	2516	852	2096	727	1677	602	1607	581	1607	581	1607	581
-22	4425	1417	3983	1286	3540	1155	3098	1025	2655	894	2213	763	1770	632	1696	610	1696	610	1696	610
-21	4658	1483	4193	1346	3727	1209	3261	1072	2795	935	2329	798	1863	661	1786	638	1786	638	1786	638
-20	4891	1549	4402	1406	3913	1263	3424	1120	2935	977	2446	834	1957	690	1875	667	1875	667	1875	667
-19	5054	1593	4549	1446	4043	1298	3538	1151	3033	1004	2527	857	2022	710	1938	685	1938	685	1938	685
-18	5217	1636	4696	1485	4174	1334	3652	1183	3130	1032	2609	880	2087	729	2000	704	2000	704	2000	704
-17	5380	1680	4842	1525	4304	1369	3766	1214	3228	1059	2690	904	2152	749	2063	723	2063	723	2063	723
-16	5543	1723	4989	1564	4435	1405	3880	1246	3326	1086	2772	927	2217	768	2125	741	2125	741	2125	741
-15	5707	1767	5136	1604	4565	1440	3995	1277	3424	1114	2853	951	2283	787	2188	760	2188	760	2188	760
-14	5876	1821	5289	1652	4701	1484	4113	1316	3526	1148	2938	980	2351	811	2253	783	2253	783	2253	783
-13	6046	1874	5442	1701	4837	1528	4232	1355	3628	1182	3023	1009	2418	835	2318	806	2318	806	2318	806
-12	6216	1928	5594	1750	4973	1572	4351	1394	3730	1216	3108	1038	2486	859	2383	830	2383	830	2383	830
-11	6386	1982	5747	1799	5109	1616	4470	1433	3832	1250	3193	1066	2554	883	2448	853	2448	853	2448	853
-10	6556	2036	5900	1848	5245	1660	4589	1472	3933	1284	3278	1095	2622	907	2513	876	2513	876	2513	876
-9	6726	2090	6053	1897	5380	1704	4708	1511	4035	1318	3363	1124	2690	931	2578	899	2578	899	2578	899
-8	6895	2144	6206	1946	5516	1748	4827	1550	4137	1351	3448	1153	2758	955	2643	922	2643	922	2643	922
-7	7065	2198	6359	1995	5652	1792	4946	1588	4239	1385	3533	1182	2826	979	2708	946	2708	946	2708	946
-6	7246	2246	6522	2038	5797	1831	5072	1623	4348	1416	3623	1208	2899	1001	2778	966	2778	966	2778	966
-5	7428	2294	6685	2082	5942	1870	5199	1658	4457	1446	3714	1234	2971	1022	2847	987	2847	987	2847	987
-4	7609	2343	6848	2126	6087	1910	5326	1693	4565	1477	3804	1260	3043	1044	2917	1008	2917	1008	2917	1008
-3	7790	2391	7011	2170	6232	1949	5453	1728	4674	1507	3895	1286	3116	1066	2986	1029	2986	1029	2986	1029
-2	7971	2439	7174	2214	6377	1989	5580	1763	4783	1538	3986	1312	3188	1087	3056	1050	3056	1050	3056	1050
-1	8152	2488	7337	2258	6522	2028	5707	1798	4891	1568	4076	1338	3261	1109	3125	1070	3125	1070	3125	1070
0	8333	2536	7500	2302	6667	2067	5833	1833	5000	1599	4167	1364	3333	1130	3194	1091	3194	1091	3194	1091
1	8514	2584	7663	2346	6812	2107	5960	1868	5109	1629	4257	1391	3406	1152	3264	1112	3264	1112	3264	1112
2	8696	2633	7826	2390	6957	2146	6087	1903	5217	1660	4348	1417	3478	1173	3333	1133	3333	1133	3333	1133
3	8838	2668	7954	2422	7070	2175	6187	1929	5303	1682	4419	1436	3535	1189	3388	1148	3388	1148	3388	1148
4	8981	2704	8082	2454	7184	2204	6286	1954	5388	1704	4490	1455	3592	1205	3443	1163	3443	1163	3443	1163
5	9123	2739	8211	2486	7298	2233	6386	1980	5474	1727	4561	1474	3649	1221	3497	1178	3497	1178	3497	1178
6	11690	2929	10521	2658	9352	2388	8183	2117	7014	1846	5845	1576	4676	1305	4481	1260	4481	1260	4481	1260
7	12000	2975	10800	2700	9600	2425	8400	2150	7200	1876	6000	1601	4800	1326	4600	1280	4600	1280	4600	1280
8	12310	3021	11079	2742	9848	2463	8617	2184	7386	1905	6155	1625	4924	1346	4719	1300	4719	1300	4719	1300
9	12619	3067	11357	2784	10095	2500	8834	2217	7572	1934	6310	1650	5048	1367	4837	1320	4837	1320	4837	1320
10	12929	3113	11636	2826	10343	2538	9050	2250	7757	1963	6465	1675	5172	1387	4956	1339	4956	1339	4956	1339
11	13239	3159	11915	2867	10591	2575	9267	2284	7943	1992	6619	1700	5295	1408	5075	1359	5075	1359	5075	1359
12	13548	3205	12194	2909	10839	2613	9484	2317	8129	2021	6774	1725	5419	1428	5194	1379	5194	1379	5194	1379
13	13858	3251	12472	2951	11086	2651	9701	2350	8315	2050	6929	1749	5543	1449	5312	1399	5312	1399	5312	1399
14	14168	3297	12751	2993	11334	2688	9917	2383	8501	2079	7084	1774	5667	1470	5431	1419	5431	1419	5431	1419
15	14477	3344	13030	3035	11582	2726	10134	2417	8686	2108	7239	1799	5791	1490	5550	1439	5550	1439	5550	1439
16	14787	3390	13308	3076	11830	2763	10351	2450	8872	2137	7394	1824	5915	1511	5668	1458	5668	1458	5668	1458
17	12283	2129	11055	1932	9827	1735	8598	1539	7370	1342	6142	1145	4913	949	4709	916	4709	916	4709	916
18	12494	2129	11245	1932	9995	1735	8746	1539	7496	1342	6247	1145	4998	949	4789	916	4789	916	4789	916
19	12704	2129	11434	1932	10164	1735	8893	1539	7623	1342	6352	1145	5082	949	4870	916	4870	916	4870	916
20	12915	2129	11624	1932	10332	1735	9041	1539	7749	1342	6458	1145	5166	949	4951	916	4951	916	4951	916
21	13126	2129	11813	1932	10500	1735	9188	1539	7875	1342	6563	1145	5250	949	5031	916	5031	916	5031	916
22	13336	2129	12002	1932	10669	1735	9335	1539	8002	1342	6668	1145	5334	949	5112	916	5112	916	5112	916
23	13547	2129	12192	1932	10837	1735	9483	1539	8128	1342	6773	1145	5419	949	5193	916	5193	916	5193	916
24	13757	2129	12381	1932	11006	1735	9630	1539	8254	1342	6879	1145	5503	949	5274	916	5274	916	5274	916

Combination <Rated condition>

Indoor: RAV-HM801SDTY-E×3, RAV-HM561SDTY-E×4
Outdoor: RAV-GM2803AT8(J)P-E

Operation range	Cooling		Heating	
	Q	P	Q	P
MINIMUM	W 4600	1330	4600	1280
Night operation 2	W 16450	5414	16800	4574

* When outside air temperature is 40°C or more, the night operation does not operate.

Cooling

Outdoor Temperature DB (°C)	Parts Load (%)															
	100		90		80		70		60		50		40		30	
	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P
20	19617	4250	17655	3805	15593	3360	13732	2915	11770	2470	9808	2025	7847	1580	5885	1135
21	19406	4328	17465	3874	15524	3421	13584	2968	11643	2515	9703	2062	7762	1609	5822	1155
22	19194	4405	17275	3944	15356	3483	13436	3021	11517	2560	9597	2099	7678	1637	5758	1176
23	18983	4483	17085	4013	15187	3544	13288	3075	11390	2605	9492	2136	7593	1666	5695	1197
24	18772	4560	16895	4083	15018	3605	13141	3128	11263	2650	9386	2173	7509	1695	5632	1218
25	18561	4638	16705	4152	14849	3667	12993	3181	11137	2695	9281	2210	7424	1724	5568	1238
26	18350	4716	16515	4222	14680	3728	12845	3234	11010	2740	9175	2247	7340	1753	5505	1259
27	18139	4793	16325	4291	14511	3789	12697	3287	10883	2785	9069	2284	7256	1782	5442	1280
28	17928	4871	16135	4361	14342	3851	12549	3341	10757	2831	8964	2321	7171	1810	5378	1300
29	17717	4948	15945	4430	14173	3912	12402	3394	10630	2876	8858	2358	7087	1839	5315	1321
30	17506	5026	15755	4500	14004	3973	12254	3447	10503	2921	8753	2394	7002	1868	5252	1342
31	17294	5104	15565	4569	13836	4035	12106	3500	10377	2966	8647	2431	6918	1897	5188	1363
32	17083	5181	15375	4639	13667	4096	11958	3554	10250	3011	8542	2468	6833	1926	5125	1383
33	16872	5259	15185	4708	13498	4157	11811	3607	10123	3056	8436	2505	6749	1955	5062	1404
34	16661	5336	14995	4778	13329	4219	11663	3660	9997	3101	8331	2542	6664	1984	4998	1425
35	16450	5414	14805	4847	13160	4280	11515	3713	9870	3146	8225	2579	6580	2012	4935	1445
36	16239	5492	14615	4917	12991	4341	11367	3766	9743	3191	8119	2616	6496	2041	4872	1466
37	16028	5569	14425	4986	12822	4403	11219	3820	9617	3236	8014	2653	6411	2070	4808	1487
38	15817	5647	14235	5055	12653	4464	11072	3873	9490	3282	7908	2690	6327	2099	4745	1508
39	15606	5724	14045	5124	12484	4525	10924	3926	9363	3333	7803	2727	6242	2128	4682	1529
40*	15395	5802	13855	5193	12315	4586	10776	3979	9236	3384	7698	2764	6157	2157	4619	1550
41*	15184	5879	13665	5262	12146	4647	10628	4032	9109	3435	7593	2801	6072	2186	4556	1571
42*	14973	5957	13475	5331	11977	4708	10480	4085	8982	3486	7488	2838	5987	2215	4493	1592
43*	14762	6034	13285	5400	11808	4769	10332	4138	8855	3537	7383	2875	5902	2244	4430	1613
44*	14551	6112	13095	5469	11639	4830	10184	4191	8728	3588	7278	2912	5817	2273	4367	1634
45*	14340	6189	12905	5538	11475	4891	10036	4244	8603	3639	7173	2949	5732	2302	4304	1655
46*	14129	6267	12715	5607	11306	4952	9888	4297	8478	3690	7068	2986	5647	2331	4241	1676

Heating

Outdoor DB (°C)	Parts Load (%)																			
	100		90		80		70		60		50		40		30		20		10	
	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P
-27	4565	1673	4109	1507	3652	1341	3196	1175	2739	1009	2283	843	1826	677	1370	512	1250	468	1250	468
-26	4891	1774	4402	1598	3913	1422	3424	1246	2935	1070	2446	894	1957	718	1467	543	1339	496	1339	496
-25	5217	1875	4696	1689	4174	1503	3652	1317	3130	1131	2609	945	2087	759	1565	573	1429	525	1429	525
-24	5543	1977	4989	1781	4435	1585	3880	1389	3326	1193	2772	997	2217	800	1663	604	1518	553	1518	553
-23	5870	2078	5283	1872	4696	1666	4109	1460	3522	1254	2935	1048	2348	842	1761	635	1607	581	1607	581
-22	6196	2179	5576	1963	4957	1747	4337	1531	3717	1315	3098	1099	2478	883	1859	666	1696	610	1696	610
-21	6522	2281	5870	2054	5217	1828	4565	1602	3913	1376	3261	1150	2609	924	1957	697	1786	638	1786	638
-20	6848	2382	6163	2146	5478	1909	4793	1673	4109	1437	3424	1201	2739	965	2054	728	1875	667	1875	667
-19	7076	2449	6368	2206	5661	1963	4953	1720	4246	1477	3538	1235	2830	992	2123	749	1938	685	1938	685
-18	7304	2516	6574	2266	5843	2017	5113	1767	4383	1518	3652	1268	2922	1019	2191	769	2000	704	2000	704
-17	7533	2583	6779	2326	6026	2070	5273	1814	4520	1558	3766	1302	3013	1046	2260	790	2063	723	2063	723
-16	7761	2649	6985	2387	6209	2124	5433	1861	4657	1598	3880	1336	3104	1073	2328	810	2125	741	2125	741
-15	7989	2716	7190	2447	6391	2178	5592	1908	4793	1639	3995	1369	3196	1100	2397	831	2188	760	2188	760
-14	8227	2799	7404	2522	6582	2244	5759	1966	4936	1689	4113	1411	3291	1134	2468	856	2253	783	2253	783
-13	8465	2882	7618	2596	6772	2310	5925	2025	5079	1739	4232	1453	3386	1167	2539	881	2318	806	2318	806
-12	8702	2965	7832	2671	6962	2377	6092	2083	5221	1789	4351	1495	3481	1201	2611	907	2383	830	2383	830
-11	8940	3048	8046	2745	7152	2443	6258	2141	5364	1839	4470	1536	3576	1234	2682	932	2448	853	2448	853
-10	9178	3130	8260	2820	7342	2509	6425	2199	5507	1889	4589	1578	3671	1268	2753	957	2513	876	2513	876
-9	9416	3213	8474	2894	7533	2576	6591	2257	5649	1939	4708	1620	3766	1301	2825	983	2578	899	2578	899
-8	9654	3296	8688	2969	7723	2642	6757	2315	5792	1989	4827	1662	3861	1335	2896	1008	2643	922	2643	922
-7	9891	3379	8902	3044	7913	2709	6924	2374	5935	2038	4946	1703	3957	1368	2967	1033	2708	946	2708	946
-6	10145	3453	9130	3111	8116	2768	7101	2426	6087	2083	5072	1741	4058	1398	3043	1056	2787	966	2778	966
-5	10399	3527	9359	3178	8319	2828	7279	2478	6239	2128	5199	1778	4159	1429	3120	1079	2847	987	2847	987
-4	10652	3602	9587	3245	8522	2887	7457	2530	6391	2173	5326	1816	4261	1459	3196	1101	2917	1008	2917	1008
-3	10906	3676	9815	3312	8725	2947	7634	2582	6543	2218	5453	1853	4362	1489	3272	1124	2986	1029	2986	1029
-2	11159	3750	10043	3379	8928	3007	7812	2635	6696	2263	5580	1891	4464	1519	3348	1147	3056	1050	3056	1050
-1	11413	3825	10272	3445	9130	3066	7989	2687	6848	2308	5707	1928	4565	1549	3424	1170	3125	1070	3125	1070
0	11667	3899	10500	3512	9333	3126	8167	2739	7000	2352	5833	1966	4667	1579	3500	1192	3194	1091	3194	1091
1	11920	3973	10728	3579	9536	3185	8344	2791	7152	2393	5960	2003	4768	1609	3576	1215	3264	1112	3264	1112
2	12174	4048	10957	3646	9739	3245	8522	2844	7304	2442	6087	2041	4870	1639	3652	1238	3333	1133	3333	1133
3	12373	4102	11136	3695	9899	3289	8661	2882	7424	2475	6187	2068	4949	1661	3712	1255	3388	1148	3388	1148
4	12573	4157	11315	3744	10058	3332	8801	2920	7544	2508	6286	2096	5029	1683	3772	1271	3443	1163	3443	1163
5	12772	4211	11495	3793	10218	3376	8941	2958	7663	2541	6386	2123	5109	1705	3832	1288	3497	1178	3497	1178
6	16366	4503	14730	4057	13093	3610	11457	3163	9820	2717	8183	2270	6547	1824	4910	1377	4481	1260	4481	1260
7	16800	4574	15120	4120	13440	3667	11760	3213	10080	2760	8400	2306	6720	1852	5040	1399	4600	1280	4600	1280
8	17234	4645	15510	4184	13787	3724	12063	3263	10340	2802	8617	2342	6893	1881	5170	1420	4719	1300	4719	1300
9	17667	4716	15900	4248	14134	3780	12367	3313	10600	2845	8834	2377	7067	1910	5300	1442	4837	1320	4837	1320
10	18101	4786	16291	4312	14481	3837	12670	3362	10860	2888	9050	2413	7240	1938	5430	1464	4956	1339	4956	1339
11	18534	4857	16681	4376	14827	3894	12974	3412	11121	2931	9267	2449	7414	1967	5560	1485	5075	1359	5075	1359
12	18968	4928	17071	4439	15174	3951	13277	3462	11381	2973	9484	2485	7587	1996	5690	1507	5194	1379	5194	1379
13	19401	4999	17461	4503	15521	4007	13581	3512	11641	3016	9701	2520	7761	2024	5820	1529	5312	1399	5312	1399
14	19835	5070	17851	4567	15868	4064	13884	3561	11901	3059	9917	2556	7934	2053	5950	1550	5431	1419	5431	1419
15	20268	5141	18242	4631	16215	4121	14188	3611	12161	3101	10134	2592	8107	2082	6081	1572	5550	1439	5550	1439
16	20702	5211	18632	4695	16562	4178	14491	3661	12421	3144	10351	2627	8281	2111	6211	1594	5668	1458	5668	1458
17	17197	3273	15477	2948	13757	2624	12038	2299	10318	1974	8598	1650	6879	1325	5159	1001	4709	916	4709	916
18	17492	3273	15742	2948	13993	2624	12244	2299	10495	1974	8746	1650	6997	1325	5247	1001	4789	916	4789	916
19	17786	3273	16008	2948	14229	2624	12450	2299	10672	1974	8893	1650	7115	1325	5336	1001	4870	916	4870	916
20	18081	3273	16273	2948	14465	2624	12657	2299	10849	1974	9041	1650	7232	1325	5424	1001	4951	916	4951	916
21	18376	3273	16538	2948	14701	2624	12863	2299	11025	1974	9188	1650	7350	1325	5513	1001	5031	916	5031	916
22	18671	3273	16803	2948	14936	2624	13069	2299	11202	1974	9335	1650	7468	1325	5601	1001	5112	916	5112	916
23	18965	3273	17069	2948	15172	2624	13276	2299	11379	1974	9483	1650	7586	1325	5690	1001	5193	916	5193	916
24	19260	3273	17334	2948	15408	2624	13482	2299	11556	1974	9630	1650	7704	1325	5778	1001	5274	916	5274	916

Combination <Rated condition>

Indoor: RAV-HM801SDTY-E×3, RAV-HM561SDTY-E×4
Outdoor: RAV-GM2803AT8(J)P-E

Operation range	Cooling		Heating	
	Q	P	Q	P
MINIMUM	W 4600	1330	4600	1280
Night operation 3	W 21150	9001	21600	6617

* When outside air temperature is 40°C or more, the night operation does not operate.

Outdoor Temperature DB (°C)	Parts Load (%)															
	100		90		80		70		60		50		40		30	
	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P
20	25221	7066	22699	6296	20177	5527	17655	4757	15133	3988	12611	3218	10089	2449	7566	1679
21	24950	7195	22455	6411	19960	5628	17465	4844	14970	4060	12475	3277	9980	2493	7485	1710
22	24679	7324	22211	6526	19743	5729	17275	4931	14807	4133	12339	3336	9871	2538	7404	1740
23	24407	7453	21966	6641	19526	5829	17085	5018	14644	4206	12204	3394	9763	2583	7322	1771
24	24136	7582	21722	6756	19309	5930	16895	5105	14481	4279	12068	3453	9654	2627	7241	1802
25	23864	7711	21478	6871	19091	6031	16705	5191	14319	4352	11932	3512	9546	2672	7159	1832
26	23593	7840	21234	6986	18874	6132	16515	5278	14156	4424	11796	3571	9437	2717	7078	1863
27	23321	7969	20989	7101	18657	6233	16325	5365	13993	4497	11661	3629	9329	2761	6996	1894
28	23050	8098	20745	7216	18440	6334	16135	5452	13830	4570	11525	3688	9220	2806	6915	1924
29	22779	8227	20501	7331	18223	6435	15945	5539	13667	4643	11389	3747	9111	2851	6834	1955
30	22507	8356	20256	7446	18006	6536	15755	5626	13504	4716	11254	3806	9003	2896	6752	1986
31	22236	8485	20012	7561	17789	6637	15565	5713	13341	4789	11118	3864	8894	2940	6671	2016
32	21964	8614	19768	7676	17571	6738	15375	5799	13179	4861	10982	3923	8786	2985	6589	2047
33	21693	8743	19524	7791	17354	6839	15185	5886	13016	4934	10846	3982	8677	3030	6508	2078
34	21421	8872	19279	7906	17137	6939	14995	5973	12853	5007	10711	4041	8569	3074	6426	2108
35	21150	9001	19035	8021	16920	7040	14805	6060	12690	5080	10575	4099	8460	3119	6345	2139
36	20879	9130	18791	8136	16703	7141	14615	6147	12527	5153	10439	4158	8351	3164	6264	2169
37	20607	9259	18546	8251	16486	7242	14425	6234	12364	5225	10304	4217	8243	3209	6182	2200
38	20336	9388	18302	8366	16269	7343	14235	6321	12201	5298	10168	4276	8134	3253	6101	2231
39	17464	6449	15718	5747	13972	5045	12225	4342	10479	3640	8732	2937	6986	2235	5239	1532
40*	18982	7559	17084	6730	15186	5900	13287	5071	11389	4242	9491	3412	7593	2583	5695	1753
41*	18559	7559	16703	6730	14847	5900	12991	5071	11135	4242	9279	3412	7424	2583	5568	1753
42*	18136	7559	16322	6730	14509	5900	12695	5071	10881	4242	9068	3412	7254	2583	5441	1753
43*	17713	7559	15941	6730	14170	5900	12399	5071	10628	4242	8856	3412	7085	2583	5314	1753
44*	15940	5879	14346	5234	12752	4589	11158	3944	9564	3299	7970	2654	6376	2009	4782	1364
45*	15517	5879	13965	5234	12414	4589	10862	3944	9310	3299	7759	2654	6207	2009	4655	1364
46*	15094	5879	13585	5234	12075	4589	10566	3944	9056	3299	7547	2654	6038	2009	4528	1364

Heating		Parts Load (%)																		
Outdoor Temperature DB (°C)	100		90		80		70		60		50		40		30		20		10	
	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P
-27	5870	2420	5283	2172	4696	1924	4109	1676	3522	1428	2935	1180	2348	932	1761	684	1250	468	1250	468
-26	6289	2566	5660	2303	5031	2040	4402	1777	3773	1514	3144	1251	2516	988	1887	725	1339	496	1339	496
-25	6708	2713	6037	2435	5366	2157	4696	1879	4025	1601	3354	1323	2683	1045	2012	767	1429	525	1429	525
-24	7127	2859	6415	2566	5702	2273	4989	1980	4276	1687	3564	1394	2851	1101	2138	808	1518	553	1518	553
-23	7547	3006	6792	2698	6037	2390	5283	2082	4528	1774	3773	1466	3019	1158	2264	850	1607	581	1607	581
-22	7966	3153	7169	2829	6373	2506	5576	2183	4780	1860	3983	1537	3186	1214	2390	891	1696	610	1696	610
-21	8385	3299	7547	2961	6708	2623	5870	2285	5031	1947	4193	1609	3354	1271	2516	932	1786	638	1786	638
-20	8804	3446	7924	3093	7043	2739	6163	2386	5283	2033	4402	1680	3522	1327	2641	974	1875	667	1875	667
-19	9098	3542	8188	3179	7278	2816	6368	2453	5459	2090	4549	1727	3639	1364	2729	1001	1938	685	1938	685
-18	9391	3639	8452	3266	7513	2893	6574	2520	5635	2147	4696	1775	3757	1402	2817	1029	2000	704	2000	704
-17	9685	3736	8716	3353	7748	2970	6779	2587	5811	2205	4842	1822	3874	1439	2905	1056	2063	723	2063	723
-16	9978	3833	8980	3440	7983	3047	6985	2654	5987	2262	4989	1869	3991	1476	2993	1083	2125	741	2125	741
-15	10272	3930	9245	3527	8217	3124	7190	2722	6163	2319	5136	1916	4109	1513	3082	1111	2188	760	2188	760
-14	10577	4049	9520	3634	8462	3219	7404	2804	6346	2389	5289	1974	4231	1560	3173	1145	2253	783	2253	783
-13	10883	4169	9795	3742	8707	3315	7618	2887	6530	2460	5442	2033	4353	1606	3265	1178	2318	806	2318	806
-12	11189	4289	10070	3849	8951	3410	7832	2970	6713	2531	5594	2091	4476	1652	3357	1212	2383	830	2383	830
-11	11495	4409	10345	3957	9196	3505	8046	3053	6897	2602	5747	2150	4598	1698	3448	1246	2448	853	2448	853
-10	11800	4529	10620	4064	9440	3600	8260	3136	7080	2672	5900	2208	4720	1744	3540	1280	2513	876	2513	876
-9	12106	4648	10895	4172	9685	3696	8474	3219	7264	2743	6053	2267	4842	1790	3632	1314	2578	899	2578	899
-8	12412	4768	11171	4279	9929	3791	8688	3302	7447	2814	6206	2325	4965	1836	3724	1348	2643	922	2643	922
-7	12717	4888	11446	4387	10174	3886	8902	3385	7630	2884	6359	2383	5087	1882	3815	1381	2708	946	2708	946
-6	13043	4995	11739	4483	10435	3972	9130	3460	7826	2948	6522	2436	5217	1924	3913	1412	2778	966	2778	966
-5	13370	5103	12033	4580	10696	4057	9359	3534	8022	3011	6685	2488	5348	1965	4011	1442	2847	987	2847	987
-4	13696	5210	12326	4677	10957	4143	9587	3609	8217	3075	6848	2541	5478	2007	4109	1473	2917	1008	2917	1008
-3	14022	5318	12620	4773	11217	4228	9815	3683	8413	3138	7011	2593	5609	2048	4207	1503	2986	1029	2986	1029
-2	14348	5426	12913	4870	11478	4314	10043	3758	8609	3202	7174	2646	5739	2089	4304	1533	3056	1050	3056	1050
-1	14674	5533	13207	4966	11739	4399	10272	3832	8804	3265	7337	2698	5870	2131	4402	1564	3125	1070	3125	1070
0	15000	5641	13500	5063	12000	4485	10500	3906	9000	3328	7500	2750	6000	2172	4500	1594	3194	1091	3194	1091
1	15326	5748	13793	5159	12261	4570	10728	3981	9196	3392	7663	2803	6130	2214	4598	1625	3264	1112	3264	1112
2	15652	5856	14087	5256	12522	4656	10957	4055	9391	3455	7826	2855	6261	2255	4696	1655	3333	1133	3333	1133
3	15909	5934	14318	5326	12727	4718	11136	4110	9545	3502	7954	2894	6363	2285	4773	1677	3388	1148	3388	1148
4	16165	6013	14548	5397	12932	4781	11315	4165	9699	3548	8082	2932	6466	2316	4849	1700	3443	1163	3443	1163
5	16421	6092	14779	5468	13137	4843	11495	4219	9853	3595	8211	2970	6569	2346	4926	1722	3497	1178	3497	1178
6	21043	6515	18938	5847	16834	5179	14730	4512	12626	3844	10521	3176	8417	2509	6313	1841	4260	1481	4260	1481
7	21600	6617	19440	5939	17280	5261	15120	4583	12960	3905	10800	3226	8640	2548	6480	1870	4600	1280	4600	1280
8	22157	6719	19942	6031	17726	5342	15510	4654	13294	3965	11079	3276	8863	2588	6647	1899	4719	1300	4719	1300
9	22715	6822	20443	6123	18172	5424	15900	4725	13629	4025	11357	3326	9086	2627	6814	1928	4837	1320	4837	1320
10	23272	6924	20945	6215	18618	5505	16291	4796	13963	4086	11636	3376	9309	2667	6982	1957	4956	1339	4956	1339
11	23830	7027	21447	6307	19064	5587	16681	4866	14298	4146	11915	3426	9532	2706	7149	1986	5075	1359	5075	1359
12	24387	7129	21948	6399	19510	5668	17071	4937	14632	4207	12194	3476	9755	2746	7316	2015	5194	1379	5194	1379
13	24945	7232	22450	6491	19956	5750	17461	5008	14967	4267	12472	3526	9978	2785	7483	2044	5312	1399	5312	1399
14	25502	7334	22952	6583	20402	5831	17851	5079	15301	4328	12751	3576	10201	2825	7651	2073	5431	1419	5431	1419
15	26059	7437	23453	6675	20847	5912	18242	5150	15636	4388	13030	3626	10424	2864	7818	2102	5550	1439	5550	1439
16	26617	7539	23955	6766	21293	5994	18632	5221	15970	4449	13308	3676	10647	2903	7985	2131	5668	1458	5668	1458
17	22110	4734	19899	4249	17688	3764	15477	3279	13266	2794	11055	2308	8844	1823	6633	1338	4709	916	4709	916
18	22489	4734	20240	4249	17991	3764	15742	3279	13493	2794	11245	2308	8996	1823	6747	1338	4789	916	4789	916
19	22868	4734	20581	4249	18294	3764	16008	3279	13721	2794	11434	2308	9147	1823	6860	1338	4870	916	4870	916
20	23247	4734	20922	4249	18598	3764	16273	3279	13948	2794	11624	2308	9299	1823	6974	1338	4951	916	4951	916
21	23626	4734	21263	4249	18901	3764	16538	3279	14176	2794	11813	2308	9450	1823	7088	1338	5031	916	5031	916
22	24005	4734	21604	4249	19204	3764	16803	3279	14403	2794	12002	2308	9602	1823	7201	1338	5112	916	5112	916
23	24384	4734	21946	4249	19507	3764	17069	3279	14630	2794	12192	2308	9754	1823	7315	1338	5193	916	5193	916
24	24763	4734	22287	4249	19810	3764	17334	3279	14858	2794	12381	2308	9905	1823	7429	1338	5274	916	5274	916

Combination <Rated condition>

Indoor: RAV-HM561SDT-E x 4
Outdoor: RAV-GM2243AT8(J)P-E

Operation range	Cooling		Heating	
	Q	P	Q	P
MINIMUM	W 4600	1300	4600	1250
RATING	W 20000	6670	22400	6120

Cooling

Outdoor Temperature DB (°C)	Parts Load (%)																			
	100		90		80		70		60		50		40		30		20		10	
	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P
20	23850	5236	21465	4688	19080	4141	16695	3594	14310	3046	11925	2499	9540	1951	7155	1404	5486	1021	5486	1021
21	23593	5332	21234	4774	18875	4217	16515	3659	14156	3102	11797	2544	9437	1987	7078	1429	5426	1039	5426	1039
22	23337	5427	21003	4860	18669	4292	16336	3725	14002	3157	11668	2590	9335	2022	7001	1455	5367	1058	5367	1058
23	23080	5523	20772	4945	18464	4368	16156	3790	13848	3213	11540	2636	9232	2058	6924	1481	5308	1076	5308	1076
24	22823	5618	20541	5031	18259	4443	15976	3856	13694	3269	11412	2681	9129	2094	6847	1506	5249	1095	5249	1095
25	22567	5714	20310	5117	18053	4519	15797	3922	13540	3324	11283	2727	9027	2129	6770	1532	5190	1114	5190	1114
26	22310	5810	20079	5202	17848	4595	15617	3987	13386	3380	11155	2772	8924	2165	6693	1558	5131	1132	5131	1132
27	22053	5905	19848	5288	17643	4670	15437	4053	13232	3435	11027	2818	8821	2201	6616	1583	5072	1151	5072	1151
28	21797	6001	19617	5373	17437	4746	15258	4118	13078	3491	10898	2864	8719	2236	6539	1609	5013	1170	5013	1170
29	21540	6096	19386	5459	17232	4822	15078	4184	12924	3547	10770	2909	8616	2272	6462	1634	4954	1188	4954	1188
30	21283	6192	19155	5545	17027	4897	14898	4250	12770	3602	10642	2955	8513	2307	6385	1660	4895	1207	4895	1207
31	21027	6288	18924	5630	16821	4973	14719	4315	12616	3658	10513	3000	8411	2343	6308	1686	4836	1225	4836	1225
32	20770	6383	18693	5716	16616	5048	14539	4381	12462	3714	10385	3046	8308	2379	6231	1711	4777	1244	4777	1244
33	20513	6479	18462	5801	16411	5124	14359	4447	12308	3769	10257	3092	8205	2414	6154	1737	4718	1263	4718	1263
34	20257	6574	18231	5887	16205	5200	14180	4512	12154	3825	10128	3137	8103	2450	6077	1763	4659	1281	4659	1281
35	20000	6670	18000	5973	16000	5275	14000	4578	12000	3880	10000	3183	8000	2486	6000	1788	4600	1300	4600	1300
36	19743	6766	17769	6058	15795	5351	13820	4643	11846	3936	9872	3229	7897	2521	5923	1814	4541	1319	4541	1319
37	19487	6861	17538	6144	15589	5426	13641	4709	11692	3992	9743	3274	7795	2557	5846	1839	4482	1337	4482	1337
38	19230	6957	17307	6229	15384	5502	13461	4775	11538	4047	9615	3320	7692	2592	5769	1865	4423	1356	4423	1356
39	18431	6548	16588	5864	14745	5179	12902	4494	11059	3810	9216	3125	7373	2440	5529	1756	4239	1276	4239	1276
40	18072	6548	16265	5864	14458	5179	12650	4494	10843	3810	9036	3125	7229	2440	5422	1756	4157	1276	4157	1276
41	17713	6548	15941	5864	14170	5179	12399	4494	10628	3810	8856	3125	7085	2440	5314	1756	4074	1276	4074	1276
42	17353	6548	15618	5864	13883	5179	12147	4494	10412	3810	8677	3125	6941	2440	5206	1756	3991	1276	3991	1276
43	16994	6548	15294	5864	13595	5179	11896	4494	10196	3810	8497	3125	6797	2440	5098	1756	3909	1276	3909	1276
44	15070	5093	13563	4561	12056	4028	10549	3496	9042	2963	7535	2430	6028	1898	4521	1365	3466	993	3466	993
45	14711	5093	13240	4561	11768	4028	10297	3496	8826	2963	7355	2430	5884	1898	4413	1365	3383	993	3383	993
46	14351	5093	12916	4561	11481	4028	10046	3496	8611	2963	7176	2430	5740	1898	4305	1365	3301	993	3301	993

Heating

Outdoor Temperature DB (°C)	Parts Load (%)																			
	100		90		80		70		60		50		40		30		20		10	
	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P
-27	6069	2461	5462	2215	4855	1968	4248	1722	3641	1476	3034	1229	2428	983	1821	736	1246	503	1246	503
-26	6444	2565	5800	2308	5155	2051	4511	1794	3866	1538	3222	1281	2578	1024	1933	767	1323	524	1323	524
-25	6819	2669	6137	2401	5455	2134	4774	1867	4092	1600	3410	1333	2728	1065	2046	798	1400	545	1400	545
-24	7195	2772	6475	2495	5756	2217	5036	1939	4317	1662	3597	1384	2878	1107	2158	829	1477	566	1477	566
-23	7570	2876	6813	2588	6056	2300	5299	2012	4542	1724	3785	1436	3028	1148	2271	860	1555	587	1555	587
-22	7945	2980	7151	2681	6356	2383	5562	2084	4767	1786	3973	1488	3178	1189	2384	891	1632	609	1632	609
-21	8320	3083	7488	2775	6656	2466	5824	2157	4992	1848	4160	1539	3328	1231	2496	922	1709	630	1709	630
-20	8696	3187	7826	2868	6957	2549	6087	2229	5217	1910	4348	1591	3478	1272	2609	953	1786	651	1786	651
-19	9094	3276	8185	2948	7275	2620	6366	2292	5457	1964	4547	1636	3638	1308	2728	980	1868	669	1868	669
-18	9493	3366	8543	3029	7594	2692	6645	2355	5696	2018	4746	1681	3797	1344	2848	1006	1949	687	1949	687
-17	9891	3455	8902	3109	7913	2763	6924	2417	5935	2071	4946	1725	3957	1379	2967	1033	2031	706	2031	706
-16	10290	3545	9261	3190	8232	2835	7203	2480	6174	2125	5145	1770	4116	1415	3087	1060	2113	724	2113	724
-15	10688	3634	9620	3271	8551	2907	7482	2543	6413	2179	5344	1815	4275	1451	3207	1087	2195	742	2195	742
-14	10994	3745	9895	3370	8795	2995	7696	2620	6596	2245	5497	1870	4398	1495	3298	1120	2258	765	2258	765
-13	11300	3856	10170	3470	9040	3084	7910	2698	6780	2311	5650	1925	4520	1539	3390	1153	2320	788	2320	788
-12	11606	3967	10445	3570	9284	3172	8124	2775	6963	2378	5803	1981	4642	1583	3482	1186	2383	810	2383	810
-11	11911	4078	10720	3669	9529	3261	8338	2853	7147	2444	5956	2036	4764	1628	3573	1219	2446	833	2446	833
-10	12217	4188	10995	3769	9774	3350	8552	2930	7330	2511	6108	2091	4887	1672	3665	1252	2509	855	2509	855
-9	12523	4299	11270	3869	10018	3438	8766	3008	7514	2577	6261	2147	5009	1716	3757	1286	2572	878	2572	878
-8	12828	4410	11546	3968	10263	3527	8980	3085	7697	2644	6414	2202	5131	1760	3849	1319	2634	901	2634	901
-7	13134	4521	11821	4068	10507	3615	9194	3163	7880	2710	6567	2257	5254	1805	3940	1352	2697	923	2697	923
-6	13478	4620	12130	4158	10783	3695	9435	3232	8087	2770	6739	2307	5391	1844	4043	1382	2768	944	2768	944
-5	13822	4720	12440	4247	11058	3774	9676	3302	8293	2829	6911	2357	5529	1884	4147	1411	2839	964	2839	964
-4	14167	4819	12750	4337	11333	3854	9917	3371	8500	2889	7083	2406	5667	1924	4250	1441	2909	984	2909	984
-3	14511	4919	13060	4426	11609	3934	10158	3441	8707	2948	7255	2456	5804	1963	4353	1471	2980	1005	2980	1005
-2	14855	5018	13370	4516	11884	4013	10399	3511	8913	3008	7428	2506	5942	2003	4457	1501	3051	1025	3051	1025
-1	15199	5118	13679	4605	12159	4093	10639	3580	9120	3068	7600	2555	6080	2043	4560	1530	3121	1045	3121	1045
0	15543	5217	13989	4695	12435	4172	10880	3650	9326	3127	7772	2605	6217	2082	4663	1560	3192	1066	3192	1066
1	15888	5316	14299	4784	12710	4252	11121	3719	9533	3187	7944	2655	6355	2122	4766	1590	3263	1086	3263	1086
2	16232	5416	14609	4874	12986	4331	11362	3789	9739	3247	8116	2704	6493	2162	4870	1619	3333	1106	3333	1106
3	16498	5489	14848	4939	13198	4389	11548	3840	9899	3290	8249	2741	6599	2191	4949	1641	3388	1121	3388	1121
4	16764	5562	15087	5005	13411	4448	11735	3891	10058	3334	8382	2777	6705	2220	5029	1663	3443	1136	3443	1136
5	17030	5635	15327	5070	13624	4506	11921	3942	10218	3378	8515	2813	6812	2249	5109	1685	3497	1151	3497	1151
6	21822	6024	19640	5422	17458	4819	15275	4215	13093	3612	10911	3008	8729	2405	6547	1802	4481	1231	4481	1231
7	22400	6120	20160	5507	17920	4894	15680	4281	13440	3669	11200	3056	8960	2443	6720	1830	4600	1250	4600	1250
8	22978	6215	20680	5592	18382	4970	16085	4348	13787	3725	11489	3103	9191	2481	6893	1858	4719	1269	4719	1269
9	23556	6310	21201	5678	18845	5046	16489	4414	14134	3782	11778	3150	9422	2519	7067	1887	4837	1289	4837	1289
10	24134	6404	21721	5763	19307	5122	16894	4480	14481	3839	12067	3198	9654	2556	7240	1915	4956	1308	4956	1308
11	24712	6499	22241	5848	19770	5177	17209	4547	14827	3896	12356	3245	9885	2594	7414	1943	5075	1327	5075	1327
12	25290	6594	22761	5934	20232	5273	17703	4613	15174	3953	12645	3292	10116	2632	7587	1972	5194	1347	5194	1347
13	25868	6689	23282	6019	20695	5349	18108	4679	15521	4009	12934	3340	10347	2670	7761	2000	5312	1366	5312	1366
14	26446	6783	23802	6104	21157	5425	18513	4745	15868	4066	13223	3387	10579	2708	7934	2028	5431	1385	5431	1385
15	27025	6878	24322	6189	21620	5501	18917	4812	16215	4123	13512	3434	10810	2745	8107	2057	5550	1405	5550	1405
16	27603	6973	24842	6275	22082	5576	19322	4878	16562	4180	13801	3482	11041	2783	8281	2085	5668	1424	5668	1424
17	28181	7068	25363	6360	22545	5652	19726	4944	16908	4237	14090	3529	11272	2821	8454	2113	5787	1444	5787	1444
18	28759	7162	25883	6445	23007	5728	20131	5011	17255	4293	14379	3576	11503	2859	8628	2142	5906	1463	5906	1463
19	29337	7257	26403	6530	23469	5804	20536	5077	17602	4350	14668	3624	11735	2897	8801	2170	6025	1482	6025	1482
20	29915	7352	26923	6616	23932	5879	20940	5143	17949	4407	14957	3671	11966	2935	8974	2198	6143	1502	6143	1502
21	30493	7447	27444	6701	24394	5955	21345	5210	18296	4464	15246	3718	12197	2972	9148	2227	6262	1521	6262	1521
22	31071	7541	27964	6786	24857	6031	21750	5276	18643	4521	15535	3765	12428	3010	9321	2255	6381	1540	6381	1540
23	31649	7636	28484	6871	25319	6107	22154	5342	18989	4577	15825	3813	12660	3048	9495	2283	6499	1560	6499	1560
24	32227	7731	29004	6957	25782	6183	22559	5408	19336	4634	16114	3860	12891	3086	9668	2312	6618	1579	6618	1579

Combination <Capacity range (Max)>

Indoor: RAV-HM561SDT-E x 4
Outdoor: RAV-GM2243AT8(J)P-E

Operation range		Cooling		Heating	
		Q	P	Q	P
MINIMUM	W	4600	1300	4600	1250
RATING	W	20000	6670	22400	6120
MAXIMUM	W	22400	8960	25000	8330

Cooling

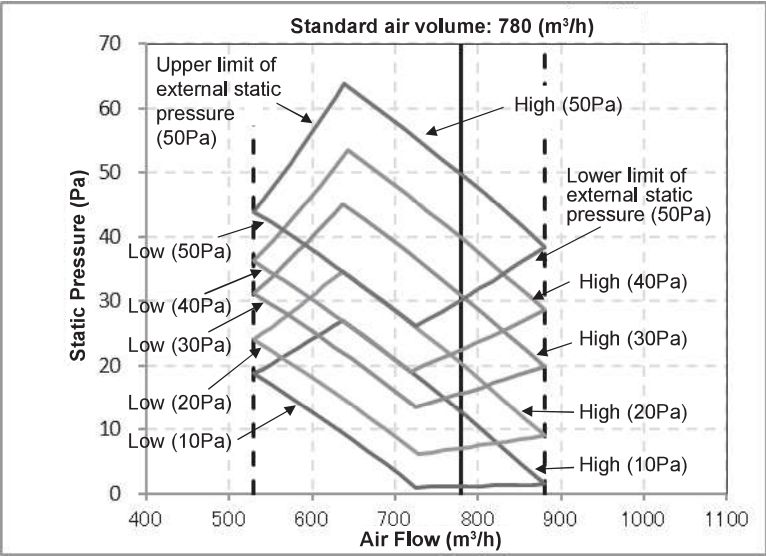
Outdoor Temperature DB (°C)	Parts Load (%)																			
	100		90		80		70		60		50		40		30		20		10	
	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P
20	26801	7085	24120	6323	21440	5560	18760	4798	16080	4036	13400	3274	10720	2512	8040	1749	5504	1028	5504	1028
21	26512	7214	23861	6438	21210	5662	18558	4886	15907	4110	13256	3334	10605	2557	7954	1781	5444	1047	5444	1047
22	26224	7344	23601	6554	20979	5764	18357	4973	15734	4183	13112	3393	10489	2603	7867	1813	5385	1065	5385	1065
23	25935	7473	23342	6669	20748	5865	18155	5061	15561	4257	12968	3453	10374	2649	7781	1845	5326	1084	5326	1084
24	25647	7602	23082	6784	20517	5967	17953	5149	15388	4331	12823	3513	10259	2695	7694	1877	5267	1103	5267	1103
25	25358	7732	22823	6900	20287	6068	17751	5236	15215	4404	12679	3573	10143	2741	7608	1909	5208	1122	5208	1122
26	25070	7861	22563	7015	20056	6170	17549	5324	15042	4478	12535	3632	10028	2787	7521	1941	5148	1141	5148	1141
27	24782	7990	22303	7131	19825	6271	17347	5412	14869	4552	12391	3692	9913	2833	7434	1973	5089	1159	5089	1159
28	24493	8120	22044	7246	19595	6373	17145	5499	14696	4626	12247	3752	9797	2878	7348	2005	5030	1178	5030	1178
29	24205	8249	21784	7362	19364	6474	16943	5587	14523	4699	12102	3812	9682	2924	7261	2037	4971	1197	4971	1197
30	23916	8379	21525	7477	19133	6576	16741	5674	14350	4773	11958	3872	9567	2970	7175	2069	4911	1216	4911	1216
31	23628	8508	21265	7593	18902	6677	16540	5762	14177	4847	11814	3931	9451	3016	7088	2101	4852	1234	4852	1234
32	23339	8637	21006	7708	18672	6779	16338	5850	14004	4920	11670	3991	9336	3062	7002	2133	4793	1253	4793	1253
33	23051	8767	20746	7824	18441	6880	16136	5937	13831	4994	11526	4051	9220	3108	6915	2165	4734	1272	4734	1272
34	22763	8896	20486	7939	18210	6982	15934	6025	13658	5068	11381	4111	9105	3154	6829	2197	4674	1291	4674	1291
35	22400	8960	20160	7996	17920	7032	15680	6068	13440	5104	11200	4140	8960	3176	6720	2212	4600	1300	4600	1300
36	21971	8960	19774	7996	17577	7032	15379	6068	13182	5104	10985	4140	8788	3176	6591	2212	4512	1300	4512	1300
37	21549	8960	19394	7996	17239	7032	15084	6068	12929	5104	10774	4140	8620	3176	6465	2212	4425	1300	4425	1300
38	21134	8960	19021	7996	16908	7032	14794	6068	12681	5104	10567	4140	8454	3176	6340	2212	4340	1300	4340	1300
39	17568	5973	15811	5331	14054	4688	12298	4045	10541	3403	8784	2760	7027	2118	5270	1475	3608	867	3608	867
40	17225	5973	15503	5331	13780	4688	12058	4045	10335	3403	8613	2760	6890	2118	5168	1475	3537	867	3537	867
41	16883	5973	15194	5331	13506	4688	11818	4045	10130	3403	8441	2760	6753	2118	5065	1475	3467	867	3467	867
42	16540	5973	14886	5331	13232	4688	11578	4045	9924	3403	8270	2760	6616	2118	4962	1475	3397	867	3397	867
43	16198	5973	14578	5331	12958	4688	11338	4045	9719	3403	8099	2760	6479	2118	4859	1475	3326	867	3326	867
44	14364	4646	12928	4146	11491	3646	10055	3146	8618	2647	7182	2147	5746	1647	4309	1147	2950	674	2950	674
45	14021	4646	12619	4146	11217	3646	9815	3146	8413	2647	7011	2147	5609	1647	4206	1147	2879	674	2879	674
46	13679	4646	12311	4146	10943	3646	9575	3146	8207	2647	6839	2147	5472	1647	4104	1147	2809	674	2809	674

Heating

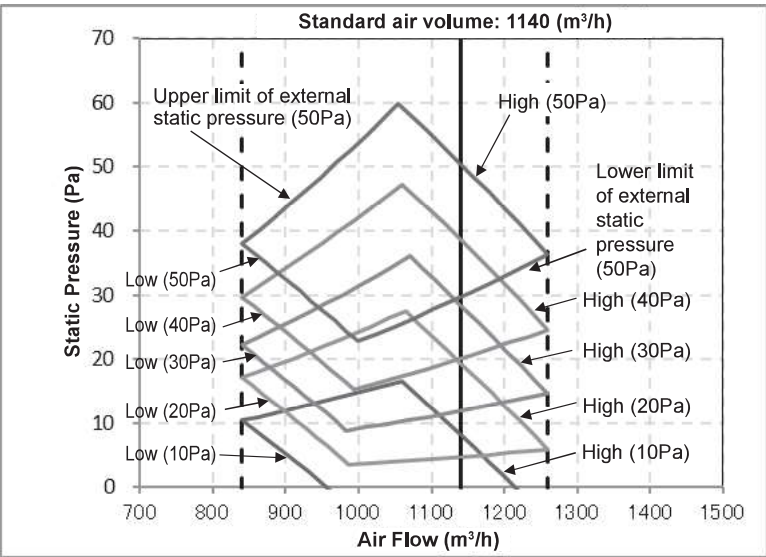
Outdoor Temperature DB (°C)	Parts Load (%)																			
	100		90		80		70		60		50		40		30		20		10	
	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P
-27	6700	3672	6030	3290	5360	2907	4690	2525	4020	2142	3350	1760	2680	1377	2010	995	1340	612	1233	551
-26	7114	3827	6403	3428	5691	3030	4980	2631	4269	2232	3557	1834	2846	1435	2134	1037	1423	638	1309	574
-25	7529	3981	6776	3567	6023	3152	5270	2737	4517	2323	3764	1908	3011	1493	2259	1078	1506	664	1385	597
-24	7943	4136	7149	3705	6354	3274	5560	2844	4766	2413	3971	1982	3177	1551	2383	1120	1589	690	1461	621
-23	8357	4291	7521	3844	6686	3397	5850	2950	5014	2503	4179	2056	3343	1609	2507	1162	1671	715	1538	644
-22	8771	4445	7894	3982	7017	3519	6140	3056	5263	2593	4386	2130	3509	1667	2631	1204	1754	741	1614	667
-21	9186	4600	8267	4121	7349	3642	6430	3162	5511	2683	4593	2204	3674	1725	2756	1246	1837	767	1690	690
-20	9600	4754	8640	4259	7680	3764	6720	3269	5760	2774	4800	2278	3840	1783	2880	1288	1920	793	1766	713
-19	10040	4888	9036	4379	8032	3870	7028	3361	6024	2851	5020	2342	4016	1833	3012	1324	2008	815	1847	733
-18	10480	5022	9432	4498	8384	3975	7336	3452	6288	2929	5240	2406	4192	1883	3144	1360	2096	837	1928	754
-17	10920	5155	9828	4618	8736	4081	7644	3544	6552	3007	5460	2470	4368	1933	3276	1396	2184	859	2009	774
-16	11360	5289	10224	4738	9088	4187	7952	3636	6816	3085	5680	2534	4544	1983	3408	1433	2272	882	2090	794
-15	11800	5422	10620	4857	9440	4293	8260	3728	7080	3163	5900	2598	4720	2034	3540	1469	2360	904	2171	814
-14	12138	5587	10924	5005	9710	4423	8496	3841	7283	3259	6069	2678	4855	2096	3641	1514	2428	932	2233	838
-13	12475	5753	11228	5153	9980	4554	8733	3955	7485	3356	6238	2757	4990	2158	3743	1558	2495	959	2295	863
-12	12813	5918	11531	5302	10250	4685	8969	4069	7688	3452	6406	2836	5125	2219	3844	1603	2563	987	2358	888
-11	13150	6083	11835	5450	10520	4816	9205	4182	7890	3549	6575	2915	5260	2281	3945	1648	2630	1014	2420	913
-10	13488	6248	12139	5598	10790	4947	9441	4296	8093	3645	6744	2994	5395	2343	4046	1693	2698	1042	2482	938
-9	13825	6414	12443	5746	11060	5078	9678	4410	8295	3742	6913	3073	5530	2405	4148	1737	2765	1069	2544	962
-8	14163	6579	12746	5894	11330	5208	9914	4523	8498	3838	7081	3153	5665	2467	4249	1782	2833	1097	2606	987
-7	14500	6744	13050	6042	11600	5339	10150	4637	8700	3934	7250	3232	5800	2529	4350	1827	2900	1124	2668	1012
-6	14880	6893	13392	6175	11904	5457	10416	4739	8928	4021	7440	3303	5952	2585	4464	1867	2976	1149	2738	1034
-5	15260	7041	13734	6308	12208	5574	10682	4841	9156	4108	7630	3374	6104	2641	4578	1907	3052	1174	2808	1057
-4	15640	7189	14076	6441	12512	5692	10948	4943	9384	4194	7820	3445	6256	2696	4692	1948	3128	1199	2878	1079
-3	16020	7338	14418	6574	12816	5809	11214	5045	9612	4281	8010	3516	6408	2752	4806	1988	3204	1223	2948	1101
-2	16400	7486	14760	6706	13120	5927	11480	5147	9840	4367	8200	3587	6560	2808	4920	2028	3280	1248	3018	1123
-1	16780	7635	15102	6839	13424	6044	11746	5249	10068	4454	8390	3659	6712	2863	5034	2068	3356	1273	3088	1146
0	17160	7783	15444	6972	13728	6162	12012	5351	10296	4540	8580	3730	6864	2919	5148	2108	3432	1298	3157	1168
1	17540	7931	15786	7105	14032	6279	12278	5453	10524	4627	8770	3801	7016	2975	5262	2149	3508	1322	3227	1190
2	17920	8080	16128	7238	14336	6397	12544	5555	10752	4713	8960	3872	7168	3030	5376	2189	3584	1347	3297	1212
3	18380	8246	16542	7387	14704	6529	12866	5670	11028	4811	9190	3952	7352	3093	5514	2234	3676	1375	3382	1237
4	18846	8413	16961	7537	15077	6660	13196	5784	11307	4908	9420	4032	7538	3155	5654	2279	3769	1403	3468	1262
5	19317	8580	17385	7686	15454	6792	13522	5899	11590	5005	9658	4111	7727	3218	5795	2324	3863	1430	3554	1287
6	24355	8201	21919	7347	19484	6493	17048	5638	14613	4784	12177	3930	9742	3076	7306	2222	4871	1367	4481	1231
7	25000	8330	22500	7462	20000	6595	17500	5727	15000	4859	12500	3992	10000	3124	7500	2256	5000	1389	4600	1250
8	25645	8459	23081	7578	20516	6697	17952	5816	15387	4935	12823	4054	10258	3172	7694	2291	5129	1410	4719	1269
9	26290	8588	23661	7693	21032	6799	18403	5904	15774	5010	13145	4115	10516	3221	7887	2326	5258	1432	4837	1289
10	26935	8717	24242	7809	21548	6901	18855	5993	16161	5085	13468	4177	10774	3269	8081	2361	5387	1453	4956	1308
11	27581	8846	24823	7925	22065	7003	19306	6082	16548	5160	13790	4239	11032	3318	8274	2396	5516	1475	5075	1327
12	28226	8975	25403	8040	22581	7105	19758	6170	16935	5236	14113	4301	11290	3366	8468	2431	5645	1496	5194	1347
13	28871	9104	25984	8156	23097	7207	20210	6259	17323	5311	14435	4363	11548	3414	8661	2466	5774	1518	5312	1366
14	22966	5325	20669	4770	18373	4215	16076	3661	13780	3106	11483	2552	9186	1997	6890	1442	4593	888	4226	799
15	23342	5325	21008	4770	18674	4215	16340	3661	14005	3106	11671	2552	9337	1997	7003	1442	4668	888	4295	799
16	23717	5325	21345	4770	18973	4215	16602	3661	14230	3106	11858	2552	9487	1997	7115	1442	4743	888	4364	799
17	24090	5325	21681	4770	19272	4215	16863	3661	14454	3106	12045	2552	9636	1997	7227	1442	4818	888	4432	799
18	24460	5325	22014	4770	19568	4215	17122	3661	14676	3106	12230	2552	9784	1997	7338	1442	4892	888	4501	799
19	24830	5325	22347	4770	19864	4215	17381	3661	14898	3106	12415	2552	9932	1997	7449	1442	4966	888	4569	799
20	25197	5325	22678	4770	20158	4215	17638	3661	15118	3106	12599	2552	10079	1997	7559	1442	5039	888	4636	799
21	25563	5325	23007	4770	20451	4215	17894	3661	15338	3106	12782	2552	10225	1997	7669	1442	5113	888	4704	799
22	25928	5325	23335	4770	20742	4215	18150	3661	15557	3106	12964	2552	10371	1997	7778	1442	5186	888	4771	799
23	26291	5325	23662	4770	21033	4215	18404	3661	15775	3106	13146	2552	10516	1997	7887	1442	5258	888	4838	799
24	26653	5325	23988	4770	21322	4215	18657	3661	15992	3106	13326	2552	10661	1997	7996	1442	5331	888	4904	799

2-4-6. Fan Static Characteristic

RAV-HM561SDTY-E/TR

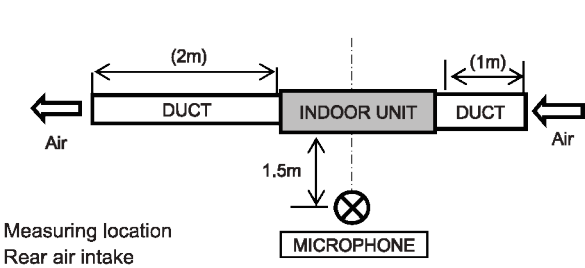


RAV-HM801SDTY-E/TR



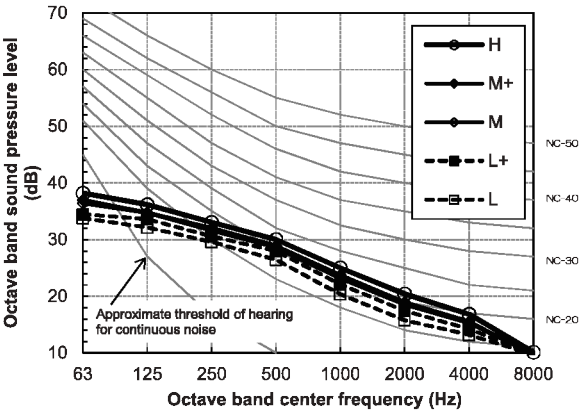
2-4-7. Sound Characteristics (NC curve)

RAV-HM561SDTY-E/TR

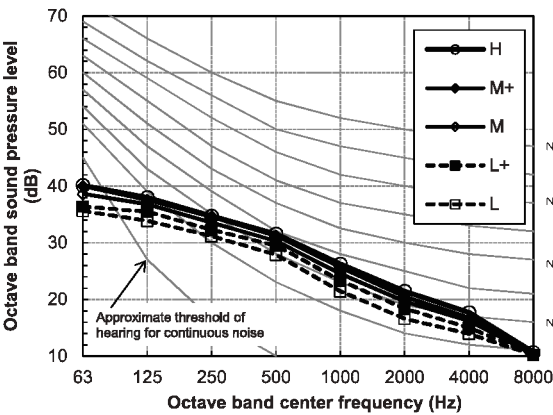


ESP (Pa)	Sound Pressure Level (dBA)				
	H	M+	M	L+	L
10	34	33	32	31	29
20	35	34	33	32	30
30	36	35	34	33	31
40	36	35	34	33	31
50	37	36	35	34	32

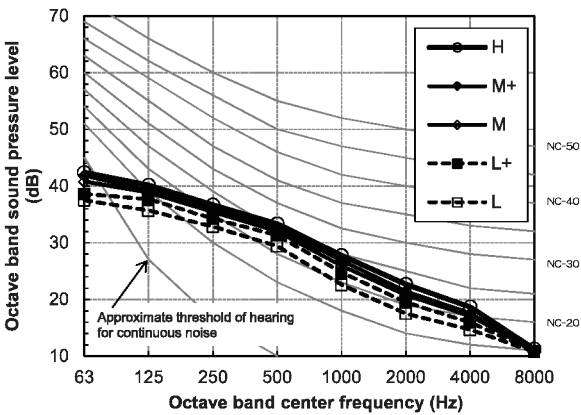
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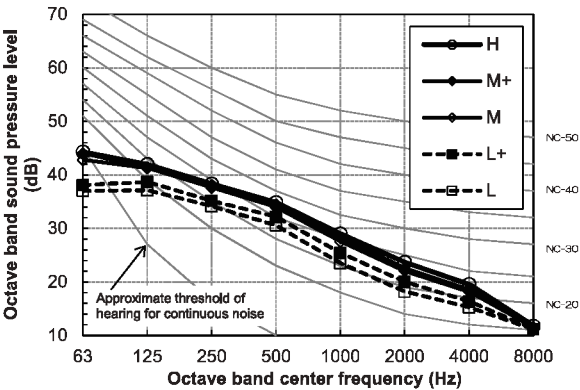
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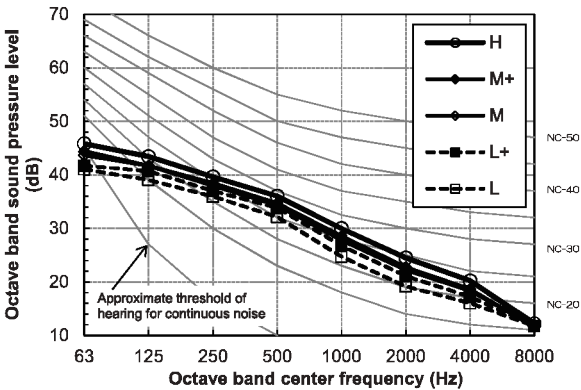
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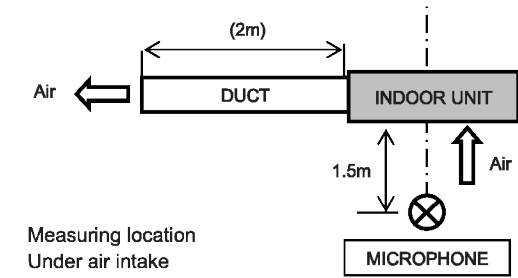
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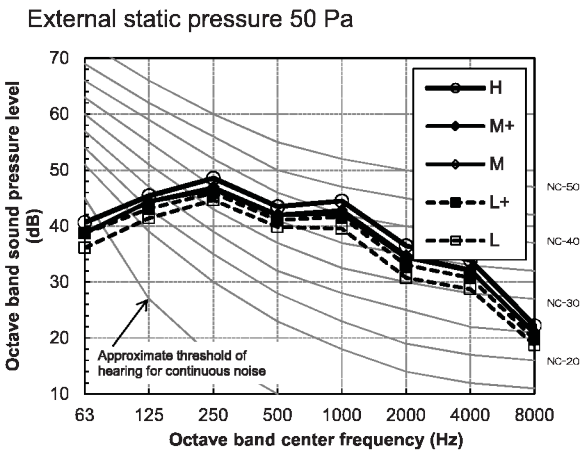
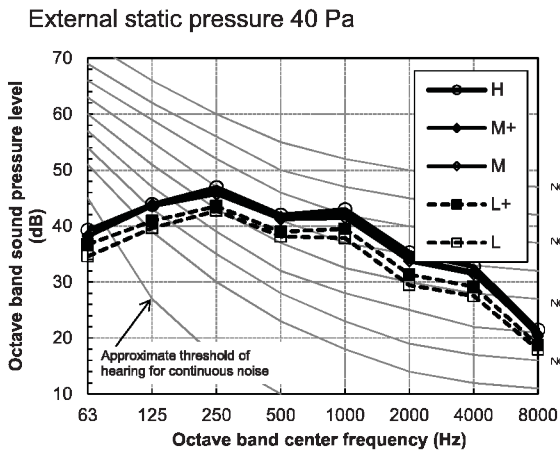
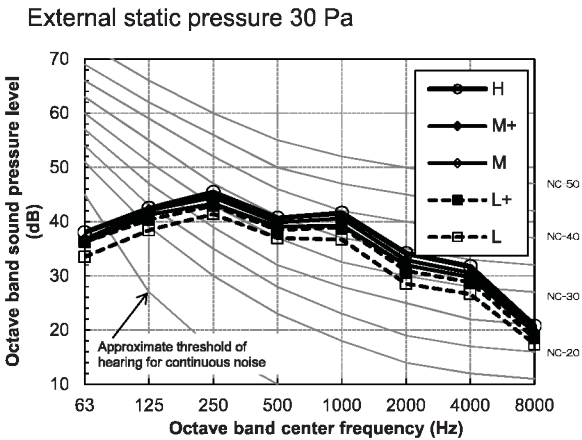
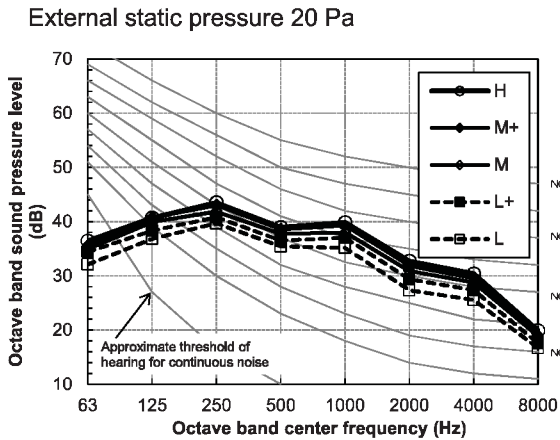
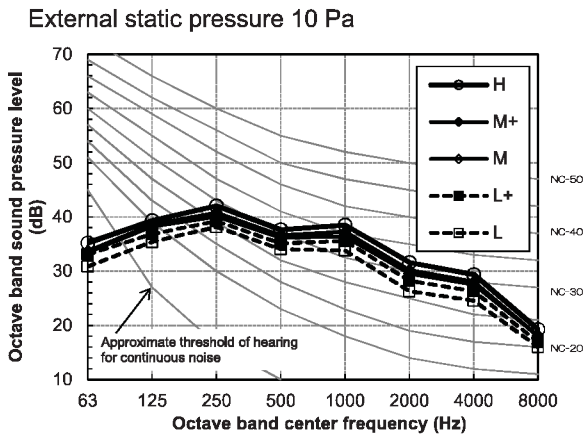
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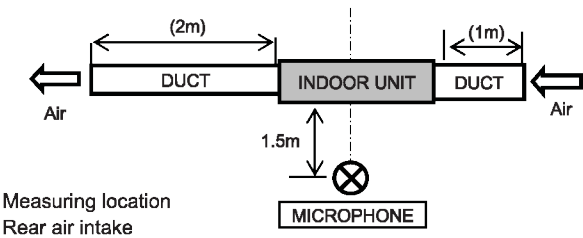
RAV-HM561SDTY-E/TR



ESP (Pa)	Sound Pressure Level (dBA)				
	H	M+	M	L+	L
10	44	43	42	41	39
20	45	44	43	42	40
30	46	45	44	43	41
40	46	45	44	43	41
50	47	46	45	44	42

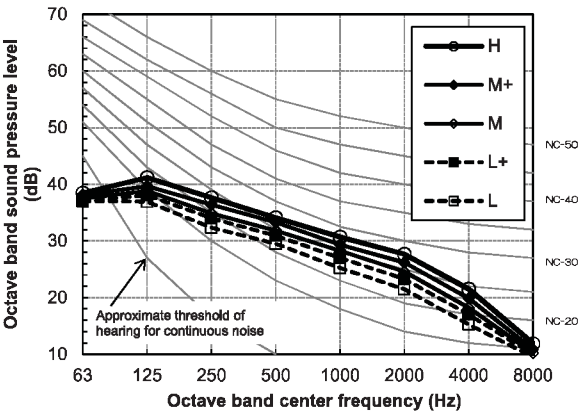


RAV-HM801SDTY-E/TR

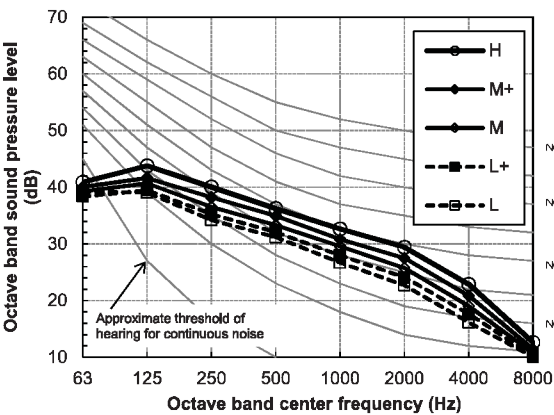


ESP (Pa)	Sound Pressure Level (dBA)				
	H	M+	M	L+	L
10	37	36	34	33	32
20	38	37	35	34	33
30	39	38	36	35	34
40	40	39	37	36	35
50	41	40	38	37	36

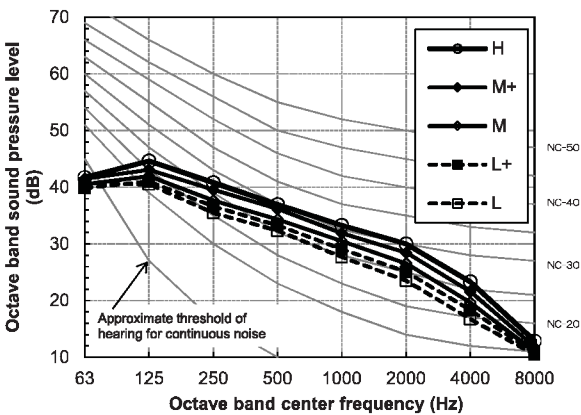
External static pressure 10 Pa



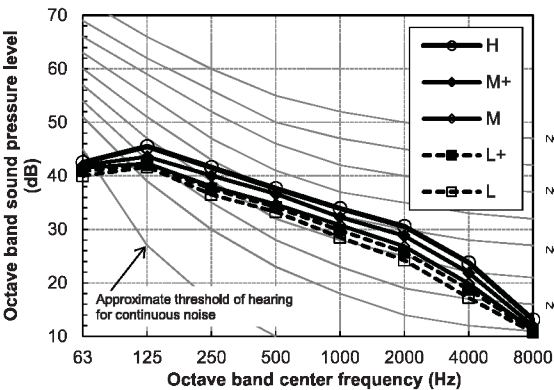
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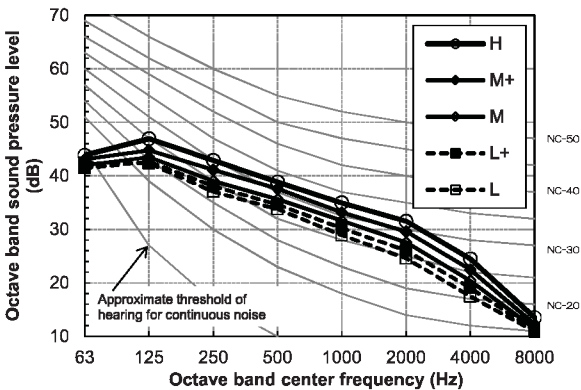
External static pressure 30 Pa



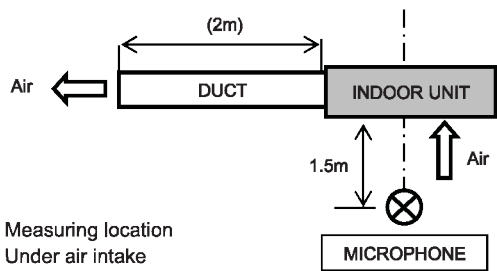
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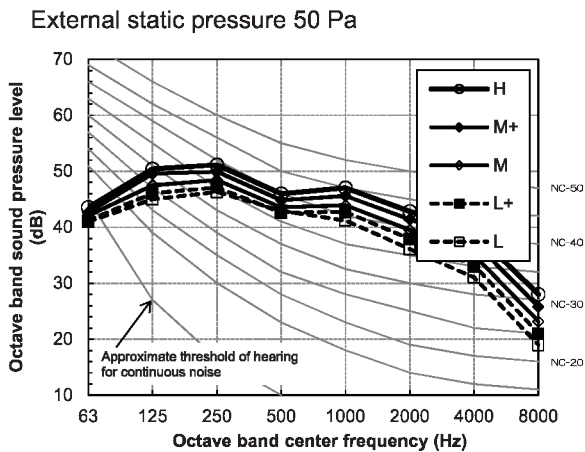
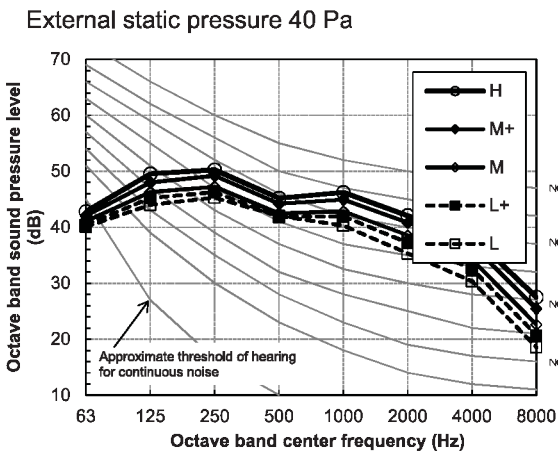
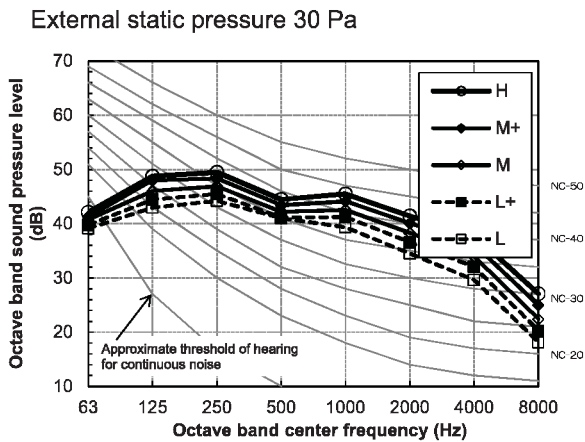
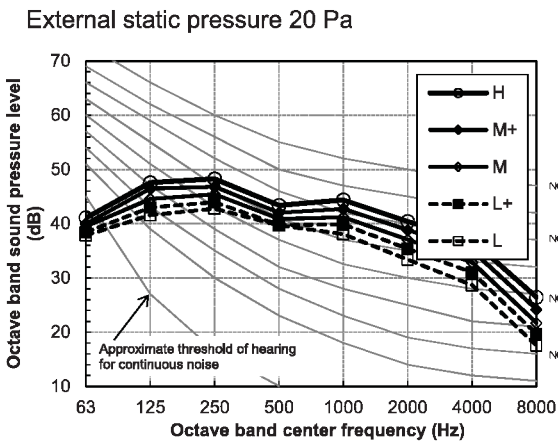
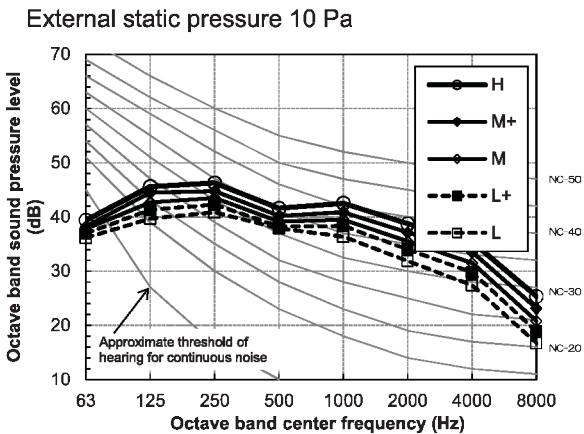
External static pressure 50 Pa



RAV-HM801SDTY-E/TR



ESP (Pa)	Sound Pressure Level (dBA)				
	H	M+	M	L+	L
10	48	47	45	44	43
20	49	48	46	45	44
30	50	49	47	46	45
40	51	50	48	47	46
50	52	51	49	48	47



2-5 4-way Casette Type

2-5-1. Specifications

2-5-2. Dimension

2-5-3. Wiring Diagrams

2-5-4. Sensible Capacity Table

2-5-5. Part Load Performance

2-5-6. Air Throw Distance Chart

2-5-7. Sound Characteristics (NC Curve)

2-5-8. Accesories

2-5-9. Appendix

2-5-1. Specification

4-way cassette Type

Twin combination

Model	Indoor unit		RAV	HM1101UTP-E/TR x2
	Outdoor unit		RAV	GM2243AT8P-E/TR
Cooling capacity			(kW)	20.00
Heating capacity			(kW)	22.40
Power supply			1Ph., 220V, 60Hz. 1Ph., 220V - 240V, 50Hz.	
Electrical characteristic	Cooling	Running current	(A)	9.50
		Power consumption	(W)	0.62
		Power factor	(-)	0.94
		EER	(kW/kW)	3.22
		SEER	(kW/kW)	7.28
	Heating	Running current	(A)	9.85
		Power consumption	(W)	0.64
		Power factor	(-)	0.94
		COP	(kW/kW)	3.50
		SCOP	(kW/kW)	4.11
Outer dimension	Main unit	Height	(mm)	319
		Width	(mm)	840
		Depth	(mm)	840
Total weight		(kg)	24	
Air flow volume		H/M/L	(m ³ / h)	2010/1440/1170
Sound pressure level		H/M+/M/L+/L	(dB·A)	43/42/38/35/33
Sound power level		H	(dB·A)	58
Connecting pipe		Gas side	(mm)	Ø 28.6
		Liquid side	(mm)	Ø 12.7
Fan motor			(W)	130
Air filter			Standard filter (Long life filter)	
Controller			Optional (sold separately)	

Note : Rated conditions

Cooling : Indoor air temperature 27 °C DB/ 19°C WB, Outdoor 35 °C DB

Heating : Indoor air temperature 20 °C DB, Outdoor 7°C DB / 6°C WB

4-way cassette Type

Twin combination

Model	Indoor unit		RAV	HM1401UTP-E/TR x2
	Outdoor unit		RAV	GM2803AT8P-E/TR
Cooling capacity			(kW)	23.50
Heating capacity			(kW)	24.00
Power supply			1Ph., 220V, 60Hz. 1Ph., 220V - 240V, 50Hz.	
Electrical characteristic	Cooling	Running current	(A)	14.50
		Power consumption	(W)	0.93
		Power factor	(-)	0.93
		EER	(kW/kW)	2.52
		SEER	(kW/kW)	6.36
	Heating	Running current	(A)	11.20
		Power consumption	(W)	0.72
		Power factor	(-)	0.93
		COP	(kW/kW)	3.33
		SCOP	(kW/kW)	3.95
Outer dimension	Main unit	Height	(mm)	319
		Width	(mm)	840
		Depth	(mm)	840
Total weight		(kg)	24	
Air flow volume		H/M/L	(m ³ / h)	2010/1440/1230
Sound pressure level		H/M+/M/L+/L	(dB·A)	44/43/38/35/34
Sound power level		H	(dB·A)	59
Connecting pipe		Gas side	(mm)	Ø 28.6
		Liquid side	(mm)	Ø 12.7
Fan motor			(W)	130
Air filter			Standard filter (Long life filter)	
Controller			Optional (sold separately)	

Note : Rated conditions Cooling : Indoor air temperature 27 °C DB/ 19°C WB, Outdoor 35 °C DB
Heating : Indoor air temperature 20 °C DB, Outdoor 7°C DB / 6°C WB

4-way cassette Type

Triple combination

Model	Indoor unit		RAV	HM801UTP-E/TR x3
	Outdoor unit		RAV	GM2243AT8P-E/TR
Cooling capacity			(kW)	20.00
Heating capacity			(kW)	22.40
Power supply			1Ph., 220V, 60Hz. 1Ph., 220V - 240V, 50Hz.	
Electrical characteristic	Cooling	Running current (A)		9.50
		Power consumption (W)		0.62
		Power factor (-)		0.94
		EER (kW/kW)		3.23
		SEER (kW/kW)		7.25
	Heating	Running current (A)		9.80
		Power consumption (W)		0.64
		Power factor (-)		0.94
		COP (kW/kW)		3.50
		SCOP (kW/kW)		4.11
Outer dimension	Main unit	Height (mm)		256
		Width (mm)		840
		Depth (mm)		840
Total weight		(kg)	20	
Air flow volume		H/M/L (m³ / h)	1230/960/810	
Sound pressure level		H/M+/M/L+/L (dB·A)	35/34/31/29/28	
Sound power level		H (dB·A)	50	
Connecting pipe		Gas side (mm)	Ø 28.6	
		Liquid side (mm)	Ø 12.7	
Fan motor			(W)	60
Air filter				Standard filter (Long life filter)
Controller				Optional (sold separately)

Note : Rated conditions Cooling : Indoor air temperature 27 °C DB/ 19°C WB, Outdoor 35 °C DB
Heating : Indoor air temperature 20 °C DB, Outdoor 7°C DB / 6°C WB

4-way cassette Type

Triple combination

Model	Indoor unit		RAV	HM801UTP-E/TR x3
	Outdoor unit		RAV	GM2803AT8P-E/TR
Cooling capacity			(kW)	23.50
Heating capacity			(kW)	24.00
Power supply			1Ph., 220V, 60Hz. 1Ph., 220V - 240V, 50Hz.	
Electrical characteristic	Cooling	Running current	(A)	14.50
		Power consumption	(W)	0.93
		Power factor	(-)	0.93
		EER	(kW/kW)	2.52
		SEER	(kW/kW)	6.33
	Heating	Running current	(A)	11.20
		Power consumption	(W)	0.72
		Power factor	(-)	0.93
		COP	(kW/kW)	3.33
		SCOP	(kW/kW)	3.95
Outer dimension	Main unit	Height	(mm)	256
		Width	(mm)	840
		Depth	(mm)	840
Total weight		(kg)	20	
Air flow volume		H/M/L	(m ³ / h)	1230/960/810
Sound pressure level		H/M+/M/L+/L	(dB·A)	35/34/31/29/28
Sound power level		H	(dB·A)	50
Connecting pipe		Gas side	(mm)	Ø 28.6
		Liquid side	(mm)	Ø 12.7
Fan motor			(W)	60
Air filter			Standard filter (Long life filter)	
Controller			Optional (sold separately)	

Note : Rated conditions

Cooling : Indoor air temperature 27 °C DB/ 19°C WB, Outdoor 35 °C DB

Heating : Indoor air temperature 20 °C DB, Outdoor 7°C DB / 6°C WB

4-way cassette Type

Double Twin combination

Model	Indoor unit		RAV	HM561UTP-E/TR x4
	Outdoor unit		RAV	GM2243AT8P-E/TR
Cooling capacity			(kW)	20.00
Heating capacity			(kW)	22.40
Power supply			1Ph., 220V, 60Hz. 1Ph., 220V - 240V, 50Hz.	
Electrical characteristic	Cooling	Running current (A)		9.50
		Power consumption (W)		0.62
		Power factor (-)		0.94
		EER (kW/kW)		3.23
		SEER (kW/kW)		7.19
	Heating	Running current (A)		9.80
		Power consumption (W)		0.64
		Power factor (-)		0.94
		COP (kW/kW)		3.50
		SCOP		4.11
Outer dimension	Main unit	Height (mm)		256
		Width (mm)		840
		Depth (mm)		840
Total weight		(kg)	20	
Air flow volume		H/M/L (m ³ / h)	1050/870/780	
Sound pressure level		H/M+/M/L+/L (dB·A)	32/31/29/29/28	
Sound power level		H (dB·A)	47	
Connecting pipe		Gas side (mm)	Ø 28.6	
		Liquid side (mm)	Ø 12.7	
Fan motor			(W)	60
Air filter			Standard filter (Long life filter)	
Controller			Optional (sold separately)	

Note : Rated conditions

Cooling : Indoor air temperature 27 °C DB/ 19°C WB, Outdoor 35 °C DB

Heating : Indoor air temperature 20 °C DB, Outdoor 7°C DB / 6°C WB

4-way cassette Type

Double Twin combination

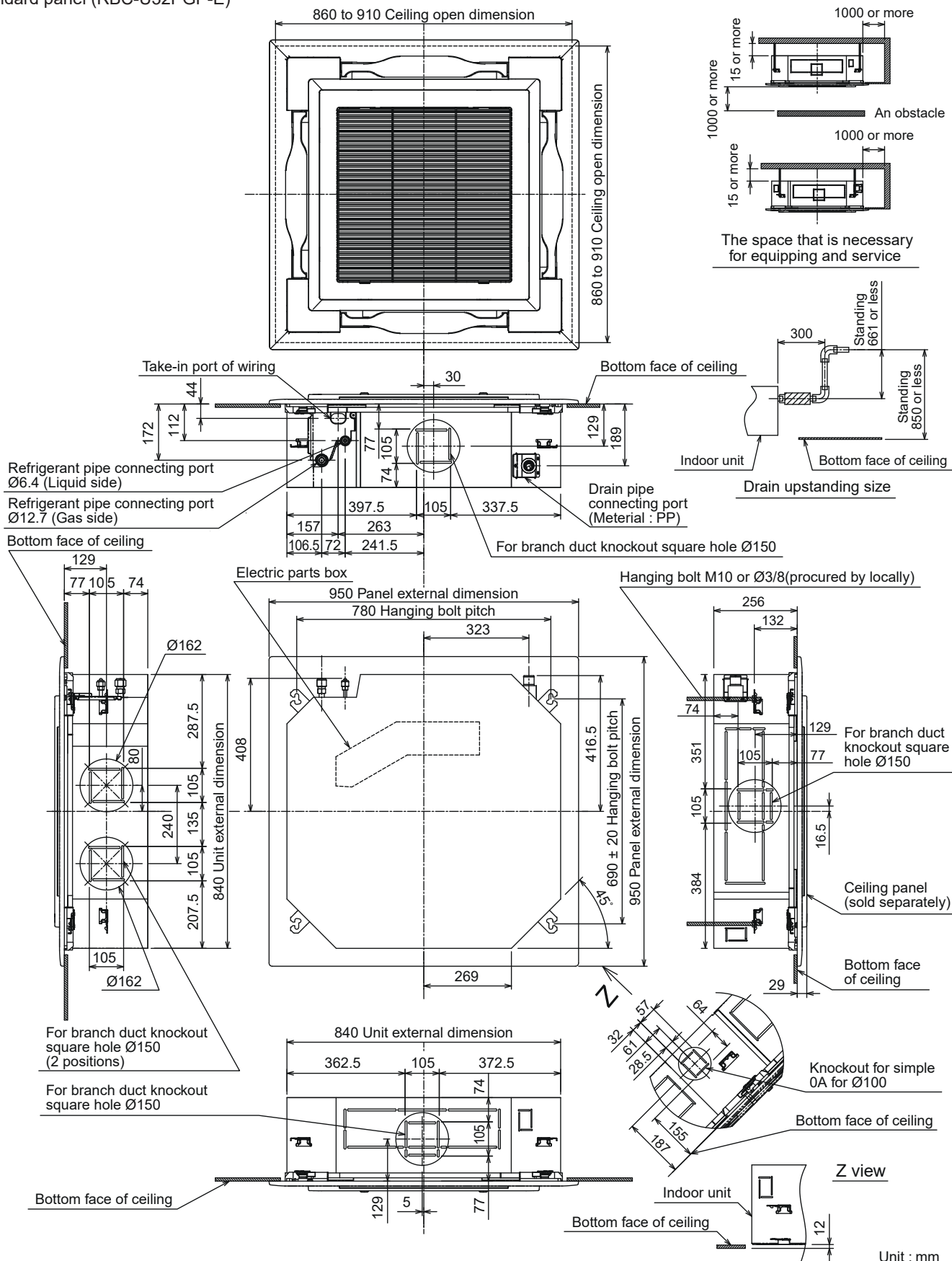
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	Outdoor unit		RAV	GM2803AT8P-E/TR
Cooling capacity			(kW)	23.50
Heating capacity			(kW)	24.00
Power supply			1Ph., 220V, 60Hz. 1Ph., 220V - 240V, 50Hz.	
Electrical characteristic	Cooling	Running current	(A)	16.30
		Power consumption	(W)	1.06
		Power factor	(-)	0.94
		EER	(kW/kW)	2.52
		SEER	(kW/kW)	6.30
	Heating	Running current	(A)	11.70
		Power consumption	(W)	0.76
		Power factor	(-)	0.93
		COP	(kW/kW)	3.33
		SCOP	(kW/kW)	3.95
Outer dimension	Main unit	Height	(mm)	275
		Width	(mm)	1000
		Depth	(mm)	750
Total weight		(kg)	31	
Air flow volume		H/M/L	(m ³ / h)	1200/930/750
Sound pressure level		H/M+/M/L+/L	(dB·A)	34/32/30/28/26
Sound power level		H	(dB·A)	49
Connecting pipe		Gas side	(mm)	Ø 28.6
		Liquid side	(mm)	Ø 12.7
Fan motor			(W)	150
Air filter			Standard filter (Long life filter)	
Controller			Optional (sold separately)	

Note : Rated conditions Cooling : Indoor air tempreature 27 °C DB/ 19°C WB, Outdoor 35 °C DB
 Heating : Indoor air tempreature 20 °C DB, Outdoor 7°C DB / 6°C WB

2-5-2. Dimension

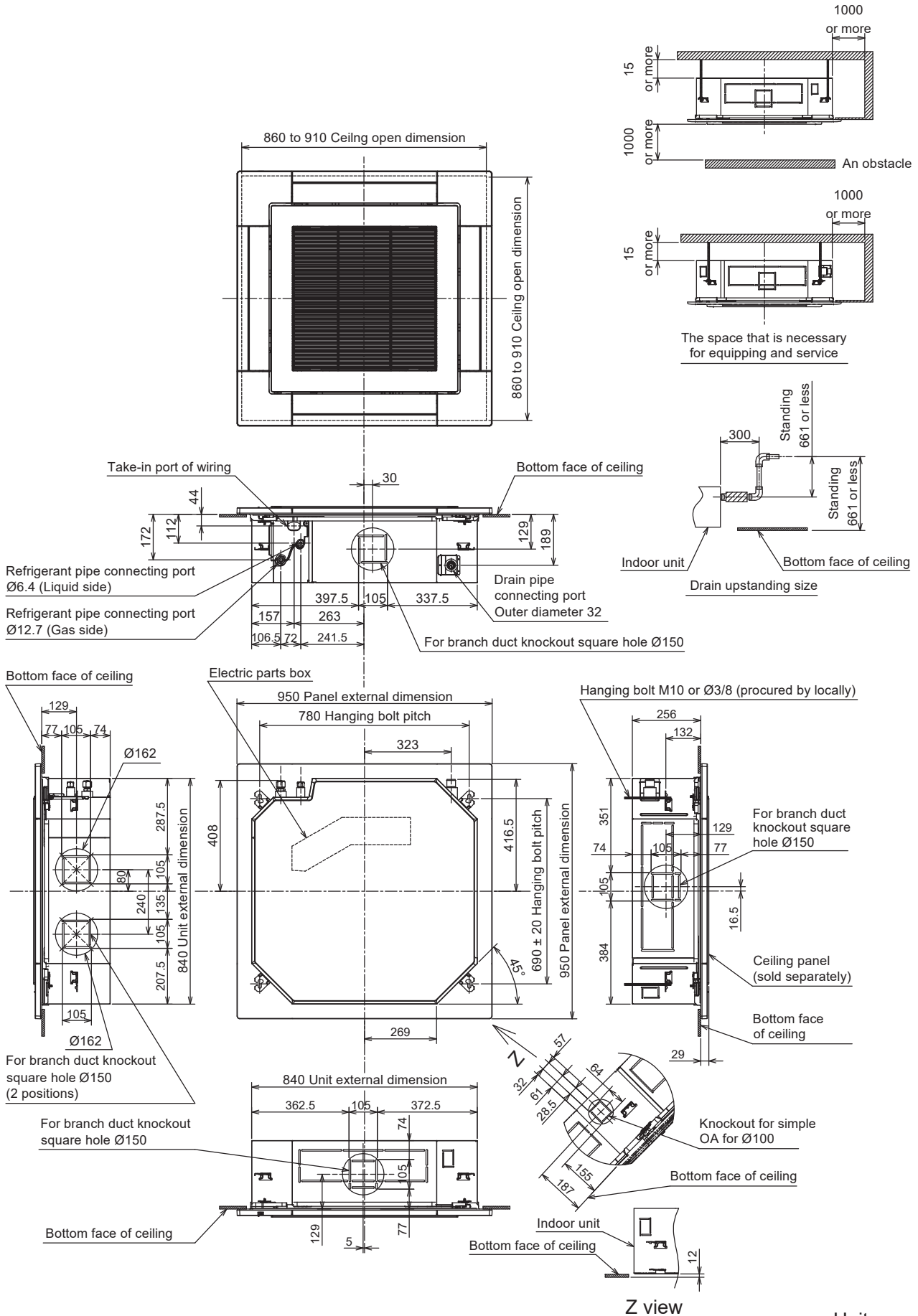
RAV-HM561UTP-E / TR

Standard panel (RBC-U32PGP-E)



RAV-HM561UTP-E / TR

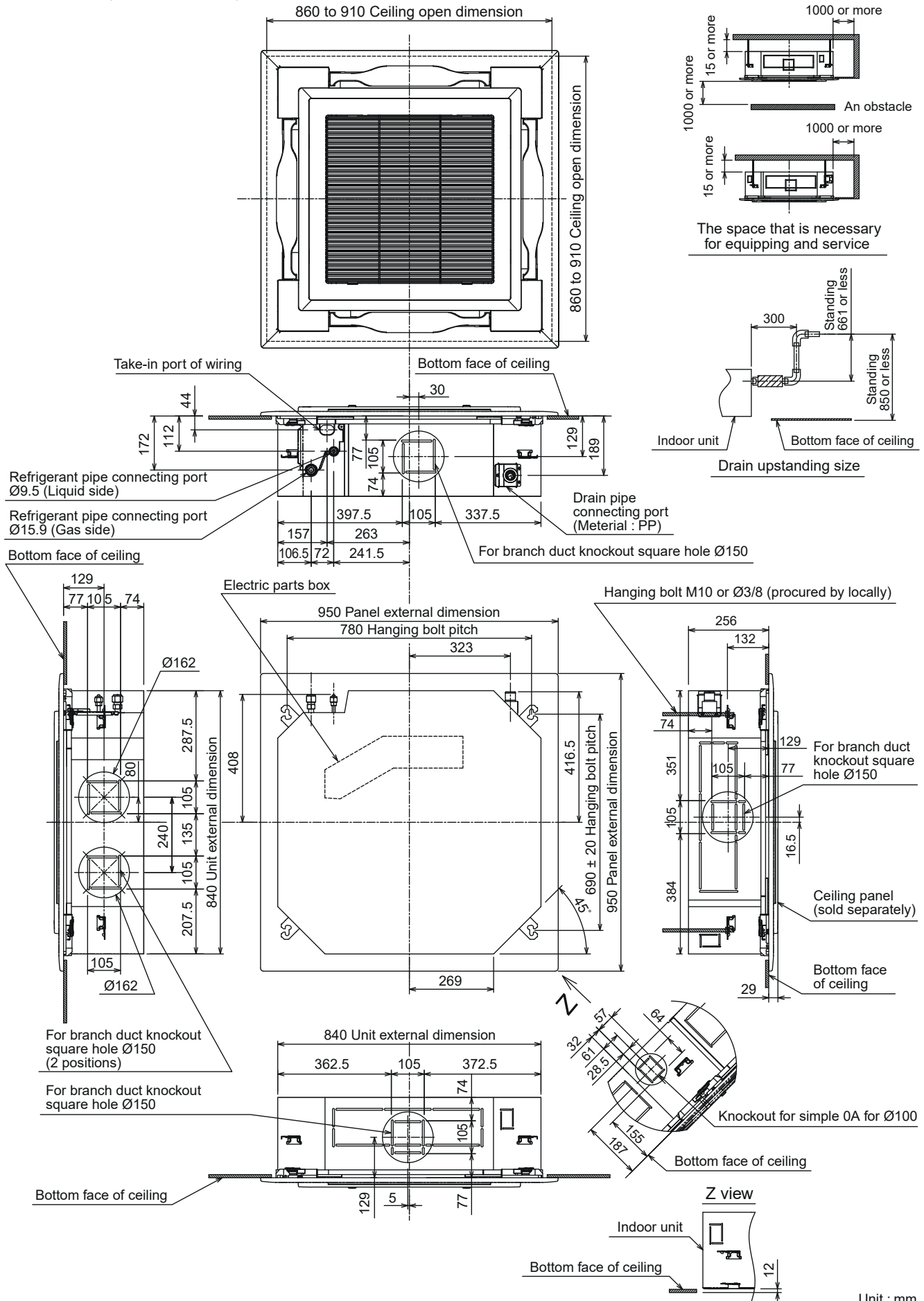
Smart design panel (RBC-U33P-E)



Unit : mm

RAV-HM801UTP-E / TR

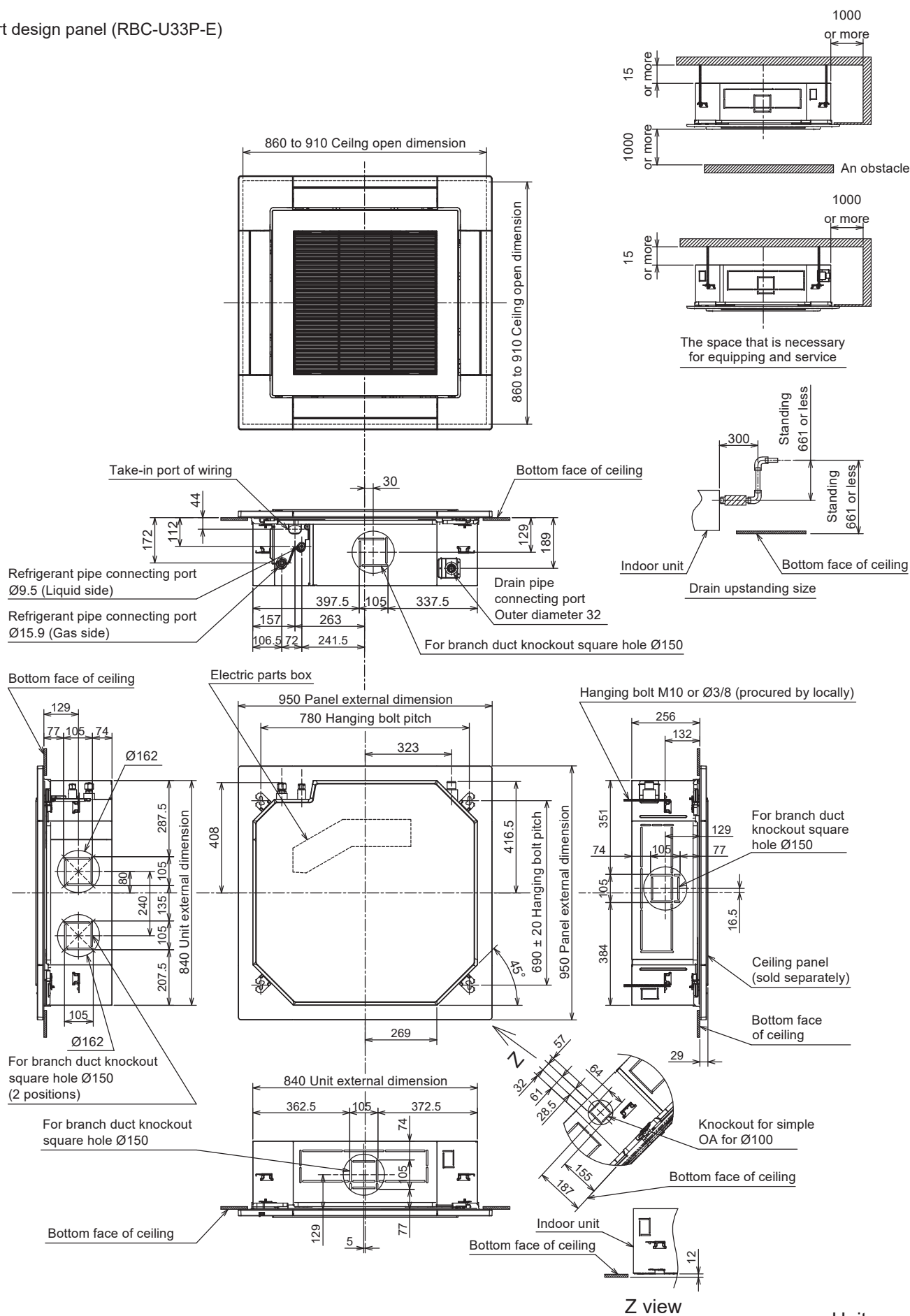
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Unit : mm

RAV-HM801UTP-E / TR

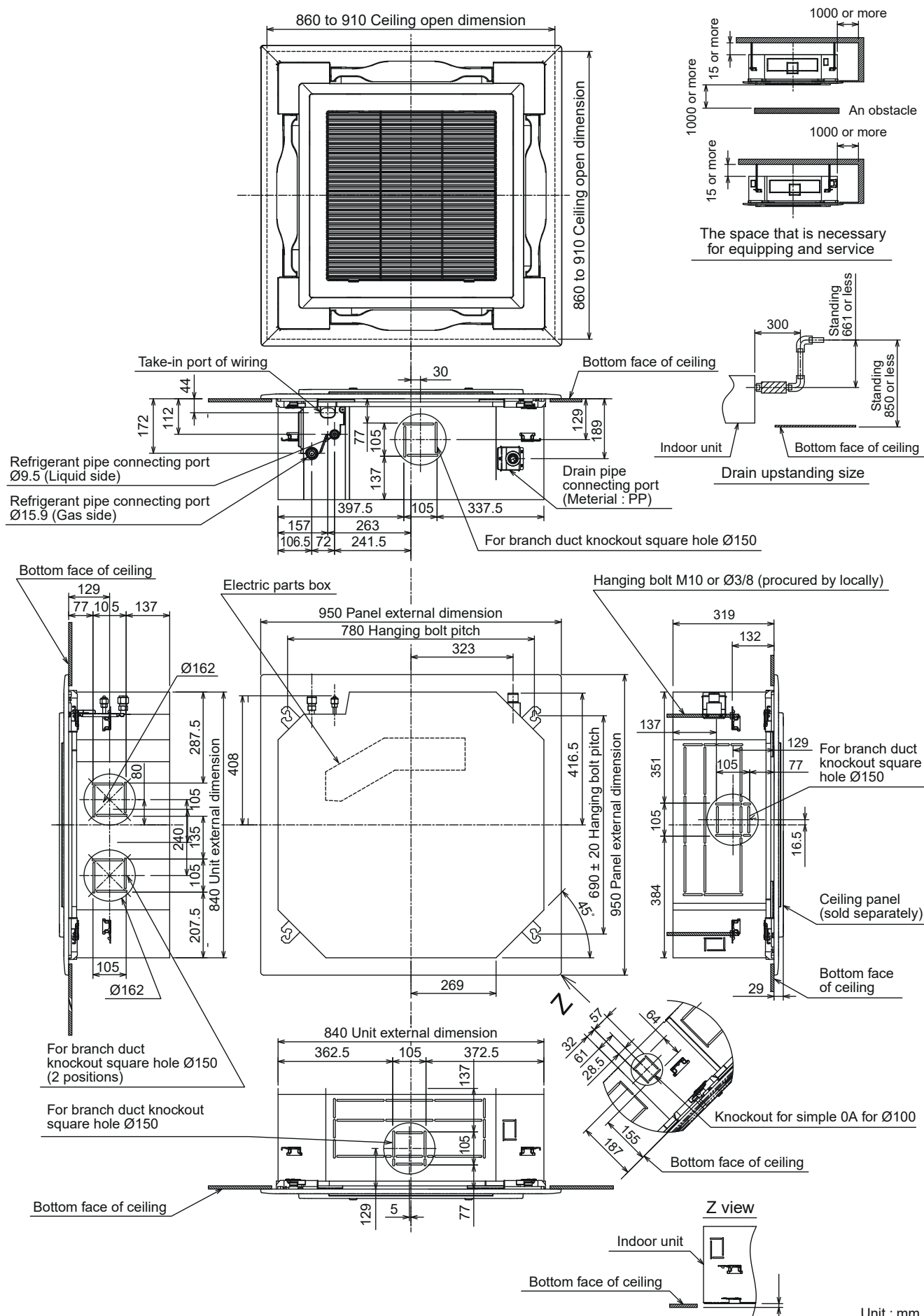
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Unit : mm

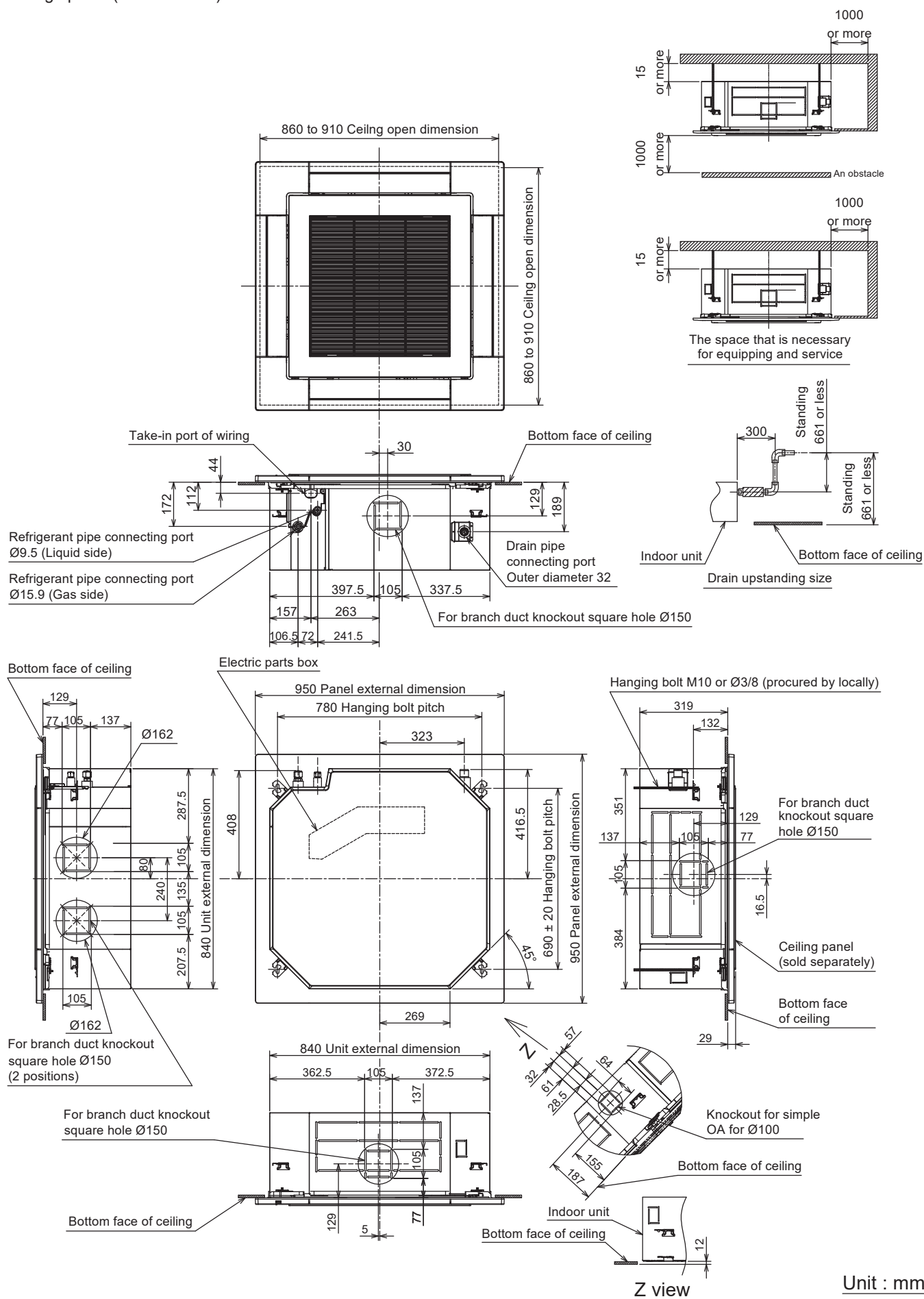
RAV-HM*__1UTP-E / TR (*110 / 140)

Standard panel (RBC-U32PGP-E)



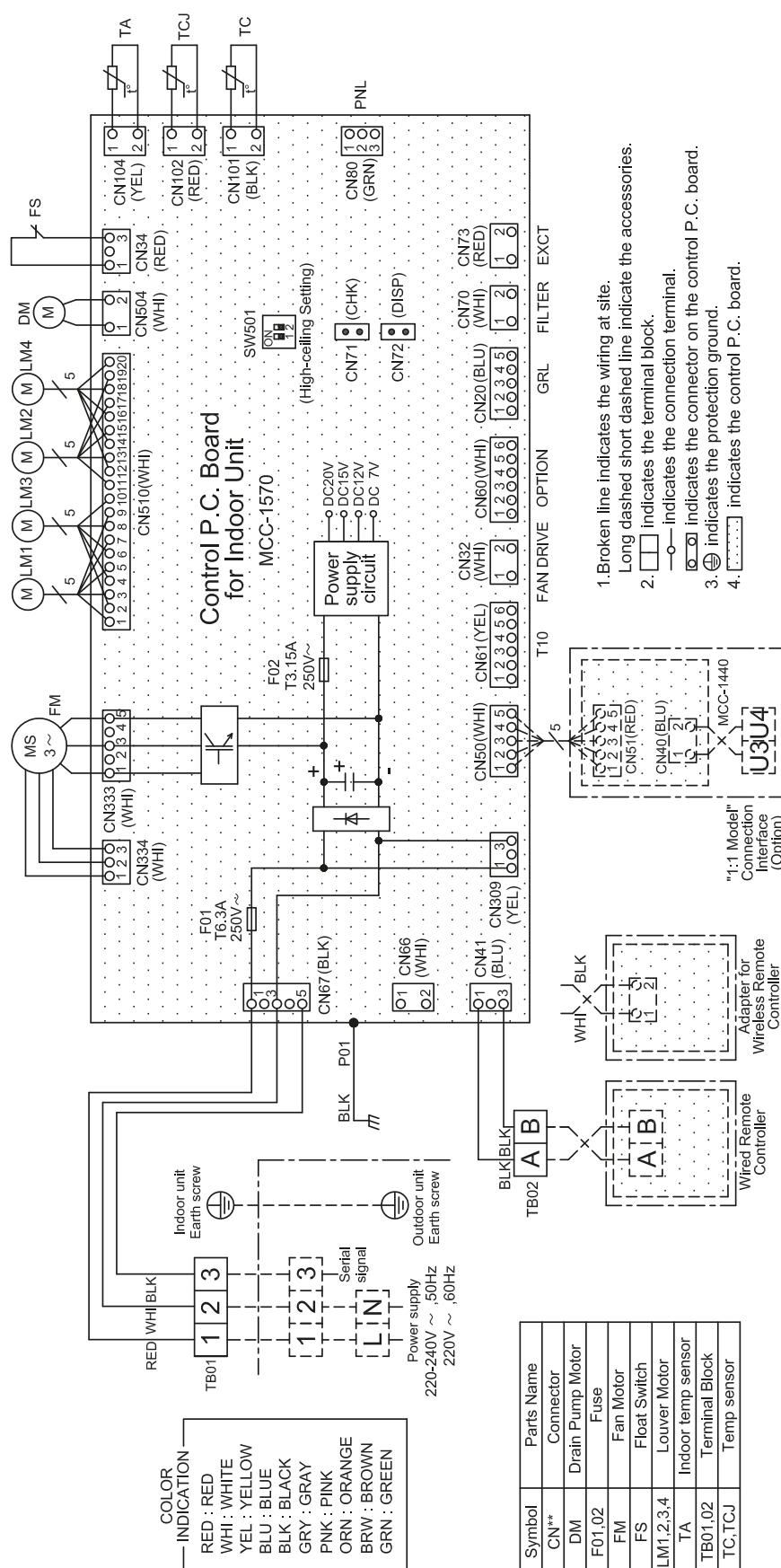
RAV-HM*__1UTP-E / TR (*110 / 140)

Smart design panel (RBC-U33P-E)



2-5-3. Wiring Diagrams

**RAV-HM561UTP-E/TR, RAV-HM801UTP-E/TR,
RAV-HM1101UTP-E/TR and RAV-HM1401UTP-E/TR**



2-5-4. Sensible Capacity Table

Product models : RAV-GM2243AT8P-E / RAV-HM1101UTP-E (Twin)

Standard Condition				Specification of product at standard condition.			
Indoor	27.0 °C DB / 19.0 °C WB			Total Cooling Capacity (TC)	10.00 kW		
Outdoor	35.0 °C DB / 24.0 °C WB			Sensible Heat Capacity (SHC)	8.30 kW		

Outdoor air temp. °C DB	Indoor Air temperature																	
	14.0 °C WB		15.0 °C WB		16.0 °C WB		17.0 °C WB		18.0 °C WB		19.0 °C WB		20.0 °C WB		22.0 °C WB		24.0 °C WB	
	20.0 °C DB		21.0 °C DB		23.0 °C DB		24.0 °C DB		26.0 °C DB		27.0 °C DB		28.0 °C DB		30.0 °C DB		32.0 °C DB	
	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
10.0	10.85	9.66	11.23	9.89	11.98	10.32	12.27	10.54	12.83	10.97	13.21	10.96	13.59	10.97	14.39	10.89	15.05	10.71
12.0	10.64	9.48	11.01	9.70	11.75	10.12	12.03	10.33	12.58	10.76	12.95	10.75	13.32	10.75	14.11	10.68	14.76	10.50
14.0	10.43	9.29	10.79	9.50	11.52	9.91	11.79	10.13	12.33	10.54	12.70	10.54	13.06	10.54	13.83	10.47	14.46	10.30
16.0	10.22	9.10	10.57	9.31	11.28	9.71	11.55	9.92	12.08	10.33	12.44	10.32	12.79	10.33	13.55	10.26	14.17	10.09
18.0	10.01	8.91	10.35	9.12	11.05	9.51	11.31	9.72	11.83	10.12	12.18	10.11	12.53	10.12	13.27	10.05	13.88	9.88
20.0	9.80	8.73	10.14	8.93	10.82	9.31	11.07	9.51	11.58	9.90	11.93	9.90	12.27	9.90	12.99	9.84	13.59	9.67
21.0	9.69	8.63	10.03	8.83	10.70	9.21	10.95	9.41	11.46	9.80	11.80	9.79	12.13	9.80	12.85	9.73	13.44	9.57
23.0	9.48	8.44	9.81	8.64	10.47	9.01	10.72	9.21	11.21	9.58	11.54	9.58	11.87	9.58	12.57	9.52	13.15	9.36
25.0	9.27	8.26	9.59	8.45	10.24	8.81	10.48	9.00	10.96	9.37	11.28	9.37	11.61	9.37	12.29	9.31	12.86	9.15
27.0	9.06	8.07	9.37	8.26	10.00	8.61	10.24	8.80	10.71	9.16	11.03	9.15	11.34	9.16	12.01	9.09	12.56	8.94
29.0	8.85	7.88	9.15	8.06	9.77	8.41	10.00	8.59	10.46	8.94	10.77	8.94	11.08	8.94	11.73	8.88	12.27	8.74
31.0	8.64	7.69	8.94	7.87	9.54	8.21	9.76	8.39	10.21	8.73	10.51	8.73	10.81	8.73	11.45	8.67	11.98	8.53
33.0	8.42	7.50	8.72	7.68	9.30	8.01	9.52	8.18	9.96	8.52	10.26	8.51	10.55	8.52	11.17	8.46	11.69	8.32
35.0	8.21	7.32	8.50	7.49	9.07	7.81	9.29	7.98	9.71	8.31	10.00	8.30	10.29	8.30	10.89	8.25	11.39	8.11
37.0	8.00	7.13	8.28	7.29	8.84	7.61	9.05	7.77	9.46	8.09	9.74	8.09	10.02	8.09	10.61	8.04	11.10	7.90
39.0	7.57	6.74	7.83	6.90	8.36	7.20	8.56	7.35	8.95	7.65	9.22	7.65	9.48	7.65	10.04	7.60	10.50	7.47
40.0	7.42	6.61	7.68	6.77	8.20	7.06	8.39	7.21	8.78	7.50	9.04	7.50	9.29	7.50	9.84	7.45	10.29	7.33
42.0	7.13	6.35	7.37	6.50	7.87	6.78	8.06	6.92	8.43	7.21	8.68	7.20	8.92	7.20	9.45	7.16	9.89	7.04
43.0	6.98	6.22	7.22	6.36	7.71	6.64	7.89	6.78	8.25	7.06	8.50	7.05	8.74	7.06	9.26	7.01	9.68	6.89
45.0	6.04	5.38	6.25	5.51	6.67	5.74	6.83	5.87	7.14	6.11	7.36	6.10	7.57	6.11	8.01	6.07	8.38	5.97
46.0	5.89	5.25	6.10	5.37	6.51	5.60	6.66	5.72	6.97	5.96	7.18	5.96	7.38	5.96	7.82	5.92	8.18	5.82

Product models : RAV-GM2803AT8P-E / RAV-HM1401UTP-E (Twin)

Standard Condition

Indoor	27.0 °C DB / 19.0 °C WB
Outdoor	35.0 °C DB / 24.0 °C WB

Specification of product at standard condition.

Total Cooling Capacity (TC)	12.50 kW
Sensible Heat Capacity (SHC)	9.30 kW

	Indoor Air temperature																		
Outdoor air temp.	14.0 °C WB			15.0 °C WB		16.0 °C WB		17.0 °C WB		18.0 °C WB		19.0 °C WB		20.0 °C WB		22.0 °C WB		24.0 °C WB	
	20.0 °C DB			21.0 °C DB		23.0 °C DB		24.0 °C DB		26.0 °C DB		27.0 °C DB		28.0 °C DB		30.0 °C DB		32.0 °C DB	
°C DB	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	
10.0	13.56	10.91	14.03	11.15	14.98	11.61	15.33	11.85	16.04	12.33	16.51	12.28	16.98	12.25	17.98	12.07	18.81	11.77	
12.0	13.30	10.70	13.76	10.94	14.69	11.38	15.03	11.62	15.73	12.09	16.19	12.05	16.65	12.01	17.64	11.84	18.44	11.54	
14.0	13.03	10.49	13.49	10.72	14.39	11.16	14.74	11.39	15.41	11.85	15.87	11.81	16.32	11.77	17.29	11.60	18.08	11.32	
16.0	12.77	10.28	13.22	10.50	14.10	10.93	14.44	11.16	15.10	11.61	15.55	11.57	15.99	11.54	16.94	11.37	17.71	11.09	
18.0	12.51	10.07	12.94	10.29	13.81	10.70	14.14	10.93	14.79	11.37	15.23	11.33	15.66	11.30	16.59	11.13	17.35	10.86	
20.0	12.24	9.85	12.67	10.07	13.52	10.48	13.84	10.70	14.48	11.14	14.91	11.09	15.33	11.06	16.24	10.90	16.98	10.63	
21.0	12.11	9.75	12.53	9.96	13.38	10.37	13.69	10.58	14.32	11.02	14.75	10.97	15.17	10.94	16.06	10.78	16.80	10.52	
23.0	11.85	9.54	12.26	9.75	13.08	10.14	13.40	10.35	14.01	10.78	14.43	10.73	14.84	10.70	15.71	10.55	16.43	10.29	
25.0	11.59	9.32	11.99	9.53	12.79	9.92	13.10	10.12	13.70	10.54	14.10	10.49	14.51	10.46	15.36	10.31	16.07	10.06	
27.0	11.32	9.11	11.72	9.31	12.50	9.69	12.80	9.89	13.39	10.30	13.78	10.25	14.18	10.23	15.01	10.08	15.70	9.83	
29.0	11.06	8.90	11.44	9.10	12.21	9.46	12.50	9.66	13.08	10.06	13.46	10.02	13.85	9.99	14.66	9.84	15.34	9.60	
31.0	10.79	8.69	11.17	8.88	11.92	9.24	12.20	9.43	12.77	9.82	13.14	9.78	13.52	9.75	14.32	9.61	14.97	9.37	
33.0	10.53	8.48	10.90	8.66	11.63	9.01	11.91	9.20	12.45	9.58	12.82	9.54	13.19	9.51	13.97	9.37	14.61	9.14	
35.0	10.27	8.26	10.62	8.45	11.34	8.79	11.61	8.97	12.14	9.34	12.50	9.30	12.86	9.27	13.62	9.14	14.24	8.91	
37.0	10.00	8.05	10.35	8.23	11.05	8.56	11.31	8.74	11.83	9.10	12.18	9.06	12.53	9.04	13.27	8.90	13.88	8.68	
39.0	8.48	6.82	8.77	6.97	9.36	7.26	9.58	7.41	10.03	7.71	10.32	7.68	10.62	7.66	11.24	7.55	11.76	7.36	
40.0	8.29	6.67	8.58	6.82	9.16	7.10	9.38	7.25	9.81	7.54	10.10	7.51	10.39	7.49	11.00	7.38	11.50	7.20	
42.0	7.92	6.38	8.20	6.52	8.75	6.78	8.96	6.92	9.37	7.21	9.65	7.18	9.92	7.16	10.51	7.05	10.99	6.88	
43.0	7.74	6.23	8.01	6.37	8.55	6.62	8.75	6.76	9.15	7.04	9.42	7.01	9.69	6.99	10.26	6.89	10.73	6.72	
45.0	6.78	5.46	7.02	5.58	7.49	5.80	7.66	5.92	8.02	6.17	8.25	6.14	8.49	6.12	8.99	6.03	9.40	5.89	
46.0	6.59	5.31	6.82	5.42	7.28	5.64	7.46	5.76	7.80	6.00	8.03	5.97	8.26	5.96	8.75	5.87	9.15	5.73	

Product models : RAV-GM2243AT8P-E / RAV-HM801UTP-E (Triple)

Specification of product at standard condition.

Indoor	27.0 °C DB / 19.0 °C WB
	35.0 °C DB / 24.0 °C WB

Total Cooling Capacity (TC)	7.10 kW
Sensible Heat Capacity (SHC)	6.20 kW

	Indoor Air temperature																	
	14.0 °C WB		15.0 °C WB		16.0 °C WB		17.0 °C WB		18.0 °C WB		19.0 °C WB		20.0 °C WB		22.0 °C WB		24.0 °C WB	
	20.0 °C DB		21.0 °C DB		23.0 °C DB		24.0 °C DB		26.0 °C DB		27.0 °C DB		28.0 °C DB		30.0 °C DB		32.0 °C DB	
°C DB	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
10.0	7.70	7.19	7.97	7.37	8.51	7.69	8.71	7.86	9.11	8.18	9.38	8.19	9.65	8.20	10.22	8.18	10.68	8.07
12.0	7.55	7.06	7.82	7.22	8.34	7.54	8.54	7.70	8.93	8.02	9.20	8.03	9.46	8.04	10.02	8.02	10.48	7.91
14.0	7.40	6.92	7.66	7.08	8.18	7.39	8.37	7.55	8.76	7.86	9.01	7.87	9.27	7.89	9.82	7.86	10.27	7.75
16.0	7.25	6.78	7.51	6.94	8.01	7.24	8.20	7.40	8.58	7.71	8.83	7.71	9.08	7.73	9.62	7.70	10.06	7.60
18.0	7.10	6.64	7.35	6.79	7.85	7.09	8.03	7.25	8.40	7.55	8.65	7.55	8.90	7.57	9.42	7.54	9.85	7.44
20.0	6.95	6.50	7.20	6.65	7.68	6.94	7.86	7.09	8.22	7.39	8.47	7.39	8.71	7.41	9.22	7.38	9.65	7.28
21.0	6.88	6.43	7.12	6.58	7.60	6.87	7.78	7.02	8.14	7.31	8.38	7.31	8.62	7.33	9.12	7.30	9.54	7.21
23.0	6.73	6.29	6.96	6.44	7.43	6.72	7.61	6.86	7.96	7.15	8.19	7.15	8.43	7.17	8.93	7.14	9.33	7.05
25.0	6.58	6.15	6.81	6.29	7.27	6.57	7.44	6.71	7.78	6.99	8.01	7.00	8.24	7.01	8.73	6.99	9.13	6.89
27.0	6.43	6.01	6.65	6.15	7.10	6.42	7.27	6.56	7.61	6.83	7.83	6.84	8.05	6.85	8.53	6.83	8.92	6.74
29.0	6.28	5.87	6.50	6.01	6.94	6.27	7.10	6.41	7.43	6.67	7.65	6.68	7.87	6.69	8.33	6.67	8.71	6.58
31.0	6.13	5.73	6.34	5.86	6.77	6.12	6.93	6.25	7.25	6.51	7.46	6.52	7.68	6.53	8.13	6.51	8.50	6.42
33.0	5.98	5.59	6.19	5.72	6.61	5.97	6.76	6.10	7.07	6.35	7.28	6.36	7.49	6.37	7.93	6.35	8.30	6.27
35.0	5.83	5.45	6.03	5.58	6.44	5.82	6.59	5.95	6.90	6.20	7.10	6.20	7.30	6.21	7.73	6.19	8.09	6.11
37.0	5.68	5.31	5.88	5.43	6.28	5.67	6.42	5.80	6.72	6.04	6.92	6.04	7.12	6.05	7.54	6.03	7.88	5.95
39.0	5.53	5.16	5.73	5.28	6.08	5.52	6.27	5.68	6.56	5.89	6.77	5.89	6.97	5.90	7.35	5.88	7.71	5.80
40.0	5.27	4.92	5.45	5.04	5.82	5.26	5.96	5.38	6.23	5.60	6.42	5.60	6.60	5.61	6.99	5.59	7.31	5.52
42.0	5.06	4.73	5.24	4.84	5.59	5.05	5.72	5.16	5.98	5.38	6.16	5.38	6.34	5.39	6.71	5.37	7.02	5.30
43.0	4.96	4.63	5.13	4.74	5.47	4.95	5.60	5.05	5.86	5.26	6.03	5.27	6.21	5.28	6.57	5.26	6.87	5.19
45.0	4.29	4.01	4.44	4.10	4.74	4.28	4.85	4.38	5.07	4.56	5.22	4.56	5.37	4.57	5.69	4.55	5.95	4.49
46.0	4.18	3.91	4.33	4.00	4.62	4.18	4.73	4.27	4.95	4.45	5.09	4.45	5.24	4.46	5.55	4.44	5.80	4.38

Product models : RAV-GM2243AT8P-E / RAV-HM561UTP-E (Double twin)

Standard Condition

Indoor	27.0 °C DB / 19.0 °C WB
Outdoor	35.0 °C DB / 24.0 °C WB

Specification of product at standard condition.

Total Cooling Capacity (TC)	5.00 kW
Sensible Heat Capacity (SHC)	4.10 kW

	Indoor Air temperature																	
Outdoor air temp.	14.0 °C WB		15.0 °C WB		16.0 °C WB		17.0 °C WB		18.0 °C WB		19.0 °C WB		20.0 °C WB		22.0 °C WB		24.0 °C WB	
	20.0 °C DB		21.0 °C DB		23.0 °C DB		24.0 °C DB		26.0 °C DB		27.0 °C DB		28.0 °C DB		30.0 °C DB		32.0 °C DB	
°C DB	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
10.0	5.42	4.78	5.61	4.89	5.99	5.10	6.13	5.21	6.42	5.42	6.60	5.42	6.79	5.42	7.19	5.38	7.52	5.28
12.0	5.32	4.69	5.50	4.79	5.87	5.00	6.01	5.11	6.29	5.32	6.48	5.31	6.66	5.31	7.05	5.27	7.38	5.18
14.0	5.21	4.59	5.40	4.70	5.76	4.90	5.89	5.00	6.17	5.21	6.35	5.20	6.53	5.21	6.91	5.17	7.23	5.08
16.0	5.11	4.50	5.29	4.60	5.64	4.80	5.78	4.90	6.04	5.10	6.22	5.10	6.40	5.10	6.77	5.06	7.09	4.97
18.0	5.00	4.41	5.18	4.51	5.52	4.70	5.66	4.80	5.92	5.00	6.09	4.99	6.27	5.00	6.63	4.96	6.94	4.87
20.0	4.90	4.31	5.07	4.41	5.41	4.60	5.54	4.70	5.79	4.89	5.96	4.89	6.13	4.89	6.49	4.85	6.79	4.77
21.0	4.84	4.27	5.01	4.37	5.35	4.55	5.48	4.65	5.73	4.84	5.90	4.84	6.07	4.84	6.43	4.80	6.72	4.72
23.0	4.74	4.17	4.90	4.27	5.23	4.45	5.36	4.55	5.60	4.74	5.77	4.73	5.94	4.73	6.29	4.70	6.57	4.61
25.0	4.63	4.08	4.80	4.18	5.12	4.36	5.24	4.45	5.48	4.63	5.64	4.63	5.80	4.63	6.15	4.59	6.43	4.51
27.0	4.53	3.99	4.69	4.08	5.00	4.26	5.12	4.35	5.36	4.53	5.51	4.52	5.67	4.52	6.01	4.49	6.28	4.41
29.0	4.42	3.90	4.58	3.99	4.88	4.16	5.00	4.25	5.23	4.42	5.39	4.42	5.54	4.42	5.87	4.38	6.14	4.31
31.0	4.32	3.80	4.47	3.89	4.77	4.06	4.88	4.14	5.11	4.31	5.26	4.31	5.41	4.31	5.73	4.28	5.99	4.20
33.0	4.21	3.71	4.36	3.80	4.65	3.96	4.76	4.04	4.98	4.21	5.13	4.21	5.28	4.21	5.59	4.17	5.84	4.10
35.0	4.11	3.62	4.25	3.70	4.54	3.86	4.64	3.94	4.86	4.10	5.00	4.10	5.14	4.10	5.45	4.07	5.70	4.00
37.0	4.00	3.52	4.14	3.61	4.42	3.76	4.52	3.84	4.73	4.00	4.87	3.99	5.01	4.00	5.31	3.97	5.55	3.90
39.0	3.78	3.33	3.92	3.41	4.18	3.56	4.28	3.63	4.48	3.78	4.61	3.78	4.74	3.78	5.02	3.75	5.25	3.68
40.0	3.71	3.27	3.84	3.34	4.10	3.49	4.20	3.56	4.39	3.71	4.52	3.70	4.65	3.71	4.92	3.68	5.15	3.61
42.0	3.56	3.14	3.69	3.21	3.94	3.35	4.03	3.42	4.21	3.56	4.34	3.56	4.46	3.56	4.73	3.53	4.94	3.47
43.0	3.49	3.07	3.61	3.14	3.85	3.28	3.95	3.35	4.13	3.49	4.25	3.48	4.37	3.48	4.63	3.46	4.84	3.40
45.0	3.02	2.66	3.13	2.72	3.34	2.84	3.42	2.90	3.57	3.02	3.68	3.02	3.78	3.02	4.01	2.99	4.19	2.94
46.0	2.95	2.60	3.05	2.66	3.25	2.77	3.33	2.83	3.49	2.94	3.59	2.94	3.69	2.94	3.91	2.92	4.09	2.87

Product models : RAV-GM2803AT8P-E / RAV-HM801UTP-E (Triple)

Standard Condition

Indoor	27.0 °C DB / 19.0 °C WB
Outdoor	35.0 °C DB / 24.0 °C WB

Specification of product at standard condition.

Total Cooling Capacity (TC)	7.10 kW
Sensible Heat Capacity (SHC)	6.20 kW

Outdoor air temp.	Indoor Air temperature																	
	14.0 °C WB		15.0 °C WB		16.0 °C WB		17.0 °C WB		18.0 °C WB		19.0 °C WB		20.0 °C WB		22.0 °C WB		24.0 °C WB	
°C DB	20.0 °C DB		21.0 °C DB		23.0 °C DB		24.0 °C DB		26.0 °C DB		27.0 °C DB		28.0 °C DB		30.0 °C DB		32.0 °C DB	
	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
10.0	7.70	7.19	7.97	7.37	8.51	7.69	8.71	7.86	9.11	8.18	9.38	8.19	9.65	8.20	10.22	8.18	10.68	8.07
12.0	7.55	7.06	7.82	7.22	8.34	7.54	8.54	7.70	8.93	8.02	9.20	8.03	9.46	8.04	10.02	8.02	10.48	7.91
14.0	7.40	6.92	7.66	7.08	8.18	7.39	8.37	7.55	8.76	7.86	9.01	7.87	9.27	7.89	9.82	7.86	10.27	7.75
16.0	7.25	6.78	7.51	6.94	8.01	7.24	8.20	7.40	8.58	7.71	8.83	7.71	9.08	7.73	9.62	7.70	10.06	7.60
18.0	7.10	6.64	7.35	6.79	7.85	7.09	8.03	7.25	8.40	7.55	8.65	7.55	8.90	7.57	9.42	7.54	9.85	7.44
20.0	6.95	6.50	7.20	6.65	7.68	6.94	7.86	7.09	8.22	7.39	8.47	7.39	8.71	7.41	9.22	7.38	9.65	7.28
21.0	6.88	6.43	7.12	6.58	7.60	6.87	7.78	7.02	8.14	7.31	8.38	7.31	8.62	7.33	9.12	7.30	9.54	7.21
23.0	6.73	6.29	6.96	6.44	7.43	6.72	7.61	6.86	7.96	7.15	8.19	7.15	8.43	7.17	8.93	7.14	9.33	7.05
25.0	6.58	6.15	6.81	6.29	7.27	6.57	7.44	6.71	7.78	6.99	8.01	7.00	8.24	7.01	8.73	6.99	9.13	6.89
27.0	6.43	6.01	6.65	6.15	7.10	6.42	7.27	6.56	7.61	6.83	7.83	6.84	8.05	6.85	8.53	6.83	8.92	6.74
29.0	6.28	5.87	6.50	6.01	6.94	6.27	7.10	6.41	7.43	6.67	7.65	6.68	7.87	6.69	8.33	6.67	8.71	6.58
31.0	6.13	5.73	6.34	5.86	6.77	6.12	6.93	6.25	7.25	6.51	7.46	6.52	7.68	6.53	8.13	6.51	8.50	6.42
33.0	5.98	5.59	6.19	5.72	6.61	5.97	6.76	6.10	7.07	6.35	7.28	6.36	7.49	6.37	7.93	6.35	8.30	6.27
35.0	5.83	5.45	6.03	5.58	6.44	5.82	6.59	5.95	6.90	6.20	7.10	6.20	7.30	6.21	7.73	6.19	8.09	6.11
37.0	5.68	5.31	5.88	5.43	6.28	5.67	6.42	5.80	6.72	6.04	6.92	6.04	7.12	6.05	7.54	6.03	7.88	5.95
39.0	4.82	4.50	4.98	4.60	5.32	4.81	5.44	4.91	5.70	5.12	5.86	5.12	6.03	5.13	6.39	5.11	6.68	5.04
40.0	4.71	4.40	4.87	4.50	5.20	4.70	5.33	4.80	5.57	5.00	5.73	5.01	5.90	5.02	6.25	5.00	6.53	4.93
42.0	4.50	4.20	4.66	4.30	4.97	4.49	5.09	4.59	5.32	4.78	5.48	4.78	5.64	4.79	5.97	4.78	6.24	4.71
43.0	4.40	4.11	4.55	4.20	4.85	4.39	4.97	4.48	5.20	4.67	5.35	4.67	5.50	4.68	5.83	4.67	6.10	4.60
45.0	3.85	3.60	3.98	3.68	4.25	3.85	4.35	3.93	4.55	4.09	4.69	4.09	4.82	4.10	5.11	4.09	5.34	4.03
46.0	3.75	3.50	3.88	3.58	4.14	3.74	4.23	3.82	4.43	3.98	4.56	3.98	4.69	3.99	4.97	3.98	5.20	3.92

Product models : RAV-GM2803AT8P-E / RAV-HM801UTP-E (Double twin)

Standard Condition

Indoor	27.0 °C DB / 19.0 °C WB
Outdoor	35.0 °C DB / 24.0 °C WB

Specification of product at standard condition.

Total Cooling Capacity (TC)	7.10 kW
Sensible Heat Capacity (SHC)	6.20 kW

Outdoor air temp.	Indoor Air temperature																	
	14.0 °C WB		15.0 °C WB		16.0 °C WB		17.0 °C WB		18.0 °C WB		19.0 °C WB		20.0 °C WB		22.0 °C WB		24.0 °C WB	
°C DB	20.0 °C DB		21.0 °C DB		23.0 °C DB		24.0 °C DB		26.0 °C DB		27.0 °C DB		28.0 °C DB		30.0 °C DB		32.0 °C DB	
	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
10.0	7.70	7.19	7.97	7.37	8.51	7.69	8.71	7.86	9.11	8.18	9.38	8.19	9.65	8.20	10.22	8.18	10.68	8.07
12.0	7.55	7.06	7.82	7.22	8.34	7.54	8.54	7.70	8.93	8.02	9.20	8.03	9.46	8.04	10.02	8.02	10.48	7.91
14.0	7.40	6.92	7.66	7.08	8.18	7.39	8.37	7.55	8.76	7.86	9.01	7.87	9.27	7.89	9.82	7.86	10.27	7.75
16.0	7.25	6.78	7.51	6.94	8.01	7.24	8.20	7.40	8.58	7.71	8.83	7.71	9.08	7.73	9.62	7.70	10.06	7.60
18.0	7.10	6.64	7.35	6.79	7.85	7.09	8.03	7.25	8.40	7.55	8.65	7.55	8.90	7.57	9.42	7.54	9.85	7.44
20.0	6.95	6.50	7.20	6.65	7.68	6.94	7.86	7.09	8.22	7.39	8.47	7.39	8.71	7.41	9.22	7.38	9.65	7.28
21.0	6.88	6.43	7.12	6.58	7.60	6.87	7.78	7.02	8.14	7.31	8.38	7.31	8.62	7.33	9.12	7.30	9.54	7.21
23.0	6.73	6.29	6.96	6.44	7.43	6.72	7.61	6.86	7.96	7.15	8.19	7.15	8.43	7.17	8.93	7.14	9.33	7.05
25.0	6.58	6.15	6.81	6.29	7.27	6.57	7.44	6.71	7.78	6.99	8.01	7.00	8.24	7.01	8.73	6.99	9.13	6.89
27.0	6.43	6.01	6.65	6.15	7.10	6.42	7.27	6.56	7.61	6.83	7.83	6.84	8.05	6.85	8.53	6.83	8.92	6.74
29.0	6.28	5.87	6.50	6.01	6.94	6.27	7.10	6.41	7.43	6.67	7.65	6.68	7.87	6.69	8.33	6.67	8.71	6.58
31.0	6.13	5.73	6.34	5.86	6.77	6.12	6.93	6.25	7.25	6.51	7.46	6.52	7.68	6.53	8.13	6.51	8.50	6.42
33.0	5.98	5.59	6.19	5.72	6.61	5.97	6.76	6.10	7.07	6.35	7.28	6.36	7.49	6.37	7.93	6.35	8.30	6.27
35.0	5.83	5.45	6.03	5.58	6.44	5.82	6.59	5.95	6.90	6.20	7.10	6.20	7.30	6.21	7.73	6.19	8.09	6.11
37.0	5.68	5.31	5.88	5.43	6.28	5.67	6.42	5.80	6.72	6.04	6.92	6.04	7.12	6.05	7.54	6.03	7.88	5.95
39.0	4.82	4.50	4.98	4.60	5.32	4.81	5.44	4.91	5.70	5.12	5.86	5.12	6.03	5.13	6.39	5.11	6.68	5.04
40.0	4.71	4.40	4.87	4.50	5.20	4.70	5.33	4.80	5.57	5.00	5.73	5.01	5.90	5.02	6.25	5.00	6.53	4.93
42.0	4.50	4.20	4.66	4.30	4.97	4.49	5.09	4.59	5.32	4.78	5.48	4.78	5.64	4.79	5.97	4.78	6.24	4.71
43.0	4.40	4.11	4.55	4.20	4.85	4.39	4.97	4.48	5.20	4.67	5.35	4.67	5.50	4.68	5.83	4.67	6.10	4.60
45.0	3.85	3.60	3.98	3.68	4.25	3.85	4.35	3.93	4.55	4.09	4.69	4.09	4.82	4.10	5.11	4.09	5.34	4.03
46.0	3.75	3.50	3.88	3.58	4.14	3.74	4.23	3.82	4.43	3.98	4.56	3.98	4.69	3.99	4.97	3.98	5.20	3.92

2-5-5. Part Load Performance

Combination <Rated condition>
Indoor: RAV-HM1101UTP-E x 1, RAV-HM801UTP-E x 3, RAV-HM561UTP-E x 4
Outdoor: RAV-GM2243AT8(J)P-E

Operation range		Cooling		Heating	
		Q	P	Q	P
MINIMUM	W	4600	1300	4600	1250
RATING	W	20000	7830	22400	7100
MAXIMUM	W	22400	8960	25000	8330

Cooling																				
Outdoor Temperature DB (°C)	Parts Load (%)																			
	100		90		80		70		60		50		40		30		20		10	
	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P
20	23850	6147	21465	5481	19080	4815	16695	4149	14310	3484	11925	2818	9540	2152	7155	1487	5486	1021	5486	1021
21	23593	6259	21234	5581	18875	4903	16515	4225	14156	3547	11797	2869	9437	2192	7078	1514	5426	1039	5426	1039
22	23337	6371	21003	5681	18669	4991	16336	4301	14002	3611	11668	2921	9335	2231	7001	1541	5367	1058	5367	1058
23	23080	6483	20772	5781	18464	5079	16156	4377	13848	3674	11540	2972	9232	2270	6924	1568	5308	1076	5308	1076
24	22823	6595	20541	5881	18259	5167	15976	4452	13694	3738	11412	3024	9129	2309	6847	1595	5249	1095	5249	1095
25	22567	6708	20310	5981	18053	5255	15797	4528	13540	3802	11283	3075	9027	2349	6770	1622	5190	1114	5190	1114
26	22310	6820	20079	6081	17848	5343	15617	4604	13386	3865	11155	3127	8924	2388	6693	1649	5131	1132	5131	1132
27	22053	6932	19848	6181	17643	5431	15437	4680	13232	3929	11027	3178	8821	2427	6616	1676	5072	1151	5072	1151
28	21797	7044	19617	6281	17437	5518	15258	4755	13078	3993	10898	3230	8719	2467	6539	1704	5013	1170	5013	1170
29	21540	7157	19386	6382	17232	5606	15078	4831	12924	4056	10770	3281	8616	2506	6462	1731	4954	1188	4954	1188
30	21283	7269	19155	6482	17027	5694	14898	4907	12770	4120	10642	3332	8513	2545	6385	1758	4895	1207	4895	1207
31	21027	7381	18924	6582	16821	5782	14719	4983	12616	4183	10513	3384	8411	2584	6308	1785	4836	1225	4836	1225
32	20770	7493	18693	6682	16616	5870	14539	5059	12462	4247	10385	3435	8308	2624	6231	1812	4777	1244	4777	1244
33	20513	7606	18462	6782	16411	5958	14359	5134	12308	4311	10257	3487	8205	2663	6154	1839	4718	1263	4718	1263
34	20257	7718	18231	6882	16205	6046	14180	5210	12154	4374	10128	3538	8103	2702	6077	1866	4659	1281	4659	1281
35	20000	7830	18000	6982	16000	6134	14000	5286	12000	4438	10000	3590	8000	2742	6000	1894	4600	1300	4600	1300
36	19743	7942	17769	7082	15795	6222	13820	5362	11846	4501	9872	3641	7897	2781	5923	1921	4541	1319	4541	1319
37	19487	8054	17538	7182	15589	6310	13641	5437	11692	4565	9743	3693	7795	2820	5846	1948	4482	1337	4482	1337
38	19230	8167	17307	7282	15384	6398	13461	5513	11538	4629	9615	3744	7692	2860	5769	1975	4423	1356	4423	1356
39	18431	7687	16588	6855	14745	6022	12902	5189	11059	4357	9216	3524	7373	2692	5529	1859	4239	1276	4239	1276
40	18072	7687	16265	6855	14458	6022	12650	5189	10843	4357	9036	3524	7229	2692	5422	1859	4157	1276	4157	1276
41	17713	7687	15941	6855	14170	6022	12399	5189	10628	4357	8856	3524	7085	2692	5314	1859	4074	1276	4074	1276
42	17353	7687	15618	6855	13883	6022	12147	5189	10412	4357	8677	3524	6941	2692	5206	1859	3991	1276	3991	1276
43	16994	7687	15294	6855	13595	6022	11896	5189	10196	4357	8497	3524	6797	2692	5098	1859	3909	1276	3909	1276
44	15070	5979	13563	5331	12056	4684	10549	4036	9042	3389	7535	2741	6028	2094	4521	1446	3466	993	3466	993
45	14711	5979	13240	5331	11768	4684	10297	4036	8826	3389	7355	2741	5884	2094	4413	1446	3383	993	3383	993
46	14351	5979	12916	5331	11481	4684	10046	4036	8611	3389	7176	2741	5740	2094	4305	1446	3301	993	3301	993

Heating																				
Outdoor Temperature DB (°C)	Parts Load (%)																			
	100		90		80		70		60		50		40		30		20		10	
	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P
-27	6069	2856	5462	2560	4855	2263	4248	1967	3641	1671	3034	1375	2428	1079	1821	783	1246	503	1246	503
-26	6444	2976	5800	2667	5155	2359	4511	2050	3866	1742	3222	1433	2578	1125	1933	816	1323	524	1323	524
-25	6819	3096	6137	2775	5455	2454	4774	2133	4092	1812	3410	1491	2728	1170	2046	849	1400	545	1400	545
-24	7195	3216	6475	2883	5756	2549	5036	2216	4317	1882	3597	1549	2878	1215	2158	882	1477	566	1477	566
-23	7570	3337	6813	2991	6056	2645	5299	2299	4542	1953	3785	1607	3028	1261	2271	915	1555	587	1555	587
-22	7945	3457	7151	3098	6356	2740	5562	2381	4767	2023	3973	1665	3178	1306	2384	948	1632	609	1632	609
-21	8320	3577	7488	3206	6656	2835	5824	2464	4992	2093	4160	1723	3328	1352	2496	981	1709	630	1709	630
-20	8696	3697	7826	3314	6957	2931	6087	2547	5217	2164	4348	1780	3478	1397	2609	1014	1786	651	1786	651
-19	9094	3801	8185	3407	7275	3013	6366	2619	5457	2225	4547	1830	3638	1436	2728	1042	1868	669	1868	669
-18	9493	3905	8543	3500	7594	3095	6645	2690	5696	2285	4746	1880	3797	1476	2848	1071	1949	687	1949	687
-17	9891	4009	8902	3593	7913	3177	6924	2762	5935	2346	4946	1930	3957	1515	2967	1099	2031	706	2031	706
-16	10290	4113	9261	3686	8232	3260	7203	2833	6174	2407	5145	1980	4116	1554	3087	1128	2113	724	2113	724
-15	10688	4216	9620	3779	8551	3342	7482	2905	6413	2468	5344	2031	4275	1593	3207	1156	2195	742	2195	742
-14	10994	4345	9895	3894	8795	3444	7696	2993	6596	2543	5497	2092	4398	1642	3298	1191	2258	765	2258	765
-13	11300	4474	10170	4010	9040	3546	7910	3082	6780	2618	5650	2154	4520	1690	3390	1227	2320	788	2320	788
-12	11606	4602	10445	4125	9284	3648	8124	3171	6963	2693	5803	2216	4642	1739	3482	1262	2383	810	2383	810
-11	11911	4731	10720	4240	9529	3750	8338	3259	7147	2769	5956	2278	4764	1788	3573	1297	2446	833	2446	833
-10	12217	4859	10995	4355	9774	3851	8552	3348	7330	2844	6108	2340	4887	1836	3665	1332	2509	855	2509	855
-9	12523	4988	11270	4470	10018	3953	8766	3436	7514	2919	6261	2402	5009	1885	3757	1368	2572	878	2572	878
-8	12828	5116	11546	4586	10263	4055	8980	3525	7697	2994	6414	2464	5131	1933	3849	1403	2634	901	2634	901
-7	13134	5245	11821	4701	10507	4157	9194	3613	7880	3069	6567	2526	5254	1982	3940	1438	2697	923	2697	923
-6	13478	5360	12130	4804	10783	4249	9435	3693	8087	3137	6739	2581	5391	2025	4043	1470	2768	944	2768	944
-5	13822	5475	12440	4908	11058	4340	9676	3772	8293	3205	6911	2637	5529	2069	4147	1501	2839	964	2839	964
-4	14167	5591	12750	5011	11333	4431	9917	3852	8500	3272	7083	2692	5667	2113	4250	1533	2909	984	2909	984
-3	14511	5706	13060	5115	11609	4523	10158	3931	8707	3340	7255	2748	5804	2156	4353	1565	2980	1005	2980	1005
-2	14855	5822	13370	5218	11884	4614	10399	4011	8913	3407	7428	2803	5942	2200	4457	1596	3051	1025	3051	1025
-1	15199	5937	13679	5321	12159	4706	10639	4090	9120	3475	7600	2859	6080	2243	4560	1628	3121	1045	3121	1045
0	15543	6052	13989	5425	12435	4797	10880	4170	9326	3542	7772	2915	6217	2287	4663	1660	3192	1066	3192	1066
1	15888	6168	14299	5528	12710	4889	11121	4249	9533	3610	7944	2970	6355	2331	4766	1691	3263	1086	3263	1086
2	16232	6283	14609	5632	12986	4980	11362	4329	9739	3677	8116	3026	6493	2374	4870	1723	3333	1106	3333	1106
3	16498	6368	14848	5707	13198	5047	11548	4387	9899	3727	8249	3066	6599	2406	4949	1746	3388	1121	3388	1121
4	16764	6452	15087	5783	13411	5114	11735	4445	10058	3776	8382	3107	6705	2438	5029	1769	3443	1136	3443	1136
5	17030	6537	15327	5859	13624	5181	11921	4503	10218	3826	8515	3148	6812	2470	5109	1792	3497	1151	3497	1151
6	21822	6990	19640	6265	15748	5541	15275	4816	13093	4091	10911	3366	8729	2641	6547	1917	4481	1231	4481	1231
7	22400	7100	20160	6364	17920	5628	15680	4891	13440	4155	11200	3419	8960	2683	6720	1947	4600	1250	4600	1250
8	22978	7210	20680	6462	18382	5715	16085	4967	13787	4220	11489	3472	9191	2724	6893	1977	4719	1269	4719	1269
9	23556	7320	21201	6561	18845	5802	16489	5043	14134	4284	11778	3525	9422	2766	7067	2007	4837	1289	4837	1289
10	24134	7430	21721	6659	19307	5889	16894	5119	14481	4348	12067	3578	9654	2808	7240	2037	4956	1308	4956	1308
11	24712	7540	22241	6758	19770	5976	17299	5194	14827	4413	12356	3631	9885	2849	7414	2067	5075	1327	5075	1327
12	25290	7650	22761	6857	20232	6063	17703	5270	15174	4477	12645	3684	10116	2891	7587	2097	5194	1347	5194	1347
13	25868	7760	23282	6955	20695	6150	18108	5346	15521	4541	12934	3737	10347	2932	7761	2128	5312	1366	5312	1366
14	26446	7870	23802	7054	21157	6238	18513	5422	15868	4606	13223	3790	10579	2974	7934	2158	5431	1385	5431	1385
15	27025	7979	24322	7152	21620	6325	18917	5497	16215	4670	13512	3843	10810	3015	8107	2188	5550	1405	5550	1405
16	27603	8089	24842	7251	22082	6412	19322	5573	16562	4734	13801	3896	11041	3057	8281	2218	5668	1424	5668	1424
17	28181	8199	25363	7349	22545	6499	19726	5649	16908	4799	14090	3949	11272	3098	8454	2248	5787	1444	5787	1444
18	28759	8309	25883	7448	23007	6586	20131	5725	17255	4863	14379	4001	11503	3140	8628	2278	5906	1463	5906	1463
19	29337	8419	26403	7546	23469	6673	20536	5800	17602	4927	14668	4054	11735	3181	8801	2308	6025	1482	6025	1482
20	29915	8529	26923	7645	23932	6760	20940	5876	17949	4992	14957	4107	11966	3223	8974	2339	6143	1502	6143	1502
21	30493	8639	27443	7743	24394	6848	21345	5952	18296	5056	15246	4160	12197	3265	9148	2369	6262	1521	6262	1521
22	31071	8749	27964	7842	24857	6935	21750	6028	18643	5120	15535	4213	12428	3306	9321	2399	6381	1540	6381	1540
23	31649	8859	28484	7940	25319	7022	22154	6103	18989	5185	15825	4266	12660	3348	9495	2429	6499	1560	6499	1560
24	32227	8969	29004	8039	25782	7109	22559	6179	19336	5249	16114	4319	12891	3389	9668	2459	6618	1579	6618	1579

Combination <Capacity range (Max)>

Indoor: RAV-HM1101UTP-E x 1, RAV-HM801UTP-E x 3, RAV-HM561UTP-E x 4
Outdoor: RAV-GM2243AT8(J)P-E

Operation range	Cooling		Heating	
	Q	P	Q	P
MINIMUM	W 4600	1300	4600	1250
RATING	W 20000	7830	22400	7100
MAXIMUM	W 22400	8960	25000	8330

Cooling

Outdoor Temperature DB (°C)	Parts Load (%)																	
	100		90		80		70		60		50		40		30		20	
	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P
20	26801	7085	24120	6323	21440	5560	18760	4798	16080	4036	13400	3274	10720	2512	8040	1749	5504	1028
21	26512	7214	23861	6438	21210	5662	18558	4886	15907	4110	13256	3334	10605	2557	7954	1781	5444	1047
22	26224	7344	23602	6554	20979	5764	18357	4973	15724	4183	13112	3393	10489	2603	7867	1813	5385	1065
23	25935	7473	23342	6669	20748	5865	18155	5061	15561	4257	12968	3453	10374	2649	7781	1845	5326	1084
24	25647	7602	23082	6784	20517	5967	17953	5149	15388	4331	12823	3513	10259	2695	7694	1877	5267	1103
25	25358	7732	22823	6900	20287	6068	17751	5236	15215	4404	12679	3573	10143	2741	7608	1909	5208	1122
26	25070	7861	22563	7015	20056	6170	17549	5324	15042	4478	12535	3632	10028	2787	7521	1941	5148	1141
27	24782	7990	22303	7131	19825	6271	17347	5412	14869	4552	12391	3692	9913	2833	7434	1973	5089	1159
28	24493	8120	22044	7246	19595	6373	17145	5499	14696	4626	12247	3752	9797	2878	7348	2005	5030	1178
29	24205	8249	21784	7362	19364	6474	16943	5587	14523	4699	12102	3812	9682	2924	7261	2037	4971	1197
30	23916	8379	21525	7477	19133	6576	16741	5674	14350	4773	11958	3872	9567	2970	7175	2069	4911	1216
31	23628	8508	21265	7593	18902	6677	16540	5762	14177	4847	11814	3931	9451	3016	7088	2101	4852	1234
32	23339	8637	21006	7708	18672	6779	16338	5850	14004	4920	11670	3991	9336	3062	7002	2133	4793	1253
33	23051	8767	20746	7824	18441	6880	16136	5937	13831	4994	11526	4051	9220	3108	6915	2165	4734	1272
34	22763	8896	20486	7939	18210	6982	15934	6025	13658	5068	11381	4111	9105	3154	6829	2197	4674	1291
35	22400	8960	20160	7996	17920	7032	15680	6068	13440	5104	11200	4140	8960	3176	6720	2212	4600	1300
36	21971	8960	19774	7996	17577	7032	15379	6068	13182	5104	10985	4140	8788	3176	6591	2212	4512	1300
37	21549	8960	19394	7996	17239	7032	15084	6068	12929	5104	10774	4140	8620	3176	6465	2212	4425	1300
38	21134	8960	19021	7996	16908	7032	14794	6068	12681	5104	10567	4140	8454	3176	6340	2212	4340	1300
39	17568	5973	15811	5331	14054	4688	12298	4045	10541	3403	8784	2760	7027	2118	5270	1475	3608	867
40	17225	5973	15503	5331	13780	4688	12058	4045	10335	3403	8613	2760	6890	2118	5168	1475	3537	867
41	16883	5973	15194	5331	13506	4688	11818	4045	10130	3403	8441	2760	6753	2118	5065	1475	3467	867
42	16540	5973	14886	5331	13232	4688	11578	4045	9924	3403	8270	2760	6616	2118	4962	1475	3397	867
43	16198	5973	14578	5331	12958	4688	11338	4045	9719	3403	8099	2760	6479	2118	4859	1475	3326	867
44	14364	4646	12928	4146	11491	3646	10055	3146	8618	2647	7182	2147	5746	1647	4309	1147	2950	674
45	14021	4646	12619	4146	11217	3646	9815	3146	8413	2647	7011	2147	5609	1647	4206	1147	2879	674
46	13679	4646	12311	4146	10943	3646	9575	3146	8207	2647	6839	2147	5472	1647	4104	1147	2809	674

Heating

Outdoor Temperature DB (°C)	Parts Load (%)																			
	100		90		80		70		60		50		40		30		20		10	
	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P
-27	6700	3672	6030	3290	5360	2907	4690	2525	4020	2142	3350	1760	2680	1377	2010	995	1340	612	1233	551
-26	7114	3827	6403	3428	5691	3030	4980	2631	4269	2232	3557	1834	2846	1435	2134	1037	1423	638	1309	574
-25	7529	3981	6776	3567	6023	3152	5270	2737	4517	2323	3764	1908	3011	1493	2259	1078	1506	664	1385	597
-24	7943	4136	7149	3705	6354	3274	5560	2844	4766	2413	3971	1982	3177	1551	2383	1120	1589	690	1461	621
-23	8357	4291	7521	3844	6686	3397	5850	2950	5014	2503	4179	2056	3343	1609	2507	1162	1671	715	1538	644
-22	8771	4445	7894	3982	7017	3519	6140	3056	5263	2593	4386	2130	3509	1667	2631	1204	1754	741	1614	667
-21	9186	4600	8267	4121	7349	3642	6430	3162	5511	2683	4593	2204	3674	1725	2756	1246	1837	767	1690	690
-20	9600	4754	8640	4259	7680	3764	6720	3269	5760	2774	4800	2278	3840	1783	2880	1288	1920	793	1766	713
-19	10040	4888	9036	4379	8032	3870	7028	3361	6024	2851	5020	2342	4016	1833	3012	1324	2008	815	1847	733
-18	10480	5022	9432	4498	8384	3975	7336	3452	6288	2929	5240	2406	4192	1883	3144	1360	2096	837	1928	754
-17	10920	5155	9828	4618	8736	4081	7644	3544	6552	3007	5460	2470	4368	1933	3276	1396	2184	859	2009	774
-16	11360	5289	10224	4738	9088	4187	7952	3636	6816	3085	5680	2534	4544	1983	3408	1433	2272	882	2090	794
-15	11800	5422	10620	4857	9440	4293	8260	3728	7080	3163	5900	2598	4720	2034	3540	1469	2360	904	2171	814
-14	12138	5587	10924	5005	9710	4423	8496	3841	7283	3259	6069	2678	4855	2096	3641	1514	2428	932	2233	838
-13	12475	5753	11228	5153	9980	4554	8733	3955	7485	3356	6238	2757	4990	2158	3743	1558	2495	959	2295	863
-12	12813	5918	11531	5302	10250	4685	8969	4069	7688	3452	6406	2836	5125	2219	3844	1603	2563	987	2358	888
-11	13150	6083	11835	5450	10520	4816	9205	4182	7890	3545	6575	2915	5260	2281	3945	1648	2630	1014	2420	913
-10	13488	6248	12139	5598	10790	4947	9441	4296	8093	3645	6744	2994	5395	2343	4046	1693	2698	1042	2482	938
-9	13825	6414	12443	5746	11060	5078	9678	4410	8295	3742	6913	3073	5530	2405	4148	1737	2765	1069	2544	962
-8	14163	6579	12746	5894	11330	5208	9914	4523	8498	3838	7081	3153	5665	2467	4249	1782	2833	1097	2606	987
-7	14500	6744	13050	6042	11600	5339	10150	4637	8700	3934	7250	3232	5800	2529	4350	1827	2900	1124	2668	1012
-6	14880	6893	13392	6175	11904	5457	10416	4739	8928	4021	7440	3303	5952	2585	4464	1867	2976	1149	2738	1034
-5	15260	7041	13734	6308	12208	5574	10682	4841	9156	4108	7630	3374	6104	2641	4578	1907	3052	1174	2808	1057
-4	15640	7189	14076	6441	12512	5692	10948	4943	9384	4194	7820	3445	6256	2696	4692	1948	3128	1199	2878	1079
-3	16020	7338	14418	6574	12816	5809	11214	5045	9612	4281	8010	3516	6408	2752	4806	1988	3204	1223	2948	1101
-2	16400	7486	14760	6706	13120	5927	11480	5147	9840	4367	8200	3587	6560	2808	4920	2028	3280	1248	3018	1123
-1	16780	7635	15102	6839	13424	6044	11746	5249	10068	4454	8390	3659	6712	2863	5034	2068	3356	1273	3088	1146
0	17160	7783	15444	6972	13728	6162	12012	5351	10296	4540	8580	3730	6864	2919	5148	2108	3432	1298	3157	1168
1	17540	7931	15786	7105	14032	6279	12278	5453	10524	4627	8770	3801	7016	2975	5262	2149	3508	1322	3227	1190
2	17920	8080	16128	7238	14336	6397	12544	5555	10752	4713	8960	3872	7168	3030	5376	2189	3584	1347	3297	1212
3	18380	8246	16542	7387	14704	6529	12866	5670	11028	4811	9190	3952	7352	3093	5514	2234	3676	1375	3382	1237
4	18846	8413	16961	7537	15077	6660	13192	5784	11307	4908	9423	4032	7538	3155	5654	2279	3769	1403	3468	1262
5	19317	8580	17385	7686	15454	6792	13522	5899	11590	5005	9658	4111	7727	3218	5795	2324	3863	1430	3554	1287
6	24355	8201	21919	7347	19484	6493	17048	5638	14613	4784	12177	4390	9742	3076	7306	2222	4871	1367	4481	1231
7	25000	8330	22500	7462	20000	6595	17500	5727	15000	4859	12500	3992	10000	3124	7500	2256	5000	1389	4600	1250
8	25645	8459	23081	7578	20516	6697	17952	5816	15387	4935	12823	4054	10258	3172	7694	2291	5129	1410	4719	1269
9	26290	8588	23661	7693	21032	6799	18403	5904	15774	5010	13145	4115	10516	3221	7887	2326	5258	1432	4837	1289
10	26935	8717	24242	7809	21548	6901	18855	5993	16161	5085	13468	4177	10774	3269	8081	2361	5387	1453	4956	1308
11	27581	8846	24823	7925	22065	7003	19306	6082	16548	5160	13790	4239	11032	3318	8274	2396	5516	1475	5075	1327
12	28226	8975	25403	8040	22581	7105	19758	6170	16935	5236	14113	4301	11290	3366	8468	2431	5645	1496	5194	1347
13	28871	9104	25984	8156	23097	7207	20210	6259	17323	5311	14435	4363	11548	3414	8661	2466	5774	1518	5312	1366
14	22966	5325	22069	4770	18373	4215	16076	3661	13780	3106	11483	2552	9186	1997	6890	1442	4593	888	4226	799
15	23342	5325	21068	4770	18674	4215	16340	3661	14005	3106	11671	2552	9337	1997	7003	1442	4668	888	4295	799
16	23717	5325	21345	4770	18973	4215	16602	3661	14230	3106	11858	2552	9487	1997	7115	1442	4743	888	4364	799
17	24090	5325	21681	4770	19272	4215	16863	3661	14454	3106	12045	2552	9636	1997	7227	1442	4818	888	4432	799
18	24460	5325	22014	4770	19568	4215	17122	3661	14676	3106	12230	2552	9784	1997	7338	1442	4892	888	4501	799
19	24830	5325	22347	4770	19864	4215	17381	3661	14898	3106	12415	2552	9932	1997	7449	1442	4966	888	4569	799
20	25197	5325	22678	4770	20158	4215	17638	3661	15118	3106	12599	2552	10079	1997	7559	1442	5039	888	4636	799
21	25563	5325	23007	4770	20451	4215	17894	3661	15338	3106	12782	2552	10225	1997	7669	1442	5113	888	4704	799
22	25928	5325	23335	4770	20742	4215	18150	3661	15557	3106	12964	2552	10371	1997	7778	1442	5186	888	4771	799
23	26291	5325	23662	4770	21033	4215	18404	3661	15775	3106	13146	2552	10516	1997	7887	1442	5258	888	4838	799
24	26653	5325	23988	4770	21322	4215	18657	3661	15992	3106	13326	2552	10661	1997	7996	1442	5331	888	4904	799

Combination <Rated condition>

Indoor: RAV-HM1101UTP-E x 1, RAV-HM801UTP-E x 3, RAV-HM561UTP-E x 4
Outdoor: RAV-GM2243AT8(J)P-E

Operation range		Cooling		Heating	
		Q	P	Q	P
MINIMUM	W	4600	1300	4600	1250
Night operation 1	W	10000	2034	11200	2113

*When outside air temperature is 40°C or more, the night operation does not operate.

Cooling

Outdoor Temperature DB (°C)	Parts Load (%)																			
	100		90		80		70		60		50		40		30		20		10	
	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P
20	11925	1597	10733	1490	9540	1383	8348	1277	7155	1170	5963	1063	5486	1021	5486	1021	5486	1021	5486	1021
21	11797	1626	10617	1517	9437	1409	8258	1300	7078	1191	5898	1083	5426	1039	5426	1039	5426	1039	5426	1039
22	11668	1655	10502	1544	9335	1434	8168	1323	7001	1213	5834	1102	5367	1058	5367	1058	5367	1058	5367	1058
23	11540	1684	10386	1572	9232	1459	8078	1347	6924	1234	5770	1121	5308	1076	5308	1076	5308	1076	5308	1076
24	11412	1713	10271	1599	9129	1484	7988	1370	6847	1255	5706	1141	5249	1095	5249	1095	5249	1095	5249	1095
25	11283	1742	10155	1626	9027	1510	7898	1393	6770	1277	5642	1160	5190	1114	5190	1114	5190	1114	5190	1114
26	11155	1772	10040	1653	8924	1535	7809	1416	6693	1298	5578	1180	5131	1132	5131	1132	5131	1132	5131	1132
27	11027	1801	9924	1680	8821	1560	7719	1440	6616	1319	5513	1199	5072	1151	5072	1151	5072	1151	5072	1151
28	10898	1830	9809	1708	8719	1585	7629	1463	6539	1341	5449	1218	5013	1170	5013	1170	5013	1170	5013	1170
29	10770	1859	9693	1735	8616	1611	7539	1486	6462	1362	5385	1238	4954	1188	4954	1188	4954	1188	4954	1188
30	10642	1888	9578	1762	8513	1636	7449	1510	6385	1383	5321	1257	4895	1207	4895	1207	4895	1207	4895	1207
31	10513	1917	9462	1789	8411	1661	7359	1533	6308	1405	5257	1277	4836	1225	4836	1225	4836	1225	4836	1225
32	10385	1947	9347	1816	8308	1686	7270	1556	6231	1426	5193	1296	4777	1244	4777	1244	4777	1244	4777	1244
33	10257	1976	9231	1844	8205	1712	7180	1580	6154	1448	5128	1316	4718	1263	4718	1263	4718	1263	4718	1263
34	10128	2005	9116	1871	8103	1737	7090	1603	6077	1469	5064	1335	4659	1281	4659	1281	4659	1281	4659	1281
35	10000	2034	9000	1898	8000	1762	7000	1626	6000	1490	5000	1354	4600	1300	4600	1300	4600	1300	4600	1300
36	9872	2063	8885	1925	7897	1787	6910	1650	5923	1512	4936	1374	4541	1319	4541	1319	4541	1319	4541	1319
37	9743	2092	8769	1952	7795	1813	6820	1673	5846	1533	4872	1393	4482	1337	4482	1337	4482	1337	4482	1337
38	9615	2121	8654	1980	7692	1838	6731	1696	5769	1554	4808	1413	4423	1356	4423	1356	4423	1356	4423	1356
39	9216	1997	8294	1863	7373	1730	6451	1597	5529	1463	4608	1330	4239	1276	4239	1276	4239	1276	4239	1276
40*	18072	7687	16265	6855	14458	6022	12650	5189	10843	4357	9036	3524	7229	2692	5422	1859	4157	1276	4157	1276
41*	17713	7687	15941	6855	14170	6022	12399	5189	10628	4357	8856	3524	7085	2692	5314	1859	4074	1276	4074	1276
42*	17353	7687	15618	6855	13883	6022	12147	5189	10412	4357	8677	3524	6941	2692	5206	1859	3991	1276	3991	1276
43*	16994	7687	15294	6855	13595	6022	11896	5189	10196	4357	8497	3524	6797	2692	5098	1859	3909	1276	3909	1276
44*	15070	5979	13563	5331	12056	4684	10549	4036	9042	3389	7535	2741	6028	2094	4521	1446	3466	993	3466	993
45*	14711	5979	13240	5331	11768	4684	10297	4036	8826	3389	7355	2741	5884	2094	4413	1446	3383	993	3383	993
46*	14351	5979	12916	5331	11481	4684	10046	4036	8611	3389	7176	2741	5740	2094	4305	1446	3301	993	3301	993

Heating

Outdoor Temperature DB (°C)	Parts Load (%)																			
	100		90		80		70		60		50		40		30		20		10	
	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P
-27	3034	850	2731	791	2428	732	2124	673	1821	614	1517	555	1246	503	1246	503	1246	503	1246	503
-26	3222	886	2900	824	2578	763	2255	701	1933	640	1611	579	1323	524	1323	524	1323	524	1323	524
-25	3410	921	3069	858	2728	794	2387	730	2046	666	1705	602	1400	545	1400	545	1400	545	1400	545
-24	3597	957	3238	891	2878	825	2518	758	2158	692	1799	625	1477	566	1477	566	1477	566	1477	566
-23	3785	993	3406	924	3028	855	2649	787	2271	718	1892	649	1555	587	1555	587	1555	587	1555	587
-22	3973	1029	3575	957	3178	886	2781	815	2384	744	1986	672	1632	609	1632	609	1632	609	1632	609
-21	4160	1065	3744	991	3328	917	2912	843	2496	769	2080	696	1709	630	1709	630	1709	630	1709	630
-20	4348	1100	3913	1024	3478	948	3043	872	2609	795	2174	719	1786	651	1786	651	1786	651	1786	651
-19	4547	1131	4092	1053	3638	974	3183	896	2728	818	2274	739	1868	669	1868	669	1868	669	1868	669
-18	4746	1162	4272	1082	3797	1001	3322	920	2848	840	2373	759	1949	687	1949	687	1949	687	1949	687
-17	4946	1193	4451	1110	3957	1028	3462	945	2967	862	2473	780	2031	706	2031	706	2031	706	2031	706
-16	5145	1224	4630	1139	4116	1054	3601	969	3087	885	2572	800	2113	724	2113	724	2113	724	2113	724
-15	5344	1255	4810	1168	4275	1081	3741	994	3207	907	2672	820	2195	742	2195	742	2195	742	2195	742
-14	5497	1293	4947	1203	4398	1114	3848	1024	3298	935	2749	845	2258	765	2258	765	2258	765	2258	765
-13	5650	1331	5085	1239	4520	1147	3955	1055	3390	962	2825	870	2320	788	2320	788	2320	788	2320	788
-12	5803	1370	5222	1275	4642	1180	4062	1085	3482	990	2901	895	2383	810	2383	810	2383	810	2383	810
-11	5956	1408	5360	1310	4764	1213	4169	1115	3573	1018	2978	920	2446	833	2446	833	2446	833	2446	833
-10	6108	1446	5498	1346	4887	1246	4276	1145	3665	1045	3054	945	2509	855	2509	855	2509	855	2509	855
-9	6261	1484	5635	1381	5009	1279	4383	1176	3757	1073	3131	970	2572	878	2572	878	2572	878	2572	878
-8	6414	1523	5773	1417	5131	1312	4490	1206	3849	1100	3207	995	2634	901	2634	901	2634	901	2634	901
-7	6567	1561	5910	1453	5254	1344	4597	1236	3940	1128	3284	1020	2697	923	2697	923	2697	923	2697	923
-6	6739	1595	6065	1485	5391	1374	4717	1263	4043	1153	3370	1042	2768	944	2768	944	2768	944	2768	944
-5	6911	1630	6220	1517	5529	1404	4838	1291	4147	1178	3456	1065	2839	964	2839	964	2839	964	2839	964
-4	7083	1664	6375	1549	5667	1433	4958	1318	4250	1203	3542	1087	2909	984	2909	984	2909	984	2909	984
-3	7255	1698	6530	1581	5804	1463	5079	1345	4353	1227	3628	1110	2980	1005	2980	1005	2980	1005	2980	1005
-2	7428	1733	6685	1612	5942	1492	5199	1372	4457	1252	3714	1132	3051	1025	3051	1025	3051	1025	3051	1025
-1	7600	1767	6840	1644	6080	1522	5320	1400	4560	1277	3800	1155	3121	1045	3121	1045	3121	1045	3121	1045
0	7772	1801	6995	1676	6217	1552	5440	1427	4663	1302	3886	1177	3192	1066	3192	1066	3192	1066	3192	1066
1	7944	1836	7149	1708	6355	1581	5561	1454	4766	1327	3972	1199	3263	1086	3263	1086	3263	1086	3263	1086
2	8116	1870	7304	1740	6493	1611	5681	1481	4870	1352	4058	1222	3333	1106	3333	1106	3333	1106	3333	1106
3	8249	1895	7424	1764	6599	1632	5774	1501	4949	1370	4124	1238	3388	1121	3388	1121	3388	1121	3388	1121
4	8382	1920	7544	1787	6705	1654	5867	1521	5029	1388	4191	1255	3443	1136	3443	1136	3443	1136	3443	1136
5	8515	1945	7663	1811	6812	1676	5960	1541	5109	1406	4257	1271	3497	1151	3497	1151	3497	1151	3497	1151
6	10911	2080	9820	1936	8729	1792	7638	1648	6547	1504	5455	1359	4481	1231	4481	1231	4481	1231	4481	1231
7	11200	2113	10080	1967	8960	1820	7840	1674	6720	1527	5600	1381	4600	1250	4600	1250	4600	1250	4600	1250
8	11489	2146	10340	1997	9191	1848	8042	1700	6893	1551	5745	1402	4719	1269	4719	1269	4719	1269	4719	1269
9	11778	2178	10600	2027	9422	1876	8245	1725	7067	1575	5889	1424	4837	1289	4837	1289	4837	1289	4837	1289
10	12067	2211	10860	2058	9654	1905	8447	1751	7240	1598	6034	1445	4956	1308	4956	1308	4956	1308	4956	1308
11	12356	2244	11121	2088	9885	1933	8649	1777	7414	1622	6178	1466	5075	1327	5075	1327	5075	1327	5075	1327
12	12645	2277	11381	2119	10116	1961	8852	1803	7587	1645	6323	1488	5194	1347	5194	1347	5194	1347	5194	1347
13	12934	2309	11641	2149	10347	1989	9054	1829	7761	1669	6467	1509	5312	1366	5312	1366	5312	1366	5312	1366
14	13223	2342	11901	2180	10579	2017	9256	1855	7934	1693	6612	1530	5431	1385	5431	1385	5431	1385	5431	1385
15	13512	2375	12161	2210	10810	2046	9459	1881	8107	1716	6756	1552	5550	1405	5550	1405	5550	1405	5550	1405
16	13801	2407	1242	2241	11041	2074	9661	1907	8281	1740	6901	1573	5668	1424	5668	1424	5668	1424	5668	1424
17	14090	2440	12681	2271	11272	2102	9863	1933	8454	1764	7045	1595	5787	1444	5787	1444	5787	1444	5787	1444
18	14379	2473	12941	2301	11503	2130	10066	1959	8628	1787	7190	1616	5906	1463	5906	1463	5906	1463	5906	1463
19	14668	2506	13202	2332	11735	2158	10268	1985	8801	1811	7334	1637	6025	1482	6025	1482	6025	1482	6025	1482
20	14957	2538	13462	2362	11966	2186	10470	2011	8974	1835	7479	1659	6143	1502	6143	1502	6143	1502	6143	1502
21	15246	2571	13722	2393	12197	2215	10673	2036	9148	1858	7623	1680	6262	1521	6262	1521	6262	1521	6262	1521
22	15535	2604	13982	2423	12428	2243	10875	2062	9321	1882	7768	1701	6381	1540	6381	1540	6381	1540	6381	1540
23	15825	2636	14242	2454	12660	2271	11077	2088	9495	1906	7912	1723	6499	1560	6499	1560	6499	1560	6499	1560
24	16114	2669	14502	2484	12891	2299	11279	2114	9668	1929	8057	1744	6618	1579	6618	1579	6618	1579	6618	1579

Combination <Rated condition>

Indoor: RAV-HM1101UTP-E x 1, RAV-HM801UTP-E x 3, RAV-HM561UTP-E x 4
Outdoor: RAV-GM2243AT8(J)P-E

Operation range	Cooling		Heating	
	Q	P	Q	P
MINIMUM	W 4600	1300	4600	1250
Night operation 2	W 14000	3046	15680	3470

*When outside air temperature is 40°C or more, the night operation does not operate.

Cooling

Outdoor Temperature DB (°C)	Parts Load (%)															
	100		90		80		70		60		50		40		30	
	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P
20	16695	2391	15026	2187	13356	1983	11687	1779	10017	1575	8348	1370	6678	1166	5486	1021
21	16515	2435	14864	2227	13212	2019	11561	1811	9909	1603	8258	1395	6606	1188	5426	1039
22	16336	2478	14702	2267	13069	2055	11435	1844	9801	1632	8168	1420	6534	1209	5367	1058
23	16156	2522	14540	2307	12925	2091	11309	1876	9694	1661	8078	1446	6462	1230	5308	1076
24	15976	2566	14379	2347	12781	2128	11183	1909	9586	1690	7988	1471	6391	1251	5249	1095
25	15797	2609	14217	2387	12637	2164	11058	1941	9478	1718	7898	1496	6319	1273	5190	1114
26	15617	2653	14055	2427	12494	2200	10932	1974	9370	1747	7809	1521	6247	1294	5131	1132
27	15437	2697	13894	2467	12350	2236	10806	2006	9262	1776	7719	1546	6175	1315	5072	1151
28	15258	2740	13732	2506	12206	2272	10680	2039	9155	1805	7629	1571	6103	1337	5013	1170
29	15078	2784	13570	2546	12062	2309	10555	2071	9047	1833	7539	1596	6031	1358	4954	1188
30	14898	2828	13409	2586	11919	2345	10429	2103	8939	1862	7449	1621	5959	1379	4895	1207
31	14719	2871	13247	2626	11775	2381	10303	2136	8831	1891	7359	1646	5887	1401	4836	1225
32	14539	2915	13085	2666	11631	2417	10177	2168	8723	1920	7270	1671	5816	1422	4777	1244
33	14359	2959	12923	2706	11487	2454	10052	2201	8616	1948	7180	1696	5744	1443	4718	1263
34	14180	3002	12762	2746	11344	2490	9926	2233	8508	1977	7090	1721	5672	1464	4659	1281
35	14000	3046	12600	2786	11200	2526	9800	2266	8400	2006	7000	1746	5600	1486	4600	1300
36	13820	3090	12438	2826	11056	2562	9674	2298	8292	2035	6910	1771	5528	1507	4541	1319
37	13641	3133	12277	2866	10913	2598	9548	2331	8184	2063	6820	1796	5456	1528	4482	1337
38	13461	3177	12115	2906	10769	2635	9423	2363	8077	2092	6731	1821	5384	1550	4423	1356
39	12902	2990	11612	2735	10322	2480	9031	2225	7741	1969	6451	1714	5161	1459	4239	1276
40*	18072	7687	16265	6855	14458	6022	12650	5189	10843	4357	9036	3524	7229	2692	5422	1859
41*	17713	7687	15941	6855	14170	6022	12399	5189	10628	4357	8856	3524	7085	2692	5314	1859
42*	17353	7687	15618	6855	13883	6022	12147	5189	10412	4357	8677	3524	6941	2692	5206	1859
43*	16994	7687	15294	6855	13595	6022	11896	5189	10196	4357	8497	3524	6797	2692	5098	1859
44*	15070	5979	13563	5331	12056	4684	10549	4036	9042	3389	7535	2741	6028	2094	4521	1446
45*	14711	5979	13240	5331	11768	4684	10297	4036	8826	3389	7355	2741	5884	2094	4413	1446
46*	14351	5979	12916	5331	11481	4684	10046	4036	8611	3389	7176	2741	5740	2094	4305	1446

Heating

Outdoor Temperature DB (°C)	Parts Load (%)																			
	100		90		80		70		60		50		40		30		20		10	
	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P
-27	4248	1396	3823	1269	3399	1143	2974	1017	2549	890	2124	764	1699	637	1274	511	1246	503	1246	503
-26	4511	1454	4060	1323	3609	1191	3158	1059	2707	928	2255	796	1804	664	1353	533	1323	524	1323	524
-25	4774	1513	4296	1376	3819	1239	3341	1102	2864	965	2387	828	1909	691	1432	554	1400	545	1400	545
-24	5036	1572	4533	1430	4029	1287	3525	1145	3022	1003	2518	860	2014	718	1511	576	1477	566	1477	566
-23	5299	1631	4769	1483	4239	1335	3709	1188	3179	1040	2649	892	2120	745	1590	597	1555	587	1555	587
-22	5562	1689	5005	1536	4449	1384	3893	1231	3337	1078	2781	925	2225	772	1668	619	1632	609	1632	609
-21	5824	1748	5242	1590	4659	1432	4077	1273	3495	1115	2912	957	2330	799	1747	640	1709	630	1709	630
-20	6087	1807	5478	1643	4850	1480	4261	1316	3652	1153	3043	989	2435	825	1826	662	1786	651	1786	651
-19	6366	1858	5729	1690	5093	1521	4456	1353	3820	1185	3183	1017	2546	849	1910	680	1868	669	1868	669
-18	6645	1908	5980	1736	5316	1563	4651	1390	3987	1217	3322	1045	2658	872	1993	699	1949	687	1949	687
-17	6924	1959	6232	1782	5539	1604	4847	1427	4154	1250	3462	1072	2770	895	2077	718	2031	706	2031	706
-16	7203	2010	6483	1828	5762	1646	5042	1464	4322	1282	3601	1100	2881	918	2161	736	2113	724	2113	724
-15	7482	2061	6734	1874	5986	1688	5237	1501	4489	1314	3741	1128	2993	941	2245	755	2195	742	2195	742
-14	7696	2124	6926	1931	6157	1739	5387	1547	4618	1355	3848	1162	3078	970	2309	778	2258	765	2258	765
-13	7910	2186	7119	1988	6328	1790	5537	1593	4746	1395	3955	1197	3164	999	2373	801	2320	788	2320	788
-12	8124	2249	7311	2046	6499	1842	5687	1638	4874	1435	4062	1231	3250	1027	2437	824	2383	810	2383	810
-11	8338	2312	7504	2103	6670	1893	5837	1684	5003	1475	4169	1265	3335	1056	2501	847	2446	833	2446	833
-10	8552	2375	7697	2160	6841	1945	5986	1730	5131	1515	4276	1300	3421	1085	2566	870	2509	855	2509	855
-9	8766	2438	7889	2217	7013	1996	6136	1776	5260	1555	4383	1334	3506	1113	2630	893	2572	878	2572	878
-8	8980	2500	8082	2274	7184	2048	6286	1821	5388	1595	4490	1369	3592	1142	2694	916	2634	901	2634	901
-7	9194	2563	8274	2331	7355	2099	6436	1867	5516	1635	4597	1403	3678	1171	2758	939	2697	923	2697	923
-6	9435	2620	8491	2382	7548	2145	6604	1908	5661	1671	4717	1434	3774	1197	2830	959	2768	944	2768	944
-5	9676	2676	8708	2434	7741	2191	6773	1949	5805	1707	4838	1465	3870	1222	2903	980	2839	964	2839	964
-4	9917	2732	8925	2485	7933	2238	6942	1990	5950	1743	4958	1495	3967	1248	2975	1001	2909	984	2909	984
-3	10158	2789	9142	2536	8126	2284	7110	2031	6095	1779	5079	1526	4063	1274	3047	1021	2980	1005	2980	1005
-2	10399	2845	9359	2588	8319	2330	7279	2072	6239	1815	5199	1557	4159	1300	3120	1042	3051	1025	3051	1025
-1	10639	2902	9576	2639	8512	2376	7448	2113	6384	1851	5320	1588	4256	1325	3192	1063	3121	1045	3121	1045
0	10880	2958	9792	2690	8704	2422	7616	2155	6528	1887	5440	1619	4352	1351	3264	1083	3192	1066	3192	1066
1	11121	3014	10009	2741	8897	2469	7785	2196	6673	1923	5561	1650	4449	1377	3336	1104	3263	1086	3263	1086
2	11362	3071	10226	2793	9090	2515	7954	2237	6817	1959	5681	1681	4545	1403	3409	1125	3333	1106	3333	1106
3	11548	3112	10394	2830	9239	2549	8084	2267	6929	1985	5774	1703	4619	1422	3465	1140	3388	1121	3388	1121
4	11735	3153	10561	2868	9388	2582	8214	2297	7041	2011	5867	1726	4694	1440	3520	1155	3443	1136	3443	1136
5	11921	3195	10729	2905	9537	2616	8344	2327	7152	2038	5960	1748	4768	1459	3576	1170	3497	1151	3497	1151
6	15275	3416	13748	3107	12220	2798	10693	2488	9165	2179	7638	1870	6110	1560	4583	1251	4481	1231	4481	1231
7	15680	3470	14112	3156	12544	2842	10976	2528	9408	2213	7840	1899	6272	1585	4704	1271	4600	1250	4600	1250
8	16085	3524	14476	3205	12868	2886	11259	2567	9651	2248	8042	1929	6434	1610	4825	1291	4719	1269	4719	1269
9	16489	3577	14840	3254	13191	2930	11543	2606	9894	2282	8245	1958	6596	1634	4947	1310	4837	1289	4837	1289
10	16894	3631	15205	3302	13515	2974	11826	2645	10136	2316	8447	1987	6758	1659	5068	1330	4956	1308	4956	1308
11	17299	3685	15569	3351	13839	3018	12109	2684	10379	2350	8649	2017	6919	1683	5190	1350	5075	1327	5075	1327
12	17703	3739	15933	3400	14163	3062	12392	2723	10622	2385	8852	2046	7081	1708	5311	1369	5194	1347	5194	1347
13	18108	3792	16297	3449	14486	3106	12676	2762	10865	2419	9054	2076	7243	1732	5432	1389	5312	1366	5312	1366
14	18513	3846	16661	3498	14810	3150	12959	2801	11108	2453	9256	2105	7405	1757	5554	1409	5431	1385	5431	1385
15	18917	3900	17025	3547	15134	3194	13242	2841	11350	2488	9459	2134	7567	1781	5675	1428	5550	1405	5550	1405
16	19322	3954	17390	3596	15457	3238	13525	2880	11593	2522	9661	2164	7729	1806	5797	1448	5668	1424	5668	1424
17	19726	4007	17754	3644	15781	3282	13809	2919	11836	2556	9863	2193	7891	1830	5918	1468	5787	1444	5787	1444
18	20131	4061	18118	3693	16105	3326	14092	2958	12079	2590	10066	2223	8052	1855	6039	1487	5906	1463	5906	1463
19	20536	4115	18482	3742	16429	3370	14375	2997	12321	2625	10268	2252	8214	1880	6161	1507	6025	1482	6025	1482
20	20940	4168	18846	3791	16752	3414	14658	3036	12564	2659	10470	2281	8376	1904	6282	1527	6143	1502	6143	1502
21	21345	4222	19211	3840	17076	3458	14942	3075	12807	2693	10673	2311	8538	1929	6404	1546	6262	1521	6262	1521
22	21750	4276	19575	3889	17400	3502	15225	3115	13050	2727	10875	2340	8700	1953	6525	1566	6381	1540	6381	1540
23	22154	4330	19939	3938	17723	3546	15508	3154	13293	2762	11077	2370	8862	1978	6646	1586	6499	1560	6499	1560
24	22559	4383	20303	3987	18047	3590	15791	3193	13535	2796	11279	2399	9024	2002	6768	1605	6618	1579	6618	1579

Combination <Rated condition>

Indoor: RAV-HM1101UTP-E x 1, RAV-HM801UTP-E x 3, RAV-HM561UTP-E x 4
Outdoor: RAV-GM2243AT8(J)P-E

Operation range	Cooling		Heating	
	Q	P	Q	P
MINIMUM	W 4600	1300	4600	1250
Night operation 3	W 18000	4824	20160	5107

*When outside air temperature is 40°C or more, the night operation does not operate.

Cooling

Outdoor Temperature DB (°C)	Parts Load (%)																	
	100		90		80		70		60		50		40		30		20	
	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P
20	21465	3787	19319	3415	17172	3044	15026	2672	12879	2300	10733	1929	8586	1557	6440	1186	5486	1021
21	21234	3856	19111	3478	16987	3099	14864	2721	12740	2342	10617	1964	8494	1586	6370	1207	5426	1039
22	21003	3925	18903	3540	16802	3155	14702	2770	12602	2384	10502	1999	8401	1614	6301	1229	5367	1058
23	20772	3994	18695	3602	16618	3210	14540	2818	12463	2426	10386	2035	8309	1643	6232	1251	5308	1076
24	20541	4063	18487	3665	16433	3266	14379	2867	12325	2468	10271	2070	8216	1671	6162	1272	5249	1095
25	20310	4133	18279	3727	16248	3322	14217	2916	12186	2510	10155	2105	8124	1699	6093	1294	5190	1114
26	20079	4202	18071	3789	16063	3377	14055	2965	12047	2552	10040	2140	8032	1728	6024	1316	5131	1132
27	19848	4271	17863	3852	15878	3433	13894	3014	11909	2594	9924	2175	7939	1756	5954	1337	5072	1151
28	19617	4340	17655	3914	15694	3488	13732	3062	11770	2636	9809	2211	7847	1785	5885	1359	5013	1170
29	19386	4409	17447	3976	15509	3544	13570	3111	11632	2678	9693	2246	7754	1813	5816	1380	4954	1188
30	19155	4478	17240	4039	15324	3599	13409	3160	11493	2720	9578	2281	7662	1842	5747	1402	4895	1207
31	18924	4547	17032	4101	15139	3655	13247	3209	11354	2762	9462	2316	7570	1870	5677	1424	4836	1225
32	18693	4617	16824	4164	14954	3711	13085	3258	11216	2804	9347	2351	7477	1898	5608	1445	4777	1244
33	18462	4686	16616	4226	14770	3766	12923	3306	11077	2846	9231	2387	7385	1927	5539	1467	4718	1263
34	18231	4755	16408	4288	14585	3822	12762	3355	10939	2889	9116	2422	7292	1955	5469	1489	4659	1281
35	18000	4824	16200	4351	14400	3877	12600	3404	10800	2931	9000	2457	7200	1984	5400	1510	4600	1300
36	17769	4893	15992	4413	14215	3933	12438	3453	10661	2973	8885	2492	7108	2012	5331	1532	4541	1319
37	17538	4962	15784	4475	14030	3988	12277	3501	10523	3015	8769	2528	7015	2041	5261	1554	4482	1337
38	17307	5031	15576	4538	13846	4044	12115	3550	10384	3057	8654	2563	6923	2069	5192	1575	4423	1356
39	16588	4736	14929	4271	13271	3807	11612	3342	9953	2877	8294	2412	6635	1948	4976	1483	4239	1276
40*	18072	7687	16265	6855	14458	6022	12650	5189	10843	4357	9036	3524	7229	2692	5422	1859	4157	1276
41*	17713	7687	15941	6855	14170	6022	12399	5189	10628	4357	8856	3524	7085	2692	5314	1859	4074	1276
42*	17353	7687	15618	6855	13883	6022	12147	5189	10412	4357	8677	3524	6941	2692	5206	1859	3991	1276
43*	16994	7687	15294	6855	13595	6022	11896	5189	10196	4357	8497	3524	6797	2692	5098	1859	3909	1276
44*	15070	5979	13563	5331	12056	4684	10549	4036	9042	3389	7535	2741	6028	2094	4521	1446	3466	993
45*	14711	5979	13240	5331	11768	4684	10297	4036	8826	3389	7355	2741	5884	2094	4413	1446	3383	993
46*	14351	5979	12916	5331	11481	4684	10046	4036	8611	3389	7176	2741	5740	2094	4305	1446	3301	993

Heating

Outdoor Temperature DB (°C)	Parts Load (%)																			
	100		90		80		70		60		50		40		30		20		10	
	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P		
-27	5462	2054	4916	1853	4370	1652	3823	1451	3277	1250	2731	1049	2185	848	1639	647	1246	503	1246	503
-26	5800	2141	5220	1931	4640	1722	4060	1512	3480	1303	2900	1093	2320	884	1740	674	1323	524	1323	524
-25	6137	2227	5524	2009	4910	1791	4296	1573	3682	1355	3069	1137	2455	920	1841	702	1400	545	1400	545
-24	6475	2313	5828	2087	5180	1861	4533	1634	3885	1408	3238	1182	2590	955	1943	729	1477	566	1477	566
-23	6813	2400	6132	2165	5450	1930	4769	1695	4088	1461	3406	1226	2725	991	2044	756	1555	587	1555	587
-22	7151	2486	6436	2243	5720	2000	5005	1757	4290	1513	3575	1270	2860	1027	2145	783	1632	609	1632	609
-21	7488	2573	6740	2321	5991	2069	5242	1818	4493	1566	3744	1314	2995	1062	2247	811	1709	630	1709	630
-20	7826	2659	7043	2399	6261	2139	5478	1879	4696	1618	3913	1358	3130	1098	2348	838	1786	651	1786	651
-19	8185	2734	7366	2467	6548	2199	5729	1931	4911	1664	4092	1396	3274	1129	2455	861	1868	669	1868	669
-18	8543	2809	7689	2534	6835	2259	5980	1984	5126	1709	4272	1435	3417	1160	2563	885	1949	687	1949	687
-17	8902	2883	8012	2601	7122	2319	6232	2037	5341	1755	4451	1473	3561	1191	2671	908	2031	706	2031	706
-16	9261	2958	8335	2669	7409	2379	6483	2090	5557	1800	4630	1511	3704	1221	2778	932	2113	724	2113	724
-15	9620	3033	8658	2736	7696	2439	6734	2143	5772	1846	4810	1549	3848	1252	2886	955	2195	742	2195	742
-14	9895	3125	8905	2820	7916	2514	6926	2208	5937	1902	4947	1596	3958	1290	2968	985	2258	765	2258	765
-13	10170	3218	9153	2903	8136	2588	7119	2273	6102	1958	5085	1643	4068	1329	3051	1014	2320	788	2320	788
-12	10445	3310	9400	2986	8356	2662	7311	2339	6267	2015	5222	1691	4178	1367	3133	1043	2383	810	2383	810
-11	10720	3403	9648	3070	8576	2737	7504	2404	6432	2071	5360	1738	4288	1405	3216	1072	2446	833	2446	833
-10	10995	3495	9896	3153	8796	2811	7697	2469	6597	2127	5498	1785	4398	1443	3299	1101	2509	855	2509	855
-9	11270	3588	10143	3237	9016	2885	7889	2534	6762	2183	5635	1832	4508	1481	3381	1130	2572	878	2572	878
-8	11546	3680	10391	3320	9236	2960	8082	2600	6927	2240	5773	1880	4618	1519	3464	1159	2634	901	2634	901
-7	11821	3772	10639	3403	9457	3034	8274	2665	7092	2296	5910	1927	4728	1558	3546	1188	2697	923	2697	923
-6	12130	3855	10917	3478	9704	3101	8491	2724	7278	2346	6065	1969	4852	1592	3639	1215	2768	944	2768	944
-5	12440	3938	11196	3553	9952	3168	8708	2782	7464	2397	6220	2012	4976	1626	3732	1241	2839	964	2839	964
-4	12750	4021	11475	3628	10200	3234	8925	2841	7650	2447	6375	2054	5100	1660	3825	1267	2909	984	2909	984
-3	13060	4104	11754	3703	10448	3301	9142	2900	7836	2498	6530	2096	5224	1695	3918	1293	2980	1005	2980	1005
-2	13370	4187	12033	3778	10696	3368	9359	2958	8022	2548	6685	2139	5348	1729	4011	1319	3051	1025	3051	1025
-1	13679	4270	12311	3853	10943	3435	9576	3017	8208	2599	6840	2181	5472	1763	4104	1345	3121	1045	3121	1045
0	13989	4353	12590	3927	11191	3501	9792	3075	8383	2650	6995	2224	5596	1798	4197	1372	3192	1066	3192	1066
1	14299	4436	12869	4002	11439	3568	10009	3134	8579	2700	7149	2266	5720	1832	4290	1398	3263	1086	3263	1086
2	14609	4519	13148	4077	11687	3635	10226	3193	8765	2751	7304	2308	5843	1866	4383	1424	3333	1106	3333	1106
3	14848	4580	13363	4132	11878	3684	10394	3236	8909	2788	7424	2339	5939	1891	4454	1443	3388	1121	3388	1121
4	15087	4641	13579	4187	12070	3733	10561	3279	9052	2825	7544	2370	6035	1916	4526	1462	3443	1136	3443	1136
5	15327	4702	13794	4242	12261	3782	10729	3322	9196	2861	7663	2401	6131	1941	4598	1481	3497	1151	3497	1151
6	15640	5028	17676	4536	15712	4044	13748	3552	11784	3060	9820	2568	7856	2076	5892	1584	4481	1231	4481	1231
7	20160	5107	18144	4607	16128	4108	14112	3608	12096	3108	10080	2608	8064	2109	6048	1609	4600	1250	4600	1250
8	20680	5186	18612	4679	16544	4171	14476	3664	12408	3156	10340	2649	8272	2141	6204	1634	4719	1269	4719	1269
9	21201	5265	19080	4745	16960	4235	14840	3720	12720	3204	10600	2689	8480	2174	6360	1659	4837	1289	4837	1289
10	21721	5344	19549	4821	17377	4298	15205	3775	13032	3252	10860	2730	8688	2207	6516	1684	4956	1308	4956	1308
11	22241	5423	20017	4893	17793	4362	15569	3831	13345	3301	11121	2770	8896	2239	6672	1709	5075	1327	5075	1327
12	22761	5502	20485	4964	18209	4426	15933	3887	13657	3349	11381	2810	9105	2272	6828	1733	5194	1347	5194	1347
13	23282	5581	20953	5035	18625	4489	16297	3943	13969	3397	11641	2851	9313	2305	6984	1758	5312	1366	5312	1366
14	23802	5661	21422	5107	19041	4553	16661	3999	14281	3445	11901	2891	9521	2337	7141	1783	5431	1385	5431	1385
15	24322	5740	21890	5178	19458	4616	17025	4055	14593	3493	12161	2931	9729	2370	7297	1808	5550	1405	5550	1405
16	24842	5819	22358	5249	19874	4680	17390	4111	14905	3541	12421	2972	9937	2403	7453	1833	5668	1424	5668	1424
17	25363	5898	22826	5321	20290	4744	17754	4166	15218	3589	12681	3012	10145	2435	7609	1858	5787	1444	5787	1444
18	25883	5977	23295	5392	20706	4807	18118	4222	15530	3637	12941	3053	10353	2468	7765	1883	5906	1463	5906	1463
19	26403	6056	23763	5463	21122	4871	18482	4278	15842	3686	13202	3093	10561	2500	7921	1908	6025	1482	6025	1482
20	26923	6135	24231	5535	21539	4934	18846	4334	16154	3734	13462	3133	10769	2533	8077	1933	6143	1502	6143	1502
21	27444	6214	24699	5606	21955	4998	19211	4390	16466	3782	13722	3174	10977	2566	8233	1958	6262	1521	6262	1521
22	27964	6293	25167	5677	22371	5062	19575	4446	16778	3830	13982	3214	11186	2598	8389	1983	6381	1540	6381	1540
23	28484	6372	25636	5749	22787	5125	19939	4502	17090	3878	14242	3255	11394	2631	8545	2008	6499	1560	6499	1560
24	29004	6451	26104	5820	23204	5189	20303	4557	17403	3926	14502	3295	11602	2664	8701	2032	6618	1579	6618	1579

Combination <Rated condition>

Indoor: RAV-HM1401UTP-E x 1, RAV-HM801UTP-E x 3, RAV-HM801UTP-E x 4
Outdoor: RAV-GM2803AT8(J)P-E

Operation range	Cooling		Heating	
	Q	P	Q	P
MINIMUM	W 4600	1330	4600	1280
RATING	W 23500	9320	24000	7200

Cooling

Outdoor Temperature DB (°C)	Parts Load (%)																			
	100		90		80		70		60		50		40		30		20		10	
	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P
20	28024	7316	25221	6536	22419	5756	19617	4977	16814	4197	14012	3417	11210	2637	8407	1857	5605	1077	5486	1044
21	27722	7450	24950	6656	22178	5862	19406	5067	16633	4273	13861	3479	11089	2685	8317	1891	5544	1097	5426	1063
22	27421	7583	24679	6775	21936	5967	19194	5158	16452	4350	13710	3542	10968	2733	8226	1925	5484	1117	5367	1082
23	27119	7717	24407	6894	21695	6072	18983	5249	16271	4427	13560	3604	10848	2781	8136	1959	5424	1136	5308	1101
24	26817	7851	24136	7014	21454	6177	18772	5340	16090	4503	13409	3666	10727	2830	8045	1993	5363	1156	5249	1120
25	26516	7984	23864	7133	21213	6282	18561	5431	15910	4580	13258	3729	10606	2878	7955	2027	5303	1176	5190	1139
26	26214	8118	23593	7252	20971	6387	18350	5522	15729	4656	13107	3791	10486	2926	7864	2061	5243	1195	5131	1158
27	25913	8251	23321	7372	20730	6492	18139	5613	15548	4733	12956	3854	10365	2974	7774	2094	5183	1215	5072	1177
28	25611	8385	23050	7491	20489	6597	17928	5704	15367	4810	12806	3916	10244	3022	7683	2128	5122	1235	5013	1197
29	25310	8518	22779	7610	20248	6702	17717	5794	15186	4886	12655	3978	10124	3070	7593	2162	5062	1254	4954	1216
30	25008	8652	22507	7730	20006	6808	17506	5885	15005	4963	12504	4041	10003	3118	7502	2196	5002	1274	4895	1235
31	24706	8786	22236	7849	19765	6913	17294	5976	14824	5040	12353	4103	9883	3167	7412	2230	4941	1294	4836	1254
32	24405	8919	21964	7968	19524	7018	17083	6067	14643	5116	12202	4166	9762	3215	7321	2264	4881	1313	4777	1273
33	24103	9053	21693	8088	19283	7123	16872	6158	14462	5193	12052	4228	9641	3263	7231	2298	4821	1333	4718	1292
34	23802	9186	21421	8207	19041	7228	16661	6249	14281	5270	11901	4290	9521	3311	7140	2332	4760	1353	4659	1311
35	23500	9320	21150	8327	18800	7333	16450	6340	14100	5346	11750	4353	9400	3359	7050	2366	4700	1372	4600	1330
36	23198	9454	20879	8446	18559	7438	16239	6430	13919	5423	11599	4415	9279	3407	6960	2400	4640	1392	4541	1349
37	22897	9587	20607	8565	18317	7543	16028	6521	13738	5499	11448	4477	9159	3456	6869	2434	4579	1412	4482	1368
38	22595	9721	20336	8685	18076	7648	15817	6612	13557	5576	11298	4540	9038	3504	6779	2467	4519	1431	4423	1387
39	19405	6678	17464	5966	15524	5254	13583	4542	11643	3831	9702	3119	7762	2407	5821	1695	3881	983	3798	953
40	18982	6678	17084	5966	15186	5254	13287	4542	11389	3831	9491	3119	7593	2407	5695	1695	3796	983	3716	953
41	18559	6678	16703	5966	14847	5254	12991	4542	11135	3831	9279	3119	7424	2407	5568	1695	3712	983	3633	953
42	18136	6678	16322	5966	14509	5254	12695	4542	10881	3831	9068	3119	7254	2407	5441	1695	3627	983	3550	953
43	17713	6678	15941	5966	14170	5254	12399	4542	10628	3831	8856	3119	7085	2407	5314	1695	3543	983	3467	953
44	15940	5194	14346	4640	12752	4087	11158	3533	9564	2979	7970	2426	6376	1872	4782	1318	3188	765	3120	741
45	15517	5194	13965	4640	12414	4087	10862	3533	9310	2979	7759	2426	6207	1872	4655	1318	3103	765	3037	741
46	15094	5194	13585	4640	12075	4087	10566	3533	9056	2979	7547	2426	6038	1872	4528	1318	3019	765	2955	741

Heating

Outdoor Temperature DB (°C)	Parts Load (%)																			
	100		90		80		70		60		50		40		30		20		10	
	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P
-27	6522	2633	5870	2365	5217	2097	4565	1829	3913	1562	3261	1294	2609	1026	1957	758	1304	490	1250	468
-26	6988	2792	6289	2508	5590	2224	4891	1940	4193	1656	3494	1372	2795	1088	2096	804	1398	520	1339	496
-25	7453	2952	6708	2652	5963	2351	5217	2051	4472	1751	3727	1451	2981	1150	2236	850	1491	550	1429	525
-24	7919	3111	7127	2795	6335	2478	5543	2162	4752	1845	3960	1529	3168	1212	2376	896	1584	580	1518	553
-23	8385	3271	7547	2938	6708	2605	5870	2273	5031	1940	4193	1607	3354	1275	2516	942	1677	609	1607	581
-22	8851	3430	7966	3081	7081	2732	6196	2384	5311	2035	4425	1686	3540	1337	2655	988	1770	639	1696	610
-21	9317	3590	8385	3225	7453	2860	6522	2494	5590	2129	4658	1764	3727	1399	2795	1034	1863	669	1786	638
-20	9783	3749	8804	3368	7826	2987	6848	2605	5870	2224	4891	1842	3913	1461	2935	1080	1957	698	1875	667
-19	10109	3855	9098	3463	8087	3070	7076	2678	6065	2286	5054	1894	4043	1502	3033	1110	2022	718	1938	685
-18	10435	3960	9391	3557	8348	3154	7304	2752	6261	2349	5217	1946	4174	1543	3130	1140	2087	738	2000	704
-17	10761	4065	9685	3652	8609	3238	7533	2825	6457	2411	5380	1998	4304	1584	3228	1171	2152	757	2063	723
-16	11087	4171	9978	3746	8870	3322	7761	2898	6652	2474	5543	2049	4435	1625	3326	1201	2217	777	2125	741
-15	11413	4276	10272	3841	9130	3406	7989	2971	6848	2536	5707	2101	4565	1666	3424	1231	2283	796	2188	760
-14	11753	4406	10577	3958	9402	3510	8227	3062	7052	2613	5876	2165	4701	1717	3526	1269	2351	821	2253	783
-13	12092	4537	10883	4075	9674	3614	8465	3152	7255	2691	6046	2229	4837	1768	3628	1306	2418	845	2318	806
-12	12432	4667	11189	4192	9946	3717	8702	3243	7459	2768	6216	2293	4973	1819	3730	1344	2486	869	2383	830
-11	12772	4797	11495	4309	10217	3821	8940	3333	7663	2845	6386	2357	5109	1869	3832	1381	2554	893	2448	853
-10	13111	4928	11800	4426	10489	3925	9178	3424	7867	2923	6556	2421	5245	1920	3933	1419	2622	918	2513	876
-9	13451	5058	12106	4543	10761	4029	9416	3514	8071	3000	6726	2485	5380	1971	4035	1457	2690	942	2578	899
-8	13791	5188	12412	4660	11033	4133	9654	3605	8274	3077	6895	2550	5516	2022	4137	1494	2758	966	2643	922
-7	14130	5319	12717	4778	11304	4237	9891	3696	8478	3155	7065	2614	5652	2073	4239	1532	2826	991	2708	946
-6	14493	5436	13043	4883	11594	4330	10145	3777	8696	3224	7246	2671	5797	2118	4348	1565	2899	1012	2778	966
-5	14855	5553	13370	4988	11884	4423	10399	3858	8913	3293	7428	2729	5942	2164	4457	1599	2971	1034	2847	987
-4	15217	5670	13696	5093	12174	4516	10652	3939	9130	3363	7609	2786	6087	2209	4565	1633	3043	1056	2917	1008
-3	15580	5787	14022	5198	12464	4609	10906	4021	9348	3432	7790	2844	6232	2255	4674	1666	3116	1078	2986	1029
-2	15942	5904	14348	5303	12754	4703	11159	4102	9565	3502	7971	2901	6377	2301	4783	1700	3188	1100	3056	1050
-1	16304	6021	14674	5408	13043	4796	11413	4183	9783	3571	8152	2959	6522	2346	4891	1734	3261	1121	3125	1070
0	16667	6138	15000	5513	13333	4889	11667	4265	10000	3640	8333	3016	6667	2392	5000	1767	3333	1143	3194	1091
1	17029	6255	15326	5618	13623	4982	11920	4346	10217	3710	8514	3074	6812	2437	5109	1801	3406	1165	3264	1112
2	17391	6372	15652	5724	13813	5075	12174	4427	10435	3779	8696	3131	6957	2483	5217	1835	3478	1187	3333	1133
3	17676	6457	15909	5801	14141	5144	12373	4487	10606	3830	8838	3173	7070	2516	5303	1860	3535	1203	3388	1148
4	17961	6543	16165	5878	14369	5212	12573	4546	10777	3881	8981	3215	7184	2550	5388	1884	3592	1219	3443	1163
5	18246	6629	16421	5954	14597	5280	12772	4606	10948	3932	9123	3257	7298	2583	5474	1909	3649	1235	3497	1178
6	23381	7089	21043	6367	18705	5646	16366	4925	14028	4204	11690	3483	9352	2762	7014	2041	4676	1320	4481	1260
7	24000	7200	21600	6468	19200	5735	16800	5003	14400	4271	12000	3538	9600	2806	7200	2073	4800	1341	4600	1280
8	24619	7311	22157	6568	19695	5824	17234	5080	14772	4337	12310	3593	9848	2849	7386	2106	4924	1362	4719	1300
9	25239	7423	22715	6668	20191	5913	17667	5158	15143	4403	12619	3648	10095	2893	7572	2138	5048	1383	4837	1320
10	25858	7534	23272	6768	20686	6002	18101	5235	15515	4469	12929	3702	10343	2936	7757	2170	5172	1403	4956	1339
11	26477	7646	23830	6868	21182	6090	18534	5313	15886	4535	13239	3757	10591	2980	7943	2202	5295	1424	5075	1359
12	27097	7757	24387	6968	21677	6179	18968	5390	16258	4601	13548	3812	10839	3023	8129	2234	5419	1445	5194	1379
13	27716	7869	24945	7068	22173	6268	19401	5468	16630	4667	13858	3867	11086	3066	8315	2266	5543	1466	5312	1399
14	28335	7980	25502	7169	22668	6357	19835	5545	17001	4733	14168	3922	11334	3110	8501	2298	5667	1486	5431	1419
15	28955	8092	26059	7269	23164	6446	20268	5623	17373	4800	14477	3976	11582	3153	8686	2330	5791	1507	5550	1439
16	29574	8203	26617	7369	23659	6534	20702	5700	17745	4866	14787	4031	11830	3197	8872	2362	5915	1528	5668	1458
17	24567	5151	22110	4627	19653	4103	17197	3579	14740	3055	12283	2531	9827	2007	7370	1483	4913	959	4709	916
18	24988	5151	22489	4627	19990	4103	17492	3579	14993	3055	12494	2531	9995	2007	7496	1483	4998	959	4789	916
19	25409	5151	22868	4627	20327	4103	17786	3579	15245	3055	12704	2531	10164	2007	7623	1483	5082	959	4870	916
20	25830	5151	23247	4627	20664	4103	18081	3579	15498	3055	12915	2531	10332	2007	7749	1483	5166	959	4951	916
21	26251	5151	23626	4627	21001	4103	18376	3579	15751	3055	13126	2531	10500	2007	7875	1483	5250	959	5031	916
22	26672	5151	24005	4627	21338	4103	18671	3579	16003	3055	13336	2531	10669	2007	8002	1483	5334	959	5112	916
23	27093	5151	24384	4627	21675	4103	18965	3579	16256	3055	13547	2531	10837	2007	8128	1483	5419	959	5193	916
24	27514	5151	24763	4627	22011	4103	19260	3579	16509	3055	13757	2531	11006	2007	8254	1483	5503	959	5274	916

Combination <Capacity range (Max)>

Indoor: RAV-HM1401UTP-E x 1, RAV-HM801UTP-E x 3, RAV-HM801UTP-E x 4
Outdoor: RAV-GM2803AT8(J)P-E

Operation range	Cooling		Heating	
	Q	P	Q	P
MINIMUM	W	4600	1330	4600 1280
RATING	W	23500	9320	24000 7200
MAXIMUM	W	25000	10870	28000 9330

Cooling

Outdoor Temperature DB (°C)	Parts Load (%)															
	100		90		80		70		60		50		40		30	
	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P
20	32126	10276	28914	9171	25701	8065	22488	6960	19276	5855	16063	4750	12850	3645	9638	2539
21	31780	10463	28602	9338	25424	8213	22246	7087	19068	5962	15890	4837	12712	3711	9534	2586
22	31435	10651	28291	9506	25148	8360	22004	7214	18861	6069	15717	4923	12574	3778	9430	2632
23	31089	10839	27980	9673	24871	8507	21762	7341	18653	6176	15544	5010	12436	3844	9327	2678
24	30558	10870	27502	9701	24446	8532	21391	7363	18335	6194	15279	5024	12223	3855	9167	2686
25	30002	10870	27001	9701	24001	8532	21001	7363	18001	6194	15001	5024	12001	3855	9000	2686
26	29457	10870	26511	9701	23565	8532	20620	7363	17674	6194	14728	5024	11783	3855	8837	2686
27	28923	10870	26031	9701	23139	8532	20246	7363	17354	6194	14462	5024	11569	3855	8677	2686
28	28400	10870	25560	9701	22720	8532	19880	7363	17040	6194	14200	5024	11360	3855	8520	2686
29	27888	10870	25099	9701	22310	8532	19521	7363	16733	6194	13944	5024	11155	3855	8366	2686
30	27385	10870	24646	9701	21908	8532	19169	7363	16431	6194	13692	5024	10954	3855	8215	2686
31	26891	10870	24202	9701	21513	8532	18823	7363	16134	6194	13445	5024	10756	3855	8067	2686
32	26406	10870	23765	9701	21125	8532	18484	7363	15843	6194	13203	5024	10562	3855	7922	2686
33	25929	10870	23336	9701	20743	8532	18150	7363	15558	6194	12965	5024	10372	3855	7779	2686
34	25461	10870	22915	9701	20369	8532	17823	7363	15276	6194	12730	5024	10184	3855	7638	2686
35	25000	10870	22500	9701	20000	8532	17500	7363	15000	6194	12500	5024	10000	3855	7500	2686
36	24547	10870	22092	9701	19637	8532	17183	7363	14728	6194	12273	5024	9819	3855	7364	2686
37	24100	10870	21690	9701	19280	8532	16870	7363	14460	6194	12050	5024	9640	3855	7230	2686
38	23661	10870	21295	9701	18929	8532	16563	7363	14197	6194	11830	5024	9464	3855	7098	2686
39	20021	7247	18019	6467	16017	5688	14015	4908	12013	4129	10011	3350	8008	2570	6006	1791
40	19585	7247	17626	6467	15668	5688	13709	4908	11751	4129	9792	3350	7834	2570	5875	1791
41	19148	7247	17233	6467	15318	5688	13404	4908	11489	4129	9574	3350	7659	2570	5744	1791
42	18712	7247	16840	6467	14969	5688	13098	4908	11227	4129	9356	3350	7485	2570	5613	1791
43	18275	7247	16448	6467	14620	5688	12793	4908	10965	4129	9138	3350	7310	2570	5483	1791
44	16446	5636	14802	5030	13157	4424	11512	3818	9868	3211	8223	2605	6578	1999	4934	1393
45	16010	5636	14409	5030	12808	4424	11207	3818	9606	3211	8005	2605	6404	1999	4803	1393
46	15573	5636	14016	5030	12459	4424	10901	3818	9344	3211	7787	2605	6229	1999	4672	1393

Heating

Outdoor Temperature DB (°C)	Parts Load (%)																			
	100		90		80		70		60		50		40		30		20		10	
	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P
-27	9856	6451	8871	5785	7885	5119	6899	4453	5914	3787	4928	3121	3943	2455	2957	1789	1971	1123	1619	885
-26	10560	6842	9504	6136	8448	5429	7392	4723	6336	4017	5280	3310	4224	2604	3168	1897	2112	1191	1735	939
-25	11264	7233	10138	6486	9012	5739	7885	4993	6759	4246	5632	3499	4506	2752	3379	2006	2253	1259	1851	992
-24	11968	7624	10772	6837	9575	6050	8378	5262	7181	4475	5984	3688	4787	2901	3591	2114	2394	1327	1966	1046
-23	12672	8015	11405	7187	10138	6360	8871	5532	7603	4705	6336	3877	5069	3050	3802	2222	2534	1395	2082	1100
-22	13376	8405	12039	7537	10701	6670	9364	5802	8026	4934	6688	4066	5351	3199	4013	2331	2675	1463	2198	1153
-21	14081	8796	12672	7888	11264	6980	9856	6072	8448	5164	7040	4255	5632	3347	4224	2439	2816	1531	2313	1207
-20	14785	9187	13306	8238	11828	7290	10349	6341	8871	5393	7392	4444	5914	3496	4435	2548	2957	1599	2429	1260
-19	15277	9445	13750	8470	12222	7495	10694	6520	9166	5544	7639	4569	6111	3594	4583	2619	3055	1644	2510	1296
-18	15770	9703	14193	8701	12616	7699	11039	6698	9462	5696	7885	4694	6308	3692	4731	2691	3154	1689	2591	1331
-17	16263	9961	14637	8933	13010	7904	11384	6876	9758	5847	8132	4819	6505	3791	4879	2762	3253	1734	2672	1367
-16	16756	10219	15080	9164	13405	8109	11729	7054	10053	5999	8378	4944	6702	3889	5027	2834	3351	1779	2753	1402
-15	17249	10477	15524	9395	13799	8314	12074	7232	10349	6150	8624	5069	6899	3987	5175	2905	3450	1824	2834	1437
-14	17762	10796	15986	9682	14210	8567	12433	7453	10657	6338	8881	5223	7105	4109	5329	2994	3552	1879	2918	1481
-13	18275	11116	16448	9968	14620	8821	12793	7673	10965	6525	9138	5378	7310	4230	5483	3082	3655	1935	3002	1525
-12	18789	11435	16910	10255	15031	9074	13152	7893	11273	6713	9394	5532	7515	4352	5637	3171	3758	1990	3087	1569
-11	19302	11754	17372	10541	15442	9327	13511	8114	11581	6900	9651	5687	7721	4473	5791	3260	3860	2046	3171	1613
-10	19815	12074	17834	10827	15852	9581	13871	8334	11889	7088	9908	5841	7926	4595	5945	3348	3963	2102	3255	1656
-9	20329	12393	18296	11100	16263	9834	14230	8555	12197	7275	10164	5996	8132	4716	6099	3437	4066	2157	3340	1700
-8	20842	12713	18758	11400	16674	10088	14589	8775	12505	7463	10421	6150	8337	4838	6253	3525	4168	2213	3424	1744
-7	21355	13032	19220	11686	17084	10341	14949	8996	12813	7650	10678	6305	8542	4959	6407	3614	4271	2268	3508	1788
-6	21903	13319	19713	11944	17522	10569	15332	9193	13142	7818	10952	6443	8761	5068	6571	3693	4381	2318	3598	1827
-5	22451	13605	20206	12201	17960	10796	15715	9391	13470	7987	11225	6582	8980	5177	6735	3773	4490	2368	3688	1867
-4	22998	13892	20698	12458	18399	11024	16099	9589	13799	8155	11499	6721	9199	5287	6899	3852	4600	2418	3778	1906
-3	23546	14179	21191	12715	18837	11251	16482	9787	14127	8323	11773	6860	9418	5396	7064	3932	4709	2468	3868	1945
-2	24093	14466	21684	12972	19275	11479	16865	9985	14456	8492	12047	6998	9637	5505	7228	4011	4819	2518	3958	1985
-1	24641	14752	22177	13229	19713	11706	17249	10183	14785	8660	12320	7137	9856	5614	7392	4091	4928	2568	4048	2024
0	25188	15039	22670	13486	20151	11934	17632	10381	15113	8828	12594	7276	10075	5723	7557	4170	5038	2618	4138	2063
1	25736	15326	23162	13743	20589	12161	18015	10579	15442	8997	12868	7414	10294	5832	7721	4250	5147	2668	4228	2103
2	26284	15612	23655	14001	21027	12389	18399	10777	15770	9165	13142	7553	10513	5941	7885	4329	5257	2718	4318	2142
3	26863	15874	24176	14235	21490	12596	18804	10957	16118	9318	13431	7680	10745	6041	8059	4402	5373	2763	4413	2178
4	27448	16135	24703	14469	21958	12803	19213	11138	16469	9472	13724	7806	10979	6140	8234	4474	5490	2809	4509	2214
5	24422	9330	21980	8367	19538	7404	17096	6440	14653	5477	12211	4514	9769	3551	7327	2587	4884	1624	4012	1280
6	27472	9330	24724	8367	21977	7404	19230	6440	16483	5477	13736	4514	10989	3551	8241	2587	5494	1624	4513	1280
7	28000	9330	25200	8367	22400	7404	19600	6440	16800	5477	14000	4514	11200	3551	8400	2587	5600	1624	4600	1280
8	28524	9330	25672	8367	22819	7404	19967	6440	17115	5477	14262	4514	11410	3551	8557	2587	5705	1624	4686	1280
9	29045	9330	26140	8367	23236	7404	20331	6440	17427	5477	14522	4514	11618	3551	8713	2587	5809	1624	4772	1280
10	29561	9330	26605	8367	23649	7404	20693	6440	17737	5477	14781	4514	11825	3551	8868	2587	5912	1624	4857	1280
11	30075	9330	27067	8367	24060	7404	21052	6440	18045	5477	15037	4514	12030	3551	9022	2587	6015	1624	4941	1280
12	30584	9330	27526	8367	24468	7404	21409	6440	18351	5477	15292	4514	12234	3551	9175	2587	6117	1624	5025	1280
13	31091	9330	27982	8367	24873	7404	21764	6440	18655	5477	15545	4514	12436	3551	9327	2587	6218	1624	5108	1280
14	31594	9330	28435	8367	25276	7404	22116	6440	18957	5477	15797	4514	12638	3551	9478	2587	6319	1624	5191	1280
15	32095	9330	28885	8367	25676	7404	22466	6440	19257	5477	16047	4514	12838	3551	9628	2587	6419	1624	5273	1280
16	32593	9330	29333	8367	26074	7404	22815	6440	19556	5477	16296	4514	13037	3551	9778	2587	6519	1624	5354	1280
17	33631	9330	30268	8367	26904	7404	23541	6440	20178	5477	16815	4514	13452	3551	10089	2587	6726	1624	5525	1280
18	34207	9330	30786	8367	27366	7404	23945	6440	20524	5477	17103	4514	13683	3551	10262	2587	6841	1624	5620	1280
19	34783	9330	31305	8367	27827	7404	24348	6440	20870	5477	17392	4514	13913	3551	10435	2587	6957	1624	5714	1280
20	35360	9330	31824	8367	28288	7404	24752	6440	21216	5477	17680	4514	14144	3551	10608	2587	7072	1624	5809	1280
21	35936	9330	32343	8367	28749	7404	25155	6440	21562	5477	17968	4514	14374	3551	10781	2587	7187	1624	5904	1280
22	36513	9330	32861	8367	29210	7404	25559	6440	21908	5477	18256	4514	14605	3551	10954	2587	7303	1624	5998	1280
23	37089	9330	33380	8367	29671	7404	25962	6440	22253	5477	18544	4514	14836	3551	11127	2587	7418	1624	6093	1280
24	37665	9330	33899	8367	30132	7404	26366	6440	22599	5477	18833	4514	15066	3551	11300	2587	7533	1624	6188	1280

Combination <Rated condition>

Indoor: RAV-HM1401UTP-E x 1, RAV-HM801UTP-E x 3, RAV-HM801UTP-E x 4
Outdoor: RAV-GM2803AT8(J)P-E

Operation range	Cooling		Heating	
	Q	P	Q	P
MINIMUM	W	4600	1330	4600
Night operation 1	W	11750	2941	12000
				2565

* When outside air temperature is 40°C or more, the night operation does not operate.

Cooling

Outdoor Temperature DB (°C)	Parts Load (%)															
	100		90		80		70		60		50		40		30	
	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P
20	14012	2309	12611	2101	11210	1893	9808	1685	8407	1477	7006	1270	5605	1062	5486	1044
21	13861	2351	12475	2139	11089	1928	9703	1716	8317	1504	6931	1293	5544	1081	5426	1063
22	13710	2393	12339	2178	10968	1962	9597	1747	8226	1531	6855	1316	5484	1101	5367	1082
23	13560	2435	12204	2216	10848	1997	9492	1778	8136	1558	6780	1339	5424	1120	5308	1101
24	13409	2477	12068	2254	10727	2031	9386	1808	8045	1585	6704	1362	5363	1139	5249	1120
25	13258	2519	11932	2293	10606	2066	9281	1839	7955	1612	6629	1385	5303	1159	5190	1139
26	13107	2562	11796	2331	10486	2100	9175	1870	7864	1639	6554	1409	5243	1178	5131	1158
27	12956	2604	11661	2369	10365	2135	9069	1901	7774	1666	6478	1432	5183	1197	5072	1177
28	12806	2646	11525	2408	10244	2170	8964	1931	7683	1693	6403	1455	5122	1217	5013	1197
29	12655	2688	11389	2446	10124	2204	8858	1962	7593	1720	6327	1478	5062	1236	4954	1216
30	12504	2730	11254	2484	10003	2239	8753	1993	7502	1747	6252	1501	5002	1256	4895	1235
31	12353	2772	11118	2523	9883	2273	8647	2024	7412	1774	6177	1525	4941	1275	4836	1254
32	12202	2815	10982	2561	9762	2308	8542	2054	7321	1801	6101	1548	4881	1294	4777	1273
33	12052	2857	10846	2600	9641	2342	8436	2085	7231	1828	6026	1571	4821	1314	4718	1292
34	11901	2899	10711	2638	9521	2377	8331	2116	7140	1855	5950	1594	4760	1333	4659	1311
35	11750	2941	10575	2676	9400	2412	8225	2147	7050	1882	5875	1617	4700	1353	4600	1330
36	11599	2983	10439	2715	9279	2446	8119	2178	6960	1909	5800	1640	4640	1372	4541	1349
37	11448	3025	10304	2753	9159	2481	8014	2208	6869	1936	5724	1664	4579	1391	4482	1368
38	11298	3067	10168	2791	9038	2515	7908	2239	6779	1963	5649	1687	4519	1411	4423	1387
39	9702	2107	8732	1918	7762	1728	6792	1538	5821	1348	4851	1159	3881	969	3798	953
40*	18982	6678	17084	5958	15186	5238	13287	4518	11389	3799	9491	3079	7593	2359	5695	1639
41*	18559	6678	16703	5958	14847	5238	12991	4518	11135	3799	9279	3079	7424	2359	5568	1639
42*	18136	6678	16322	5958	14509	5238	12695	4518	10881	3799	9068	3079	7254	2359	5441	1639
43*	17713	6678	15941	5958	14170	5238	12399	4518	10628	3799	8856	3079	7085	2359	5314	1639
44*	15940	5194	14346	4634	12752	4074	11158	3514	9564	2954	7970	2395	6376	1835	4782	1275
45*	15517	5194	13965	4634	12414	4074	10862	3514	9310	2954	7759	2395	6207	1835	4655	1275
46*	15094	5194	13585	4634	12075	4074	10566	3514	9056	2954	7547	2395	6038	1835	4528	1275

Heating

Outdoor Temperature DB (°C)	Parts Load (%)																			
	100		90		80		70		60		50		40		30		20		10	
	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P
-27	3261	938	2935	862	2609	786	2283	709	1957	633	1630	557	1304	481	1250	468	1250	468	1250	468
-26	3494	995	3144	914	2795	833	2446	752	2096	672	1747	591	1398	510	1339	496	1339	496	1339	496
-25	3727	1052	3354	966	2981	881	2609	795	2236	710	1863	624	1491	539	1429	525	1429	525	1429	525
-24	3960	1108	3564	1018	3168	928	2772	838	2376	748	1980	658	1584	568	1518	553	1518	553	1518	553
-23	4193	1165	3773	1071	3354	976	2935	881	2516	787	2096	692	1677	597	1607	581	1607	581	1607	581
-22	4425	1222	3983	1123	3540	1023	3098	924	2655	825	2213	726	1770	626	1696	610	1696	610	1696	610
-21	4658	1279	4193	1175	3727	1071	3261	967	2795	863	2329	759	1863	656	1786	638	1786	638	1786	638
-20	4891	1336	4402	1227	3913	1119	3424	1010	2935	902	2446	793	1957	685	1875	667	1875	667	1875	667
-19	5054	1373	4549	1262	4043	1150	3538	1039	3033	927	2527	815	2022	704	1938	685	1938	685	1938	685
-18	5217	1411	4696	1296	4174	1182	3652	1067	3130	952	2609	838	2087	723	2000	704	2000	704	2000	704
-17	5380	1448	4842	1331	4304	1213	3766	1095	3228	978	2690	860	2152	742	2063	723	2063	723	2063	723
-16	5543	1486	4989	1365	4435	1244	3880	1124	3326	1003	2772	882	2217	762	2125	741	2125	741	2125	741
-15	5707	1523	5136	1400	4565	1276	3995	1152	3424	1028	2853	905	2283	781	2188	760	2188	760	2188	760
-14	5876	1570	5289	1442	4701	1315	4113	1187	3526	1060	2938	932	2351	805	2253	783	2253	783	2253	783
-13	6046	1616	5442	1485	4837	1354	4232	1222	3628	1091	3023	960	2418	828	2318	806	2318	806	2318	806
-12	6216	1663	5594	1528	4973	1392	4351	1257	3730	1122	3108	987	2486	852	2383	830	2383	830	2383	830
-11	6386	1709	5747	1570	5109	1431	4470	1292	3832	1154	3193	1015	2554	876	2448	853	2448	853	2448	853
-10	6556	1755	5900	1613	5245	1470	4589	1328	3933	1185	3278	1042	2622	900	2513	876	2513	876	2513	876
-9	6726	1802	6053	1655	5380	1509	4708	1363	4035	1216	3363	1070	2690	924	2578	899	2578	899	2578	899
-8	6895	1848	6206	1698	5516	1548	4827	1398	4137	1248	3448	1098	2758	947	2643	922	2643	922	2643	922
-7	7065	1895	6359	1741	5652	1587	4946	1433	4239	1279	3533	1125	2826	971	2708	946	2708	946	2708	946
-6	7246	1936	6522	1779	5797	1622	5072	1464	4348	1307	3623	1150	2899	993	2778	966	2778	966	2778	966
-5	7428	1978	6685	1817	5942	1657	5199	1496	4457	1335	3714	1175	2971	1014	2847	987	2847	987	2847	987
-4	7609	2020	6848	1856	6087	1692	5326	1528	4565	1363	3804	1199	3043	1035	2917	1008	2917	1008	2917	1008
-3	7790	2061	7011	1894	6232	1727	5453	1559	4674	1392	3895	1224	3116	1057	2986	1029	2986	1029	2986	1029
-2	7971	2103	7174	1932	6377	1761	5580	1591	4783	1420	3986	1249	3188	1078	3056	1050	3056	1050	3056	1050
-1	8152	2145	7337	1971	6522	1796	5707	1622	4891	1448	4076	1274	3261	1099	3125	1070	3125	1070	3125	1070
0	8333	2187	7500	2009	6667	1831	5833	1654	5000	1476	4167	1298	3333	1121	3194	1091	3194	1091	3194	1091
1	8514	2228	7663	2047	6812	1866	5960	1685	5109	1504	4257	1323	3406	1142	3264	1112	3264	1112	3264	1112
2	8696	2270	7826	2086	6957	1901	6087	1717	5217	1532	4348	1348	3478	1163	3333	1133	3333	1133	3333	1133
3	8838	2300	7954	2114	7070	1927	6187	1740	5303	1553	4419	1366	3535	1179	3388	1148	3388	1148	3388	1148
4	8981	2331	8082	2142	7184	1952	6286	1763	5388	1574	4490	1384	3592	1195	3443	1163	3443	1163	3443	1163
5	9123	2361	8211	2170	7298	1978	6386	1786	5474	1594	4561	1402	3649	1210	3497	1178	3497	1178	3497	1178
6	11690	2525	10521	2320	9352	2115	8183	1910	7014	1705	5845	1500	4676	1294	4481	1260	4481	1260	4481	1260
7	12000	2565	10800	2357	9600	2148	8400	1940	7200	1731	6000	1523	4800	1315	4600	1280	4600	1280	4600	1280
8	12310	2605	11079	2393	9848	2182	8617	1970	7386	1758	6155	1547	4924	1335	4719	1300	4719	1300	4719	1300
9	12619	2644	11357	2430	10095	2215	8834	2000	7572	1785	6310	1570	5048	1355	4837	1320	4837	1320	4837	1320
10	12929	2684	11636	2466	10343	2248	9050	2030	7757	1812	6465	1594	5172	1376	4956	1339	4956	1339	4956	1339
11	13239	2724	11915	2503	10591	2281	9267	2060	7943	1839	6619	1617	5295	1396	5075	1359	5075	1359	5075	1359
12	13548	2764	12194	2539	10839	2315	9484	2090	8129	1866	6774	1641	5419	1417	5194	1379	5194	1379	5194	1379
13	13858	2803	12472	2576	11086	2348	9701	2120	8315	1892	6929	1665	5543	1437	5312	1399	5312	1399	5312	1399
14	14168	2843	12751	2612	11334	2381	9917	2150	8501	1919	7084	1688	5667	1457	5431	1419	5431	1419	5431	1419
15	14477	2883	13030	2649	11582	2414	10134	2180	8686	1946	7239	1712	5791	1478	5550	1439	5550	1439	5550	1439
16	14787	2922	13308	2685	11830	2448	10351	2210	8872	1973	7394	1735	5915	1498	5668	1458	5668	1458	5668	1458
17	12283	1835	11155	1686	9827	1537	8598	1388	7370	1239	6142	1090	4913	941	4709	916	4709	916	4709	916
18	12494	1835	11245	1686	9995	1537	8746	1388	7496	1239	6247	1090	4998	941	4789	916	4789	916	4789	916
19	12704	1835	11434	1686	10164	1537	8893	1388	7623	1239	6352	1090	5082	941	4870	916	4870	916	4870	916
20	12915	1835	11624	1686	10332	1537	9041	1388	7749	1239	6458	1090	5166	941	4951	916	4951	916	4951	916
21	13126	1835	11813	1686	10500	1537	9188	1388	7875	1239	6563	1090	5250	941	5031	916	5031	916	5031	916
22	13336	1835	12002	1686	10669	1537	9335	1388	8002	1239	6668	1090	5334	941	5112	916	5112	916	5112	916
23	13547	1835	12192	1686	10837	1537	9483	1388	8128	1239	6773	1090	5419	941	5193	916	5193	916	5193	916
24	13757	1835	12381	1686	11006	1537	9630	1388	8254	1239	6879	1090	5503	941	5274	916	5274	916	5274	916

Combination <Rated condition>

Indoor: RAV-HM1401UTP-E x 1, RAV-HM801UTP-E x 3, RAV-HM801UTP-E x 4
Outdoor: RAV-GM2803AT8(J)P-E

Operation range	Cooling		Heating	
	Q	P	Q	P
MINIMUM	W 4600	1330	4600	1280
Night operation 2	W 16450	4551	16800	3944

* When outside air temperature is 40°C or more, the night operation does not operate.

Cooling

Outdoor Temperature DB (°C)	Parts Load (%)															
	100		90		80		70		60		50		40		30	
	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P
20	19617	3573	17655	3222	15693	2871	13732	2520	11770	2169	9808	1818	7847	1467	5885	1116
21	19406	3638	17465	3280	15524	2923	13584	2566	11643	2208	9703	1851	7762	1493	5822	1136
22	19194	3703	17275	3339	15356	2975	13436	2612	11517	2248	9597	1884	7678	1520	5758	1156
23	18983	3768	17085	3398	15187	3028	13288	2658	11390	2287	9492	1917	7593	1547	5695	1177
24	18772	3833	16895	3457	15018	3080	13141	2704	11263	2327	9386	1950	7509	1574	5632	1197
25	18561	3899	16705	3516	14849	3133	12993	2750	11137	2367	9281	1983	7424	1600	5568	1217
26	18350	3964	16515	3574	14680	3185	12845	2796	11010	2406	9175	2017	7340	1627	5505	1238
27	18139	4029	16325	3633	14511	3237	12697	2842	10883	2446	9069	2050	7256	1654	5442	1258
28	17928	4094	16135	3692	14342	3290	12549	2888	10757	2485	8964	2083	7171	1681	5378	1278
29	17717	4160	15945	3751	14173	3342	12402	2934	10630	2525	8858	2116	7087	1708	5315	1299
30	17506	4225	15755	3810	14004	3395	12254	2980	10503	2564	8753	2149	7002	1734	5252	1319
31	17294	4290	15565	3869	13836	3447	12106	3026	10377	2604	8647	2183	6918	1761	5188	1340
32	17083	4355	15375	3927	13667	3499	11958	3072	10250	2644	8542	2216	6833	1788	5125	1360
33	16872	4421	15185	3986	13498	3552	11811	3118	10123	2683	8436	2249	6749	1815	5062	1380
34	16661	4486	14995	4045	13329	3604	11663	3164	9997	2723	8331	2282	6664	1841	4998	1401
35	16450	4551	14805	4104	13160	3657	11515	3210	9870	2762	8225	2315	6580	1868	4935	1421
36	16239	4616	14615	4163	12991	3709	11367	3256	9743	2802	8119	2349	6496	1895	4872	1441
37	16028	4681	14425	4222	12822	3762	11219	3302	9617	2842	8014	2382	6411	1922	4808	1462
38	15817	4747	14235	4280	12653	3814	11072	3348	9490	2881	7908	2415	6327	1949	4745	1482
39	15606	4812	14045	4339	12484	3867	10924	3394	9363	2920	7803	2448	6242	1976	4682	1503
40*	15395	4877	13855	4398	12315	3920	10776	3440	9236	2960	7698	2481	6157	2003	4619	1523
41*	15184	4942	13665	4457	12146	3976	10628	3486	9109	3000	7593	2514	6072	2030	4556	1544
42*	14973	5007	13475	4516	11979	4032	10480	3532	8982	3040	7488	2547	5987	2057	4493	1564
43*	14762	5072	13285	4575	11811	4088	10332	3578	8855	3080	7383	2580	5902	2084	4430	1585
44*	14551	5137	13095	4634	11642	4144	10184	3624	8728	3120	7278	2613	5817	2111	4367	1605
45*	14340	5202	12905	4693	11473	4200	10036	3670	8601	3160	7173	2646	5732	2138	4304	1626
46*	14129	5267	12715	4752	11304	4256	9888	3716	8474	3200	7068	2679	5647	2165	4241	1646

Heating

Outdoor DB (°C)	Parts Load (%)																			
	100		90		80		70		60		50		40		30		20		10	
	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P
-27	4565	1442	4109	1308	3652	1174	3196	1040	2739	906	2283	772	1826	637	1370	503	1250	468	1250	468
-26	4891	1530	4402	1387	3913	1245	3424	1103	2935	961	2446	818	1957	676	1467	534	1339	496	1339	496
-25	5217	1617	4696	1467	4174	1316	3652	1166	3130	1015	2609	865	2087	715	1565	564	1429	525	1429	525
-24	5543	1704	4989	1546	4435	1387	3880	1229	3326	1070	2772	912	2217	753	1663	595	1518	553	1518	553
-23	5870	1792	5283	1625	4696	1458	4109	1292	3522	1125	2935	958	2348	792	1761	625	1607	581	1607	581
-22	6196	1879	5576	1704	4957	1530	4337	1355	3717	1180	3098	1005	2478	830	1859	656	1696	610	1696	610
-21	6522	1966	5870	1784	5217	1601	4565	1418	3913	1235	3261	1052	2609	869	1957	686	1786	638	1786	638
-20	6848	2054	6163	1863	5478	1672	4793	1481	4109	1290	3424	1099	2739	908	2054	717	1875	667	1875	667
-19	7076	2111	6368	1915	5661	1719	4953	1522	4246	1326	3538	1129	2830	933	2123	737	1938	685	1938	685
-18	7304	2169	6574	1967	5843	1766	5113	1564	4383	1362	3652	1160	2922	959	2191	757	2000	704	2000	704
-17	7533	2227	6779	2020	6026	1813	5273	1605	4520	1398	3766	1191	3013	984	2260	777	2063	723	2063	723
-16	7761	2285	6985	2072	6209	1860	5433	1647	4657	1435	3880	1222	3104	1010	2328	797	2125	741	2125	741
-15	7989	2342	7190	2124	6391	1907	5592	1689	4793	1471	3995	1253	3196	1035	2397	817	2188	760	2188	760
-14	8227	2414	7404	2189	6582	1965	5759	1740	4936	1516	4113	1291	3291	1067	2468	842	2253	783	2253	783
-13	8465	2485	7618	2254	6772	2023	5925	1792	5079	1550	4232	1329	3386	1098	2539	867	2318	806	2318	806
-12	8702	2556	7832	2319	6962	2081	6092	1843	5221	1605	4351	1368	3481	1130	2611	892	2383	830	2383	830
-11	8940	2628	8046	2383	7152	2139	6258	1895	5364	1650	4470	1406	3576	1161	2682	917	2448	853	2448	853
-10	9178	2699	8260	2448	7342	2197	6425	1946	5507	1695	4589	1444	3671	1193	2753	942	2513	876	2513	876
-9	9416	2771	8474	2513	7533	2255	6591	1997	5649	1740	4708	1482	3766	1224	2825	967	2578	899	2578	899
-8	9654	2842	8688	2578	7723	2313	6757	2049	5792	1785	4827	1520	3861	1256	2896	992	2643	922	2643	922
-7	9891	2913	8902	2642	7913	2371	6924	2100	5935	1829	4946	1558	3957	1287	2967	1016	2708	946	2708	946
-6	10145	2977	9130	2701	8116	2424	7101	2147	6087	1870	5072	1593	4058	1316	3043	1039	2778	966	2778	966
-5	10399	3042	9359	2759	8319	2476	7279	2193	6239	1910	5199	1627	4159	1344	3120	1061	2847	987	2847	987
-4	10652	3106	9587	2817	8522	2528	7457	2239	6391	1950	5326	1661	4261	1372	3196	1084	2917	1008	2917	1008
-3	10906	3170	9815	2875	8725	2580	7634	2285	6543	1990	5453	1696	4362	1401	3272	1106	2986	1029	2986	1029
-2	11159	3234	10043	2933	8928	2632	7812	2331	6696	2031	5580	1730	4464	1429	3348	1128	3056	1050	3056	1050
-1	11413	3298	10272	2991	9130	2684	7989	2378	6848	2071	5707	1764	4565	1457	3424	1151	3125	1070	3125	1070
0	11667	3362	10500	3049	9333	2737	8167	2424	7000	2111	5833	1798	4667	1486	3500	1173	3194	1091	3194	1091
1	11920	3426	10728	3107	9536	2789	8344	2470	7152	2151	5960	1833	4768	1514	3576	1195	3264	1112	3264	1112
2	12174	3490	10957	3166	9739	2841	8522	2516	7304	2192	6087	1867	4870	1542	3652	1218	3333	1133	3333	1133
3	12473	3537	11136	3208	9899	2879	8661	2550	7424	2221	6187	1892	4949	1563	3712	1234	3388	1148	3388	1148
4	12573	3584	11315	3251	10058	2917	8801	2584	7544	2251	6286	1917	5029	1584	3772	1251	3443	1163	3443	1163
5	12722	3631	11495	3293	10218	2956	8941	2618	7663	2280	6386	1942	5109	1605	3832	1267	3497	1178	3497	1178
6	13666	3883	14730	3522	13093	3161	11457	2799	9820	2488	8183	2077	6547	1716	4910	1355	4481	1260	4481	1260
7	16800	3944	15120	3577	13440	3210	11760	2843	10080	2477	8400	2110	6720	1743	5040	1376	4600	1280	4600	1280
8	17234	4005	15510	3633	13787	3260	12063	2887	10340	2515	8617	2142	6893	1770	5170	1397	4719	1300	4719	1300
9	17667	4066	15900	3688	14134	3310	12367	2932	10600	2553	8834	2175	7067	1797	5300	1419	4837	1320	4837	1320
10	18101	4127	16291	3743	14481	3359	12670	2976	10860	2592	9050	2208	7240	1824	5430	1440	4956	1339	4956	1339
11	18534	4188	16681	3799	14827	3409	12974	3020	11121	2630	9267	2240	7414	1851	5560	1461	5075	1359	5075	1359
12	18968	4249	17071	3854	15174	3459	13277	3064	11381	2668	9484	2273	7587	1878	5690	1483	5194	1379	5194	1379
13	19401	4310	17461	3909	15521	3509	13581	3108	11641	2707	9701	2306	7761	1905	5820	1504	5312	1399	5312	1399
14	19835	4371	17851	3965	15868	3558	13884	3152	11901	2745	9917	2338	7934	1932	5950	1525	5431	1419	5431	1419
15	20268	4433	18242	4020	16215	3608	14188	3196	12161	2783	10134	2371	8107	1959	6081	1547	5550	1439	5550	1439
16	20702	4494	18632	4076	16562	3658	14491	3240	12421	2822	10351	2404	8281	1986	6211	1568	5668	1458	5668	1458
17	17197	2822	15477	2559	13757	2297	12038	2034	10318	1772	8598	1510	6879	1247	5159	985	4709	916	4709	916
18	17492	2822	15742	2559	13993	2297	12244	2034	10495	1772	8746	1510	6997	1247	5247	985	4789	916	4789	916
19	17786	2822	16008	2559	14229	2297	12450	2034	10672	1772	8893	1510	7115	1247	5336	985	4870	916	4870	916
20	18081	2822	16273	2559	14465	2297	12657	2034	10849	1772	9041	1510	7232	1247	5424	985	4951	916	4951	916
21	18376	2822	16538	2559	14701	2297	12863	2034	11025	1772	9188	1510	7350	1247	5513	985	5031	916	5031	916
22	18671	2822	16803	2559	14936	2297	13069	2034	11202	1772	9335	1510	7468	1247	5601	985	5112	916	5112	916
23	18965	2822	17069	2559	15172	2297	13276	2034	11379	1772	9483	1510	7586	1247	5690	985	5193	916	5193	916
24	19260	2822	17334	2559	15408	2297	13482	2034	11556	1772	9630	1510	7704	1247	5778	985	5274	916	5274	916

Combination <Rated condition>

Indoor: RAV-HM1401UTP-E x 1, RAV-HM801UTP-E x 3, RAV-HM801UTP-E x 4
Outdoor: RAV-GM2803AT8(J)P-E

Operation range	Cooling		Heating	
	Q	P	Q	P
MINIMUM	W 4600	1330	4600	1280
Night operation 3	W 21150	7567	21600	5706

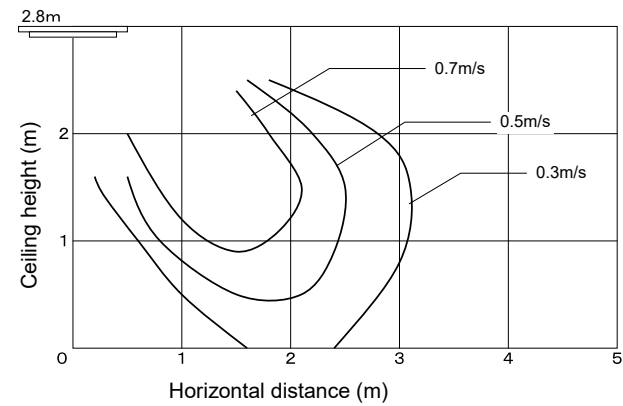
* When outside air temperature is 40°C or more, the night operation does not operate.

Outdoor Temperature DB (°C)	Parts Load (%)																							
	100		90		80		70		60		50		40		30		20		10					
	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P
20	25221	5940	22699	5314	19960	4774	17655	4063	15133	3437	12611	2812	10089	2186	7566	1560	5486	1044	5486	1044	5486	1044	5486	1044
21	24950	6049	22455	5411	19960	4774	17465	4137	14970	3500	12475	2863	9980	2226	7485	1589	5426	1063	5426	1063	5426	1063	5426	1063
22	24679	6157	22211	5508	19743	4860	17275	4211	14807	3563	12339	2914	9871	2266	7404	1617	5367	1082	5367	1082	5367	1082	5367	1082
23	24407	6265	21966	5606	19526	4946	17085	4286	14644	3626	12204	2966	9763	2306	7322	1646	5308	1101	5308	1101	5308	1101	5308	1101
24	24136	6374	21722	5703	19309	5031	16895	4360	14481	3688	12068	3017	9654	2346	7241	1674	5249	1120	5249	1120	5249	1120	5249	1120
25	23864	6482	21478	5800	19091	5117	16705	4434	14319	3751	11932	3068	9546	2386	7159	1703	5190	1139	5190	1139	5190	1139	5190	1139
26	23593	6591	21234	5897	18874	5202	16515	4508	14156	3814	11796	3120	9437	2425	7078	1731	5131	1158	5131	1158	5131	1158	5131	1158
27	23321	6699	20989	5994	18657	5288	16325	4582	13993	3877	11661	3171	9329	2465	6996	1760	5072	1177	5072	1177	5072	1177	5072	1177
28	23050	6808	20745	6091	18440	5374	16135	4657	13830	3939	11525	3222	9220	2505	6915	1788	5013	1197	5013	1197	5013	1197	5013	1197
29	22779	6916	20501	6188	18223	5459	15945	4731	13667	4002	11389	3274	9111	2545	6834	1817	4954	1216	4954	1216	4954	1216	4954	1216
30	22507	7025	20256	6285	18006	5545	15755	4805	13504	4065	11254	3325	9003	2585	6752	1845	4895	1235	4895	1235	4895	1235	4895	1235
31	22236	7133	20012	6382	17789	5630	15565	4879	13341	4128	11118	3376	8894	2625	6671	1874	4836	1254	4836	1254	4836	1254	4836	1254
32	21964	7242	19768	6479	17571	5716	15375	4953	13179	4190	10982	3428	8786	2665	6589	1902	4777	1273	4777	1273	4777	1273	4777	1273
33	21693	7350	19524	6576	17354	5802	15185	5027	13016	4253	10846	3479	8677	2705	6508	1931	4718	1292	4718	1292	4718	1292	4718	1292
34	21421	7459	19279	6673	17137	5887	14995	5102	12853	4316	10711	3530	8569	2745	6426	1959	4659	1311	4659	1311	4659	1311	4659	1311
35	21150	7567	19035	6770	16920	5973	14805	5176	12690	4379	10575	3582	8460	2785	6345	1988	4600	1330	4600	1330	4600	1330	4600	1330
36	20879	7675	18791	6867	16703	6059	14615	5250	12527	4442	10439	3633	8351	2825	6264	2016	4541	1349	4541	1349	4541	1349	4541	1349
37	20607	7784	18546	6964	16486	6144	14425	5324	12364	4504	10304	3684	8243	2864	6182	2045	4482	1368	4482	1368	4482	1368	4482	1368
38	20336	7892	18302	7061	16269	6230	14235	5398	12201	4567	10168	3736	8134	2904	6101	2073	4423	1387	4423	1387	4423	1387	4423	1387
39	17464	5422	15718	4851	13972	4280	12225	3709	10479	3137	8732	2566	6986	1995	5239	1424	3798	953	3798	953	3798	953	3798	953
40*	18982	6678	17084	5958	15186	5238	13287	4518	11389	3799	9491	3079	7593	2359	5695	1639	3796	919	3716	888	888	888	888	888
41*	18559	6678	16703	5958	14847	5238	12991	4518	11135	3799	9279	3079	7424	2359	5568	1639	3712	919	3633	888	888	888	888	888
42*	18136	6678	16322	5958	14509	5238	12695	4518	10881	3799	9068	3079	7254	2359	5441	1639	3627	919	3550	888	888	888	888	888
43*	17713	6678	15941	5958	14170	5238	12399	4518	10628	3799	8856	3079	7085	2359	5314	1639	3543	919	3467	888	888	888	888	888
44*	15940	5194	14346	4634	12752	4074	11158	3514	9564	2954	7970	2395	6376	1835	4782	1275	3188	715	3120	691	691	691	691	691
45*	15517	5194	13965	4634	12414	4074	10862	3514	9310	2954	7759	2395	6207	1835	4655	1275	3103	715	3037	691	691	691	691	691
46*	15094	5194	13585	4634	12075	4074	10566	3514	9056	2954	7547	2395	6038	1835	4528	1275	3019	715	2955	691	691	691	691	691

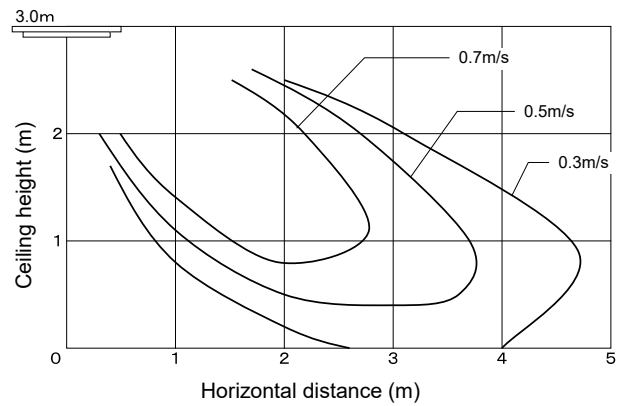
Heating		Parts Load (%)																							
Outdoor Temperature DB (°C)	100		90		80		70		60		50		40		30		20		10						
	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P					
-27	5870	2087	5283	1881	4696	1675	4109	1470	3522	1264	2935	1058	2348	853	1761	647	1250	468	1250	468					
-26	6289	2213	5660	1995	5031	1777	4402	1559	3773	1341	3144	1122	2516	904	1887	686	1339	496	1339	496					
-25	6708	2339	6037	2109	5366	1878	4696	1648	4025	1417	3354	1187	2683	956	2012	725	1429	525	1429	525					
-24	7127	2466	6415	2223	5702	1980	4989	1737	4276	1494	3564	1251	2851	1008	2138	765	1518	553	1518	553					
-23	7547	2592	6792	2337	6037	2081	5283	1826	4528	1570	3773	1315	3019	1059	2264	804	1607	581	1607	581					
-22	7966	2719	7169	2451	6373	2183	5576	1915	4780	1647	3983	1379	3186	1111	2390	843	1696	610	1696	610					
-21	8385	2845	7547	2565	6708	2284	5870	2004	5031	1723	4193	1443	3354	1163	2516	882	1786	638	1786	638					
-20	8804	2971	7924	2678	7043	2386	6163	2093	5283	1800	4402	1507	3522	1214	2641	921	1875	667	1875	667					
-19	9098	3055	8188	2754	7278	2453	6368	2152	5459	1851	4549	1549	3639	1248	2729	947	1938	685	1938	685					
-18	9391	3138	8452	2829	7513	2520	6574	2210	5635	1901	4696	1592	3757	1282	2817	973	2000	704	2000	704					
-17	9685	3222	8716	2904	7748	2587	6779	2269	5811	1952	4842	1634	3874	1317	2905	999	2063	723	2063	723					
-16	9978	3305	8980	2979	7983	2654	6985	2328	5987	2002	4989	1676	3991	1351	2993	1025	2125	741	2125	741					
-15	10272	3389	9245	3055	8217	2721	7190	2387	6163	2053	5136	1719	4109	1385	3082	1051	2188	760	2188	760					
-14	10577	3492	9520	3148	8462	2804	7404	2459	6346	2115	5289	1771	4231	1427	3173	1083	2253	783	2253	783					
-13	10883	3595	9795	3241	8707	2887	7618	2532	6530	2178	5442	1824	4353	1469	3265	1115	2318	806	2318	806					
-12	11189	3698	10070	3334	8951	2969	7832	2605	6713	2240	5594	1876	4476	1511	3357	1147	2383	830	2383	830					
-11	11495	3802	10345	3427	9196	3052	8046	2678	6897	2303	5747	1928	4598	1554	3448	1179	2448	853	2448	853					
-10	11800	3905	10620	3520	9440	3135	8260	2750	7080	2366	5900	1981	4720	1596	3540	1211	2513	876	2513	876					
-9	12106	4008	10895	3613	9685	3218	8474	2823	7264	2428	6053	2033	4842	1638	3632	1243	2578	899	2578	899					
-8	12412	4112	11171	3706	9929	3301	8688	2896	7447	2491	6206	2085	4965	1680	3724	1275	2643	922	2643	922					
-7	12717	4215	11446	3800	10174	3384	8902	2969	7630	2553	6359	2138	5087	1722	3815	1307	2708	946	2708	946					
-6	13043	4308	11739	3883	10435	3459	9130	3034	7826	2609	6522	2185	5217	1760	3913	1336	2778	966	2778	966					
-5	13370	4400	12033	3967	10696	3533	9359	3099	8022	2666	6685	2232	5348	1798	4011	1365	2847	987	2847	987					
-4	13696	4493	12326	4050	10957	3607	9587	3165	8217	2722	6848	2279	5478	1836	4109	1393	2917	1008	2917	1008					
-3	14022	4586	12620	4134	11217	3682	9815	3230	8413	2778	7011	2326	5609	1874	4207	1422	2986	1029	2986	1029					
-2	14348	4679	12913	4218	11478	3756	10043	3295	8609	2834	7174	2373	5739	1912	4304	1451	3056	1050	3056	1050					
-1	14674	4771	13207	4301	11739	3831	10272	3361	8804	2890	7337	2420	5870	1950	4402	1480	3125	1071	3125	1070					
0	15000	4864	13500	4385	12000	3905	10500	3426	9000	2947	7500	2467	6000	1988	4500	1508	3194	1091	3194	1091					
1	15326	4957	13793	4468	12261	3980	10728	3491	9196	3003	7663	2514	6130	2026	4598	1537	3264	1112	3264	1112					
2	15652	5050	14087	4552	12522	4054	10957	3557	9391	3059	7826	2561	6261	2064	4696	1566	3333	1133	3333	1133					
3	15909	5117	14318	4613	12727	4109	11136	3604	9545	3100	7954	2596	6363	2091	4773	1587	3388	1148	3388	1148					
4	16165	5185	14548	4674	12932	4163	11315	3652	9699	3141	8082	2630	6466	2119	4849	1608	3443	1163	3443	1163					
5	16421	5253	14779	4736	13137	4218	11495	3700	9853	3182	8211	2665	6569	2147	4926	1629	3497	1178	3497	1178					
6	21043	5618	18938	5064	16834	4510	14730	3957	12626	3403	10221	2849	8417	2296	6313	1742	4481	1260	4481	1260					
7	21600	5706	19440	5144	17280	4581	15120	4019	12960	3457	10800	2894	8640	2332	6480	1769	4600	1280	4600	1280					
8	22157	5794	19942	5223	17726	4652	15510	4081	13294	3510	11079	2939	8863	2368	6647	1797	4719	1300	4719	1300					
9	22715	5883	20443	5303	18172	4723	15900	4143	13629	3564	11357	2984	9086	2404	6814	1824	4837	1320	4837	1320					
10	23272	5971	20945	5383	18618	4794	16291	4206	13963	3617	11636	3029	9309	2440	6982	1852	4956	1339	4956	1339					
11	23830	6059	21447	5462	19064	4865	16681	4268	14298	3671	11915	3073	9532	2476	7149	1879	5075	1359	5075	1359					
12	24387	6148	21948	5542	19510	4936	17071	4330	14632	3724	12194	3118	9755	2512	7316	1906	5194	1379	5194	1379					
13	24945	6236	22450	5621	19956	5007	17461	4392	14967	3778	12472	3163	9978	2548	7483	1934	5312	1399	5312	1399					
14	25502	6324	22952	5701	20402	5078	17851	4455	15301	3831	12751	3208	10201	2585	7651	1961	5431	1419	5431	1419					
15	26059	6413	23453	5781	20847	5149	18242	4517	15636	3885	13030	3253	10424	2621	7818	1989	5550	1439	5550	1439					
16	26617	6501	23955	5860	21293	5220	18632	4579	15970	3938	13308	3298	10647	2657	7985	2016	5668	1458	5668	1458					
17	22110	4083	19899	3680	17688	3278	15477	2875	13266	2473	11055	2071	8844	1668	6633	1266	4709	916	4709	916					
18	22489	4083	20240	3680	17991	3278	15742	2875	13493	2473	11245	2071	8996	1668	6747	1266	4789	916	4789	916					
19	22868	4083	20581	3680	18294	3278	16008	2875	13721	2473	11434	2071	9147	1668	6860	1266	4870	916	4870	916					
20	23247	4083	20922	3680	18598	3278	16273	2875	13948	2473	11624	2071	9299	1668	6974	1266	4951	916	4951	916					
21	23626	4083	21263	3680	18901	3278	16538	2875	14176	2473	11813	2071	9450	1668	7088	1266	5031	916	5031	916					
22	24005	4083	21604	3680	19204	3278	16803	2875	14403	2473	12002	2071	9602	1668	7201	1266	5112	916	5112	916					
23	24384	4083	21946	3680	19507	3278	17069	2875	14630	2473	12192	2071	9754	1668	7315	1266	5193	916	5193	916					
24	24763	4083	22287	3680	19810	3278	17334	2875	14858	2473	12381	2071	9905	1668	7429	1266	5274	916	5274	916					

2-5-6. Air Throw Distance Chart

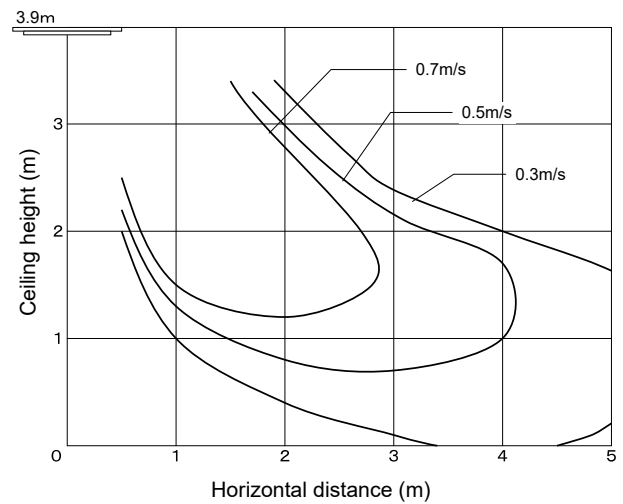
RAV-HM561UTP-E/TR



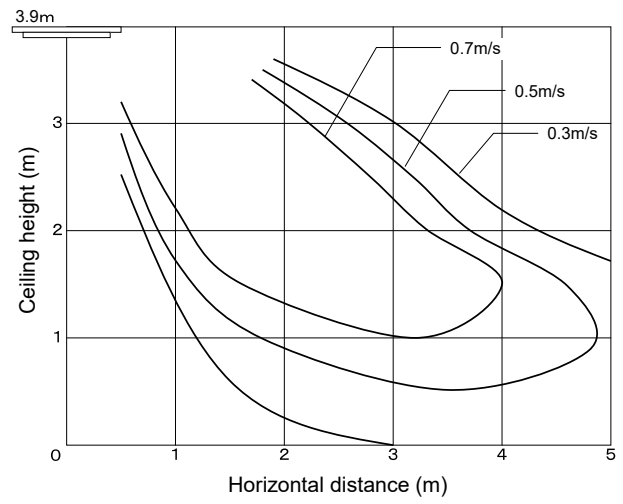
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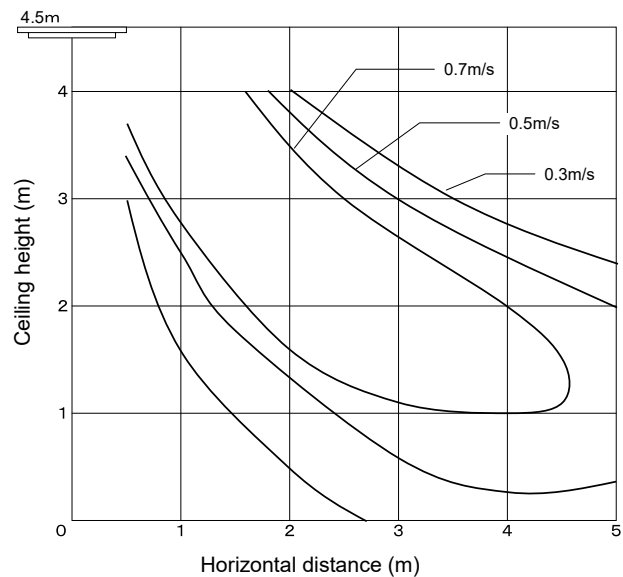
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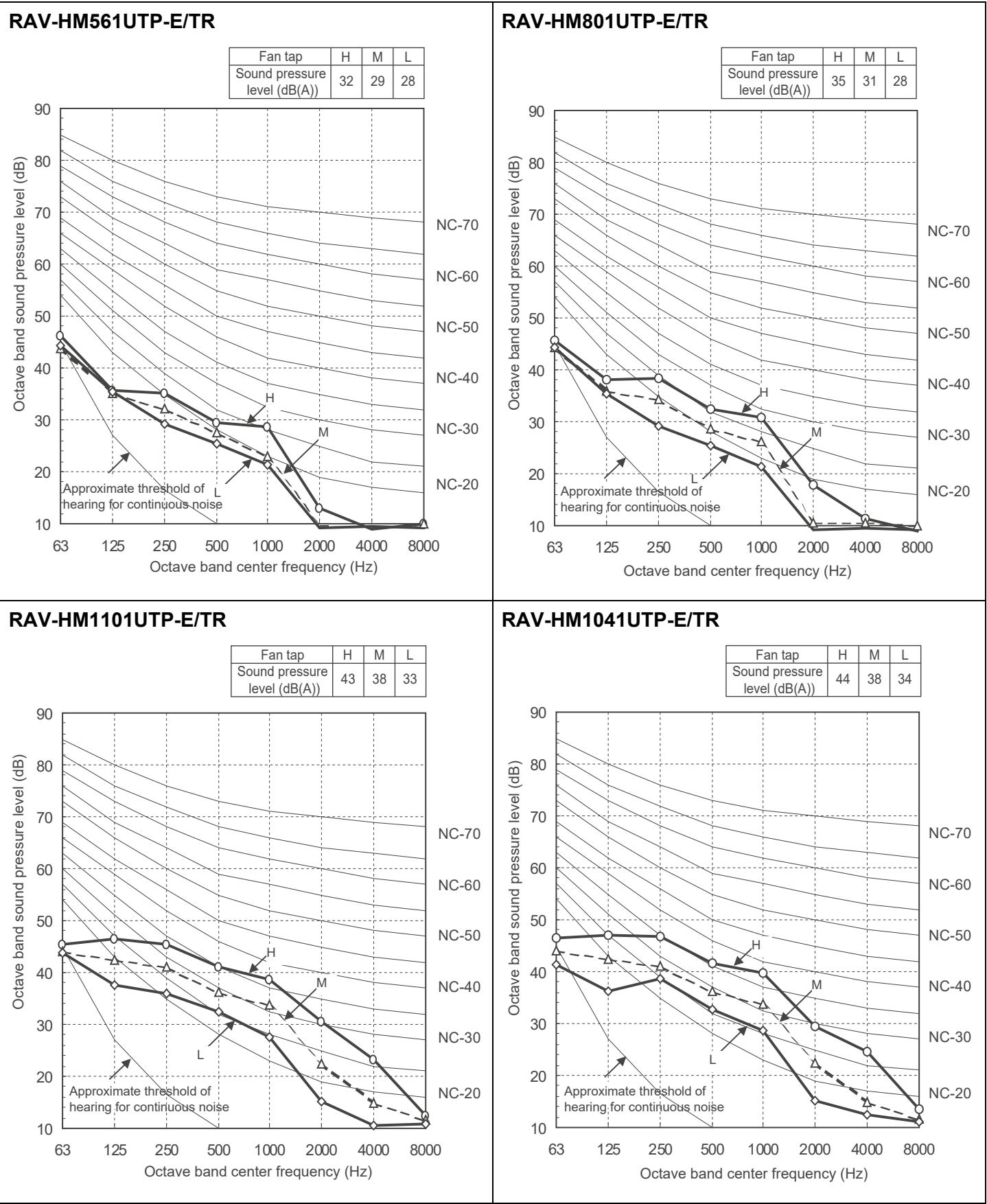
RAV-HM1401UTP-E/TR



RAV-HM1101UTP-E/TR, RAV-HM1041UTP-E/TR
(High ceiling)

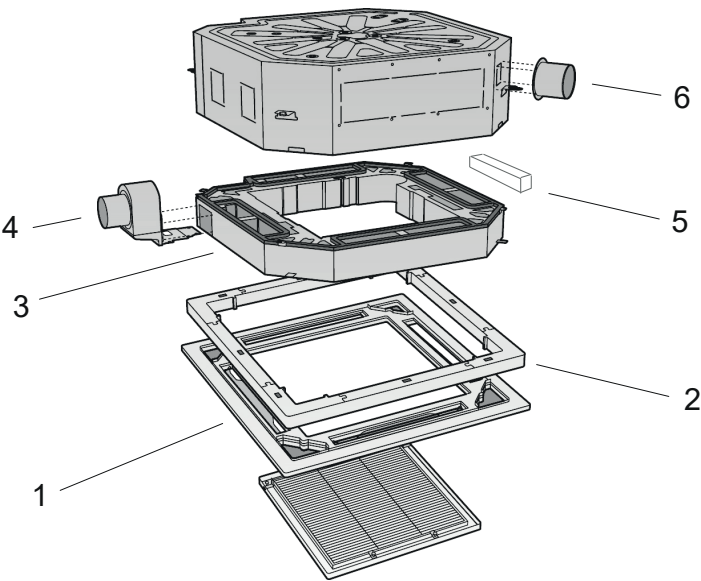


2-5-7. Sound characteristics (NC curve)



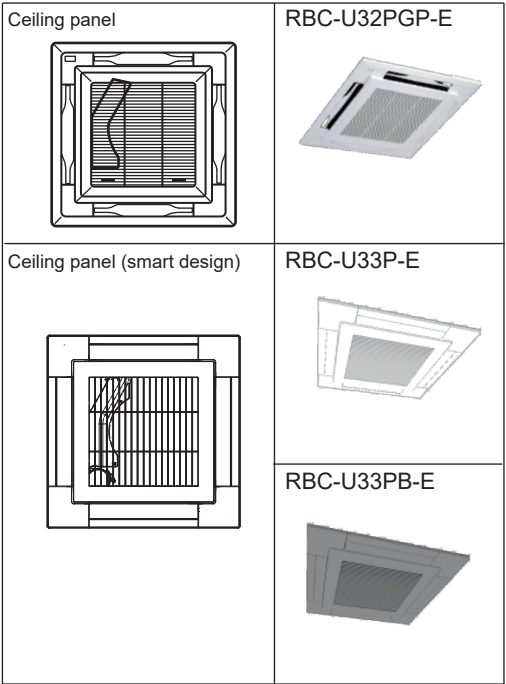
2-5-8. Accessories

Optional parts for 4-Way Cassette type



Optional parts list

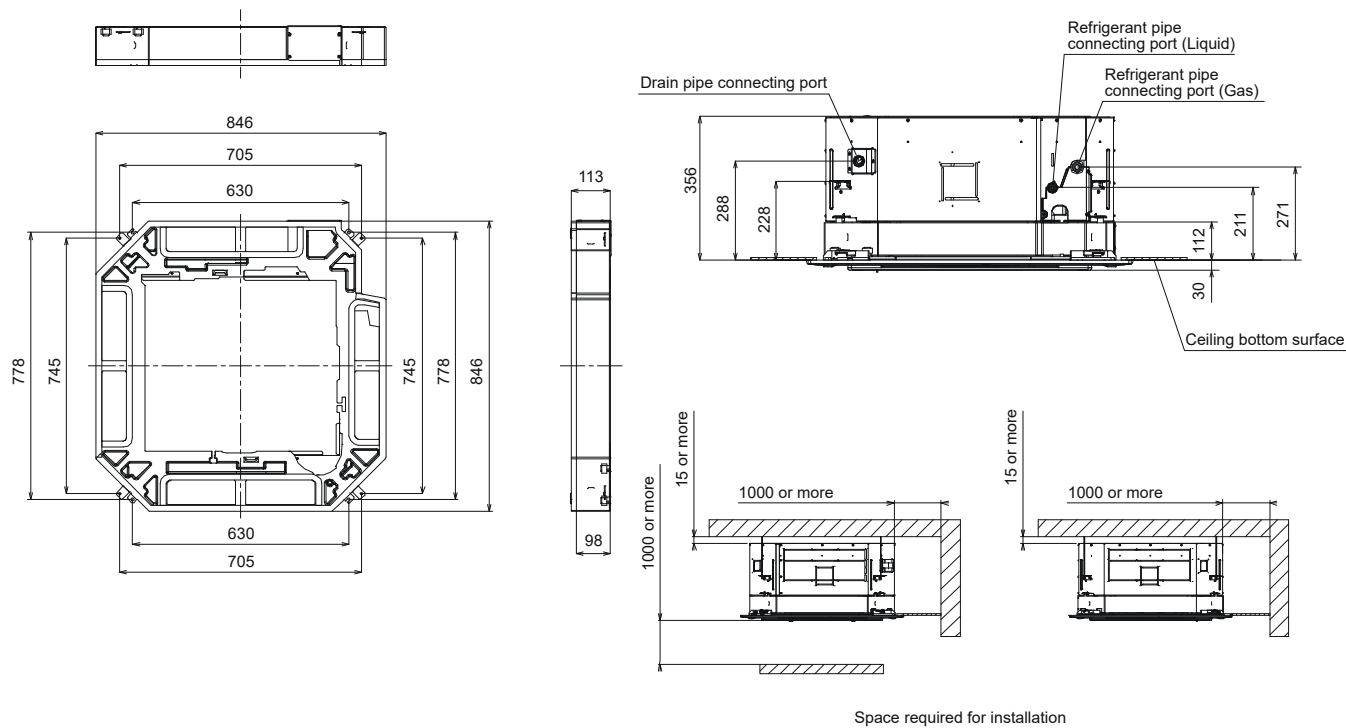
No	Type	Model name	Qty/unit	Note
1	1.1 Ceiling panel	RBC-U32PGP-E	1	White (2.5GY9.0/0.5)
	1.2 Ceiling panel (Smart design)	RBC-U33P-E	1	White (5PB9/1)
	1.3 Ceiling panel (Smart design)	RBC-U33PB-E	1	Black (RAL9005)
2	Spacer for height adjustment	TCB-SP1602UE	1	50 mm
3	Fresh-air chamber	TCB-GFC1602UE	1	Use with TCB-GB1602UUL
4	Fresh-air inlet box	TCB-GB1602UE	1	Connection = Dia. 100 mm.
5	Air-discharge direction kit	TCB-BC1602UE	1	6-direction patterns
6	Auxiliary fresh air flange	TCB-FF101URE2		Connection = Dia.100



2-5-9. Appendix

1. Fresh-air chamber (TCB-GFC1602UE)

Unit : mm



2. Fresh-air inlet box (TCB-GB1602UE)

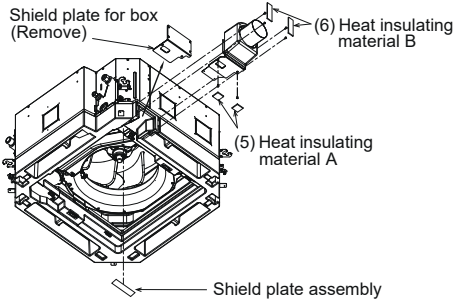
Accessories

(The following parts are included.)

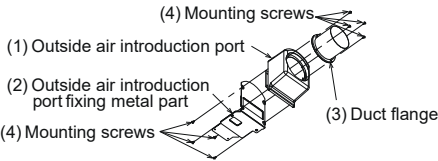
No.	Name	Qty	Remark
(1)	Outside air introduction port	1	
(2)	Outside air introduction port fixing metal part	1	
(3)	Duct flange 100 mm	1	
(4)	Mounting screws 4 × 10 mm	16	
(5)	Heat insulating material A	2	
(6)	Heat insulating material B	2	
(7)	Wind shield	1	
(8)	Installation manual	1	
(9)	Wire	1	

Installation

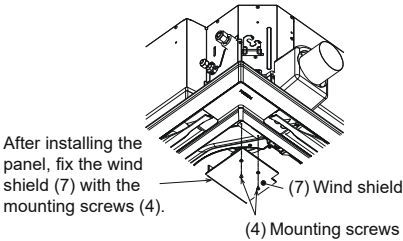
(Fig. 1)



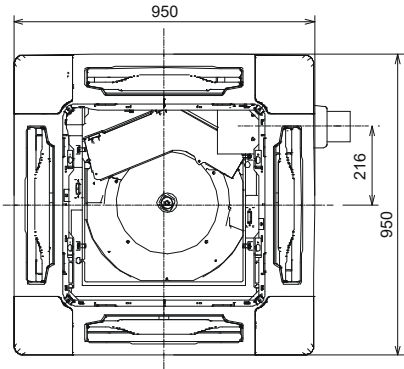
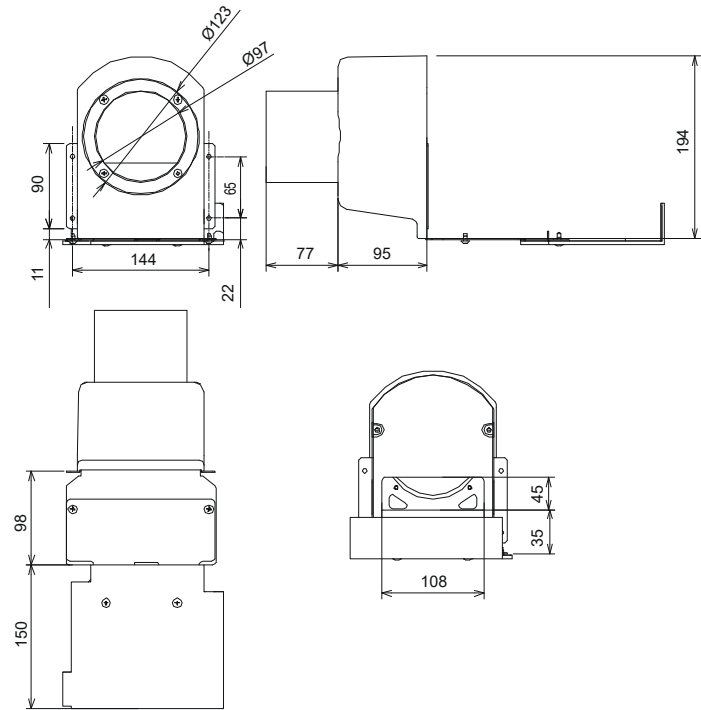
(Fig. 2)



(Fig. 3)



Dimension



Unit: mm

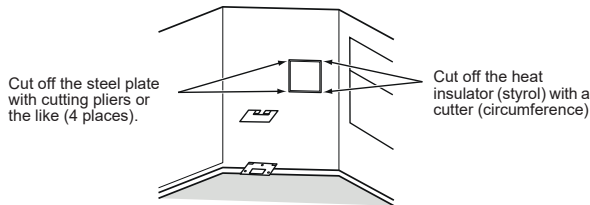
NOTE

This inlet box shall be used with the fresh-air chamber.

3. Auxiliary fresh air flange (TCB-FF101URE2)

Installation

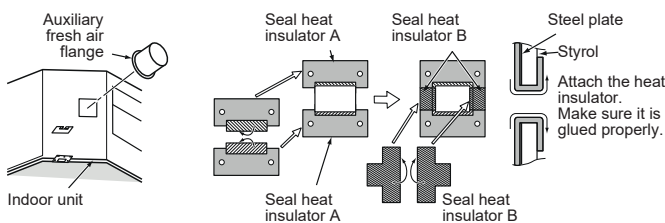
1. Using the knockout of the indoor unit main body, as a marker, cut off the flange with the heat insulator (styrol) with cutting pliers or cutter.



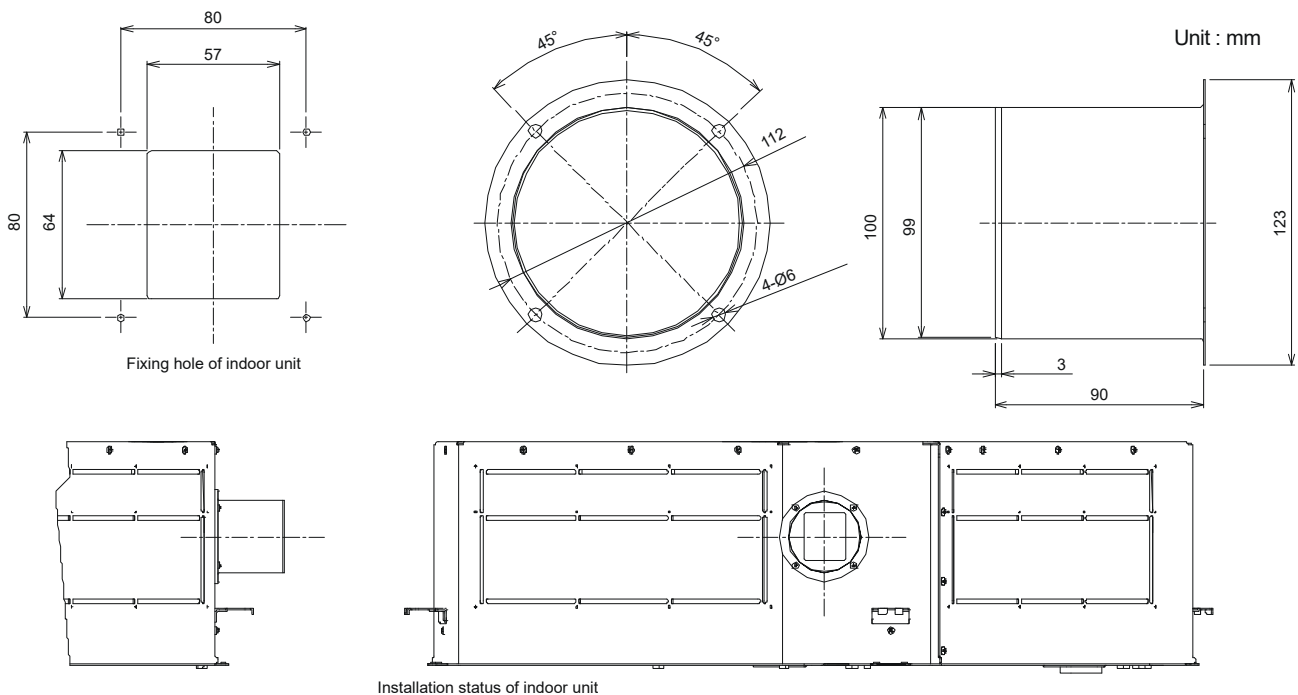
NOTE

When cutting off the styrol inside, be careful not to insert the cutter blade deeper than 30 mm. (Damage to the drain pan inside can cause water leakage.)
Wear safety globes to carry out these works. Do not attempt with bare hands.

2. A gap between the styrol and steel plate may cause a trouble such as condensation. Be sure to attach the attached heat insulator A first with it aligned to the screw hole, and then attach B, according to the right figure.
3. Install the auxiliary fresh air flange to the indoor unit main body with attached 4 fixing screws.



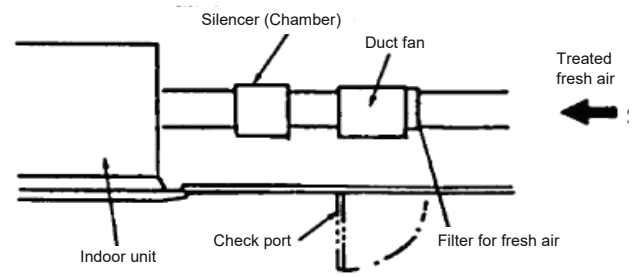
Dimension



Duct fan

In order to take fresh air, provide the duct fan separately.

1. Install the filter for fresh air
2. Provide the check port beneath the duct fan for maintenance.
3. Provide the silencer to prevent the effect of noise.



4. Fresh Air Intake

Usage

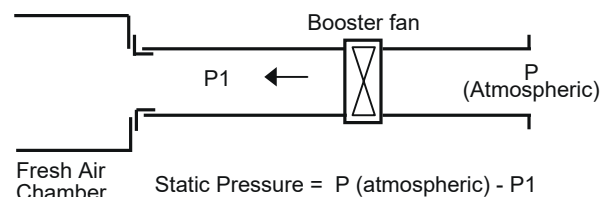
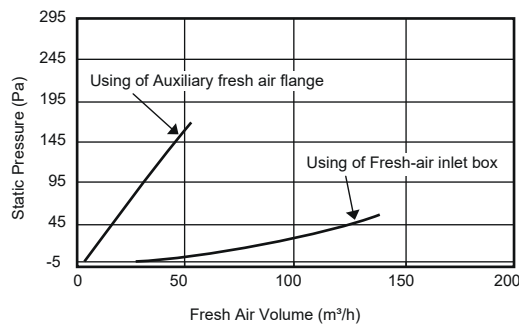
Fresh air is taken by using Fresh-air chamber and Fresh-air inlet box. And also is subsidiarily taken by using Auxiliary fresh air flange through the knock-out hole of the indoor unit body.

Caution

1. Be sure to provide air return.
2. The fresh air shall be treated by heat reclaim ventilator or the like.
3. Recommended treated air temperature is 12 °C to 30 °C.
4. Be sure to decide the fresh air volume so that mixed suction air with fresh air keep operating temperature.
Provide an air filter in fresh air way to prevent sucking dust.
5. Be sure to insulate the fresh air duct.

In order to accelerate starting up in heating mode, implement pre-heating operation by cutting off Fresh Air Intake.

6. The operating sound might increase when fresh air intake.



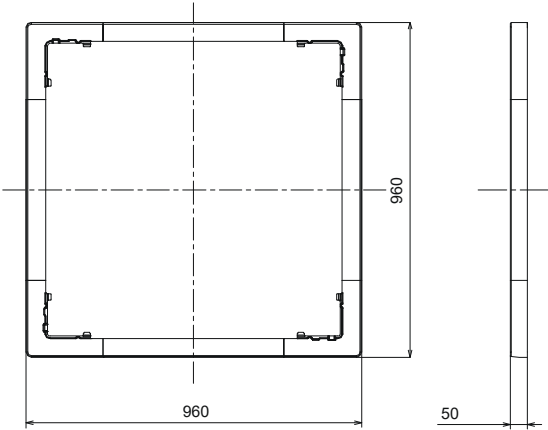
Characteristics between air volume of branching duct and static pressure

Following fresh air intake ratio is available by using the booster fan.

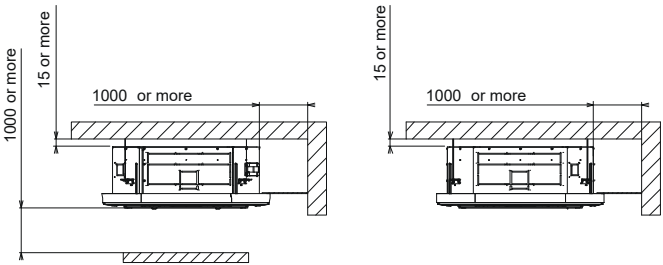
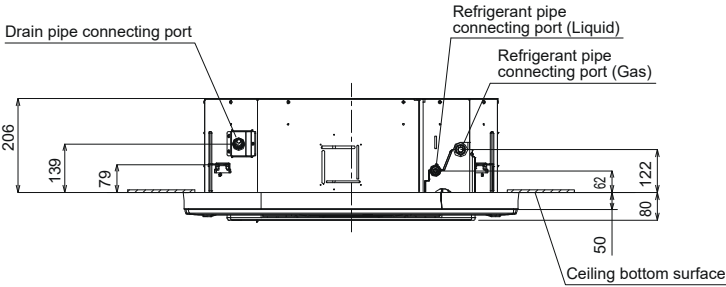
1. Fresh-air inlet box with Fresh-air chamber.
By using duct fan (local procurement), it is available to inlet up to 110 m³/h and 5% of rated air volume.
2. Auxiliary fresh air flange through the knock-out hole of the indoor unit body.
By using duct fan (local procurement), it is available to inlet up to 30 m³/h and 2% of rated air volume.

5. Spacer for height adjustment (TCB-SP1602UE)

Unit : mm

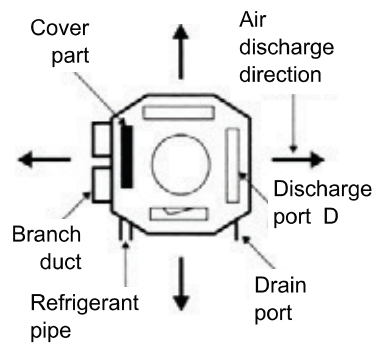


Material : Styrene foam
Color : Moon white



Space required for installation

6. Air discharge direction kit (TCB-BC1602UE)



Limited models only				
3-way air flow				
	Available for all models	Available for all models	Available only for 56 to 80 type	Available only for 110 to 160 type
2-way air flow				
	Available for all models	Available for all models	Available for all models	

2-6. Under Ceiling Type

2-6-1. Specifications

2-6-2. Dimension

2-6-3. Wiring Diagrams

2-6-4. Sensible Capacity Table

2-6-5. Part Load Performance

2-6-6. Air Throw Distance Chart

2-6-7. Sound Characteristics (NC Curve)

2-6-8. Accessories

2-6-9. Appendix

2-6-1. Specification

Under Ceiling Type

Twin combination

Model	Indoor unit		RAV	HM1101CTP-E/TR x2
	Outdoor unit		RAV	GM2243AT8P-E/TR
Cooling capacity			(kW)	20.00
Heating capacity			(kW)	22.40
Power supply			1Ph., 220V, 60Hz. 1Ph., 220V - 240V, 50Hz.	
Electrical characteristic	Cooling	Running current	(A)	10.55
		Power consumption	(W)	0.69
		Power factor	(-)	0.94
		EER	(kW/kW)	2.90
		SEER	(kW/kW)	6.32
	Heating	Running current	(A)	10.60
		Power consumption	(W)	0.69
		Power factor	(-)	0.94
		COP	(kW/kW)	3.24
		SCOP	(kW/kW)	3.86
Outer dimension	Main unit	Height	(mm)	235
		Width	(mm)	1586
		Depth	(mm)	690
Total weight		(kg)	37	
Air flow volume		H/M/L (m ³ / h)	19/14/10	
Sound pressure level		H/M+/M/L+/L (dB·A)	44/39/38/33/32	
Sound power level		H (dB·A)	59	
Connecting pipe		Gas side (mm)	Ø 28.6	
		Liquid side (mm)	Ø 12.7	
Fan motor			(W)	139
Air filter			Standard filter (Long life filter)	
Controller			Optional (Sold separately)	

Note : Rated conditions

Cooling : Indoor air temperature 27 °C DB/ 19°C WB, Outdoor 35 °C DB
Heating : Indoor air temperature 20 °C DB, Outdoor 7°C DB / 6°C WB

Under Ceiling Type

Twin combination

Model	Indoor unit		RAV	HM1401CTP-E/TR x2	
	Outdoor unit		RAV	GM2803AT8P-E/TR	
Cooling capacity			(kW)	23.50	
Heating capacity			(kW)	24.00	
Power supply				1Ph., 220V, 60Hz. 1Ph., 220V - 240V, 50Hz.	
Electrical characteristic	Cooling	Running current		(A)	16.50
		Power consumption		(W)	0.67
		Power factor		(-)	0.93
	Heating	EER		(kW/kW)	2.20
		SEER		(kW/kW)	5.34
		Running current		(A)	11.90
		Power consumption		(W)	0.77
		Power factor		(-)	0.93
		COP		(kW/kW)	3.13
		SCOP		(kW/kW)	3.61
Outer dimension	Main unit	Height		(mm)	235
		Width		(mm)	1586
		Depth		(mm)	690
Total weight				(kg)	37
Air flow volume		H/M/L		(m ³ / h)	20/15/12
Sound pressure level		H/M+/M/L+/L		(dB·A)	46/42/41/36/35
Sound power level		H		(dB·A)	61
Connecting pipe		Gas side		(mm)	Ø 28.6
		Liquid side		(mm)	Ø 12.7
Fan motor			(W)		139
Air filter				Standard filter (Long life filter)	
Controller				Optional (Sold separately)	

Note : Rated conditions Cooling : Indoor air temperature 27 °C DB/ 19°C WB, Outdoor 35 °C DB
Heating : Indoor air temperature 20 °C DB, Outdoor 7°C DB / 6°C WB

Under Ceiling Type

Triple combination

Model	Indoor unit		RAV	HM801CTP-E/TR x3
	Outdoor unit		RAV	GM2243AT8P-E/TR
Cooling capacity			(kW)	20.00
Heating capacity			(kW)	22.40
Power supply			1Ph., 220V, 60Hz. 1Ph., 220V - 240V, 50Hz.	
Electrical characteristic	Cooling	Running current	(A)	10.55
		Power consumption	(W)	0.69
		Power factor	(-)	0.94
		EER	(kW/kW)	2.90
		SEER	(kW/kW)	6.27
	Heating	Running current	(A)	10.60
		Power consumption	(W)	0.69
		Power factor	(-)	0.94
		COP	(kW/kW)	3.24
		SCOP	(kW/kW)	3.86
Outer dimension	Main unit	Height	(mm)	235
		Width	(mm)	1270
		Depth	(mm)	690
Total weight		(kg)	29	
Air flow volume		H/M/L	(m ³ / h)	20/15/12
Sound pressure level		H/M+/M/L+/L	(dB·A)	46/42/41/36/35
Sound power level		H	(dB·A)	61
Connecting pipe		Gas side	(mm)	Ø 28.6
		Liquid side	(mm)	Ø 12.7
Fan motor			(W)	94
Air filter			Standard filter (Long life filter)	
Controller			Optional (Sold separately)	

Note : Rated conditions

Cooling : Indoor air temperature 27 °C DB/ 19°C WB, Outdoor 35 °C DB

Heating : Indoor air temperature 20 °C DB, Outdoor 7°C DB / 6°C WB

Under Ceiling Type

Triple combination

Model	Indoor unit		RAV	HM801CTP-E/TR x3
	Outdoor unit		RAV	GM2803AT8P-E/TR
Cooling capacity			(kW)	23.50
Heating capacity			(kW)	24.00
Power supply			1Ph., 220V, 60Hz. 1Ph., 220V - 240V, 50Hz.	
Electrical characteristic	Cooling	Running current	(A)	16.50
		Power consumption	(W)	1.06
		Power factor	(-)	0.93
		EER	(kW/kW)	2.20
		SEER	(kW/kW)	5.29
	Heating	Running current	(A)	11.90
		Power consumption	(W)	0.77
		Power factor	(-)	0.93
		COP	(kW/kW)	3.13
		SCOP	(kW/kW)	3.61
Outer dimension	Main unit	Height	(mm)	235
		Width	(mm)	1270
		Depth	(mm)	690
Total weight		(kg)	29	
Air flow volume		H/M/L	(m ³ / h)	20/15/12
Sound pressure level		H/M+/M/L+/L	(dB·A)	46/42/41/36/35
Sound power level		H	(dB·A)	61
Connecting pipe		Gas side	(mm)	Ø 28.6
		Liquid side	(mm)	Ø 12.7
Fan motor			(W)	94
Air filter				Standard filter (Long life filter)
Controller				Optional (Sold separately)

Note : Rated conditions Cooling : Indoor air temperature 27 °C DB/ 19°C WB, Outdoor 35 °C DB
 Heating : Indoor air temperature 20 °C DB, Outdoor 7°C DB / 6°C WB

Under Ceiling Type

Double Twin combination

Model	Indoor unit		RAV	HM561CTP-E/TR x4
	Outdoor unit		RAV	GM2243AT8P-E/TR
Cooling capacity			(kW)	20.00
Heating capacity			(kW)	22.40
Power supply			1Ph., 220V, 60Hz. 1Ph., 220V - 240V, 50Hz.	
Electrical characteristic	Cooling	Running current	(A)	10.55
		Power consumption	(W)	6.89
		Power factor	(-)	0.94
		EER	(kW/kW)	2.90
		SEER	(kW/kW)	6.25
	Heating	Running current	(A)	10.60
		Power consumption	(W)	6.91
		Power factor	(-)	0.94
		COP	(kW/kW)	3.24
		SCOP	(kW/kW)	3.86
Outer dimension	Main unit	Height	(mm)	235
		Width	(mm)	950
		Depth	(mm)	690
Total weight		(kg)	23	
Air flow volume		H/M/L	(m ³ / h)	90/72/54
Sound pressure level		H/M+/M/L+/L	(dB·A)	37/36/35/29/28
Sound power level		H	(dB·A)	52
Connecting pipe		Gas side	(mm)	Ø 28.6
		Liquid side	(mm)	Ø 12.7
Fan motor			(W)	94
Air filter			Standard filter (Long life filter)	
Controller			Remote Controller	

Note : Rated conditions Cooling : Indoor air temperature 27 °C DB/ 19°C WB, Outdoor 35 °C DB
 Heating : Indoor air temperature 20 °C DB, Outdoor 7°C DB / 6°C WB

Under Ceiling Type

Double Twin combination

Model	Indoor unit		RAV	HM801CTP-E/TR x4
	Outdoor unit		RAV	GM2803AT8P-E/TR
Cooling capacity			(kW)	23.50
Heating capacity			(kW)	24.00
Power supply			1Ph., 220V, 60Hz. 1Ph., 220V - 240V, 50Hz.	
Electrical characteristic	Cooling	Running current	(A)	16.50
		Power consumption	(W)	10.67
		Power factor	(-)	0.93
		EER	(kW/kW)	2.20
		SEER	(kW/kW)	5.26
	Heating	Running current	(A)	11.90
		Power consumption	(W)	7.66
		Power factor	(-)	0.93
		COP	(kW/kW)	3.13
		SCOP	(kW/kW)	3.61
Outer dimension	Main unit	Height	(mm)	235
		Width	(mm)	1270
		Depth	(mm)	690
Total weight		(kg)	29	
Air flow volume		H/M/L (m ³ / h)	20/15/12	
Sound pressure level		H/M+/M/L +/L (dB·A)	46/42/41/36/35	
Sound power level		H (dB·A)	61	
Connecting pipe		Gas side	(mm)	Ø 28.6
		Liquid side	(mm)	Ø 12.7
Fan motor			(W)	94
Air filter			Standard filter (Long life filter)	
Controller			Optional (Sold separately)	

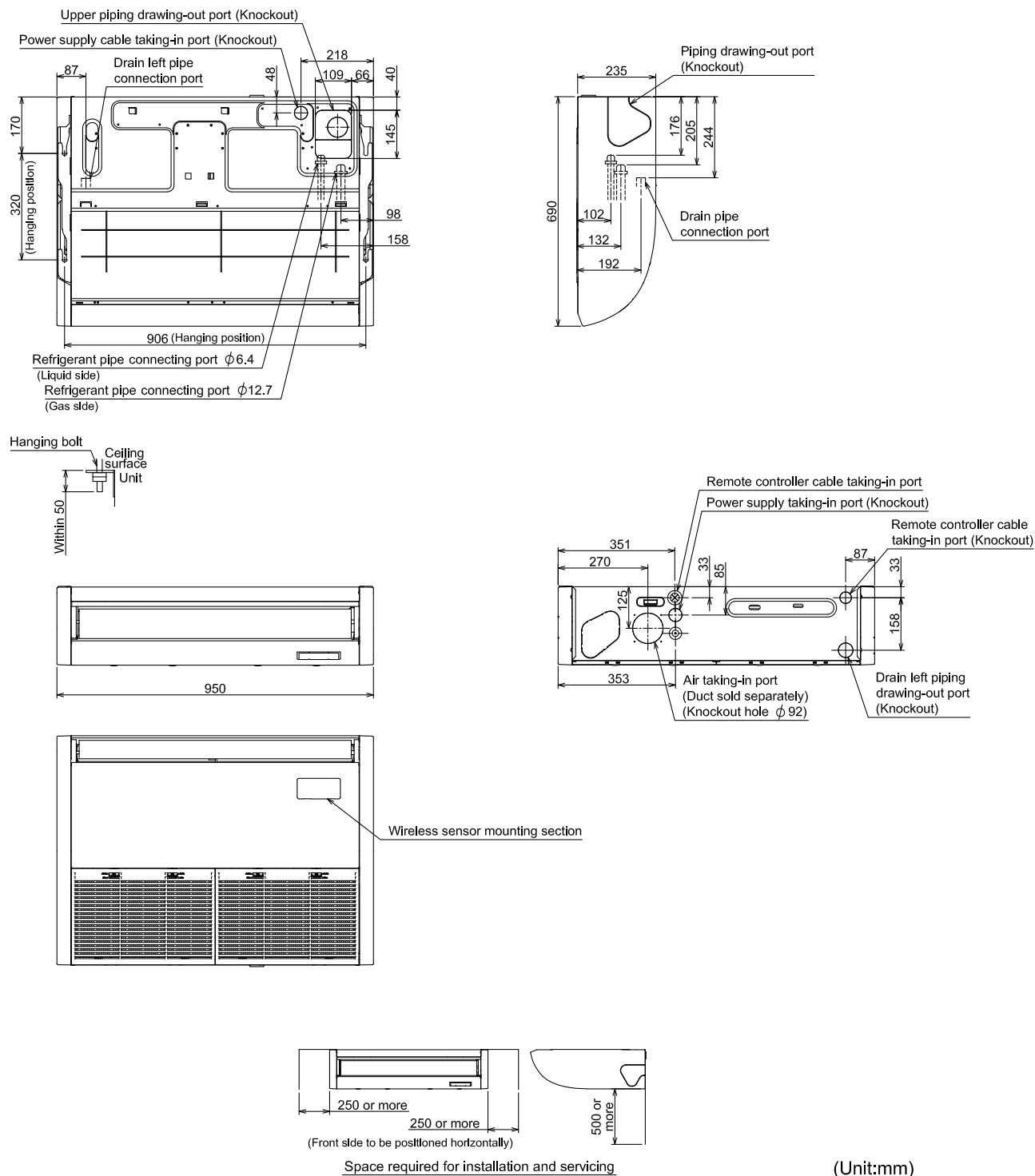
Note : Rated conditions

Cooling : Indoor air tempreature 27 °C DB/ 19°C WB, Outdoor 35 °C DB

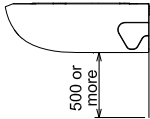
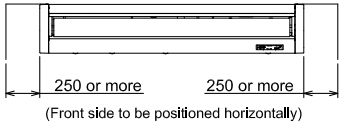
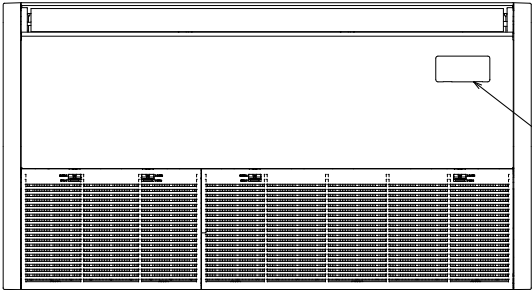
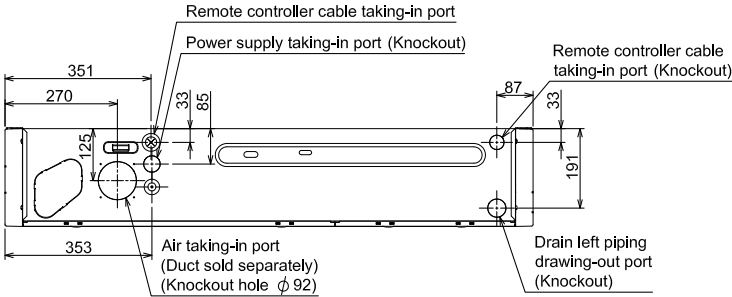
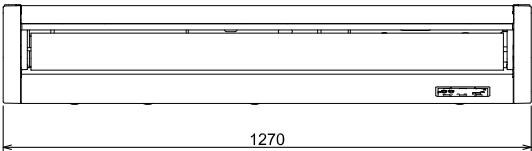
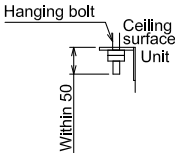
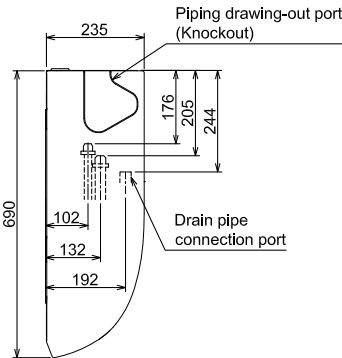
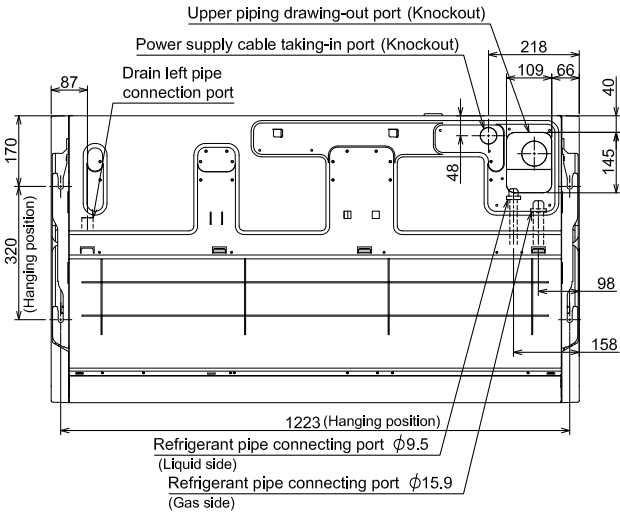
Heating : Indoor air tempreature 20 °C DB, Outdoor 7°C DB / 6°C WB

2-6-2. Dimension

RAV-HM561CTP-E/TR



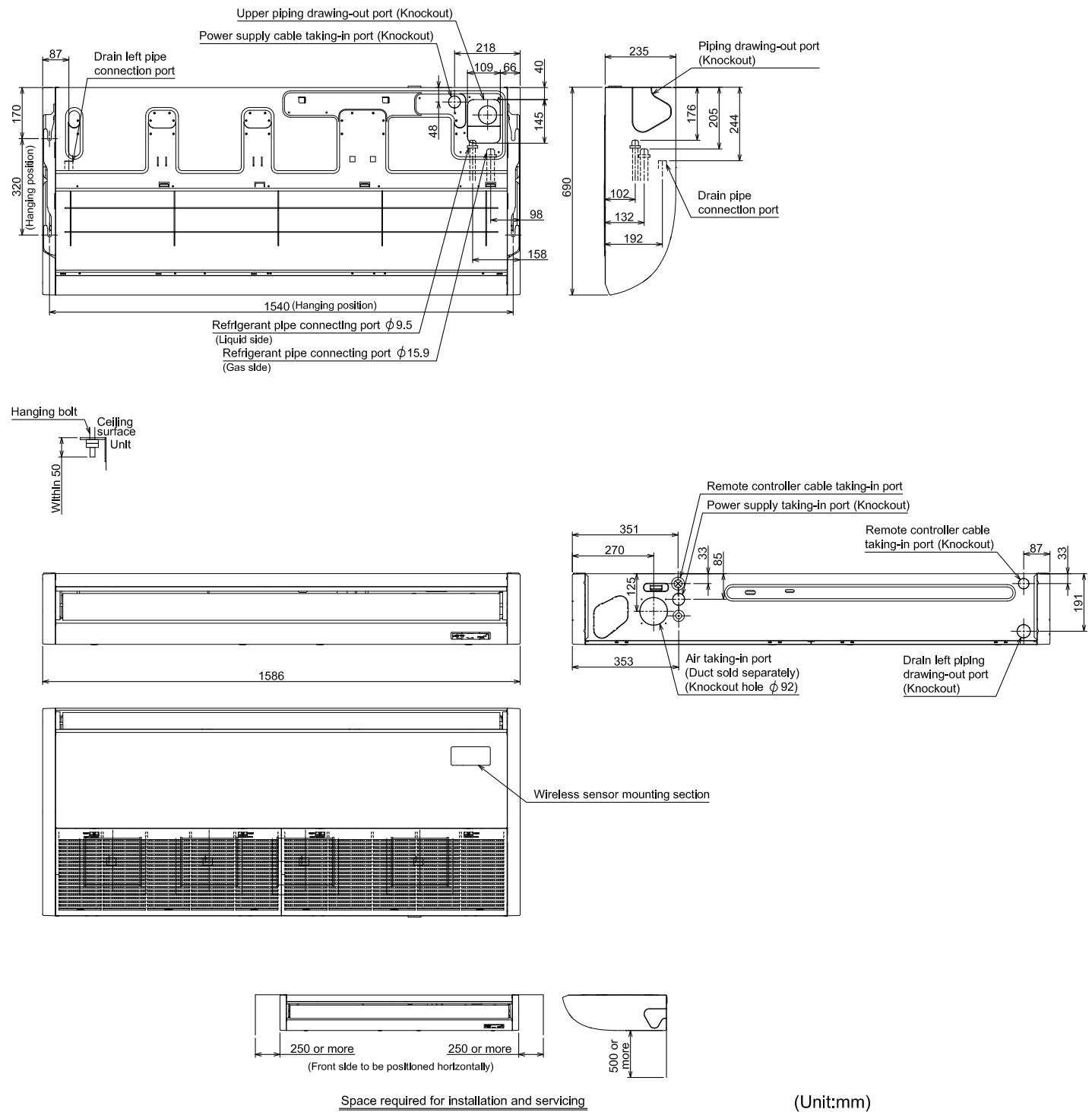
RAV-HM801CTP-E/TR



Space required for installation and servicing

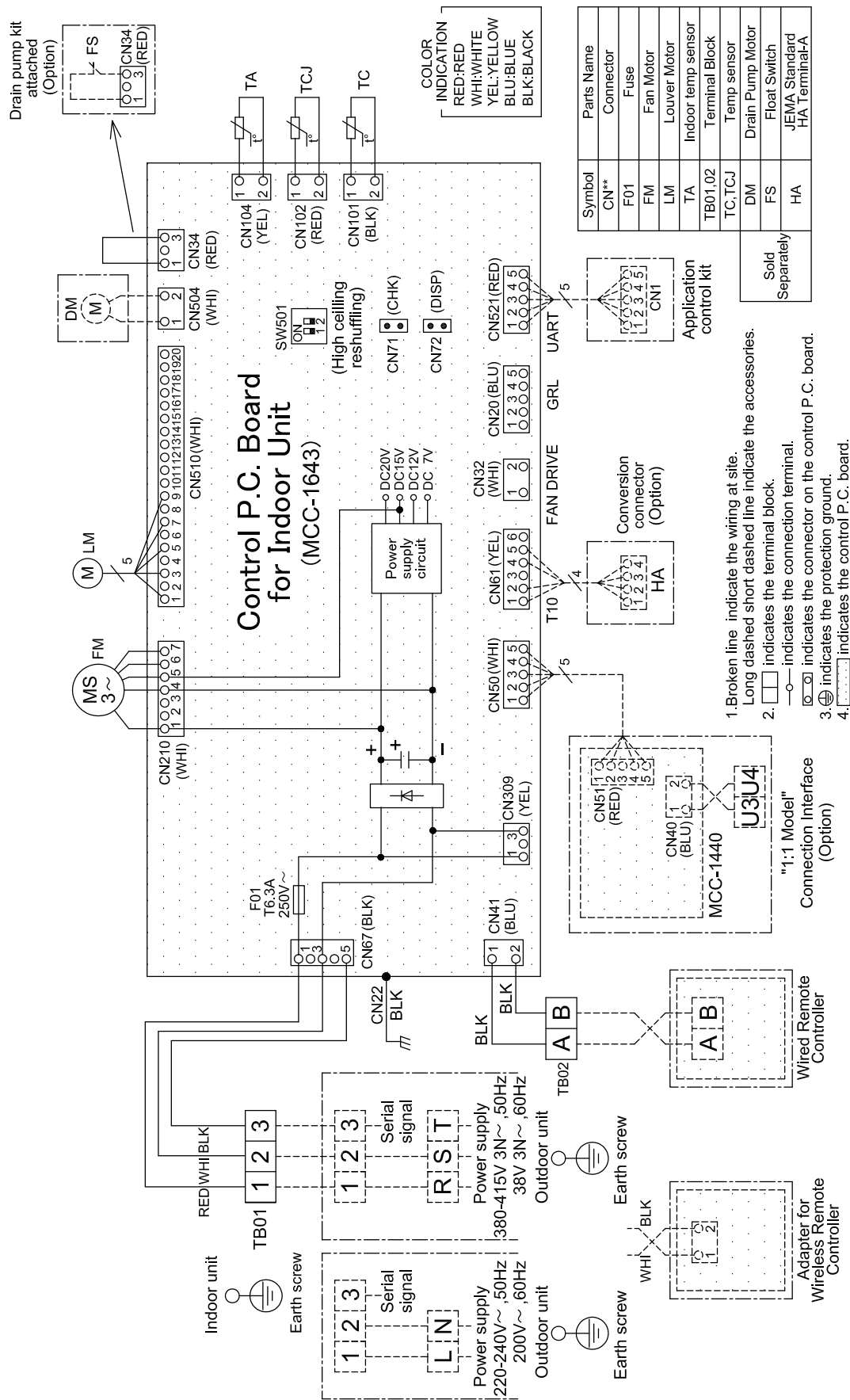
(Unit:mm)

RAV-HM1101CTP-E/TR and RAV-HM1401CTP-E/TR



2-6-3. Wiring Diagrams

RAV-HM561CTP-E/TR, RAV-HM801CTP-E/TR,
RAV-HM1101CTP-E/TR and RAV-HM1401CTP-E/TR



2-6-4. Sensible Capacity Table

Product models : RAV-GM2243AT8P-E / RAV-HM1101CTP-E (Twin)

Standard Condition

Indoor	27.0 °C DB / 19.0 °C WB
Outdoor	35.0 °C DB / 24.0 °C WB

Specification of product at standard condition.

Total Cooling Capacity (TC)	10.00 kW
Sensible Heat Capacity (SHC)	8.30 kW

Outdoor air temp. °C DB	Indoor Air temperature																	
	14.0 °C WB		15.0 °C WB		16.0 °C WB		17.0 °C WB		18.0 °C WB		19.0 °C WB		20.0 °C WB		22.0 °C WB		24.0 °C WB	
	20.0 °C DB		21.0 °C DB		23.0 °C DB		24.0 °C DB		26.0 °C DB		27.0 °C DB		28.0 °C DB		30.0 °C DB		32.0 °C DB	
	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
10.0	10.85	9.66	11.23	9.89	11.98	10.32	12.27	10.54	12.83	10.97	13.21	10.96	13.59	10.97	14.39	10.89	15.05	10.71
12.0	10.64	9.48	11.01	9.70	11.75	10.12	12.03	10.33	12.58	10.76	12.95	10.75	13.32	10.75	14.11	10.68	14.76	10.50
14.0	10.43	9.29	10.79	9.50	11.52	9.91	11.79	10.13	12.33	10.54	12.70	10.54	13.06	10.54	13.83	10.47	14.46	10.30
16.0	10.22	9.10	10.57	9.31	11.28	9.71	11.55	9.92	12.08	10.33	12.44	10.32	12.79	10.33	13.55	10.26	14.17	10.09
18.0	10.01	8.91	10.35	9.12	11.05	9.51	11.31	9.72	11.83	10.12	12.18	10.11	12.53	10.12	13.27	10.05	13.88	9.88
20.0	9.80	8.73	10.14	8.93	10.82	9.31	11.07	9.51	11.58	9.90	11.93	9.90	12.27	9.90	12.99	9.84	13.59	9.67
21.0	9.69	8.63	10.03	8.83	10.70	9.21	10.95	9.41	11.46	9.80	11.80	9.79	12.13	9.80	12.85	9.73	13.44	9.57
23.0	9.48	8.44	9.81	8.64	10.47	9.01	10.72	9.21	11.21	9.58	11.54	9.58	11.87	9.58	12.57	9.52	13.15	9.36
25.0	9.27	8.26	9.59	8.45	10.24	8.81	10.48	9.00	10.96	9.37	11.28	9.37	11.61	9.37	12.29	9.31	12.86	9.15
27.0	9.06	8.07	9.37	8.26	10.00	8.61	10.24	8.80	10.71	9.16	11.03	9.15	11.34	9.16	12.01	9.09	12.56	8.94
29.0	8.85	7.88	9.15	8.06	9.77	8.41	10.00	8.59	10.46	8.94	10.77	8.94	11.08	8.94	11.73	8.88	12.27	8.74
31.0	8.64	7.69	8.94	7.87	9.54	8.21	9.76	8.39	10.21	8.73	10.51	8.73	10.81	8.73	11.45	8.67	11.98	8.53
33.0	8.42	7.50	8.72	7.68	9.30	8.01	9.52	8.18	9.96	8.52	10.26	8.51	10.55	8.52	11.17	8.46	11.69	8.32
35.0	8.21	7.32	8.50	7.49	9.07	7.81	9.29	7.98	9.71	8.31	10.00	8.30	10.29	8.30	10.89	8.25	11.39	8.11
37.0	8.00	7.13	8.28	7.29	8.84	7.61	9.05	7.77	9.46	8.09	9.74	8.09	10.02	8.09	10.61	8.04	11.10	7.90
39.0	7.57	6.74	7.83	6.90	8.36	7.20	8.56	7.35	8.95	7.65	9.22	7.65	9.48	7.65	10.04	7.60	10.50	7.47
40.0	7.42	6.61	7.68	6.77	8.20	7.06	8.39	7.21	8.78	7.50	9.04	7.50	9.29	7.50	9.84	7.45	10.29	7.33
42.0	7.13	6.35	7.37	6.50	7.87	6.78	8.06	6.92	8.43	7.21	8.68	7.20	8.92	7.20	9.45	7.16	9.89	7.04
43.0	6.98	6.22	7.22	6.36	7.71	6.64	7.89	6.78	8.25	7.06	8.50	7.05	8.74	7.06	9.26	7.01	9.68	6.89
45.0	6.04	5.38	6.25	5.51	6.67	5.74	6.83	5.87	7.14	6.11	7.36	6.10	7.57	6.11	8.01	6.07	8.38	5.97
46.0	5.89	5.25	6.10	5.37	6.51	5.60	6.66	5.72	6.97	5.96	7.18	5.96	7.38	5.96	7.82	5.92	8.18	5.82

Product models : RAV-GM2803AT8P-E / RAV-HM1401CTP-E (Twin)

Standard Condition

Indoor	27.0 °C DB / 19.0 °C WB
Outdoor	35.0 °C DB / 24.0 °C WB

Specification of product at standard condition.

Total Cooling Capacity (TC)	12.50 kW
Sensible Heat Capacity (SHC)	9.40 kW

	Indoor Air temperature																	
Outdoor air temp.	14.0 °C WB		15.0 °C WB		16.0 °C WB		17.0 °C WB		18.0 °C WB		19.0 °C WB		20.0 °C WB		22.0 °C WB		24.0 °C WB	
	20.0 °C DB		21.0 °C DB		23.0 °C DB		24.0 °C DB		26.0 °C DB		27.0 °C DB		28.0 °C DB		30.0 °C DB		32.0 °C DB	
	°C DB	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	
10.0	13.56	11.02	14.03	11.27	14.98	11.73	15.33	11.97	16.04	12.46	16.51	12.42	16.98	12.39	17.98	12.22	18.81	11.92
12.0	13.30	10.81	13.76	11.05	14.69	11.50	15.03	11.74	15.73	12.22	16.19	12.17	16.65	12.14	17.64	11.98	18.44	11.69
14.0	13.03	10.59	13.49	10.83	14.39	11.27	14.74	11.51	15.41	11.98	15.87	11.93	16.32	11.90	17.29	11.74	18.08	11.46
16.0	12.77	10.38	13.22	10.61	14.10	11.04	14.44	11.28	15.10	11.74	15.55	11.69	15.99	11.66	16.94	11.50	17.71	11.23
18.0	12.51	10.17	12.94	10.39	13.81	10.82	14.14	11.04	14.79	11.49	15.23	11.45	15.66	11.42	16.59	11.27	17.35	11.00
20.0	12.24	9.95	12.67	10.17	13.52	10.59	13.84	10.81	14.48	11.25	14.91	11.21	15.33	11.18	16.24	11.03	16.98	10.77
21.0	12.11	9.84	12.53	10.06	13.38	10.47	13.69	10.69	14.32	11.13	14.75	11.09	15.17	11.06	16.06	10.91	16.80	10.65
23.0	11.85	9.63	12.26	9.84	13.08	10.25	13.40	10.46	14.01	10.89	14.43	10.85	14.84	10.82	15.71	10.67	16.43	10.42
25.0	11.59	9.42	11.99	9.62	12.79	10.02	13.10	10.23	13.70	10.65	14.10	10.61	14.51	10.58	15.36	10.44	16.07	10.19
27.0	11.32	9.20	11.72	9.41	12.50	9.79	12.80	10.00	13.39	10.40	13.78	10.37	14.18	10.34	15.01	10.20	15.70	9.95
29.0	11.06	8.99	11.44	9.19	12.21	9.56	12.50	9.76	13.08	10.16	13.46	10.12	13.85	10.10	14.66	9.96	15.34	9.72
31.0	10.79	8.77	11.17	8.97	11.92	9.33	12.20	9.53	12.77	9.92	13.14	9.88	13.52	9.86	14.32	9.72	14.97	9.49
33.0	10.53	8.56	10.90	8.75	11.63	9.11	11.91	9.30	12.45	9.68	12.82	9.64	13.19	9.62	13.97	9.49	14.61	9.26
35.0	10.27	8.35	10.62	8.53	11.34	8.88	11.61	9.07	12.14	9.43	12.50	9.40	12.86	9.38	13.62	9.25	14.24	9.03
37.0	10.00	8.13	10.35	8.31	11.05	8.65	11.31	8.83	11.83	9.19	12.18	9.16	12.53	9.14	13.27	9.01	13.88	8.80
39.0	8.48	6.89	8.77	7.04	9.36	7.33	9.58	7.49	10.03	7.79	10.32	7.76	10.62	7.74	11.24	7.64	11.76	7.45
40.0	8.29	6.74	8.58	6.89	9.16	7.17	9.38	7.32	9.81	7.62	10.10	7.59	10.39	7.57	11.00	7.47	11.50	7.29
42.0	7.92	6.44	8.20	6.58	8.75	6.85	8.96	7.00	9.37	7.28	9.65	7.25	9.92	7.24	10.51	7.14	10.99	6.97
43.0	7.74	6.29	8.01	6.43	8.55	6.69	8.75	6.83	9.15	7.11	9.42	7.09	9.69	7.07	10.26	6.97	10.73	6.80
45.0	6.78	5.51	7.02	5.63	7.49	5.86	7.66	5.99	8.02	6.23	8.25	6.21	8.49	6.19	8.99	6.11	9.40	5.96
46.0	6.59	5.36	6.82	5.48	7.28	5.70	7.46	5.82	7.80	6.06	8.03	6.04	8.26	6.02	8.75	5.94	9.15	5.80

Product models : RAV-GM2243AT8P-E / RAV-HM801CTP-E (Triple)

Standard Condition

Indoor	27.0 °C DB / 19.0 °C WB
Outdoor	35.0 °C DB / 24.0 °C WB

Specification of product at standard condition.

Total Cooling Capacity (TC)	7.10 kW
Sensible Heat Capacity (SHC)	5.50 kW

Outdoor air temp.	Indoor Air temperature																	
	14.0 °C WB		15.0 °C WB		16.0 °C WB		17.0 °C WB		18.0 °C WB		19.0 °C WB		20.0 °C WB		22.0 °C WB		24.0 °C WB	
°C DB	20.0 °C DB		21.0 °C DB		23.0 °C DB		24.0 °C DB		26.0 °C DB		27.0 °C DB		28.0 °C DB		30.0 °C DB		32.0 °C DB	
	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
10.0	7.70	6.44	7.97	6.58	8.51	6.85	8.71	7.00	9.11	7.28	9.38	7.26	9.65	7.25	10.22	7.17	10.68	7.01
12.0	7.55	6.31	7.82	6.45	8.34	6.72	8.54	6.86	8.93	7.14	9.20	7.12	9.46	7.11	10.02	7.03	10.48	6.88
14.0	7.40	6.19	7.66	6.32	8.18	6.59	8.37	6.73	8.76	7.00	9.01	6.98	9.27	6.97	9.82	6.89	10.27	6.74
16.0	7.25	6.06	7.51	6.20	8.01	6.45	8.20	6.59	8.58	6.86	8.83	6.84	9.08	6.83	9.62	6.75	10.06	6.61
18.0	7.10	5.94	7.35	6.07	7.85	6.32	8.03	6.45	8.40	6.72	8.65	6.70	8.90	6.69	9.42	6.61	9.85	6.47
20.0	6.95	5.81	7.20	5.94	7.68	6.19	7.86	6.32	8.22	6.58	8.47	6.56	8.71	6.55	9.22	6.47	9.65	6.33
21.0	6.88	5.75	7.12	5.88	7.60	6.12	7.78	6.25	8.14	6.51	8.38	6.49	8.62	6.48	9.12	6.40	9.54	6.27
23.0	6.73	5.62	6.96	5.75	7.43	5.99	7.61	6.11	7.96	6.36	8.19	6.35	8.43	6.34	8.93	6.26	9.33	6.13
25.0	6.58	5.50	6.81	5.62	7.27	5.85	7.44	5.98	7.78	6.22	8.01	6.21	8.24	6.20	8.73	6.12	9.13	5.99
27.0	6.43	5.37	6.65	5.49	7.10	5.72	7.27	5.84	7.61	6.08	7.83	6.06	8.05	6.06	8.53	5.99	8.92	5.86
29.0	6.28	5.25	6.50	5.37	6.94	5.59	7.10	5.71	7.43	5.94	7.65	5.92	7.87	5.91	8.33	5.85	8.71	5.72
31.0	6.13	5.12	6.34	5.24	6.77	5.46	6.93	5.57	7.25	5.80	7.46	5.78	7.68	5.77	8.13	5.71	8.50	5.58
33.0	5.98	5.00	6.19	5.11	6.61	5.32	6.76	5.43	7.07	5.66	7.28	5.64	7.49	5.63	7.93	5.57	8.30	5.45
35.0	5.83	4.87	6.03	4.98	6.44	5.19	6.59	5.30	6.90	5.52	7.10	5.50	7.30	5.49	7.73	5.43	8.09	5.31
37.0	5.68	4.75	5.88	4.85	6.28	5.06	6.42	5.16	6.72	5.37	6.92	5.36	7.12	5.35	7.54	5.29	7.88	5.17
39.0	5.53	4.49	5.56	4.59	5.94	4.78	6.08	4.88	6.36	5.08	6.54	5.07	6.73	5.06	7.13	5.00	7.45	4.89
40.0	5.27	4.40	5.45	4.50	5.82	4.69	5.96	4.79	6.23	4.98	6.42	4.97	6.60	4.96	6.99	4.90	7.31	4.80
42.0	5.06	4.23	5.24	4.32	5.59	4.50	5.72	4.60	5.98	4.79	6.16	4.77	6.34	4.76	6.71	4.71	7.02	4.61
43.0	4.96	4.14	5.13	4.23	5.47	4.41	5.60	4.50	5.86	4.69	6.03	4.67	6.21	4.67	6.57	4.61	6.87	4.51
45.0	4.29	3.58	4.44	3.66	4.74	3.82	4.85	3.90	5.07	4.06	5.22	4.05	5.37	4.04	5.69	3.99	5.95	3.91
46.0	4.18	3.50	4.33	3.57	4.62	3.72	4.73	3.80	4.95	3.96	5.09	3.95	5.24	3.94	5.55	3.89	5.80	3.81

Product models : RAV-GM2803AT8P-E / RAV-HM801CTP-E (Triple)

Standard Condition

Indoor	27.0 °C DB / 19.0 °C WB
Outdoor	35.0 °C DB / 24.0 °C WB

Specification of product at standard condition.

Total Cooling Capacity (TC)	7.10 kW
Sensible Heat Capacity (SHC)	5.50 kW

	Indoor Air temperature																	
Outdoor air temp.	14.0 °C WB		15.0 °C WB		16.0 °C WB		17.0 °C WB		18.0 °C WB		19.0 °C WB		20.0 °C WB		22.0 °C WB		24.0 °C WB	
	20.0 °C DB		21.0 °C DB		23.0 °C DB		24.0 °C DB		26.0 °C DB		27.0 °C DB		28.0 °C DB		30.0 °C DB		32.0 °C DB	
°C DB	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
10.0	7.70	6.44	7.97	6.58	8.51	6.85	8.71	7.00	9.11	7.28	9.38	7.26	9.65	7.25	10.22	7.17	10.68	7.01
12.0	7.55	6.31	7.82	6.45	8.34	6.72	8.54	6.86	8.93	7.14	9.20	7.12	9.46	7.11	10.02	7.03	10.48	6.88
14.0	7.40	6.19	7.66	6.32	8.18	6.59	8.37	6.73	8.76	7.00	9.01	6.98	9.27	6.97	9.82	6.89	10.27	6.74
16.0	7.25	6.06	7.51	6.20	8.01	6.45	8.20	6.59	8.58	6.86	8.83	6.84	9.08	6.83	9.62	6.75	10.06	6.61
18.0	7.10	5.94	7.35	6.07	7.85	6.32	8.03	6.45	8.40	6.72	8.65	6.70	8.90	6.69	9.42	6.61	9.85	6.47
20.0	6.95	5.81	7.20	5.94	7.68	6.19	7.86	6.32	8.22	6.58	8.47	6.56	8.71	6.55	9.22	6.47	9.65	6.33
21.0	6.88	5.75	7.12	5.88	7.60	6.12	7.78	6.25	8.14	6.51	8.38	6.49	8.62	6.48	9.12	6.40	9.54	6.27
23.0	6.73	5.62	6.96	5.75	7.43	5.99	7.61	6.11	7.96	6.36	8.19	6.35	8.43	6.34	8.93	6.26	9.33	6.13
25.0	6.58	5.50	6.81	5.62	7.27	5.85	7.44	5.98	7.78	6.22	8.01	6.21	8.24	6.20	8.73	6.12	9.13	5.99
27.0	6.43	5.37	6.65	5.49	7.10	5.72	7.27	5.84	7.61	6.08	7.83	6.06	8.05	6.06	8.53	5.99	8.92	5.86
29.0	6.28	5.25	6.50	5.37	6.94	5.59	7.10	5.71	7.43	5.94	7.65	5.92	7.87	5.91	8.33	5.85	8.71	5.72
31.0	6.13	5.12	6.34	5.24	6.77	5.46	6.93	5.57	7.25	5.80	7.46	5.78	7.68	5.77	8.13	5.71	8.50	5.58
33.0	5.98	5.00	6.19	5.11	6.61	5.32	6.76	5.43	7.07	5.66	7.28	5.64	7.49	5.63	7.93	5.57	8.30	5.45
35.0	5.83	4.87	6.03	4.98	6.44	5.19	6.59	5.30	6.90	5.52	7.10	5.50	7.30	5.49	7.73	5.43	8.09	5.31
37.0	5.68	4.75	5.88	4.85	6.28	5.06	6.42	5.16	6.72	5.37	6.92	5.36	7.12	5.35	7.54	5.29	7.88	5.17
39.0	4.82	4.02	4.98	4.11	5.32	4.28	5.44	4.38	5.70	4.55	5.86	4.54	6.03	4.53	6.39	4.48	6.68	4.39
40.0	4.71	3.94	4.87	4.02	5.20	4.19	5.33	4.28	5.57	4.45	5.73	4.44	5.90	4.44	6.25	4.38	6.53	4.29
42.0	4.50	3.76	4.66	3.84	4.97	4.00	5.09	4.09	5.32	4.26	5.48	4.24	5.64	4.24	5.97	4.19	6.24	4.10
43.0	4.40	3.67	4.55	3.75	4.85	3.91	4.97	3.99	5.20	4.16	5.35	4.15	5.50	4.14	5.83	4.09	6.10	4.00
45.0	3.85	3.22	3.98	3.29	4.25	3.43	4.35	3.50	4.55	3.64	4.69	3.63	4.82	3.63	5.11	3.58	5.34	3.51
46.0	3.75	3.13	3.88	3.20	4.14	3.33	4.23	3.40	4.43	3.54	4.56	3.53	4.69	3.53	4.97	3.49	5.20	3.41

Product models : RAV-GM2243AT8P-E / RAV-HM561CTP-E (Double twin)

Standard Condition

Indoor	27.0 °C DB / 19.0 °C WB
Outdoor	35.0 °C DB / 24.0 °C WB

Specification of product at standard condition.

Total Cooling Capacity (TC)	5.00 kW
Sensible Heat Capacity (SHC)	4.10 kW

	Indoor Air temperature																	
Outdoor air temp.	14.0 °C WB		15.0 °C WB		16.0 °C WB		17.0 °C WB		18.0 °C WB		19.0 °C WB		20.0 °C WB		22.0 °C WB		24.0 °C WB	
	20.0 °C DB		21.0 °C DB		23.0 °C DB		24.0 °C DB		26.0 °C DB		27.0 °C DB		28.0 °C DB		30.0 °C DB		32.0 °C DB	
°C DB	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
10.0	5.42	4.78	5.61	4.89	5.99	5.10	6.13	5.21	6.42	5.42	6.60	5.42	6.79	5.42	7.19	5.38	7.52	5.28
12.0	5.32	4.69	5.50	4.79	5.87	5.00	6.01	5.11	6.29	5.32	6.48	5.31	6.66	5.31	7.05	5.27	7.38	5.18
14.0	5.21	4.59	5.40	4.70	5.76	4.90	5.89	5.00	6.17	5.21	6.35	5.20	6.53	5.21	6.91	5.17	7.23	5.08
16.0	5.11	4.50	5.29	4.60	5.64	4.80	5.78	4.90	6.04	5.10	6.22	5.10	6.40	5.10	6.77	5.06	7.09	4.97
18.0	5.00	4.41	5.18	4.51	5.52	4.70	5.66	4.80	5.92	5.00	6.09	4.99	6.27	5.00	6.63	4.96	6.94	4.87
20.0	4.90	4.31	5.07	4.41	5.41	4.60	5.54	4.70	5.79	4.89	5.96	4.89	6.13	4.89	6.49	4.85	6.79	4.77
21.0	4.84	4.27	5.01	4.37	5.35	4.55	5.48	4.65	5.73	4.84	5.90	4.84	6.07	4.84	6.43	4.80	6.72	4.72
23.0	4.74	4.17	4.90	4.27	5.23	4.45	5.36	4.55	5.60	4.74	5.77	4.73	5.94	4.73	6.29	4.70	6.57	4.61
25.0	4.63	4.08	4.80	4.18	5.12	4.36	5.24	4.45	5.48	4.63	5.64	4.63	5.80	4.63	6.15	4.59	6.43	4.51
27.0	4.53	3.99	4.69	4.08	5.00	4.26	5.12	4.35	5.36	4.53	5.51	4.52	5.67	4.52	6.01	4.49	6.28	4.41
29.0	4.42	3.90	4.58	3.99	4.88	4.16	5.00	4.25	5.23	4.42	5.39	4.42	5.54	4.42	5.87	4.38	6.14	4.31
31.0	4.32	3.80	4.47	3.89	4.77	4.06	4.88	4.14	5.11	4.31	5.26	4.31	5.41	4.31	5.73	4.28	5.99	4.20
33.0	4.21	3.71	4.36	3.80	4.65	3.96	4.76	4.04	4.98	4.21	5.13	4.21	5.28	4.21	5.59	4.17	5.84	4.10
35.0	4.11	3.62	4.25	3.70	4.54	3.86	4.64	3.94	4.86	4.10	5.00	4.10	5.14	4.10	5.45	4.07	5.70	4.00
37.0	4.00	3.52	4.14	3.61	4.42	3.76	4.52	3.84	4.73	4.00	4.87	3.99	5.01	4.00	5.31	3.97	5.55	3.90
39.0	3.78	3.33	3.92	3.41	4.18	3.56	4.28	3.63	4.48	3.78	4.61	3.78	4.74	3.78	5.02	3.75	5.25	3.68
40.0	3.71	3.27	3.84	3.34	4.10	3.49	4.20	3.56	4.39	3.71	4.52	3.70	4.65	3.71	4.92	3.68	5.15	3.61
42.0	3.56	3.14	3.69	3.21	3.94	3.35	4.03	3.42	4.21	3.56	4.34	3.56	4.46	3.56	4.73	3.53	4.94	3.47
43.0	3.49	3.07	3.61	3.14	3.85	3.28	3.95	3.35	4.13	3.49	4.25	3.48	4.37	3.48	4.63	3.46	4.84	3.40
45.0	3.02	2.66	3.13	2.72	3.34	2.84	3.42	2.90	3.57	3.02	3.68	3.02	3.78	3.02	4.01	2.99	4.19	2.94
46.0	2.95	2.60	3.05	2.66	3.25	2.77	3.33	2.83	3.49	2.94	3.59	2.94	3.69	2.94	3.91	2.92	4.09	2.87

Product models : RAV-GM2803AT8P-E / RAV-HM801CTP-E (Double twin)

Standard Condition

Indoor	27.0 °C DB / 19.0 °C WB
Outdoor	35.0 °C DB / 24.0 °C WB

Specification of product at standard condition.

Total Cooling Capacity (TC)	7.10 kW
Sensible Heat Capacity (SHC)	5.50 kW

	Indoor Air temperature																	
Outdoor air temp.	14.0 °C WB		15.0 °C WB		16.0 °C WB		17.0 °C WB		18.0 °C WB		19.0 °C WB		20.0 °C WB		22.0 °C WB		24.0 °C WB	
	20.0 °C DB		21.0 °C DB		23.0 °C DB		24.0 °C DB		26.0 °C DB		27.0 °C DB		28.0 °C DB		30.0 °C DB		32.0 °C DB	
°C DB	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
10.0	7.70	6.44	7.97	6.58	8.51	6.85	8.71	7.00	9.11	7.28	9.38	7.26	9.65	7.25	10.22	7.17	10.68	7.01
12.0	7.55	6.31	7.82	6.45	8.34	6.72	8.54	6.86	8.93	7.14	9.20	7.12	9.46	7.11	10.02	7.03	10.48	6.88
14.0	7.40	6.19	7.66	6.32	8.18	6.59	8.37	6.73	8.76	7.00	9.01	6.98	9.27	6.97	9.82	6.89	10.27	6.74
16.0	7.25	6.06	7.51	6.20	8.01	6.45	8.20	6.59	8.58	6.86	8.83	6.84	9.08	6.83	9.62	6.75	10.06	6.61
18.0	7.10	5.94	7.35	6.07	7.85	6.32	8.03	6.45	8.40	6.72	8.65	6.70	8.90	6.69	9.42	6.61	9.85	6.47
20.0	6.95	5.81	7.20	5.94	7.68	6.19	7.86	6.32	8.22	6.58	8.47	6.56	8.71	6.55	9.22	6.47	9.65	6.33
21.0	6.88	5.75	7.12	5.88	7.60	6.12	7.78	6.25	8.14	6.51	8.38	6.49	8.62	6.48	9.12	6.40	9.54	6.27
23.0	6.73	5.62	6.96	5.75	7.43	5.99	7.61	6.11	7.96	6.36	8.19	6.35	8.43	6.34	8.93	6.26	9.33	6.13
25.0	6.58	5.50	6.81	5.62	7.27	5.85	7.44	5.98	7.78	6.22	8.01	6.21	8.24	6.20	8.73	6.12	9.13	5.99
27.0	6.43	5.37	6.65	5.49	7.10	5.72	7.27	5.84	7.61	6.08	7.83	6.06	8.05	6.06	8.53	5.99	8.92	5.86
29.0	6.28	5.25	6.50	5.37	6.94	5.59	7.10	5.71	7.43	5.94	7.65	5.92	7.87	5.91	8.33	5.85	8.71	5.72
31.0	6.13	5.12	6.34	5.24	6.77	5.46	6.93	5.57	7.25	5.80	7.46	5.78	7.68	5.77	8.13	5.71	8.50	5.58
33.0	5.98	5.00	6.19	5.11	6.61	5.32	6.76	5.43	7.07	5.66	7.28	5.64	7.49	5.63	7.93	5.57	8.30	5.45
35.0	5.83	4.87	6.03	4.98	6.44	5.19	6.59	5.30	6.90	5.52	7.10	5.50	7.30	5.49	7.73	5.43	8.09	5.31
37.0	5.68	4.75	5.88	4.85	6.28	5.06	6.42	5.16	6.72	5.37	6.92	5.36	7.12	5.35	7.54	5.29	7.88	5.17
39.0	4.82	4.02	4.98	4.11	5.32	4.28	5.44	4.38	5.70	4.55	5.86	4.54	6.03	4.53	6.39	4.48	6.68	4.39
40.0	4.71	3.94	4.87	4.02	5.20	4.19	5.33	4.28	5.57	4.45	5.73	4.44	5.90	4.44	6.25	4.38	6.53	4.29
42.0	4.50	3.76	4.66	3.84	4.97	4.00	5.09	4.09	5.32	4.26	5.48	4.24	5.64	4.24	5.97	4.19	6.24	4.10
43.0	4.40	3.67	4.55	3.75	4.85	3.91	4.97	3.99	5.20	4.16	5.35	4.15	5.50	4.14	5.83	4.09	6.10	4.00
45.0	3.85	3.22	3.98	3.29	4.25	3.43	4.35	3.50	4.55	3.64	4.69	3.63	4.82	3.63	5.11	3.58	5.34	3.51
46.0	3.75	3.13	3.88	3.20	4.14	3.33	4.23	3.40	4.43	3.54	4.56	3.53	4.69	3.53	4.97	3.49	5.20	3.41

2-6-5. Part load performance

Combination <Rated condition>

Indoor: RAV-HM1101CTP-E x 2, RAV-HM801CTP-E x 3, RAV-HM561CTP-E x4
Outdoor: RAV-GM2243AT8(J)P-E

Operation range		Cooling		Heating	
		Q	P	Q	P
MINIMUM	W	4600	1300	4600	1250
RATING	W	20000	6890	22400	6910

Cooling

Outdoor Temperature DB (°C)	Parts Load (%)																			
	100		90		80		70		60		50		40		30		20		10	
	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P
20	23850	5409	21465	4839	19080	4269	16695	3699	14310	3129	11925	2559	9540	1989	7155	1419	5486	1021	5486	1021
21	23593	5507	21234	4927	18875	4347	16515	3767	14156	3186	11797	2606	9437	2026	7078	1445	5426	1039	5426	1039
22	23337	5606	21003	5015	18669	4425	16336	3834	14002	3243	11668	2653	9335	2062	7001	1471	5367	1058	5367	1058
23	23080	5705	20772	5104	18464	4503	16156	3902	13848	3300	11540	2699	9232	2098	6924	1497	5308	1076	5308	1076
24	22823	5804	20541	5192	18259	4581	15976	3969	13694	3358	11412	2746	9129	2135	6847	1523	5249	1095	5249	1095
25	22567	5902	20310	5281	18053	4659	15797	4037	13540	3415	11283	2793	9027	2171	6770	1549	5190	1114	5190	1114
26	22310	6001	20079	5369	17848	4737	15617	4104	13386	3472	11155	2840	8924	2207	6693	1575	5131	1132	5131	1132
27	22053	6100	19848	5457	17643	4814	15437	4172	13232	3529	11027	2886	8821	2244	6616	1601	5072	1151	5072	1151
28	21797	6199	19617	5546	17437	4892	15258	4239	13078	3586	10898	2933	8719	2280	6539	1627	5013	1170	5013	1170
29	21540	6297	19386	5634	17232	4970	15078	4307	12924	3643	10770	2980	8616	2316	6462	1653	4954	1188	4954	1188
30	21283	6396	19155	5722	17027	5048	14898	4374	12770	3700	10642	3026	8513	2353	6385	1679	4895	1207	4895	1207
31	21027	6495	18924	5811	16821	5126	14719	4442	12616	3758	10513	3073	8411	2389	6308	1705	4836	1225	4836	1225
32	20770	6594	18693	5899	16616	5204	14539	4509	12462	3815	10385	3120	8308	2425	6231	1730	4777	1244	4777	1244
33	20513	6692	18462	5987	16411	5282	14359	4577	12308	3872	10257	3167	8205	2462	6154	1756	4718	1263	4718	1263
34	20257	6791	18231	6076	16205	5360	14180	4645	12154	3929	10128	3213	8103	2498	6077	1782	4659	1281	4659	1281
35	20000	6890	18000	6164	16000	5438	14000	4712	12000	3986	10000	3260	8000	2534	6000	1808	4600	1300	4600	1300
36	19743	6989	17769	6252	15795	5516	13820	4780	11846	4043	9872	3307	7897	2570	5923	1834	4541	1319	4541	1319
37	19487	7088	17538	6341	15589	5594	13641	4847	11692	4100	9743	3354	7795	2607	5846	1860	4482	1337	4482	1337
38	19230	7186	17307	6429	15384	5672	13461	4915	11538	4158	9615	3400	7692	2643	5769	1886	4423	1356	4423	1356
39	18431	6764	16588	6052	14745	5339	12902	4626	11059	3913	9216	3201	7373	2488	5529	1775	4239	1276	4239	1276
40	18072	6764	16265	6052	14458	5339	12650	4626	10843	3913	9036	3201	7229	2488	5422	1775	4157	1276	4157	1276
41	17713	6764	15941	6052	14170	5339	12399	4626	10628	3913	8856	3201	7085	2488	5314	1775	4074	1276	4074	1276
42	17353	6764	15618	6052	13883	5339	12147	4626	10412	3913	8677	3201	6941	2488	5206	1775	3991	1276	3991	1276
43	16994	6764	15294	6052	13595	5339	11896	4626	10196	3913	8497	3201	6797	2488	5098	1775	3909	1276	3909	1276
44	15070	5261	13563	4707	12056	4152	10549	3598	9042	3044	7535	2489	6028	1935	4521	1381	3466	993	3466	993
45	14711	5261	13240	4707	11768	4152	10297	3598	8826	3044	7355	2489	5884	1935	4413	1381	3383	993	3383	993
46	14351	5261	12916	4707	11481	4152	10046	3598	8611	3044	7176	2489	5740	1935	4305	1381	3301	993	3301	993

Heating

Outdoor Temperature DB (°C)	Parts Load (%)																			
	100		90		80		70		60		50		40		30		20		10	
	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P
-27	6069	2779	5462	2493	4855	2206	4248	1920	3641	1633	3034	1347	2428	1060	1821	774	1246	503	1246	503
-26	6444	2896	5800	2598	5155	2299	4511	2001	3866	1702	3222	1404	2578	1105	1933	806	1323	524	1323	524
-25	6819	3013	6137	2703	5455	2392	4774	2081	4092	1771	3410	1460	2728	1150	2046	839	1400	545	1400	545
-24	7195	3130	6475	2808	5756	2485	5036	2162	4317	1840	3597	1517	2878	1194	2158	872	1477	566	1477	566
-23	7570	3247	6813	2913	6056	2578	5299	2243	4542	1908	3785	1574	3028	1239	2271	904	1555	587	1555	587
-22	7945	3364	7151	3017	6356	2671	5562	2324	4767	1977	3973	1630	3178	1284	2384	937	1632	609	1632	609
-21	8320	3481	7488	3122	6656	2764	5824	2405	4992	2046	4160	1687	3328	1328	2496	969	1709	630	1709	630
-20	8696	3598	7826	3227	6957	2856	6087	2486	5217	2115	4348	1744	3478	1373	2609	1002	1786	651	1786	651
-19	9094	3699	8185	3318	7275	2937	6366	2555	5457	2174	4547	1793	3638	1411	2728	1030	1868	669	1868	669
-18	9493	3800	8543	3409	7594	3017	6645	2625	5696	2233	4746	1842	3797	1450	2848	1058	1949	687	1949	687
-17	9891	3901	8902	3499	7913	3097	6924	2695	5935	2293	4946	1891	3957	1489	2967	1086	2031	706	2031	706
-16	10290	4003	9261	3590	8232	3177	7203	2765	6174	2352	5145	1940	4116	1527	3087	1115	2113	724	2113	724
-15	10688	4104	9620	3681	8551	3258	7482	2835	6413	2412	5344	1989	4275	1566	3207	1143	2195	742	2195	742
-14	10994	4229	9895	3793	8795	3357	7696	2921	6596	2485	5497	2049	4398	1613	3298	1178	2258	765	2258	765
-13	11300	4354	10170	3905	9040	3456	7910	3007	6780	2559	5650	2110	4520	1661	3390	1212	2320	788	2320	788
-12	11606	4479	10445	4017	9284	3556	8124	3094	6963	2632	5803	2171	4642	1709	3482	1247	2383	810	2383	810
-11	11911	4604	10720	4129	9529	3655	8338	3180	7147	2706	5956	2231	4764	1757	3573	1282	2446	833	2446	833
-10	12217	4729	10995	4242	9774	3754	8552	3267	7330	2779	6108	2292	4887	1804	3665	1317	2509	855	2509	855
-9	12523	4854	11270	4354	10018	3853	8766	3353	7514	2853	6261	2352	5009	1852	3757	1352	2572	878	2572	878
-8	12828	4979	11546	4466	10263	3953	8980	3439	7697	2926	6414	2413	5131	1900	3849	1386	2634	901	2634	901
-7	13134	5104	11821	4578	10507	4052	9194	3526	7880	3000	6567	2474	5254	1947	3940	1421	2697	923	2697	923
-6	13478	5217	12130	4679	10783	4141	9435	3603	8087	3066	6739	2528	5391	1990	4043	1453	2768	944	2768	944
-5	13822	5329	12440	4780	11058	4230	9676	3681	8293	3132	6911	2582	5529	2033	4147	1484	2839	964	2839	964
-4	14167	5441	12750	4880	11333	4319	9917	3759	8500	3198	7083	2637	5667	2076	4250	1515	2909	984	2909	984
-3	14511	5554	13060	4981	11609	4409	10158	3836	8707	3264	7255	2691	5804	2119	4353	1546	2980	1005	2980	1005
-2	14855	5666	13370	5082	11884	4498	10399	3914	8913	3330	7428	2746	5942	2162	4457	1578	3051	1025	3051	1025
-1	15199	5778	13679	5183	12159	4587	10639	3991	9120	3396	7600	2800	6080	2205	4560	1609	3121	1045	3121	1045
0	15543	5890	13989	5283	12435	4676	10880	4069	9326	3462	7772	2855	6217	2247	4663	1640	3192	1066	3192	1066
1	15888	6003	14299	5384	12710	4765	11121	4146	9533	3528	7944	2909	6355	2290	4766	1671	3263	1086	3263	1086
2	16232	6115	14609	5485	12986	4854	11362	4224	9739	3594	8116	2963	6493	2333	4870	1703	3333	1106	3333	1106
3	16498	6197	14848	5558	13198	4920	11548	4281	9899	3642	8249	3003	6599	2364	4949	1726	3388	1121	3388	1121
4	16764	6280	15087	5632	13411	4985	11735	4338	10058	3690	8382	3043	6705	2396	5029	1749	3434	1136	3443	1136
5	17030	6362	15327	5706	13624	5050	11921	4394	10218	3739	8515	3083	6812	2427	5109	1771	3497	1151	3497	1151
6	21822	6803	19640	6102	17458	5401	15275	4699	13093	3998	10911	3297	8729	2596	6547	1894	4481	1231	4481	1231
7	22400	6910	20160	6198	17920	5485	15680	4773	13440	4061	11200	3349	8960	2636	6720	1924	4600	1250	4600	1250
8	22978	7017	20680	6290	18382	5570	16085	4847	13787	4124	11489	3401	9191	2677	6893	1954	4719	1269	4719	1269
9	23556	7124	21201	6390	18845	5655	16489	4921	14134	4187	11778	3452	9422	2718	7067	1984	4837	1289	4837	1289
10	24134	7231	21721	6486	19307	5740	16894	4995	14481	4250	12067	3504	9654	2759	7240	2013	4956	1308	4956	1308
11	24712	7338	22241	6582	19770	5825	17299	5069	14827	4312	12356	3556	9885	2800	7414	2043	5075	1327	5075	1327
12	25290	7445	22761	6678	20232	5910	17703	5143	15174	4375	12645	3608	10116	2840	7587	2073	5194	1347	5194	1347
13	25868	7552	23282	6774	20695	5995	18108	5217	15521	4438	12934	3660	10347	2881	7761	2103	5312	1366	5312	1366
14	26446	7659	23802	6869	21157	6080	18513	5291	15868	4501	13223	3712	10579	2922	7934	2133	5431	1385	5431	1385
15	27025	7766	24322	6965	21620	6165	18917	5364	16215	4564	13512	3763	10810	2963	8107	2162	5550	1405	5550	1405
16	27603	7873	24842	7061	22082	6250	19322	5438	16562	4627	13801	3815	11041	3004	8281	2192	5668	1424	5668	1424
17	28181	7980	25363	7157	22545	6335	19726	5512	16908	4690	14090	3867	11272	3045	8454	2222	5787	1444	5787	1444
18	28759	8087	25883	7253	23007	6420	20131	5586	17255	4753	14379	3919	11503	3085	8628	2252	5906	1463	5906	1463
19	29337	8194	26403	7349	23469	6505	20536	5660	17602	4815	14668	3971	11735	3126	8801	2282	6025	1482	6025	1482
20	29915	8301	26923	7445	23932	6590	20940	5734	17949	4878	14957	4023	11966	3167	8974	2311	6143	1502	6143	1502
21	30493	8408	27444	7541	24394	6675	21345	5808	18296	4941	15246	4075	12197	3208	9148	2341	6262	1521	6262	1521
22	31071	8515	27964	7637	24857	6760	21750	5882	18643	5004	15535	4126	12428	3249	9321	2371	6381	1540	6381	1540
23	31649	8622	28484	7733	25319	6844	22154	5956	18989	5067	15825	4178	12660	3290	9495	2401	6499	1560	6499	1560
24	32227	8729	29004	7829	25782	6929	22559	6030	19336	5130	16114	4230	12891	3330	9668	2431	6618	1579	6618	1579

Combination <Capacity range (Max)>

Indoor: RAV-HM1101CTP-E x 2, RAV-HM801CTP-E x 3, RAV-HM561CTP-E x4
Outdoor: RAV-GM2243AT8(J)P-E

Operation range	Cooling		Heating	
	Q	P	Q	P
MINIMUM	W 4600	1300	4600	1250
RATING	W 20000	6890	22400	6910
MAXIMUM	W 22400	8960	25000	8330

Cooling

Outdoor Temperature DB (°C)	Parts Load (%)																	
	100		90		80		70		60		50		40		30		20	
	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P
20	26801	7085	24120	6323	21440	5560	18760	4798	16080	4036	13400	3274	10720	2512	8040	1749	5504	1028
21	26512	7214	23861	6438	21210	5662	18558	4886	15907	4110	13256	3334	10605	2557	7954	1781	5444	1047
22	26224	7344	23602	6554	20979	5764	18357	4973	15724	4183	13112	3393	10489	2603	7867	1813	5385	1065
23	25935	7473	23342	6669	20748	5865	18155	5061	15561	4257	12968	3453	10374	2649	7781	1845	5326	1084
24	25647	7602	23082	6784	20517	5967	17953	5149	15388	4331	12823	3513	10259	2695	7694	1877	5267	1103
25	25358	7732	22823	6900	20287	6068	17751	5236	15215	4404	12679	3573	10143	2741	7608	1909	5208	1122
26	25070	7861	22563	7015	20056	6170	17549	5324	15042	4478	12535	3632	10028	2787	7521	1941	5148	1141
27	24782	7990	22303	7131	19825	6271	17347	5412	14869	4552	12391	3692	9913	2833	7434	1973	5089	1159
28	24493	8120	22044	7246	19595	6373	17145	5499	14696	4626	12247	3752	9797	2878	7348	2005	5030	1178
29	24205	8249	21784	7362	19364	6474	16943	5587	14523	4699	12102	3812	9682	2924	7261	2037	4971	1197
30	23916	8379	21525	7477	19133	6576	16741	5674	14350	4773	11958	3872	9567	2970	7175	2069	4911	1216
31	23628	8508	21265	7593	18902	6677	16540	5762	14177	4847	11814	3931	9451	3016	7088	2101	4852	1234
32	23339	8637	21006	7708	18672	6779	16338	5850	14004	4920	11670	3991	9336	3062	7002	2133	4793	1253
33	23051	8767	20746	7824	18441	6880	16136	5937	13831	4994	11526	4051	9220	3108	6915	2165	4734	1272
34	22763	8896	20486	7939	18210	6982	15934	6025	13658	5068	11381	4111	9105	3154	6829	2197	4674	1291
35	22400	8960	20160	7996	17920	7032	15680	6068	13440	5104	11200	4140	8960	3176	6720	2212	4600	1300
36	21971	8960	19774	7996	17577	7032	15379	6068	13182	5104	10985	4140	8788	3176	6591	2212	4512	1300
37	21549	8960	19394	7996	17239	7032	15084	6068	12929	5104	10774	4140	8620	3176	6465	2212	4425	1300
38	21134	8960	19021	7996	16908	7032	14794	6068	12681	5104	10567	4140	8454	3176	6340	2212	4340	1300
39	17568	5973	15811	5331	14054	4688	12298	4045	10541	3403	8784	2760	7027	2118	5270	1475	3608	867
40	17225	5973	15503	5331	13780	4688	12058	4045	10335	3403	8613	2760	6890	2118	5168	1475	3537	867
41	16883	5973	15194	5331	13506	4688	11818	4045	10130	3403	8441	2760	6753	2118	5065	1475	3467	867
42	16540	5973	14886	5331	13232	4688	11578	4045	9924	3403	8270	2760	6616	2118	4962	1475	3397	867
43	16198	5973	14578	5331	12958	4688	11338	4045	9719	3403	8099	2760	6479	2118	4859	1475	3326	867
44	14364	4646	12928	4146	11491	3646	10055	3146	8618	2647	7182	2147	5746	1647	4309	1147	2950	674
45	14021	4646	12619	4146	11217	3646	9815	3146	8413	2647	7011	2147	5609	1647	4206	1147	2879	674
46	13679	4646	12311	4146	10943	3646	9575	3146	8207	2647	6839	2147	5472	1647	4104	1147	2809	674

Heating

Outdoor Temperature DB (°C)	Parts Load (%)																			
	100		90		80		70		60		50		40		30		20		10	
	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P
-27	6700	3672	6030	3290	5360	2907	4690	2525	4020	2142	3350	1760	2680	1377	2010	995	1340	612	1233	551
-26	7114	3827	6403	3428	5691	3030	4980	2631	4269	2232	3557	1834	2846	1435	2134	1037	1423	638	1309	574
-25	7529	3981	6776	3567	6023	3152	5270	2737	4517	2323	3764	1908	3011	1493	2259	1078	1506	664	1385	597
-24	7943	4136	7149	3705	6354	3274	5560	2844	4766	2413	3971	1982	3177	1551	2383	1120	1589	690	1461	621
-23	8357	4291	7521	3844	6686	3397	5850	2950	5014	2503	4179	2056	3343	1609	2507	1162	1671	715	1538	644
-22	8771	4445	7894	3982	7017	3519	6140	3056	5263	2593	4386	2130	3509	1667	2631	1204	1754	741	1614	667
-21	9186	4600	8267	4121	7349	3642	6430	3162	5511	2683	4593	2204	3674	1725	2756	1246	1837	767	1690	690
-20	9600	4754	8640	4259	7680	3764	6720	3269	5760	2774	4800	2278	3840	1783	2880	1288	1920	793	1766	713
-19	10040	4888	9036	4379	8032	3870	7028	3361	6024	2851	5020	2342	4016	1833	3012	1324	2008	815	1847	733
-18	10480	5022	9432	4498	8384	3975	7336	3452	6288	2929	5240	2406	4192	1883	3144	1360	2096	837	1928	754
-17	10920	5155	9828	4618	8736	4081	7644	3544	6552	3007	5460	2470	4368	1933	3276	1396	2184	859	2009	774
-16	11360	5289	10224	4738	9088	4187	7952	3636	6816	3085	5680	2534	4544	1983	3408	1433	2272	882	2090	794
-15	11800	5422	10620	4857	9440	4293	8260	3728	7080	3163	5900	2598	4720	2034	3540	1469	2360	904	2171	814
-14	12138	5587	10924	5005	9710	4423	8496	3841	7283	3259	6069	2678	4855	2096	3641	1514	2428	932	2233	838
-13	12475	5753	11228	5153	9980	4554	8733	3955	7485	3356	6238	2757	4990	2158	3743	1558	2495	959	2295	863
-12	12813	5918	11531	5302	10250	4685	8969	4069	7688	3452	6406	2836	5125	2219	3844	1603	2563	987	2358	888
-11	13150	6083	11835	5450	10520	4816	9205	4182	7890	3545	6575	2915	5260	2281	3945	1648	2630	1014	2420	913
-10	13488	6248	12139	5598	10790	4947	9441	4296	8093	3645	6744	2994	5395	2343	4046	1693	2698	1042	2482	938
-9	13825	6414	12443	5746	11060	5078	9678	4410	8295	3742	6913	3073	5530	2405	4148	1737	2765	1069	2544	962
-8	14163	6579	12746	5894	11330	5208	9914	4523	8498	3838	7081	3153	5665	2467	4249	1782	2833	1097	2606	987
-7	14500	6744	13050	6042	11600	5339	10150	4637	8700	3934	7250	3232	5800	2529	4350	1827	2900	1124	2668	1012
-6	14880	6893	13392	6175	11904	5457	10416	4739	8928	4021	7440	3303	5952	2585	4464	1867	2976	1149	2738	1034
-5	15260	7041	13734	6308	12208	5574	10682	4841	9156	4108	7630	3374	6104	2641	4578	1907	3052	1174	2808	1057
-4	15640	7189	14076	6441	12512	5692	10948	4943	9384	4194	7820	3445	6256	2696	4692	1948	3128	1199	2878	1079
-3	16020	7338	14418	6574	12816	5809	11214	5045	9612	4281	8010	3516	6408	2752	4806	1988	3204	1223	2948	1101
-2	16400	7486	14760	6706	13120	5927	11480	5147	9840	4367	8200	3587	6560	2808	4920	2028	3280	1248	3018	1123
-1	16780	7635	15102	6839	13424	6044	11746	5249	10068	4454	8390	3659	6712	2863	5034	2068	3356	1273	3088	1146
0	17160	7783	15444	6972	13728	6162	12012	5351	10296	4540	8580	3730	6864	2919	5148	2108	3432	1298	3157	1168
1	17540	7931	15786	7105	14032	6279	12278	5453	10524	4627	8770	3801	7016	2975	5262	2149	3508	1322	3227	1190
2	17920	8080	16128	7238	14336	6397	12544	5555	10752	4713	8960	3872	7168	3030	5376	2189	3584	1347	3297	1212
3	18380	8246	16542	7387	14704	6529	12866	5670	11028	4811	9190	3952	7352	3093	5514	2234	3676	1375	3382	1237
4	18846	8413	16961	7537	15077	6660	13192	5784	11307	4908	9423	4032	7538	3155	5654	2279	3769	1403	3468	1262
5	19317	8580	17385	7686	15454	6792	13522	5899	11590	5005	9658	4111	7727	3218	5795	2324	3863	1430	3554	1287
6	24355	8201	21919	7347	19484	6493	17048	5638	14613	4784	12177	3930	9742	3076	7306	2222	4871	1367	4481	1231
7	25000	8330	22500	7462	20000	6595	17500	5727	15000	4859	12500	3992	10000	3124	7500	2256	5000	1389	4600	1250
8	25645	8459	23081	7578	20516	6697	17952	5816	15387	4935	12823	4054	10258	3172	7694	2291	5129	1410	4719	1269
9	26290	8588	23661	7693	21032	6799	18403	5904	15774	5010	13145	4115	10516	3221	7887	2326	5258	1432	4837	1289
10	26935	8717	24242	7809	21548	6901	18855	5993	16161	5085	13468	4177	10774	3269	8081	2361	5387	1453	4956	1308
11	27581	8846	24823	7925	22065	7003	19306	6082	16548	5160	13790	4239	11032	3318	8274	2396	5516	1475	5075	1327
12	28226	8975	25403	8040	22581	7105	19758	6170	16935	5236	14113	4301	11290	3366	8468	2431	5645	1496	5194	1347
13	28871	9104	25984	8156	23097	7207	20210	6259	17323	5311	14435	4363	11548	3414	8661	2466	5774	1518	5312	1366
14	22966	5325	22069	4770	18373	4215	16076	3661	13780	3106	11483	2552	9186	1997	6890	1442	4593	888	4226	799
15	23342	5325	21608	4770	18674	4215	16340	3661	14005	3106	11671	2552	9337	1997	7003	1442	4668	888	4295	799
16	23717	5325	21345	4770	18973	4215	16602	3661	14230	3106	11858	2552	9487	1997	7115	1442	4743	888	4364	799
17	24090	5325	21681	4770	19272	4215	16863	3661	14454	3106	12045	2552	9636	1997	7227	1442	4818	888	4432	799
18	24460	5325	22014	4770	19568	4215	17122	3661	14676	3106	12230	2552	9784	1997	7338	1442	4892	888	4501	799
19	24830	5325	22347	4770	19864	4215	17381	3661	14898	3106	12415	2552	9932	1997	7449	1442	4966	888	4569	799
20	25197	5325	22678	4770	20158	4215	17638	3661	15118	3106	12599	2552	10079	1997	7559	1442	5039	888	4636	799
21	25563	5325	23007	4770	20451	4215	17894	3661	15338	3106	12782	2552	10225	1997	7669	1442	5113	888	4704	799
22	25928	5325	23335	4770	20742	4215	18150	3661	15557	3106	12964	2552	10371	1997	7778	1442	5186	888	4771	799
23	26291	5325	23662	4770	21033	4215	18404	3661	15775	3106	13146	2552	10516	1997	7887	1442	5258	888	4838	799
24	26653	5325	23988	4770	21322	4215	18657	3661	15992	3106	13326	2552	10661	1997	7996	1442	5331	888	4904	799

Combination <Rated condition>

Indoor: RAV-HM1101CTP-E x 1, RAV-HM801CTP-E x 3, RAV-HM561CTP-E x 4
Outdoor: RAV-GM2243AT8(J)P-E

Operation range	Cooling		Heating	
	Q	P	Q	P
MINIMUM	W 4600	1300	4600	1250
Night operation 1	W 10000	1964	11200	2219

*When outside air temperature is 40°C or more, the night operation does not operate.

Outdoor Temperature DB (°C)	Parts Load (%)															
	100		90		80		70		60		50		40		30	
	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P
20	11925	1542	10733	1445	9540	1349	8348	1252	7155	1156	5963	1059	5486	1021	5486	1021
21	11797	1570	10617	1472	9437	1373	8258	1275	7078	1177	5898	1078	5426	1039	5426	1039
22	11668	1598	10502	1498	9335	1398	8168	1298	7001	1198	5834	1098	5367	1058	5367	1058
23	11540	1626	10386	1524	9232	1423	8078	1321	6924	1219	5770	1117	5308	1076	5308	1076
24	11412	1654	10271	1551	9129	1447	7988	1344	6847	1240	5706	1136	5249	1095	5249	1095
25	11283	1682	10155	1577	9027	1472	7898	1366	6770	1261	5642	1156	5190	1114	5190	1114
26	11155	1711	10040	1604	8924	1496	7809	1389	6693	1282	5578	1175	5131	1132	5131	1132
27	11027	1739	9924	1630	8821	1521	7719	1412	6616	1303	5513	1194	5072	1151	5072	1151
28	10898	1767	9809	1656	8719	1546	7629	1435	6539	1324	5449	1214	5013	1170	5013	1170
29	10770	1795	9693	1683	8616	1570	7539	1458	6462	1346	5385	1233	4954	1188	4954	1188
30	10642	1823	9578	1709	8513	1595	7449	1481	6385	1367	5321	1252	4895	1207	4895	1207
31	10513	1851	9462	1735	8411	1620	7359	1504	6308	1388	5257	1272	4836	1225	4836	1225
32	10385	1880	9347	1762	8308	1644	7270	1527	6231	1409	5193	1291	4777	1244	4777	1244
33	10257	1908	9231	1788	8205	1669	7180	1549	6154	1430	5128	1311	4718	1263	4718	1263
34	10128	1936	9116	1815	8103	1693	7090	1572	6077	1451	5064	1330	4659	1281	4659	1281
35	10000	1964	9000	1841	8000	1718	7000	1595	6000	1472	5000	1349	4600	1300	4600	1300
36	9872	1992	8885	1867	7897	1743	6910	1618	5923	1493	4936	1369	4541	1319	4541	1319
37	9743	2020	8769	1894	7795	1767	6820	1641	5846	1514	4872	1388	4482	1337	4482	1337
38	9615	2048	8654	1920	7692	1792	6731	1664	5769	1535	4808	1407	4423	1356	4423	1356
39	9216	1928	8294	1807	7373	1687	6451	1566	5529	1445	4608	1325	4239	1276	4239	1276
40*	18072	6764	16265	6052	14458	5339	12650	4626	10843	3913	9036	3201	7229	2488	5422	1775
41*	17713	6764	15941	6052	14170	5339	12399	4626	10628	3913	8856	3201	7085	2488	5314	1775
42*	17353	6764	15618	6052	13883	5339	12147	4626	10412	3913	8677	3201	6941	2488	5206	1775
43*	16994	6764	15294	6052	13595	5339	11896	4626	10196	3913	8497	3201	6797	2488	5098	1775
44*	15070	5261	13563	4707	12056	4152	10549	3598	9042	3044	7535	2489	6028	1935	4521	1381
45*	14711	5261	13240	4707	11768	4152	10297	3598	8826	3044	7355	2489	5884	1935	4413	1381
46*	14351	5261	12916	4707	11481	4152	10046	3598	8611	3044	7176	2489	5740	1935	4305	1381

Heating		Parts Load (%)																		
Outdoor Temperature DB (°C)	100		90		80		70		60		50		40		30		20		10	
	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P
-27	3034	892	2731	826	2428	760	2124	694	1821	628	1517	562	1246	503	1246	503	1246	503	1246	503
-26	3222	930	2900	861	2578	792	2255	723	1933	654	1611	585	1323	524	1323	524	1323	524	1323	524
-25	3410	968	3069	896	2728	824	2387	753	2046	681	1705	609	1400	545	1400	545	1400	545	1400	545
-24	3597	1005	3238	931	2878	856	2518	782	2158	707	1799	633	1477	566	1477	566	1477	566	1477	566
-23	3785	1043	3406	966	3028	888	2649	811	2271	734	1892	656	1555	587	1555	587	1555	587	1555	587
-22	3973	1080	3575	1000	3178	920	2781	840	2384	760	1986	680	1632	609	1632	609	1632	609	1632	609
-21	4160	1118	3744	1035	3328	952	2912	869	2496	787	2080	704	1709	630	1709	630	1709	630	1709	630
-20	4348	1156	3913	1070	3478	984	3043	899	2609	813	2174	727	1786	651	1786	651	1786	651	1786	651
-19	4547	1188	4092	1100	3638	1012	3183	924	2728	836	2274	748	1868	669	1868	669	1868	669	1868	669
-18	4746	1220	4272	1130	3797	1040	3322	949	2848	859	2373	768	1949	687	1949	687	1949	687	1949	687
-17	4946	1253	4451	1160	3957	1067	3462	974	2967	882	2473	789	2031	706	2031	706	2031	706	2031	706
-16	5145	1285	4630	1190	4116	1095	3601	1000	3087	904	2572	809	2113	724	2113	724	2113	724	2113	724
-15	5344	1318	4810	1220	4275	1122	3741	1025	3207	927	2672	830	2195	742	2195	742	2195	742	2195	742
-14	5497	1358	4947	1257	4398	1157	3848	1056	3298	955	2749	855	2258	765	2258	765	2258	765	2258	765
-13	5650	1398	5085	1295	4520	1191	3955	1087	3390	984	2825	880	2320	788	2320	788	2320	788	2320	788
-12	5803	1438	5222	1332	4642	1225	4062	1119	3482	1012	2901	905	2383	810	2383	810	2383	810	2383	810
-11	5956	1478	5360	1369	4764	1259	4169	1150	3573	1040	2978	931	2446	833	2446	833	2446	833	2446	833
-10	6108	1519	5498	1406	4887	1294	4276	1181	3665	1068	3054	956	2509	855	2509	855	2509	855	2509	855
-9	6261	1559	5635	1443	5009	1328	4383	1212	3757	1097	3131	981	2572	878	2572	878	2572	878	2572	878
-8	6414	1599	5773	1480	5131	1362	4490	1243	3849	1125	3207	1007	2634	901	2634	901	2634	901	2634	901
-7	6567	1639	5910	1518	5254	1396	4597	1275	3940	1153	3284	1032	2697	923	2697	923	2697	923	2697	923
-6	6739	1675	6065	1551	5391	1427	4717	1303	4043	1179	3370	1055	2768	944	2768	944	2768	944	2768	944
-5	6911	1711	6220	1584	5529	1458	4838	1331	4147	1204	3456	1077	2839	964	2839	964	2839	964	2839	964
-4	7083	1747	6375	1618	5667	1488	4958	1359	4250	1229	3542	1100	2909	984	2909	984	2909	984	2909	984
-3	7255	1783	6530	1651	5804	1519	5079	1387	4353	1255	3628	1123	2980	1005	2980	1005	2980	1005	2980	1005
-2	7428	1819	6685	1685	5942	1550	5199	1415	4457	1280	3714	1145	3051	1025	3051	1025	3051	1025	3051	1025
-1	7600	1856	6840	1718	6080	1581	5320	1443	4560	1306	3800	1168	3121	1045	3121	1045	3121	1045	3121	1045
0	7772	1892	6995	1751	6217	1611	5440	1471	4663	1331	3886	1191	3192	1066	3192	1066	3192	1066	3192	1066
1	7944	1928	7149	1785	6355	1642	5561	1499	4766	1356	3972	1213	3263	1086	3263	1086	3263	1086	3263	1086
2	8116	1964	7304	1818	6493	1673	5681	1527	4870	1382	4058	1236	3333	1106	3333	1106	3333	1106	3333	1106
3	8249	1990	7424	1843	6599	1695	5774	1548	4949	1400	4124	1253	3388	1121	3388	1121	3388	1121	3388	1121
4	8382	2017	7544	1867	6705	1718	5867	1568	5029	1419	4191	1269	3443	1136	3443	1136	3443	1136	3443	1136
5	8515	2043	7663	1892	6812	1740	5960	1589	5109	1437	4257	1286	3497	1151	3497	1151	3497	1151	3497	1151
6	10911	2185	9820	2023	8729	1861	7638	1699	6547	1537	5455	1375	4481	1231	4481	1231	4481	1231	4481	1231
7	11200	2219	10080	2055	8960	1890	7840	1726	6720	1561	5600	1397	4600	1250	4600	1250	4600	1250	4600	1250
8	11489	2253	10340	2086	9191	1919	8042	1752	6893	1585	5745	1418	4719	1269	4719	1269	4719	1269	4719	1269
9	11778	2288	10600	2118	9422	1949	8245	1779	7067	1610	5889	1440	4837	1289	4837	1289	4837	1289	4837	1289
10	12067	2322	10860	2150	9654	1978	8447	1806	7240	1634	6034	1462	4956	1308	4956	1308	4956	1308	4956	1308
11	12356	2356	11121	2182	9885	2007	8649	1833	7414	1658	6178	1483	5075	1327	5075	1327	5075	1327	5075	1327
12	12645	2391	11381	2214	10116	2036	8852	1859	7587	1682	6323	1505	5194	1347	5194	1347	5194	1347	5194	1347
13	12934	2425	11641	2245	10347	2066	9054	1886	7761	1706	6467	1527	5312	1366	5312	1366	5312	1366	5312	1366
14	13223	2460	11901	2277	10579	2095	9256	1913	7934	1730	6612	1548	5431	1385	5431	1385	5431	1385	5431	1385
15	13512	2494	12161	2309	10810	2124	9459	1939	8107	1755	6756	1570	5550	1405	5550	1405	5550	1405	5550	1405
16	13801	2528	12421	2341	11041	2154	9661	1966	8281	1779	6901	1591	5668	1424	5668	1424	5668	1424	5668	1424
17	14090	2563	12681	2373	11272	2183	9863	1993	8454	1803	7045	1613	5787	1444	5787	1444	5787	1444	5787	1444
18	14379	2597	12941	2405	11503	2212	10066	2020	8628	1827	7190	1635	5906	1463	5906	1463	5906	1463	5906	1463
19	14668	2631	13202	2436	11735	2241	10268	2046	8801	1851	7334	1656	6025	1482	6025	1482	6025	1482	6025	1482
20	14957	2666	13462	2468	11966	2271	10470	2073	8974	1876	7479	1678	6143	1502	6143	1502	6143	1502	6143	1502
21	15246	2700	13722	2500	12197	2300	10673	2100	9148	1900	7623	1700	6262	1521	6262	1521	6262	1521	6262	1521
22	15535	2734	13982	2532	12428	2329	10875	2126	9321	1924	7768	1721	6381	1540	6381	1540	6381	1540	6381	1540
23	15825	2769	14242	2564	12660	2358	11077	2153	9495	1948	7912	1743	6499	1560	6499	1560	6499	1560	6499	1560
24	16114	2803	14502	2595	12891	2388	11279	2180	9668	1972	8057	1764	6618	1579	6618	1579	6618	1579	6618	1579

Combination <Rated condition>

Indoor: RAV-HM1101CTP-E x 1, RAV-HM801CTP-E x 3, RAV-HM561CTP-E x 4
Outdoor: RAV-GM2243AT8(J)P-E

Operation range	Cooling		Heating	
	Q	P	Q	P
MINIMUM	W 4600	1300	4600	1250
Night operation 2	W 14000	2941	15680	3646

*When outside air temperature is 40°C or more, the night operation does not operate.

Cooling

Outdoor Temperature DB (°C)	Parts Load (%)															
	100		90		80		70		60		50		40		30	
	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P
20	16695	2309	15026	2117	13356	1925	11687	1733	10017	1541	8348	1349	6678	1158	5486	1021
21	16515	2351	14864	2155	13212	1960	11561	1765	9909	1569	8258	1374	6606	1179	5426	1039
22	16336	2393	14702	2194	13069	1995	11435	1796	9801	1598	8168	1399	6534	1200	5367	1058
23	16156	2435	14540	2233	12925	2030	11309	1828	9694	1626	8078	1423	6462	1221	5308	1076
24	15976	2477	14379	2271	12781	2066	11183	1860	9586	1654	7988	1448	6391	1242	5249	1095
25	15797	2519	14217	2310	12637	2101	11058	1891	9478	1682	7898	1473	6319	1263	5190	1114
26	15617	2562	14055	2349	12494	2136	10932	1923	9370	1710	7809	1497	6247	1284	5131	1132
27	15437	2604	13894	2387	12350	2171	10806	1955	9262	1738	7719	1522	6175	1305	5072	1151
28	15258	2646	13732	2426	12206	2206	10680	1986	9155	1766	7629	1547	6103	1327	5013	1170
29	15078	2688	13570	2465	12062	2241	10555	2018	9047	1795	7539	1571	6031	1348	4954	1188
30	14898	2730	13409	2503	11919	2276	10429	2050	8939	1823	7449	1596	5959	1369	4895	1207
31	14719	2772	13247	2542	11775	2312	10303	2081	8831	1851	7359	1620	5887	1390	4836	1225
32	14539	2815	13085	2581	11631	2347	10177	2113	8723	1879	7270	1645	5816	1411	4777	1244
33	14359	2857	12923	2619	11487	2382	10052	2144	8616	1907	7180	1670	5744	1432	4718	1263
34	14180	2899	12762	2658	11344	2417	9926	2176	8508	1935	7090	1694	5672	1453	4659	1281
35	14000	2941	12600	2697	11200	2452	9800	2208	8400	1963	7000	1719	5600	1475	4600	1300
36	13820	2983	12438	2735	11056	2487	9674	2239	8292	1992	6910	1744	5528	1496	4541	1319
37	13641	3025	12277	2774	10913	2522	9548	2271	8184	2020	6820	1768	5456	1517	4482	1337
38	13461	3067	12115	2813	10769	2558	9423	2303	8077	2048	6731	1793	5384	1538	4423	1356
39	12902	2887	11612	2647	10322	2408	9031	2168	7741	1928	6451	1688	5161	1448	4239	1276
40*	18072	6764	16265	6052	14458	5339	12650	4626	10843	3913	9036	3201	7229	2488	5422	1775
41*	17713	6764	15941	6052	14170	5339	12399	4626	10628	3913	8856	3201	7085	2488	5314	1775
42*	17353	6764	15618	6052	13883	5339	12147	4626	10412	3913	8677	3201	6941	2488	5206	1775
43*	16994	6764	15294	6052	13595	5339	11896	4626	10196	3913	8497	3201	6797	2488	5098	1775
44*	15070	5261	13563	4707	12056	4152	10549	3598	9042	3044	7535	2489	6028	1935	4521	1381
45*	14711	5261	13240	4707	11768	4152	10297	3598	8826	3044	7355	2489	5884	1935	4413	1381
46*	14351	5261	12916	4707	11481	4152	10046	3598	8611	3044	7176	2489	5740	1935	4305	1381

Heating

Outdoor Temperature DB (°C)	Parts Load (%)															
	100		90		80		70		60		50		40		30	
	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P
-27	4248	1466	3823	1330	3399	1194	2974	1057	2549	921	2124	785	1699	648	1274	512
-26	4511	1528	4060	1386	3609	1244	3158	1102	2707	960	2255	818	1804	675	1353	533
-25	4774	1590	4296	1442	3819	1294	3341	1146	2864	998	2387	851	1909	703	1432	555
-24	5036	1652	4533	1498	4029	1344	3525	1191	3022	1037	2518	884	2014	730	1511	576
-23	5299	1713	4769	1554	4239	1395	3709	1235	3179	1076	2649	917	2120	757	1590	598
-22	5562	1775	5005	1610	4449	1445	3893	1280	3337	1115	2781	950	2225	785	1668	620
-21	5824	1837	5242	1666	4659	1495	4077	1324	3495	1154	2912	983	2330	812	1747	641
-20	6087	1899	5478	1722	4870	1545	4261	1369	3652	1192	3043	1016	2435	839	1826	663
-19	6366	1952	5722	1770	5093	1589	4456	1407	3820	1226	3183	1044	2546	863	1910	681
-18	6645	2005	5980	1819	5316	1632	4651	1446	3987	1259	3322	1073	2658	886	1993	700
-17	6924	2059	6232	1867	5539	1676	4847	1484	4154	1293	3462	1101	2770	910	2077	718
-16	7203	2112	6483	1916	5762	1719	5042	1523	4322	1326	3601	1130	2881	933	2161	737
-15	7482	2165	6734	1964	5986	1763	5237	1561	4489	1360	3741	1158	2993	957	2245	756
-14	7696	2231	6926	2024	6157	1816	5387	1609	4618	1401	3848	1194	3078	986	2309	779
-13	7910	2297	7119	2084	6328	1870	5537	1656	4746	1443	3955	1229	3164	1015	2373	802
-12	8124	2363	7311	2143	6499	1924	5687	1704	4874	1484	4062	1264	3250	1045	2437	825
-11	8338	2429	7504	2203	6670	1977	5837	1751	5003	1526	4169	1300	3335	1074	2501	848
-10	8552	2495	7697	2263	6841	2031	5986	1799	5131	1567	4276	1335	3421	1103	2566	871
-9	8766	2561	7889	2323	7013	2085	6136	1847	5260	1608	4383	1370	3506	1132	2630	894
-8	8980	2627	8082	2383	7184	2139	6286	1894	5388	1650	4490	1406	3592	1161	2694	917
-7	9194	2693	8274	2443	7355	2192	6436	1942	5516	1691	4597	1441	3678	1190	2758	940
-6	9435	2752	8491	2497	7548	2241	6604	1985	5661	1729	4717	1473	3774	1217	2830	961
-5	9676	2812	8708	2550	7741	2289	6773	2027	5805	1766	4838	1504	3870	1243	2903	981
-4	9917	2871	8925	2604	7933	2337	6942	2070	5950	1803	4958	1536	3967	1269	2975	1002
-3	10158	2930	9142	2658	8126	2385	7110	2113	6095	1840	5079	1568	4063	1295	3047	1023
-2	10399	2990	9359	2711	8319	2433	7279	2155	6239	1877	5199	1599	4159	1321	3120	1043
-1	10639	3049	9576	2765	8512	2482	7448	2198	6384	1915	5320	1631	4256	1348	3192	1064
0	10880	3108	9792	2819	8704	2530	7616	2241	6528	1952	5440	1663	4352	1374	3264	1085
1	11121	3167	10009	2873	8897	2578	7785	2284	6673	1989	5561	1695	4449	1400	3336	1105
2	11362	3227	10226	2926	9090	2626	7954	2326	6817	2026	5681	1726	4545	1426	3409	1126
3	11548	3270	10394	2966	9239	2662	8084	2358	6929	2054	5774	1749	4619	1445	3465	1141
4	11735	3313	10561	3005	9388	2697	8214	2389	7041	2081	5867	1773	4694	1465	3520	1156
5	11921	3357	10729	3045	9537	2732	8344	2420	7152	2108	5960	1796	4768	1484	3576	1172
6	15275	3590	13748	3256	12220	2922	10693	2588	9165	2254	7638	1920	6110	1587	4583	1253
7	15680	3646	14112	3307	12544	2968	10976	2629	9408	2290	7840	1951	6272	1612	4704	1272
8	16085	3702	14476	3358	12868	3014	11259	2669	9651	2325	8042	1981	6434	1637	4825	1292
9	16489	3759	14840	3409	13191	3060	11543	2710	9894	2361	8245	2011	6596	1661	4947	1312
10	16894	3815	15205	3461	13515	3106	11826	2751	10136	2396	8447	2041	6758	1686	5068	1332
11	17299	3872	15569	3512	13839	3152	12109	2792	10379	2432	8649	2071	6919	1711	5190	1351
12	17703	3928	15933	3563	14163	3198	12392	2832	10622	2467	8852	2102	7081	1736	5311	1371
13	18108	3985	16297	3614	14486	3244	12676	2873	10865	2502	9054	2132	7243	1761	5432	1391
14	18513	4041	16661	3665	14810	3290	12959	2914	11108	2538	9256	2162	7405	1786	5554	1410

Combination <Rated condition>

Indoor: RAV-HM1101CTP-E x 1, RAV-HM801CTP-E x 3, RAV-HM561CTP-E x 4
Outdoor: RAV-GM2243AT8(J)P-E

Operation range	Cooling		Heating	
	Q	P	Q	P
MINIMUM	W 4600	1300	4600	1250
Night operation 3	W 18000	4657	20160	5364

*When outside air temperature is 40°C or more, the night operation does not operate.

Cooling

Outdoor Temperature DB (°C)	Parts Load (%)															
	100		90		80		70		60		50		40		30	
	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P
20	21465	3656	19319	3302	17172	2948	15026	2594	12879	2240	10733	1886	8586	1532	6440	1178
21	21234	3722	19111	3362	16987	3002	14864	2641	12740	2281	10617	1920	8494	1560	6370	1199
22	21003	3789	18903	3422	16802	3055	14702	2689	12602	2322	10502	1955	8401	1588	6301	1221
23	20772	3856	18695	3483	16618	3109	14540	2736	12463	2362	10386	1989	8309	1616	6232	1242
24	20541	3923	18487	3543	16433	3163	14379	2783	12325	2403	10271	2024	8216	1644	6162	1264
25	20310	3989	18279	3603	16248	3217	14217	2831	12186	2444	10155	2058	8124	1672	6093	1285
26	20079	4056	18071	3663	16063	3271	14055	2878	12047	2485	10040	2092	8032	1700	6024	1307
27	19848	4123	17863	3724	15878	3325	13894	2925	11909	2526	9924	2127	7939	1728	5954	1328
28	19617	4190	17655	3784	15694	3378	13732	2973	11770	2567	9809	2161	7847	1756	5885	1350
29	19386	4256	17447	3844	15509	3432	13570	3020	11632	2608	9693	2196	7754	1784	5816	1371
30	19155	4323	17240	3905	15324	3486	13409	3067	11493	2649	9578	2230	7662	1812	5747	1393
31	18924	4390	17032	3965	15139	3540	13247	3115	11354	2690	9462	2265	7570	1839	5677	1414
32	18693	4457	16824	4025	14954	3594	13085	3162	11216	2731	9347	2299	7477	1867	5608	1436
33	18462	4523	16616	4085	14770	3647	12923	3209	11077	2771	9231	2333	7385	1895	5539	1457
34	18231	4590	16408	4146	14585	3701	12762	3257	10939	2812	9116	2368	7292	1923	5469	1479
35	18000	4657	16200	4206	14400	3755	12600	3304	10800	2853	9000	2402	7200	1951	5400	1500
36	17769	4724	15992	4266	14215	3809	12438	3352	10661	2894	8885	2437	7108	1979	5331	1522
37	17538	4791	15784	4327	14030	3863	12277	3399	10523	2935	8769	2471	7015	2007	5261	1543
38	17307	4857	15576	4387	13846	3917	12115	3446	10384	2976	8654	2506	6923	2035	5192	1565
39	16588	4572	14929	4129	13271	3687	11612	3244	9953	2801	8294	2358	6635	1916	4976	1473
40*	18072	6764	16265	6052	14458	5339	12650	4626	10843	3913	9036	3201	7229	2488	5422	1775
41*	17713	6764	15941	6052	14170	5339	12399	4626	10628	3913	8856	3201	7085	2488	5314	1775
42*	17353	6764	15618	6052	13883	5339	12147	4626	10412	3913	8677	3201	6941	2488	5206	1775
43*	16994	6764	15294	6052	13595	5339	11896	4626	10196	3913	8497	3201	6797	2488	5098	1775
44*	15070	5261	13563	4707	12056	4152	10549	3598	9042	3044	7535	2489	6028	1935	4521	1381
45*	14711	5261	13240	4707	11768	4152	10297	3598	8826	3044	7355	2489	5884	1935	4413	1381
46*	14351	5261	12916	4707	11481	4152	10046	3598	8611	3044	7176	2489	5740	1935	4305	1381

Heating

Outdoor Temperature DB (°C)	Parts Load (%)																			
	100		90		80		70		60		50		40		30		20		10	
	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P		
-27	5462	2157	4916	1943	4370	1729	3823	1514	3277	1300	2731	1085	2185	871	1639	657	1246	503	1246	503
-26	5800	2248	5220	2025	4640	1801	4060	1578	3480	1355	2900	1131	2320	908	1740	684	1323	524	1323	524
-25	6137	2339	5524	2107	4910	1874	4296	1642	3682	1409	3069	1177	2455	944	1841	712	1400	545	1400	545
-24	6475	2430	5828	2188	5180	1947	4533	1706	3885	1464	3238	1223	2590	981	1943	740	1477	566	1477	566
-23	6813	2521	6132	2270	5450	2020	4769	1769	4088	1519	3406	1268	2725	1018	2044	767	1555	587	1555	587
-22	7151	2612	6436	2352	5720	2093	5005	1833	4290	1574	3575	1314	2860	1054	2145	795	1632	609	1632	609
-21	7488	2702	6740	2434	5991	2165	5242	1897	4493	1628	3744	1360	2995	1091	2247	823	1709	630	1709	630
-20	7826	2793	7043	2516	6261	2238	5478	1961	4696	1683	3913	1405	3130	1128	2348	850	1786	651	1786	651
-19	8185	2872	7366	2586	6548	2301	5729	2016	4911	1730	4092	1445	3274	1160	2455	874	1868	669	1868	669
-18	8543	2950	7689	2657	6835	2364	5980	2071	5126	1778	4272	1484	3417	1191	2563	898	1949	687	1949	687
-17	8902	3029	8012	2728	7122	2427	6232	2126	5341	1825	4451	1524	3561	1223	2671	922	2031	706	2031	706
-16	9261	3107	8335	2798	7409	2490	6483	2181	5557	1872	4630	1563	3704	1255	2778	946	2113	724	2113	724
-15	9620	3186	8658	2869	7696	2552	6734	2236	5772	1919	4810	1603	3848	1286	2886	970	2195	742	2195	742
-14	9895	3283	8905	2956	7916	2630	6926	2304	5937	1978	4947	1652	3958	1325	2968	999	2258	765	2258	765
-13	10170	3380	9153	3044	8136	2708	7119	2372	6102	2036	5085	1700	4068	1365	3051	1029	2320	788	2320	788
-12	10445	3477	9400	3131	8356	2786	7311	2440	6267	2095	5222	1749	4178	1404	3133	1058	2383	810	2383	810
-11	10720	3574	9648	3219	8576	2864	7504	2508	6432	2153	5360	1798	4288	1443	3216	1088	2446	833	2446	833
-10	10995	3671	9896	3306	8796	2941	7697	2577	6597	2212	5498	1847	4398	1482	3299	1117	2509	855	2509	855
-9	11270	3768	10143	3394	9016	3019	7889	2645	6762	2270	5635	1896	4508	1521	3381	1147	2572	878	2572	878
-8	11546	3865	10391	3481	9236	3097	8082	2713	6927	2329	5773	1945	4618	1561	3464	1177	2634	901	2634	901
-7	11821	3962	10639	3569	9457	3175	8274	2781	7092	2387	5910	1994	4728	1600	3546	1206	2697	923	2697	923
-6	12130	4049	10917	3647	9704	3245	8491	2842	7278	2440	6065	2037	4852	1635	3639	1233	2768	944	2768	944
-5	12440	4137	11196	3726	9952	3315	8708	2903	7464	2492	6220	2081	4976	1670	3732	1259	2839	964	2839	964
-4	12750	4224	11475	3804	10200	3384	8925	2965	7650	2545	6375	2125	5100	1705	3825	1286	2909	984	2909	984
-3	13060	4311	11754	3883	10448	3454	9142	3026	7836	2597	6530	2169	5224	1741	3918	1312	2980	1005	2980	1005
-2	13370	4398	12033	3961	10696	3524	9359	3087	8022	2650	6685	2213	5348	1776	4011	1339	3051	1025	3051	1025
-1	13679	4485	12311	4040	10943	3594	9576	3148	8208	2703	6840	2257	5472	1811	4104	1365	3121	1045	3121	1045
0	13989	4573	12590	4118	11191	3664	9792	3209	8393	2755	6995	2301	5596	1846	4197	1392	3192	1066	3192	1066
1	14299	4660	12869	4197	11439	3734	10009	3271	8579	2808	7149	2345	5720	1881	4290	1418	3263	1086	3263	1086
2	14609	4747	13148	4275	11687	3804	10226	3332	8765	2860	7304	2388	5843	1917	4383	1445	3333	1106	3333	1106
3	14848	4811	13363	4333	11878	3855	10394	3377	8909	2899	7424	2421	5939	1942	4454	1464	3388	1121	3388	1121
4	15087	4875	13579	4390	12070	3906	10561	3421	9052	2937	7544	2453	6035	1968	4526	1484	3443	1136	3443	1136
5	15327	4938	13794	4458	12261	3957	10729	3466	9196	2975	7663	2485	6131	1994	4598	1503	3497	1151	3497	1151
6	15640	5021	14076	4516	12512	4019	10948	3519	9349	3013	7782	2517	6226	2019	4670	1522	3551	1166	3551	1166
7	20160	5364	18144	4831	16128	4298	14112	3765	12096	3232	10080	2699	8064	2166	6048	1633	4600	1250	4600	1250
8	20680	5447	18612	4906	16544	4365	14476	3823	12408	3282	10340	2741	8272	2199	6204	1658	4719	1269	4719	1269
9	21201	5530	19080	4981	16960	4431	14840	3882	12720	3332	10600	2782	8480	2233	6360	1683	4837	1289	4837	1289
10	21721	5613	19549	5055	17377	4498	15205	3940	13032	3382	10860	2824	8688	2266	6516	1709	4956	1308	4956	1308
11	22241	5696	20017	5130	17793	4564	15569	3998	13345	3432	11121	2866	8896	2300	6672	1734	5075	1327	5075	1327
12	22761	5779	20485	5205	18209	4631	15933	4056	13657	3482	11381	2908	9105	2334	6828	1759	5194	1347	5194	1347
13	23282	5862	20953	5280	18625	4697	16297	4115	13969	3532	11641	2950	9313	2367	6984	1785	5312	1366	5312	1366
14	23802	5945	21422	5355	19041	4764	16661	4173	14281	3582	11901	2991	9521	2401	7141	1810	5431	1385	5431	1385
15	24322	6028	21890	5429	19458	4830	17025	4231	14593	3632	12161	3033	9729	2434	7297	1835	5550	1405	5550	1405
16	24842	6111	22358	5504	19874	4897	17390	4290	14905	3682	12421	3075	9937	2468	7453	1860	5668	1424	5668	1424
17	25363	6195	22826	5579	20290	4963	17754	4348	15218	3732	12681	3117	10145	2501	7609	1886	5787	1444	5787	1444
18	25883	6278	23295	5654	20706	5030	18118	4406	15530	3782	12941	3159	10353	2535	7765	1911	5906	1463	5906	1463
19	26403	6361	23763	5729	21122	5097	18482	4464	15842	3832	13202	3200	10561	2568	7921	1936	6025	1482	6025	1482
20	26923	6444	24231	5803	21539	5163	18846	4523	16154	3882	13462	3242	10769	2602	8077	1962	6143	1502	6143	1502
21	27444	6527	24699	5878	21955	5230	19211	4581	16466	3933	13722	3284	10977	2635	8233	1987	6262	1521	6262	1521
22	27964	6610	25167	5953	22371	5296	19575	4639	16778	3983	13982	3326	11186	2669	8389	2012	6381	1540	6381	1540
23	28484	6693	25636	6028	22787	5363	19939	4698	17090	4033	14242	3368	11394	2702	8545	2037	6499	1560	6499	1560
24	29004	6776	26104	6103	23204	5429	20303	4756	17403	4083	14502	3409	11602	2736	8701	2063	6618	1579	6618	1579

Combination <Rated condition>

Indoor: RAV-HM1401CTP-E×2, RAV-HM801CTP-E×3, RAV-HM801CTP-E×4
Outdoor: RAV-GM2803AT8(J)P-E

Operation range	Cooling		Heating	
	Q	P	Q	P
MINIMUM	W 4600	1330	4600	1280
RATING	W 23500	10670	24000	7660

Cooling

Outdoor Temperature DB (°C)	Parts Load (%)																			
	100		90		80		70		60		50		40		30		20		10	
	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P
20	28024	8376	25221	7464	22419	6553	19617	5641	16814	4729	14012	3818	11210	2906	8407	1994	5605	1083	5486	1044
21	27722	8529	24950	7601	22178	6672	19406	5744	16633	4816	13861	3887	11089	2959	8317	2031	5544	1103	5426	1063
22	27421	8682	24679	7737	21936	6792	19194	5847	16452	4902	13710	3957	10968	3012	8226	2067	5484	1122	5367	1082
23	27119	8835	24407	7873	21695	6912	18983	5950	16271	4988	13560	4027	10848	3065	8136	2104	5424	1142	5308	1101
24	26817	8988	24136	8009	21454	7031	18772	6053	16090	5075	13409	4097	10727	3118	8045	2140	5363	1162	5249	1120
25	26516	9141	23864	8146	21213	7151	18561	6156	15910	5161	13258	4166	10606	3171	7955	2177	5303	1182	5190	1139
26	26214	9294	23593	8282	20971	7271	18350	6259	15729	5248	13107	4236	10486	3224	7864	2213	5243	1201	5131	1158
27	25913	9447	23321	8418	20730	7390	18139	6362	15548	5334	12956	4306	10365	3278	7774	2249	5183	1221	5072	1177
28	25611	9599	23050	8555	20489	7510	17928	6465	15367	5420	12806	4375	10244	3331	7683	2286	5122	1241	5013	1197
29	25310	9752	22779	8691	20248	7629	17717	6568	15186	5507	12655	4445	10124	3384	7593	2322	5062	1261	4954	1216
30	25008	9905	22507	8827	20006	7749	17506	6671	15005	5593	12504	4515	10003	3437	7502	2359	5002	1281	4895	1235
31	24706	10058	22236	8964	19765	7869	17294	6774	14824	5679	12353	4585	9883	3490	7412	2395	4941	1300	4836	1254
32	24405	10211	21964	9100	19524	7988	17083	6877	14643	5766	12202	4654	9762	3543	7321	2431	4881	1320	4777	1273
33	24103	10364	21693	9236	19283	8108	16872	6980	14462	5852	12052	4724	9641	3596	7231	2468	4821	1340	4718	1292
34	23802	10517	21421	9372	19041	8228	16661	7083	14281	5938	11901	4794	9521	3649	7140	2504	4760	1360	4659	1311
35	23500	10670	21150	9509	18800	8347	16450	7186	14100	6025	11750	4863	9400	3702	7050	2541	4700	1379	4600	1330
36	23198	10823	20879	9645	18559	8467	16239	7289	13919	6111	11599	4933	9279	3755	6960	2577	4640	1399	4541	1349
37	22897	10976	20607	9781	18317	8587	16028	7392	13738	6197	11448	5003	9159	3808	6869	2614	4579	1419	4482	1368
38	22595	11129	20336	9918	18076	8706	15817	7495	13557	6284	11298	5073	9038	3861	6779	2650	4519	1439	4423	1387
39	19405	7645	17464	6813	15524	5981	13583	5149	11643	4317	9702	3485	7762	2653	5821	1820	3881	988	3798	953
40	18982	7645	17084	6813	15186	5981	13287	5149	11389	4317	9491	3485	7593	2653	5695	1820	3796	988	3716	953
41	18559	7645	16703	6813	14847	5981	12991	5149	11135	4317	9279	3485	7424	2653	5568	1820	3712	988	3633	953
42	18136	7645	16322	6813	14509	5981	12695	5149	10881	4317	9068	3485	7254	2653	5441	1820	3627	988	3550	953
43	17713	7645	15941	6813	14170	5981	12399	5149	10628	4317	8856	3485	7085	2653	5314	1820	3543	988	3467	953
44	15940	5946	14346	5299	12752	4652	11158	4005	9564	3358	7970	2710	6376	2063	4782	1416	3188	769	3120	741
45	15517	5946	13965	5299	12414	4652	10862	4005	9310	3358	7759	2710	6207	2063	4655	1416	3103	769	3037	741
46	15094	5946	13585	5299	12075	4652	10566	4005	9056	3358	7547	2710	6038	2063	4528	1416	3019	769	2955	741

Heating

Outdoor Temperature DB (°C)	Parts Load (%)																			
	100		90		80		70		60		50		40		30		20		10	
	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P
-27	6522	2801	5870	2513	5217	2224	4565	1935	3913	1647	3261	1358	2609	1069	1957	781	1304	492	1250	468
-26	6988	2971	6289	2665	5590	2359	4891	2052	4193	1746	3494	1440	2795	1134	2096	828	1398	522	1339	496
-25	7453	3140	6708	2817	5963	2493	5217	2170	4472	1846	3727	1523	2981	1199	2236	875	1491	552	1429	525
-24	7919	3310	7127	2969	6335	2628	5543	2287	4752	1946	3960	1605	3168	1264	2376	923	1584	582	1518	553
-23	8385	3480	7547	3121	6708	2763	5870	2404	5031	2046	4193	1687	3354	1328	2516	970	1677	611	1607	581
-22	8851	3649	7966	3273	7081	2897	6196	2521	5311	2145	4425	1769	3540	1393	2655	1017	1770	641	1696	610
-21	9317	3819	8385	3426	7453	3032	6522	2639	5590	2245	4658	1852	3727	1458	2795	1065	1863	671	1786	638
-20	9783	3989	8804	3578	7826	3167	6848	2756	5870	2345	4891	1934	3913	1523	2935	1112	1957	701	1875	667
-19	10109	4101	9098	3678	8087	3256	7076	2833	6065	2411	5054	1988	4043	1566	3033	1143	2022	720	1938	685
-18	10435	4213	9391	3779	8348	3345	7304	2911	6261	2477	5217	2042	4174	1608	3130	1174	2087	740	2000	704
-17	10761	4325	9685	3879	8609	3434	7533	2988	6457	2542	5380	2097	4304	1651	3228	1205	2152	760	2063	723
-16	11087	4437	9978	3980	8870	3523	7761	3065	6652	2608	5543	2151	4435	1694	3326	1237	2217	780	2125	741
-15	11413	4549	10272	4080	9130	3612	7989	3143	6848	2674	5707	2205	4565	1737	3424	1268	2283	799	2188	760
-14	11753	4688	10577	4205	9402	3722	8227	3239	7052	2756	5876	2273	4701	1790	3526	1307	2351	824	2253	783
-13	12092	4826	10883	4329	9674	3832	8465	3334	7255	2837	6046	2340	4837	1843	3628	1345	2418	848	2318	806
-12	12432	4965	11189	4453	9946	3942	8702	3430	7459	2919	6216	2407	4973	1895	3730	1384	2486	872	2383	830
-11	12772	5104	11495	4578	10217	4052	8940	3526	7663	3000	6386	2474	5109	1948	3832	1423	2554	897	2448	853
-10	13111	5242	11800	4702	10489	4162	9178	3622	7867	3082	6556	2542	5245	2001	3933	1461	2622	921	2513	876
-9	13451	5381	12106	4827	10761	4272	9416	3718	8071	3163	6726	2609	5380	2054	4035	1500	2690	945	2578	899
-8	13791	5520	12412	4951	11033	4382	9654	3813	8274	3245	6895	2676	5516	2107	4137	1538	2758	970	2643	922
-7	14130	5658	12717	5075	11304	4492	9891	3909	8478	3326	7065	2743	5652	2160	4239	1577	2826	994	2708	946
-6	14493	5783	13043	5187	11594	4591	10145	3995	8696	3399	7246	2804	5797	2208	4348	1612	2899	1016	2778	966
-5	14855	5907	13370	5299	11884	4690	10399	4081	8913	3473	7428	2864	5942	2255	4457	1647	2971	1038	2847	987
-4	15217	6032	13696	5410	12174	4789	10652	4167	9130	3546	7609	2924	6087	2303	4565	1681	3043	1060	2917	1008
-3	15580	6156	14022	5522	12464	4888	10906	4253	9348	3619	7790	2985	6232	2350	4674	1716	3116	1082	2986	1029
-2	15942	6281	14348	5634	12754	4986	11159	4339	9565	3692	7971	3045	6377	2398	4783	1751	3188	1103	3056	1050
-1	16304	6405	14674	5745	13043	5085	11413	4425	9783	3765	8152	3105	6522	2445	4891	1785	3261	1125	3125	1070
0	16667	6530	15000	5857	13333	5184	11667	4511	10000	3838	8333	3166	6667	2493	5000	1820	3333	1147	3194	1091
1	17029	6654	15326	5969	13623	5283	11920	4597	10217	3912	8514	3226	6812	2540	5109	1855	3406	1169	3264	1112
2	17391	6779	15652	6080	13813	5382	12174	4683	10435	3985	8696	3286	6957	2588	5217	1889	3478	1191	3333	1133
3	17676	6870	15909	6162	14141	5454	12373	4746	10606	4038	8838	3331	7070	2623	5303	1915	3535	1207	3388	1148
4	17961	6961	16165	6246	14369	5527	12573	4809	10777	4092	8981	3375	7184	2658	5388	1940	3592	1223	3443	1163
5	18246	7052	16421	6324	14597	5599	12772	4872	10948	4146	9123	3419	7298	2692	5474	1966	3649	1239	3497	1178
6	23381	7541	17043	6764	18705	5987	16366	5210	14028	4433	11690	3656	9352	2879	7014	2102	4676	1325	4481	1260
7	24000	7660	21600	6871	19200	6081	16800	5292	14400	4503	12000	3714	9600	2924	7200	2135	4800	1346	4600	1280
8	24619	7779	22157	6977	19695	6176	17234	5374	14772	4573	12310	3771	9848	2970	7386	2168	4924	1367	4719	1300
9	25239	7897	22715	7083	20191	6270	17667	5456	15143	4642	12619	3829	10095	3015	7572	2201	5048	1387	4837	1320
10	25858	8016	23272	7190	20686	6364	18101	5538	15515	4712	12929	3886	10343	3060	7757	2234	5172	1408	4956	1339
11	26477	8134	23830	7296	21182	6458	18534	5620	15886	4782	13239	3944	10591	3105	7943	2267	5295	1429	5075	1359
12	27097	8253	24387	7403	21677	6552	18968	5702	16258	4851	13548	4001	10839	3151	8129	2300	5419	1450	5194	1379
13	27716	8372	24945	7509	22173	6646	19401	5784	16630	4921	13858	4059	11086	3196	8315	2333	5543	1471	5312	1399
14	28335	8490	25502	7615	22668	6741	19835	5866	17001	4991	14168	4116	11334	3241	8501	2366	5667	1492	5431	1419
15	28955	8609	26059	7722	23164	6835	20268	5948	17373	5061	14477	4174	11582	3287	8686	2400	5791	1512	5550	1439
16	29574	8727	26617	7828	23659	6929	20702	6030	17745	5130	14787	4231	11830	3332	8872	2433	5915	1533	5668	1458
17	24567	5481	22110	4916	19653	4351	17197	3786	14740	3222	12283	2657	9827	2092	7370	1528	4913	963	4709	916
18	24988	5481	22489	4916	19990	4351	17492	3786	14993	3222	12494	2657	9995	2092	7496	1528	4998	963	4789	916
19	25409	5481	22868	4916	20327	4351	17786	3786	15245	3222	12704	2657	10164	2092	7623	1528	5082	963	4870	916
20	25830	5481	23247	4916	20664	4351	18081	3786	15498	3222	12915	2657	10332	2092	7749	1528	5166	963	4951	916
21	26251	5481	23626	4916	21001	4351	18376	3786	15751	3222	13126	2657	10500	2092	7875	1528	5250	963	5031	916
22	26672	5481	24005	4916	21338	4351	18671	3786	16003	3222	13336	2657	10669	2092	8002	1528	5334	963	5112	916
23	27093	5481	24384	4916	21675	4351	18965	3786	16256	3222	13547	2657	10837	2092	8128	1528	5419	963	5193	916
24	27514	5481	24763	4916	22011	4351	19260	3786	16509	3222	13757	2657	11006	2092	8254	1528	5503	963	5274	916

Combination <Capacity range (Max)>

Indoor: RAV-HM1401CTP-E×2, RAV-HM801CTP-E×3, RAV-HM801CTP-E×4
Outdoor: RAV-GM2803AT8(J)P-E

Operation range	Cooling		Heating	
	Q	P	Q	P
MINIMUM	W 4600	1330	4600	1280
RATING	W 23500	10670	24000	7660
MAXIMUM	W 25000	10870	28000	9330

Cooling

Outdoor Temperature DB (°C)	Parts Load (%)															
	100		90		80		70		60		50		40		30	
	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P
20	32126	10276	28914	9171	25701	8065	22488	6960	19276	5855	16063	4750	12850	3645	9638	2539
21	31780	10463	28602	9338	25424	8213	22246	7087	19068	5962	15890	4837	12712	3711	9534	2586
22	31435	10651	28290	9506	25148	8360	22004	7214	18861	6069	15717	4923	12574	3778	9430	2632
23	31089	10839	27980	9673	24871	8507	21762	7341	18653	6176	15544	5010	12436	3844	9327	2678
24	30558	10870	27502	9701	24446	8532	21391	7363	18335	6194	15279	5024	12223	3855	9167	2686
25	30002	10870	27001	9701	24001	8532	21001	7363	18001	6194	15001	5024	12001	3855	9000	2686
26	29457	10870	26511	9701	23565	8532	20620	7363	17674	6194	14728	5024	11783	3855	8837	2686
27	28923	10870	26031	9701	23139	8532	20246	7363	17354	6194	14462	5024	11569	3855	8677	2686
28	28400	10870	25560	9701	22720	8532	19880	7363	17040	6194	14200	5024	11360	3855	8520	2686
29	27888	10870	25099	9701	22310	8532	19521	7363	16733	6194	13944	5024	11155	3855	8366	2686
30	27385	10870	24646	9701	21908	8532	19169	7363	16431	6194	13692	5024	10954	3855	8215	2686
31	26891	10870	24202	9701	21513	8532	18823	7363	16134	6194	13445	5024	10756	3855	8067	2686
32	26406	10870	23765	9701	21125	8532	18484	7363	15843	6194	13203	5024	10562	3855	7922	2686
33	25929	10870	23336	9701	20743	8532	18150	7363	15558	6194	12965	5024	10372	3855	7779	2686
34	25461	10870	22915	9701	20369	8532	17823	7363	15276	6194	12730	5024	10184	3855	7638	2686
35	25000	10870	22500	9701	20000	8532	17500	7363	15000	6194	12500	5024	10000	3855	7500	2686
36	24547	10870	22092	9701	19637	8532	17183	7363	14728	6194	12273	5024	9819	3855	7364	2686
37	24100	10870	21690	9701	19280	8532	16870	7363	14460	6194	12050	5024	9640	3855	7230	2686
38	23661	10870	21295	9701	18929	8532	16563	7363	14197	6194	11830	5024	9464	3855	7098	2686
39	20021	7247	18019	6467	16017	5688	14015	4908	12013	4129	10011	3350	8008	2570	6006	1791
40	19585	7247	17626	6467	15668	5688	13709	4908	11751	4129	9792	3350	7834	2570	5875	1791
41	19148	7247	17233	6467	15318	5688	13404	4908	11489	4129	9574	3350	7659	2570	5744	1791
42	18712	7247	16840	6467	14969	5688	13098	4908	11227	4129	9356	3350	7485	2570	5613	1791
43	18275	7247	16448	6467	14620	5688	12793	4908	10965	4129	9138	3350	7310	2570	5483	1791
44	16446	5636	14802	5030	13157	4424	11512	3818	9868	3211	8223	2605	6578	1999	4934	1393
45	16010	5636	14409	5030	12808	4424	11207	3818	9606	3211	8005	2605	6404	1999	4803	1393
46	15573	5636	14016	5030	12459	4424	10901	3818	9344	3211	7787	2605	6229	1999	4672	1393

Heating

Outdoor Temperature DB (°C)	Parts Load (%)																			
	100		90		80		70		60		50		40		30		20		10	
	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P
-27	9856	6451	8871	5785	7885	5119	6899	4453	5914	3787	4928	3121	3943	2455	2957	1789	1971	1123	1619	885
-26	10560	6842	9504	6136	8448	5429	7392	4723	6336	4017	5280	3310	4224	2604	3168	1897	2112	1191	1735	939
-25	11264	7233	10138	6486	9012	5739	7885	4993	6759	4246	5632	3499	4506	2752	3379	2006	2253	1259	1851	992
-24	11968	7624	10772	6837	9575	6050	8378	5262	7181	4475	5984	3688	4787	2901	3591	2114	2324	1327	1966	1046
-23	12672	8015	11405	7187	10138	6360	8871	5532	7603	4705	6336	3877	5069	3050	3802	2222	2534	1395	2082	1100
-22	13376	8405	12039	7537	10701	6670	9364	5802	8026	4934	6688	4066	5351	3199	4013	2331	2675	1463	2198	1153
-21	14081	8796	12672	7888	11264	6980	9856	6072	8448	5164	7040	4255	5632	3347	4224	2439	2816	1531	2313	1207
-20	14785	9187	13306	8238	11828	7290	10349	6341	8871	5393	7392	4444	5914	3496	4435	2548	2957	1599	2429	1260
-19	15277	9445	13750	8470	12222	7495	10694	6520	9166	5544	7639	4569	6111	3594	4583	2619	3055	1644	2510	1296
-18	15770	9703	14193	8701	12616	7699	11039	6698	9462	5696	7885	4694	6308	3692	4731	2691	3154	1689	2591	1331
-17	16263	9961	14637	8933	13010	7904	11384	6876	9758	5847	8132	4819	6505	3791	4879	2762	3253	1734	2672	1367
-16	16756	10219	15080	9164	13405	8109	11729	7054	10053	5999	8378	4944	6702	3889	5027	2834	3351	1779	2753	1402
-15	17249	10477	15524	9395	13799	8314	12074	7232	10349	6150	8624	5069	6899	3987	5175	2905	3450	1824	2834	1437
-14	17762	10796	15986	9682	14210	8567	12433	7453	10657	6338	8881	5223	7105	4109	5329	2994	3552	1879	2918	1481
-13	18275	11116	16448	9968	14620	8821	12793	7673	10965	6525	9138	5378	7310	4230	5483	3082	3655	1935	3002	1525
-12	18789	11435	16910	10255	15031	9074	13152	7893	11273	6713	9394	5532	7515	4352	5637	3171	3758	1990	3087	1569
-11	19302	11754	17372	10541	15442	9327	13511	8114	11581	6900	9651	5687	7721	4473	5791	3260	3860	2046	3171	1613
-10	19815	12074	17834	10827	15852	9581	13871	8334	11889	7088	9908	5841	7926	4595	5945	3348	3963	2102	3255	1656
-9	20329	12393	18296	11114	16263	9834	14230	8555	12197	7275	10164	5996	8132	4716	6099	3437	4066	2157	3340	1700
-8	20842	12713	18758	11400	16674	10088	14589	8775	12505	7463	10421	6150	8337	4838	6253	3525	4168	2213	3424	1744
-7	21355	13032	19220	11686	17084	10341	14949	8996	12813	7650	10678	6305	8542	4959	6407	3614	4271	2268	3508	1788
-6	21903	13319	19713	11944	17522	10569	15332	9193	13142	7818	10952	6443	8761	5068	6571	3693	4381	2318	3598	1827
-5	22451	13605	20206	12201	17960	10796	15715	9391	13470	7987	11225	6582	8980	5177	6735	3773	4490	2368	3688	1867
-4	22998	13892	20698	12458	18399	11024	16099	9589	13799	8155	11499	6721	9199	5287	6899	3852	4600	2418	3778	1906
-3	23546	14179	21191	12715	18837	11251	16482	9787	14127	8323	11773	6860	9418	5396	7064	3932	4709	2468	3868	1945
-2	24093	14466	21684	12972	19275	11479	16865	9985	14456	8492	12047	6998	9637	5505	7228	4011	4819	2518	3958	1985
-1	24641	14752	22177	13229	19713	11706	17249	10183	14785	8660	12320	7137	9856	5614	7392	4091	4928	2568	4048	2024
0	25188	15039	22670	13486	20151	11934	17632	10381	15113	8828	12594	7276	10075	5723	7557	4170	5038	2618	4138	2063
1	25736	15326	23162	13743	20589	12161	18015	10579	15442	8997	12868	7414	10294	5832	7721	4250	5147	2668	4228	2103
2	26284	15612	23655	14001	21027	12389	18399	10777	15770	9165	13142	7553	10513	5941	7885	4329	5257	2718	4318	2142
3	26863	15874	24176	14235	21490	12596	18804	10957	16118	9318	13431	7680	10745	6041	8059	4402	5372	2763	4413	2178
4	27448	16135	24703	14469	21958	12803	19213	11138	16469	9472	13724	7806	10979	6140	8234	4474	5490	2809	4509	2214
5	24422	9330	21980	8367	19538	7404	17096	6440	14653	5477	12211	4514	9769	3551	7327	2587	4884	1624	4012	1280
6	27472	9330	24724	8367	21977	7404	19230	6440	16483	5477	13736	4514	10989	3551	8241	2587	5494	1624	4513	1280
7	28000	9330	25200	8367	22400	7404	19600	6440	16800	5477	14000	4514	11200	3551	8400	2587	5600	1624	4600	1280
8	28524	9330	25672	8367	22819	7404	19967	6440	17115	5477	14262	4514	11410	3551	8557	2587	5705	1624	4686	1280
9	29045	9330	26140	8367	23236	7404	20331	6440	17427	5477	14522	4514	11618	3551	8713	2587	5809	1624	4772	1280
10	29561	9330	26605	8367	23649	7404	20693	6440	17737	5477	14781	4514	11825	3551	8868	2587	5912	1624	4857	1280
11	30075	9330	27067	8367	24060	7404	21052	6440	18045	5477	15037	4514	12030	3551	9022	2587	6015	1624	4941	1280
12	30584	9330	27526	8367	24468	7404	21409	6440	18351	5477	15292	4514	12234	3551	9175	2587	6117	1624	5025	1280
13	31091	9330	27982	8367	24873	7404	21764	6440	18655	5477	15545	4514	12436	3551	9327	2587	6218	1624	5108	1280
14	31594	9330	28435	8367	25276	7404	22116	6440	18957	5477	15797	4514	12638	3551	9478	2587	6319	1624	5191	1280
15	32095	9330	28885	8367	25676	7404	22466	6440	19257	5477	16047	4514	12838	3551	9628	2587	6419	1624	5273	1280
16	32593	9330	29333	8367	26074	7404	22815	6440	19556	5477	16296	4514	13037	3551	9778	2587	6519	1624	5354	1280
17	33631	9330	30268	8367	26904	7404	23541	6440	20178	5477	16815	4514	13452	3551	10089	2587	6726	1624	5525	1280
18	34207	9330	30786	8367	27366	7404	23945	6440	20524	5477	17103	4514	13683	3551	10262	2587	6841	1624	5620	1280
19	34783	9330	31305	8367	27827	7404	24348	6440	20870	5477	17392	4514	13913	3551	10435	2587	6957	1624	5714	1280
20	35360	9330	31824	8367	28288	7404	24752	6440	21216	5477	17680	4514	14144	3551	10608	2587	7072	1624	5809	1280
21	35936	9330	32343	8367	28749	7404	25155	6440	21562	5477	17968	4514	14374	3551	10781	2587	7187	1624	5904	1280
22	36513	9330	32861	8367	29210	7404	25559	6440	21908	5477	18256	4514	14605	3551	10954	2587	7303	1624	5998	1280
23	37089	9330	33380	8367	29671	7404	25962	6440	22253	5477	18544	4514	14836	3551	11127	2587	7418	1624	6093	1280
24	37665	9330	33899	8367	30132	7404	26366	6440	22599	5477	18833	4514	15066	3551	11300	2587	7533	1624	6188	1280

Combination <Rated condition>

Indoor: RAV-HM1401CTP-E x 1, RAV-HM801CTP-E x 3, RAV-HM801CTP-E x 4
Outdoor: RAV-GM2803AT8(J)P-E

Operation range		Cooling		Heating	
		Q	P	Q	P
MINIMUM	W	4600	1330	4600	1280
Night operation 1	W	11750	3354	12000	2698

* When outside air temperature is 40°C or more, the night operation does not operate.

Cooling

Outdoor Temperature DB (°C)	Parts Load (%)															
	100		90		80		70		60		50		40		30	
	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P
20	14012	2633	12611	2372	11210	2111	9808	1850	8407	1588	7006	1327	5605	1066	5486	1044
21	13861	2681	12475	2415	11089	2149	9703	1883	8317	1617	6931	1352	5544	1086	5426	1063
22	13710	2729	12339	2458	10968	2188	9597	1917	8226	1646	6855	1376	5484	1105	5367	1082
23	13560	2777	12204	2502	10848	2226	9492	1951	8136	1675	6780	1400	5424	1125	5308	1101
24	13409	2825	12068	2545	10727	2265	9386	1985	8045	1704	6704	1424	5363	1144	5249	1120
25	13258	2873	11932	2588	10606	2303	9281	2018	7955	1733	6629	1449	5303	1164	5190	1139
26	13107	2921	11796	2632	10486	2342	9175	2052	7864	1763	6554	1473	5243	1183	5131	1158
27	12956	2969	11661	2675	10365	2380	9069	2086	7774	1792	6478	1497	5183	1203	5072	1177
28	12806	3017	11525	2718	10244	2419	8964	2120	7683	1821	6403	1521	5122	1222	5013	1197
29	12655	3066	11389	2762	10124	2458	8858	2154	7593	1850	6327	1546	5062	1241	4954	1216
30	12504	3114	11254	2805	10003	2496	8753	2187	7502	1879	6252	1570	5002	1261	4895	1235
31	12353	3162	11118	2848	9883	2535	8647	2221	7412	1908	6177	1594	4941	1280	4836	1254
32	12202	3210	10982	2891	9762	2573	8542	2255	7321	1937	6101	1618	4881	1300	4777	1273
33	12052	3258	10846	2935	9641	2612	8436	2289	7231	1966	6026	1642	4821	1319	4718	1292
34	11901	3306	10711	2978	9521	2650	8331	2322	7140	1995	5950	1667	4760	1339	4659	1311
35	11750	3354	10575	3021	9400	2689	8225	2356	7050	2024	5875	1691	4700	1358	4600	1330
36	11599	3402	10439	3065	9279	2727	8119	2390	6960	2053	5800	1715	4640	1378	4541	1349
37	11448	3450	10304	3108	9159	2766	8014	2424	6869	2082	5724	1739	4579	1397	4482	1368
38	11298	3498	10168	3151	9038	2804	7908	2457	6779	2111	5649	1764	4519	1417	4423	1387
39	9702	2403	8732	2165	7762	1927	6792	1688	5821	1450	4851	1212	3881	973	3798	953
40*	18982	7645	17084	6805	15186	5965	13287	5125	11389	4285	9491	3445	7593	2604	5695	1764
41*	18559	7645	16703	6805	14847	5965	12991	5125	11135	4285	9279	3445	7424	2604	5568	1764
42*	18136	7645	16322	6805	14509	5965	12695	5125	10881	4285	9068	3445	7254	2604	5441	1764
43*	17713	7645	15941	6805	14170	5965	12399	5125	10628	4285	8856	3445	7085	2604	5314	1764
44*	15940	5946	14346	5293	12752	4639	11158	3986	9564	3333	7970	2679	6376	2026	4782	1372
45*	15517	5946	13965	5293	12414	4639	10862	3986	9310	3333	7759	2679	6207	2026	4655	1372
46*	15094	5946	13585	5293	12075	4639	10566	3986	9056	3333	7547	2679	6038	2026	4528	1372

Heating

Outdoor Temperature DB (°C)	Parts Load (%)																			
	100		90		80		70		60		50		40		30		20		10	
	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P
-27	3261	987	2935	903	2609	818	2283	734	1957	650	1630	566	1304	482	1250	468	1250	468	1250	468
-26	3494	1046	3144	957	2795	868	2446	779	2096	690	1747	600	1398	511	1339	496	1339	496	1339	496
-25	3727	1106	3354	1012	2981	918	2609	823	2236	729	1863	635	1491	540	1429	525	1429	525	1429	525
-24	3960	1166	3564	1067	3168	967	2772	868	2376	768	1980	669	1584	570	1518	553	1518	553	1518	553
-23	4193	1226	3773	1121	3354	1017	2935	912	2516	808	2096	703	1677	599	1607	581	1607	581	1607	581
-22	4425	1285	3983	1176	3540	1066	3098	957	2655	847	2213	738	1770	628	1696	610	1696	610	1696	610
-21	4658	1345	4193	1231	3727	1116	3261	1001	2795	887	2329	772	1863	657	1786	638	1786	638	1786	638
-20	4891	1405	4402	1285	3913	1165	3424	1046	2935	926	2446	806	1957	686	1875	667	1875	667	1875	667
-19	5054	1444	4549	1321	4043	1198	3538	1075	3033	952	2527	829	2022	706	1938	685	1938	685	1938	685
-18	5217	1484	4696	1357	4174	1231	3652	1104	3130	978	2609	852	2087	725	2000	704	2000	704	2000	704
-17	5380	1523	4842	1394	4304	1264	3766	1134	3228	1004	2690	874	2152	744	2063	723	2063	723	2063	723
-16	5543	1563	4989	1430	4435	1296	3880	1163	3326	1030	2772	897	2217	764	2125	741	2125	741	2125	741
-15	5707	1602	5136	1466	4565	1329	3995	1193	3424	1056	2853	919	2283	783	2188	760	2188	760	2188	760
-14	5876	1651	5289	1510	4701	1370	4113	1229	3526	1088	2938	947	2351	807	2253	783	2253	783	2253	783
-13	6046	1700	5442	1555	4837	1410	4232	1265	3628	1120	3023	976	2418	831	2318	806	2318	806	2318	806
-12	6216	1749	5594	1600	4973	1451	4351	1302	3730	1153	3108	1004	2486	855	2383	830	2383	830	2383	830
-11	6386	1798	5747	1644	5109	1491	4470	1338	3832	1185	3193	1032	2554	878	2448	853	2448	853	2448	853
-10	6556	1846	5900	1689	5245	1532	4589	1374	3933	1217	3278	1060	2622	902	2513	876	2513	876	2513	876
-9	6726	1895	6053	1734	5380	1572	4708	1411	4035	1249	3363	1088	2690	926	2578	899	2578	899	2578	899
-8	6895	1944	6206	1778	5516	1613	4827	1447	4137	1281	3448	1116	2758	950	2643	922	2643	922	2643	922
-7	7065	1993	6359	1823	5652	1653	4946	1483	4239	1314	3533	1144	2826	974	2708	946	2708	946	2708	946
-6	7246	2037	6522	1863	5797	1690	5072	1516	4348	1342	3623	1169	2899	995	2778	966	2778	966	2778	966
-5	7428	2081	6685	1903	5942	1726	5199	1549	4457	1371	3714	1194	2971	1017	2847	987	2847	987	2847	987
-4	7609	2125	6848	1943	6087	1762	5326	1581	4565	1400	3804	1219	3043	1038	2917	1008	2917	1008	2917	1008
-3	7790	2168	7011	1984	6232	1799	5453	1614	4674	1429	3895	1244	3116	1060	2986	1029	2986	1029	2986	1029
-2	7971	2212	7174	2024	6377	1835	5580	1647	4783	1458	3986	1269	3188	1081	3056	1050	3056	1050	3056	1050
-1	8152	2256	7337	2064	6522	1872	5707	1679	4891	1487	4076	1295	3261	1102	3125	1070	3125	1070	3125	1070
0	8333	2300	7500	2104	6667	1908	5833	1712	5000	1516	4167	1320	3333	1124	3194	1091	3194	1091	3194	1091
1	8514	2344	7663	2144	6812	1944	5960	1744	5109	1545	4257	1345	3406	1145	3264	1112	3264	1112	3264	1112
2	8696	2388	7826	2184	6957	1981	6087	1777	5217	1574	4348	1370	3478	1167	3333	1133	3333	1133	3333	1133
3	8838	2420	7954	2213	7070	2007	6187	1801	5303	1595	4419	1389	3535	1182	3388	1148	3388	1148	3388	1148
4	8981	2452	8082	2243	7184	2034	6286	1825	5388	1616	4490	1407	3592	1198	3443	1163	3443	1163	3443	1163
5	9123	2484	8211	2272	7298	2061	6386	1849	5474	1637	4561	1425	3649	1214	3497	1178	3497	1178	3497	1178
6	11690	2656	10521	2430	9352	2203	8183	1977	7014	1751	5845	1524	4676	1298	4481	1260	4481	1260	4481	1260
7	12000	2698	10800	2468	9600	2238	8400	2008	7200	1778	6000	1548	4800	1318	4600	1280	4600	1280	4600	1280
8	12310	2740	11079	2506	9848	2273	8617	2039	7386	1806	6155	1572	4924	1339	4719	1300	4719	1300	4719	1300
9	12619	2782	11357	2544	10095	2307	8834	2070	7572	1833	6310	1596	5048	1359	4837	1320	4837	1320	4837	1320
10	12929	2823	11636	2583	10343	2342	9050	2101	7757	1861	6465	1620	5172	1380	4956	1339	4956	1339	4956	1339
11	13239	2865	11915	2621	10591	2377	9267	2133	7943	1888	6619	1644	5295	1400	5075	1359	5075	1359	5075	1359
12	13548	2907	12194	2659	10839	2411	9484	2164	8129	1916	6774	1668	5419	1420	5194	1379	5194	1379	5194	1379
13	13858	2949	12472	2697	11086	2446	9701	2195	8315	1943	6929	1692	5543	1441	5312	1399	5312	1399	5312	1399
14	14168	2990	12751	2736	11334	2481	9917	2226	8501	1971	7084	1716	5667	1461	5431	1419	5431	1419	5431	1419
15	14477	3032	13030	2774	11582	2515	10134	2257	8686	1998	7239	1740	5791	1482	5550	1439	5550	1439	5550	1439
16	14787	3074	13308	2812	11830	2550	10351	2288	8872	2026	7394	1764	5915	1502	5668	1458	5668	1458	5668	1458
17	12283	1930	11055	1766	9827	1601	8598	1437	7370	1272	6142	1108	4913	943	4709	916	4709	916	4709	916
18	12494	1930	11245	1766	9995	1601	8746	1437	7496	1272	6247	1108	4998	943	4789	916	4789	916	4789	916
19	12704	1930	11434	1766	10164	1601	8893	1437	7623	1272	6352	1108	5082	943	4870	916	4870	916	4870	916
20	12915	1930	11624	1766	10332	1601	9041	1437	7749	1272	6458	1108	5166	943	4951	916	4951	916	4951	916
21	13126	1930	11813	1766	10500	1601	9188	1437	7875	1272	6563	1108	5250	943	5031	916	5031	916	5031	916
22	13336	1930	12002	1766	10669	1601	9335	1437	8002	1272	6668	1108	5334	943	5112	916	5112	916	5112	916
23	13547	1930	12192	1766	10837	1601	9483	1437	8128	1272	6773	1108	5419	943	5193	916	5193	916	5193	916
24	13757	1930	12381	1766	11006	1601	9630	1437	8254	1272	6879	1108	5503	943	5274	916	5274	916	5274	916

Combination <Rated condition>

Indoor: RAV-HM1401CTP-E x 1, RAV-HM801CTP-E x 3, RAV-HM801CTP-E x 4
Outdoor: RAV-GM2803AT8(J)P-E

Operation range	Cooling		Heating	
	Q	P	Q	P
MINIMUM	W 4600	1330	4600	1280
Night operation 2	W 16450	5191	16800	4148

* When outside air temperature is 40°C or more, the night operation does not operate.

Outdoor Temperature DB (°C)	Parts Load (%)															
	100		90		80		70		60		50		40		30	
	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P
20	19617	4075	17655	3654	15693	3233	13732	2813	11770	2392	9808	1971	7847	1550	5885	1130
21	19406	4149	17465	3721	15524	3292	13584	2864	11643	2436	9703	2007	7762	1579	5822	1150
22	19194	4224	17275	3788	15356	3352	13436	2915	11517	2479	9597	2043	7678	1607	5758	1171
23	18983	4298	17085	3854	15187	3411	13288	2967	11390	2523	9492	2079	7593	1635	5695	1192
24	18772	4373	16895	3921	15018	3470	13141	3018	11263	2567	9386	2115	7509	1664	5632	1212
25	18561	4447	16705	3988	14849	3529	12993	3069	11137	2610	9281	2151	7424	1692	5568	1233
26	18350	4521	16515	4055	14680	3588	12845	3121	11010	2654	9175	2187	7340	1720	5505	1254
27	18139	4596	16325	4121	14511	3647	12697	3172	10883	2698	9069	2223	7256	1749	5442	1274
28	17928	4670	16135	4188	14342	3706	12549	3224	10757	2741	8964	2259	7171	1777	5378	1295
29	17717	4745	15945	4255	14173	3765	12402	3275	10630	2785	8858	2295	7087	1805	5315	1315
30	17506	4819	15755	4321	14004	3824	12254	3326	10503	2829	8753	2331	7002	1834	5252	1336
31	17294	4893	15565	4388	13836	3883	12106	3378	10377	2872	8647	2367	6918	1862	5188	1357
32	17083	4968	15375	4455	13667	3942	11958	3429	10250	2916	8542	2403	6833	1890	5125	1377
33	16872	5042	15185	4522	13498	4001	11811	3480	10123	2960	8436	2439	6749	1919	5062	1398
34	16661	5117	14995	4588	13329	4060	11663	3532	9997	3003	8331	2475	6664	1947	4998	1419
35	16450	5191	14805	4655	13160	4119	11515	3583	9870	3047	8225	2511	6580	1975	4935	1439
36	16239	5265	14615	4722	12991	4178	11367	3634	9743	3091	8119	2547	6496	2003	4872	1460
37	16028	5340	14425	4788	12822	4237	11219	3686	9617	3134	8014	2583	6411	2032	4808	1480
38	15817	5414	14235	4855	12653	4296	11072	3737	9490	3178	7908	2619	6327	2060	4745	1501
39	15606	5489	14045	4921	12484	4355	10924	3788	9367	3221	7803	2655	6242	2088	4682	1522
40*	15395	5563	13855	4988	12315	4414	10776	3839	9244	3264	7698	2691	6157	2116	4619	1543
41*	15184	5638	13665	5054	12146	4473	10628	3890	9121	3307	7593	2727	6072	2144	4556	1564
42*	14973	5712	13475	5121	11977	4532	10480	3941	8998	3350	7488	2763	5987	2172	4493	1585
43*	14762	5787	13285	5187	11829	4591	10332	3992	8875	3393	7383	2799	5902	2200	4430	1606
44*	14551	5861	13095	5254	11673	4650	10184	4043	8752	3436	7278	2835	5817	2228	4367	1627
45*	14340	5936	12905	5320	11525	4709	10036	4094	8629	3479	7173	2871	5732	2256	4304	1648
46*	14129	6010	12715	5387	11377	4768	9888	4145	8506	3522	7068	2907	5647	2284	4241	1669

Heating		Parts Load (%)																							
Outdoor Temperature DB (°C)	100		90		80		70		60		50		40		30		20		10						
	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P					
-27	4565	1517	4109	1372	3652	1228	3196	1084	2739	939	2283	795	1826	650	1370	506	1250	468	1250	468					
-26	4891	1609	4402	1456	3913	1302	3424	1149	2935	996	2446	843	1957	690	1467	537	1339	496	1339	496					
-25	5217	1701	4696	1539	4174	1377	3652	1215	3130	1053	2609	891	2087	729	1565	567	1429	525	1429	525					
-24	5543	1792	4989	1622	4435	1451	3880	1280	3326	1110	2772	939	2217	768	1663	598	1518	553	1518	553					
-23	5870	1884	5283	1705	4696	1526	4109	1346	3522	1167	2935	987	2348	808	1761	628	1607	581	1607	581					
-22	6196	1976	5576	1788	4957	1600	4337	1412	3717	1224	3098	1035	2478	847	1859	659	1696	610	1696	610					
-21	6522	2068	5870	1871	5217	1674	4565	1477	3913	1280	3261	1084	2609	887	1957	690	1786	638	1786	638					
-20	6848	2160	6163	1954	5478	1749	4793	1543	4109	1337	3424	1132	2739	926	2054	720	1875	667	1875	667					
-19	7076	2221	6368	2009	5661	1798	4953	1586	4246	1375	3538	1164	2830	952	2123	741	1938	685	1938	685					
-18	7304	2281	6574	2064	5843	1847	5113	1630	4383	1413	3652	1195	2922	978	2191	761	2000	704	2000	704					
-17	7533	2342	6779	2119	6026	1896	5273	1673	4520	1450	3766	1227	3013	1004	2260	781	2063	723	2063	723					
-16	7761	2403	6985	2174	6209	1945	5433	1716	4657	1488	3880	1259	3104	1030	2328	801	2125	741	2125	741					
-15	7989	2463	7190	2229	6391	1994	5592	1760	4793	1525	3995	1291	3196	1056	2397	822	2188	760	2188	760					
-14	8227	2538	7404	2297	6582	2055	5759	1813	4936	1572	4113	1330	3291	1088	2468	847	2253	783	2253	783					
-13	8465	2614	7618	2365	6772	2116	5925	1867	5079	1618	4232	1369	3386	1121	2539	872	2318	806	2318	806					
-12	8702	2689	7832	2433	6962	2177	6092	1921	5221	1665	4351	1409	3481	1153	2611	897	2383	830	2383	830					
-11	8940	2764	8046	2501	7152	2237	6258	1974	5364	1711	4470	1448	3576	1185	2682	922	2448	853	2448	853					
-10	9178	2839	8260	2569	7342	2298	6425	2028	5507	1758	4589	1487	3671	1217	2753	947	2513	876	2513	876					
-9	9416	2914	8474	2636	7533	2359	6591	2082	5649	1804	4708	1527	3766	1249	2825	972	2578	899	2578	899					
-8	9654	2989	8688	2704	7723	2420	6757	2135	5792	1851	4827	1566	3861	1281	2896	997	2643	922	2643	922					
-7	9891	3064	8902	2772	7913	2481	6924	2189	5935	1897	4946	1605	3957	1314	2967	1022	2708	946	2708	946					
-6	10145	3131	9130	2833	8116	2535	7101	2237	6087	1939	5072	1641	4058	1343	3043	1044	2778	966	2778	966					
-5	10399	3199	9359	2894	8319	2590	7279	2285	6239	1981	5199	1676	4159	1371	3120	1067	2847	987	2847	987					
-4	10652	3266	9587	2955	8522	2644	7457	2333	6391	2022	5326	1711	4261	1400	3196	1089	2917	1008	2917	1008					
-3	10906	3334	9815	3016	8725	2699	7634	2381	6543	2064	5453	1747	4362	1429	3272	1112	2986	1029	2986	1029					
-2	11159	3401	10043	3077	8928	2753	7812	2430	6696	2106	5580	1782	4464	1458	3348	1134	3056	1050	3056	1050					
-1	11413	3469	10272	3138	9130	2808	7989	2478	6848	2148	5707	1817	4565	1487	3424	1157	3125	1070	3125	1070					
0	11667	3536	10500	3199	9333	2863	8167	2526	7000	2189	5833	1853	4667	1516	3500	1179	3194	1091	3194	1091					
1	11920	3603	10728	3260	9536	2917	8344	2574	7152	2231	5960	1888	4768	1545	3576	1202	3264	1112	3264	1112					
2	12174	3671	10957	3321	9739	2972	8522	2622	7304	2273	6087	1923	4870	1574	3652	1224	3333	1133	3333	1133					
3	12373	3720	11136	3366	9899	3012	8661	2658	7424	2303	6187	1949	4949	1595	3712	1241	3388	1148	3388	1148					
4	12573	3770	11315	3411	10058	3052	8801	2693	7544	2334	6286	1975	5029	1616	3772	1257	3443	1163	3443	1163					
5	12772	3819	11495	3455	10218	3092	8941	2728	7663	2364	6386	2001	5109	1637	3832	1274	3497	1178	3497	1178					
6	12972	3868	11675	3500	10393	3136	9145	2717	7820	2528	6583	2040	5247	1658	3912	1291	3578	1196	3578	1196					
7	13172	3917	11855	3545	10538	3172	9221	2706	7936	2568	6700	2069	5336	1679	4000	1312	3668	1215	3668	1215					
8	13372	3966	12035	3590	10698	3212	9361	2699	8049	2608	6817	2107	5434	1699	4081	1333	3758	1233	3758	1233					
9	13572	4015	12215	3635	10858	3252	9501	2642	8167	2648	6934	2149	5523	1720	4152	1354	3848	1251	3848	1251					
10	13772	4064	12395	3680	11018	3292	9641	2585	8285	2688	7050	2189	5612	1740	4232	1375	3938	1269	3938	1269					
11	13972	4113	12575	3725	11178	3332	9781	2528	8406	2727	7167	2229	5699	1760	4312	1396	4028	1287	4028	1287					
12	14172	4162	12755	3770	11338	3372	9921	2471	8523	2767	7284	2269	5787	1780	4392	1417	4118	1305	4118	1305					
13	14372	4211	12935	3815	11498	3412	10061	2414	8644	2807	7401	2309	5875	1800	4472	1438	4208	1323	4208	1323					
14	14572	4260	13115	3860	11658	3452	10201	2357	8765	2847	7518	2349	5963	1820	4552	1459	4288	1341	4288	1341					
15	14772	4309	13295	3905	11818	3492	10341	2299	8886	2886	7634	2389	6051	1840	4632	1480	4368	1359	4368	1359					
16	14972	4358	13475	3950	12018	3532	10481	2241	9007	2925	7753	2429	6139	1860	4712	1499	4448	1377	4448	1377					
17	15172	4407	13655	3995	12178	3572	10621	2183	9128	2964	7872	2469	6227	1880	4792	1518	4528	1395	4528	1395					
18	15372	4456	13835	4040	12338	3612	10761	2125	9249	3003	7991	2509	6315	1900	4872	1537	4608	1413	4608	1413					
19	15572	4505	14015	4085	12498	3652	10891	2067	9369	3043	8110	2549	6403	1920	4952	1556	4688	1431	4688	1431					
20	15772	4554	14195	4130	12658	3692	11031	2009	9489	3083	8229	2589	6491	1940	5032	1575	4768	1449	4768	1449					
21	15972	4603	14375	4175	12818	3732	11171	1951	9609	3123	8348	2629	6579	1960	5112	1594	4848	1467	4848	1467					
22	16172	4652	14555	4220	12978	3772	11311	1893	9729	3163	8467	2669	6667	1980	5192	1613	4928	1485	4928	1485					
23	16372	4701	14735	4265	13138	3812	11451	1835	9849	3203	8586	2709	6755	2000	5272	1632	5008	1503	5008	1503					
24	16572	4750	14915	4310	13298	3852	11591	1777	9969	3243	8705	2749	6843	2020	5352	1651	5088	1521	5088	1521					

Combination <Rated condition>

Indoor: RAV-HM1401CTP-E x 1, RAV-HM801CTP-E x 3, RAV-HM801CTP-E x 4
Outdoor: RAV-GM2803AT8(J)P-E

Operation range	Cooling		Heating	
	Q	P	Q	P
MINIMUM	W 4600	1330	4600	1280
Night operation 3	W 21150	8630	21600	6001

* When outside air temperature is 40°C or more, the night operation does not operate.

Cooling

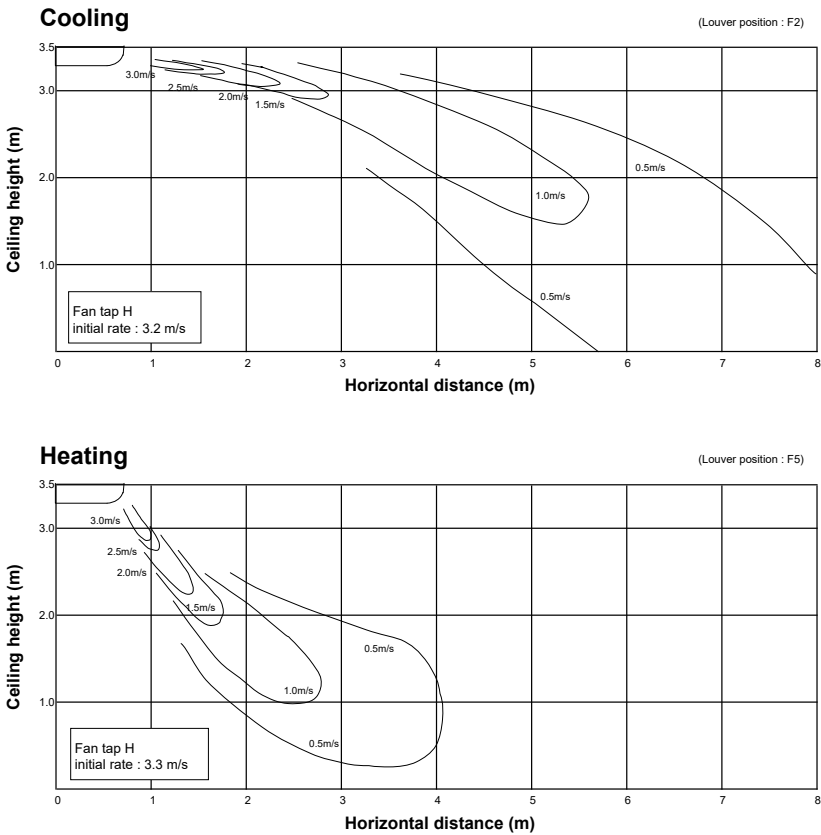
Outdoor Temperature DB (°C)	Parts Load (%)															
	100		90		80		70		60		50		40		30	
	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P
20	25221	6775	22699	6042	20177	5310	17655	4578	15133	3845	12611	3113	10089	2381	7566	1648
21	24950	6898	22455	6153	19960	5407	17465	4661	14970	3915	12475	3170	9980	2424	7485	1678
22	24679	7022	22211	6263	19743	5504	17275	4745	14807	3986	12339	3227	9871	2468	7404	1708
23	24407	7146	21966	6373	19526	5601	17085	4828	14644	4056	12204	3283	9763	2511	7322	1739
24	24136	7269	21722	6484	19309	5698	16895	4912	14481	4126	12068	3340	9654	2554	7241	1769
25	23864	7393	21478	6594	19091	5795	16705	4995	14319	4196	11932	3397	9546	2598	7159	1799
26	23593	7517	21234	6704	18874	5892	16515	5079	14156	4267	11796	3454	9437	2641	7078	1829
27	23321	7640	20989	6814	18657	5989	16325	5163	13993	4337	11661	3511	9329	2685	6996	1859
28	23050	7764	20745	6925	18440	6086	16135	5246	13830	4407	11525	3568	9220	2728	6915	1889
29	22779	7888	20501	7035	18223	6182	15945	5330	13667	4477	11389	3624	9111	2772	6834	1919
30	22507	8012	20256	7145	18006	6279	15755	5413	13504	4547	11254	3681	9003	2815	6752	1949
31	22236	8135	20012	7256	17789	6376	15565	5497	13341	4618	11118	3738	8894	2859	6671	1979
32	21964	8259	19768	7366	17571	6473	15375	5581	13179	4688	10982	3795	8786	2902	6589	2009
33	21693	8383	19524	7476	17354	6570	15185	5664	13016	4758	10846	3852	8677	2946	6508	2040
34	21421	8506	19279	7587	17137	6667	14995	5748	12853	4828	10711	3909	8569	2989	6426	2070
35	21150	8630	19035	7697	16920	6764	14805	5831	12690	4898	10575	3965	8460	3033	6345	2100
36	20879	8754	18791	7807	16703	6861	14615	5915	12527	4969	10439	4022	8351	3076	6264	2130
37	20607	8877	18546	7918	16486	6958	14425	5998	12364	5039	10304	4079	8243	3120	6182	2160
38	20336	9001	18302	8028	16269	7055	14235	6082	12201	5109	10168	4136	8134	3163	6101	2190
39	17464	6184	15718	5515	13972	4847	12225	4178	10479	3510	8732	2841	6986	2173	5239	1504
40*	18982	7645	17084	6805	15186	5965	13287	5125	11389	4285	9491	3445	7593	2604	5695	1764
41*	18559	7645	16703	6805	14847	5965	12991	5125	11135	4285	9279	3445	7424	2604	5568	1764
42*	18136	7645	16322	6805	14509	5965	12695	5125	10881	4285	9068	3445	7254	2604	5441	1764
43*	17713	7645	15941	6805	14170	5965	12399	5125	10628	4285	8856	3445	7085	2604	5314	1764
44*	15940	5946	14346	5293	12752	4639	11158	3986	9564	3333	7970	2679	6376	2026	4782	1372
45*	15517	5946	13965	5293	12414	4639	10862	3986	9310	3333	7759	2679	6207	2026	4655	1372
46*	15094	5946	13585	5293	12075	4639	10566	3986	9056	3333	7547	2679	6038	2026	4528	1372

Heating

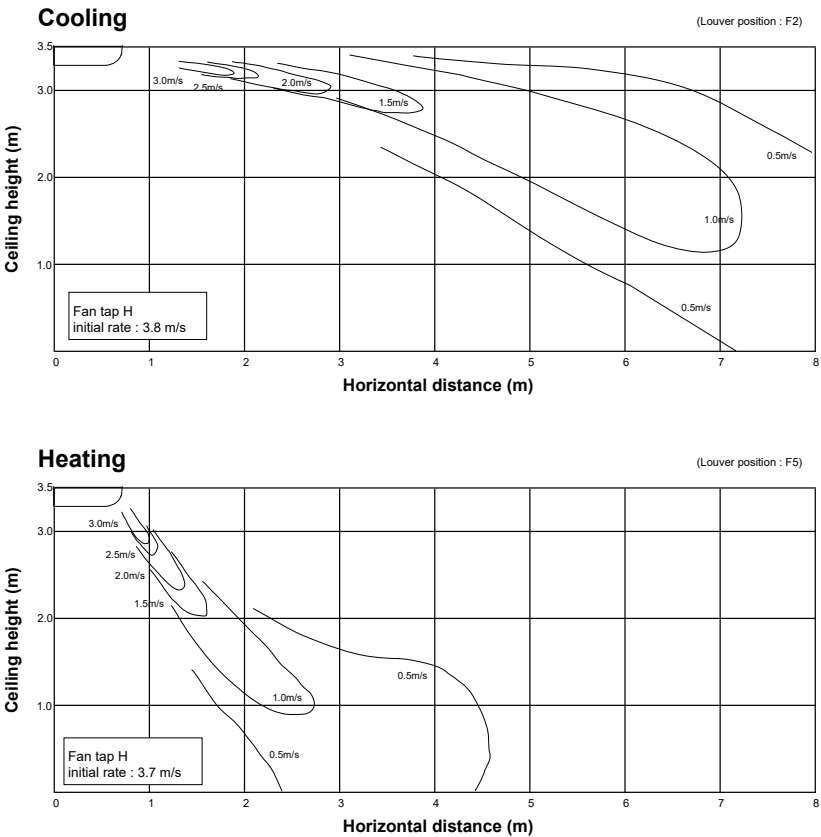
Outdoor Temperature DB (°C)	Parts Load (%)																			
	100		90		80		70		60		50		40		30		20		10	
	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P
-27	5870	2194	5283	1975	4696	1756	4109	1536	3522	1317	2935	1098	2348	878	1761	659	1250	468	1250	468
-26	6289	2327	5660	2095	5031	1862	4402	1629	3773	1397	3144	1164	2516	932	1887	699	1339	496	1339	496
-25	6708	2460	6037	2214	5366	1968	4696	1723	4025	1477	3354	1231	2683	985	2012	739	1429	525	1429	525
-24	7127	2593	6415	2334	5702	2075	4989	1816	4276	1556	3564	1297	2851	1038	2138	779	1518	553	1518	553
-23	7547	2726	6792	2454	6037	2181	5283	1909	4528	1636	3773	1364	3019	1091	2264	819	1607	581	1607	581
-22	7966	2859	7169	2573	6373	2288	5576	2002	4780	1716	3983	1430	3186	1144	2390	859	1696	610	1696	610
-21	8385	2992	7547	2693	6708	2394	5870	2095	5031	1796	4193	1497	3354	1198	2516	898	1786	638	1786	638
-20	8804	3125	7924	2813	7043	2500	6163	2188	5283	1875	4402	1563	3522	1251	2641	938	1875	667	1875	667
-19	9098	3213	8188	2892	7278	2570	6368	2249	5459	1928	4549	1607	3639	1286	2729	965	1938	685	1938	685
-18	9391	3300	8452	2971	7513	2641	6574	2311	5635	1981	4696	1651	3757	1321	2817	991	2000	704	2000	704
-17	9685	3388	8716	3050	7748	2711	6779	2372	5811	2034	4842	1695	3874	1356	2905	1017	2063	723	2063	723
-16	9978	3476	8980	3129	7983	2781	6985	2434	5987	2086	4989	1739	3991	1391	2993	1044	2125	741	2125	741
-15	10272	3564	9245	3208	8217	2851	7190	2495	6163	2139	5136	1783	4109	1426	3082	1070	2188	760	2188	760
-14	10577	3672	9520	3305	8462	2938	7404	2571	6346	2204	5289	1837	4231	1470	3173	1103	2253	783	2253	783
-13	10883	3781	9795	3403	8707	3025	7618	2647	6530	2269	5442	1891	4353	1513	3265	1135	2318	806	2318	806
-12	11189	3890	10070	3501	8951	3112	7832	2723	6713	2334	5594	1946	4476	1557	3357	1168	2383	830	2383	830
-11	11495	3998	10345	3599	9196	3199	8046	2799	6897	2400	5747	2000	4598	1600	3448	1201	2448	853	2448	853
-10	11800	4107	10620	3696	9440	3286	8260	2875	7080	2465	5900	2054	4720	1644	3540	1233	2513	876	2513	876
-9	12106	4216	10895	3794	9685	3373	8474	2951	7264	2530	6053	2109	4842	1687	3632	1266	2578	899	2578	899
-8	12412	4324	11171	3892	9929	3460	8688	3027	7447	2595	6206	2163	4965	1731	3724	1299	2643	922	2643	922
-7	12717	4433	11446	3990	10174	3547	8902	3104	7630	2660	6359	2217	5087	1774	3815	1331	2708	946	2708	946
-6	13043	4530	11739	4078	10435	3625	9130	3172	7826	2719	6522	2266	5217	1813	3913	1360	2778	966	2778	966
-5	13370	4628	12033	4165	10696	3703	9359	3240	8022	2778	6685	2315	5348	1852	4011	1390	2847	987	2847	987
-4	13696	4725	12326	4253	10957	3781	9587	3308	8217	2836	6848	2364	5478	1891	4109	1419	2917	1008	2917	1008
-3	14022	4823	12620	4341	11217	3859	9815	3377	8413	2895	7011	2413	5609	1930	4207	1448	2986	1029	2986	1029
-2	14348	4920	12913	4429	11478	3937	10043	3445	8609	2953	7174	2461	5739	1969	4304	1478	3056	1050	3056	1050
-1	14674	5018	13207	4516	11739	4015	10272	3513	8804	3012	7337	2510	5870	2008	4402	1507	3125	1070	3125	1070
0	15000	5116	13500	4604	12000	4093	10500	3582	9000	3070	7500	2559	6000	2048	4500	1536	3194	1091	3194	1091
1	15326	5213	13793	4692	12261	4171	10728	3650	9196	3129	7663	2608	6130	2087	4598	1565	3264	1112	3264	1112
2	15652	5311	14087	4780	12522	4249	10957	3718	9391	3187	7826	2656	6261	2126	4696	1595	3333	1133	3333	1133
3	15909	5382	14318	4844	12727	4306	11136	3768	9545	3230	7954	2692	6363	2154	4773	1616	3388	1148	3388	1148
4	16165	5453	14548	4908	12932	4363	11315	3818	9699	3273	8082	2728	6466	2183	4849	1638	3443	1163	3443	1163
5	16421	5525	14779	4973	13137	4420	11495	3868	9853	3316	8211	2764	6569	2211	4926	1659	3497	1178	3497	1178
6	21043	5908	18938	5318	16834	4727	14730	4136	12626	3546	10521	2955	8417	2365	6313	1774	4481	1260	4481	1260
7	21600	6001	19440	5401	17280	4801	15120	4201	12960	3602	10800	3002	8640	2402	6480	1802	4600	1280	4600	1280
8	22157	6094	19942	5485	17726	4876	15510	4267	13294	3657	11079	3048	8863	2439	6647	1830	4719	1300	4719	1300
9	22715	6187	20443	5568	18172	4950	15900	4332	13629	3713	11357	3095	9086	2476	6814	1858	4837	1320	4837	1320
10	23272	6280	20945	5652	18618	5024	16291	4397	13963	3769	11636	3141	9309	2514	6982	1886	4956	1339	4956	1339
11	23830	6373	21447	5736	19064	5099	16681	4462	14298	3825	11915	3188	9532	2551	7149	1914	5075	1359	5075	1359
12	24387	6466	21948	5819	19510	5173	17071	4527	14632	3880	12194	3234	9755	2588	7316	1942	5194	1379	5194	1379
13	24945	6559	22450	5903	19956	5247	17461	4592	14967	3936	12472	3281	9978	2625	7483	1970	5312	1399	5312	1399
14	25502	6651	22952	5987	20402	5322	17851	4657	15301	3992	12751	3327	10201	2662	7651	1997	5431	1419	5431	1419
15	26059	6744	23453	6070	20847	5396	18242	4722	15636	4048	13030	3374	10424	2699	7818	2025	5550	1439	5550	1439
16	26617	6837	23955	6154	21293	5470	18632	4787	15970	4104	13308	3420	10647	2737	7985	2053	5668	1458	5668	1458
17	22110	4294	19899	3864	17688	3435	15477	3006	13266	2577	11055	2148	8844	1719	6633	1289	4709	916	4709	916
18	22489	4294	20240	3864	17991	3435	15742	3006	13493	2577	11245	2148	8996	1719	6747	1289	4789	916	4789	916
19	22868	4294	20581	3864	18294	3435	16008	3006	13721	2577	11434	2148	9147	1719	6860	1289	4870	916	4870	916
20	23247	4294	20922	3864	18598	3435	16273	3006	13948	2577	11624	2148	9299	1719	6974	1289	4951	916	4951	916
21	23626	4294	21263	3864	18901	3435	16538	3006	14176	2577	11813	2148	9450	1719	7088	1289	5031	916	5031	916
22	24005	4294	21604	3864	19204	3435	16803	3006	14403	2577	12002	2148	9602	1719	7201	1289	5112	916	5112	916
23	24384	4294	21946	3864	19507	3435	17069	3006	14630	2577	12192	2148	9754	1719	7315	1289	5193	916	5193	916
24	24763	4294	22287	3864	19810	3435	17334	3006	14858	2577	12381	2148	9905	1719	7429	1289	5274	916	5274	916

2-6-6. Air Throw Distance Chart

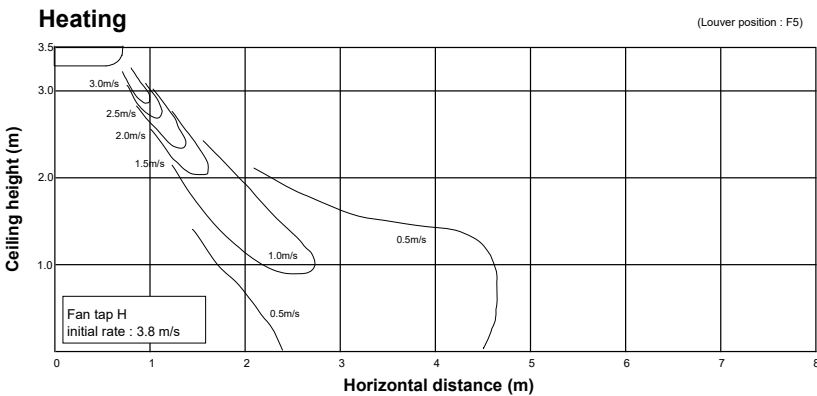
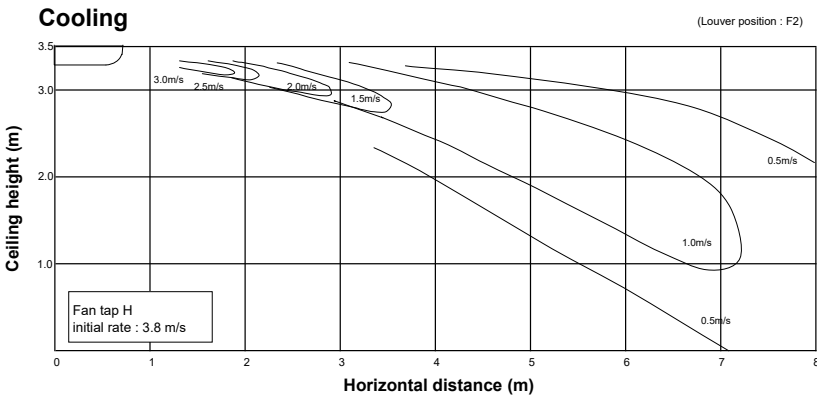
RAV-HM561CTP-E



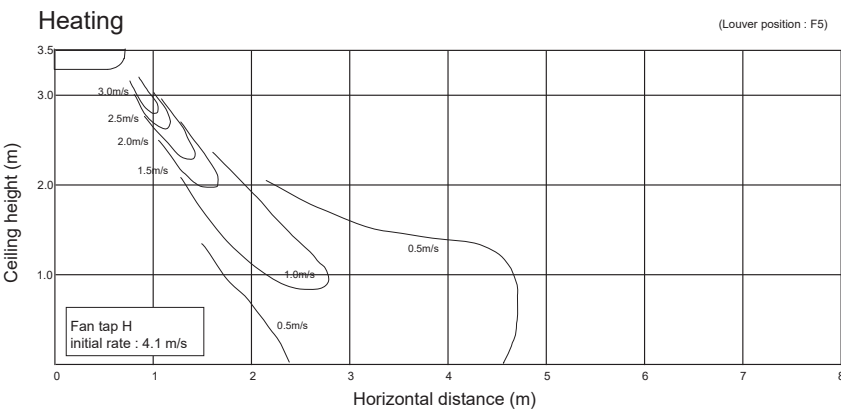
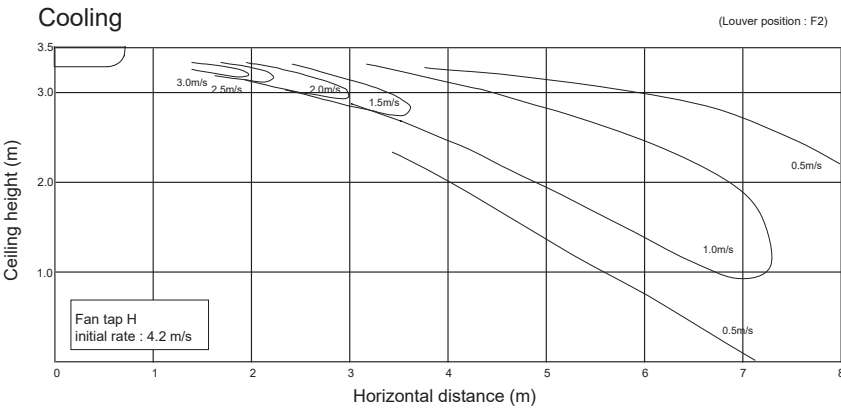
RAV-HM801CTP-E



RAV-HM1101CTP-E



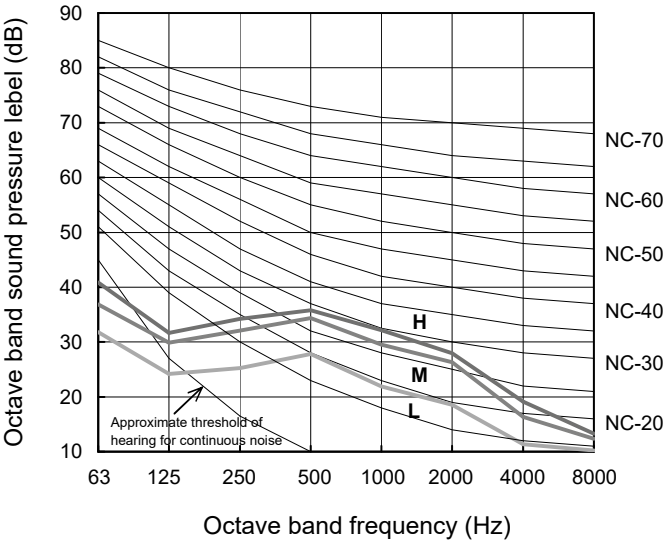
RAV-HM1401CTP-E



2-6-7. Sound Characteristics (NC curve)

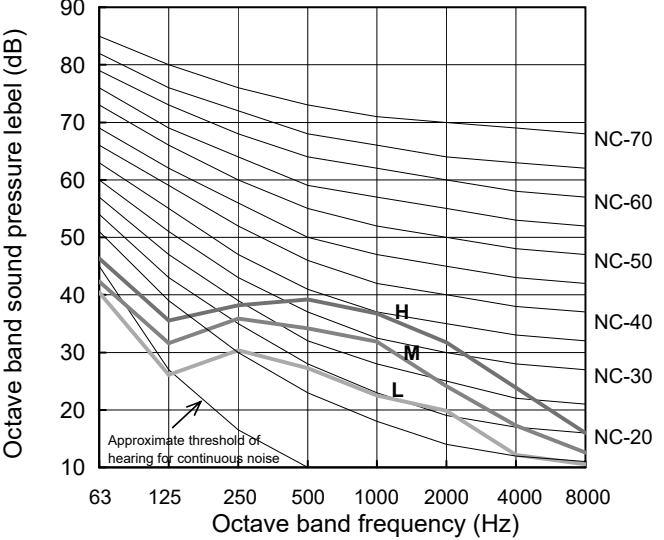
RAV-HM561CTP-E/TR

Fan tap	H	M	L
Sound pressure level (dB(A))	37	35	28



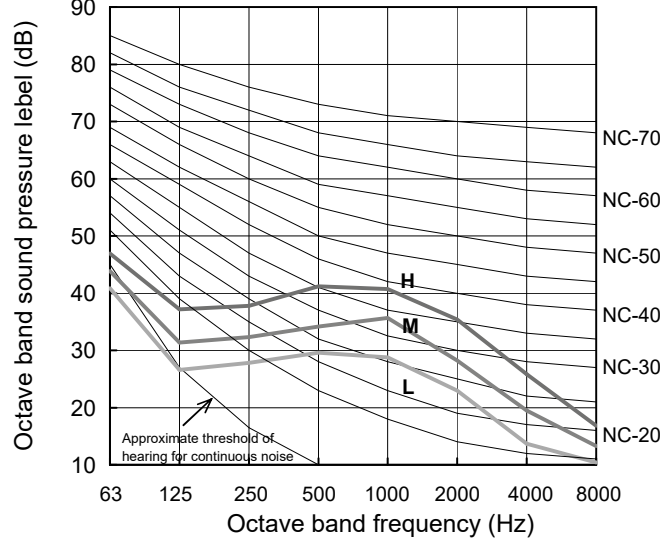
RAV-HM801CTP-E/TR

Fan tap	H	M	L
Sound pressure level (dB(A))	41	36	29



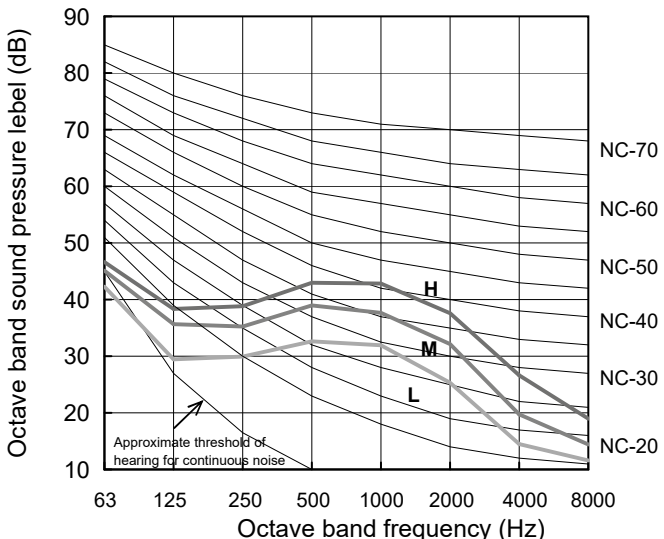
RAV-HM1101CTP-E/TR

Fan tap	H	M	L
Sound pressure level (dB(A))	44	38	32



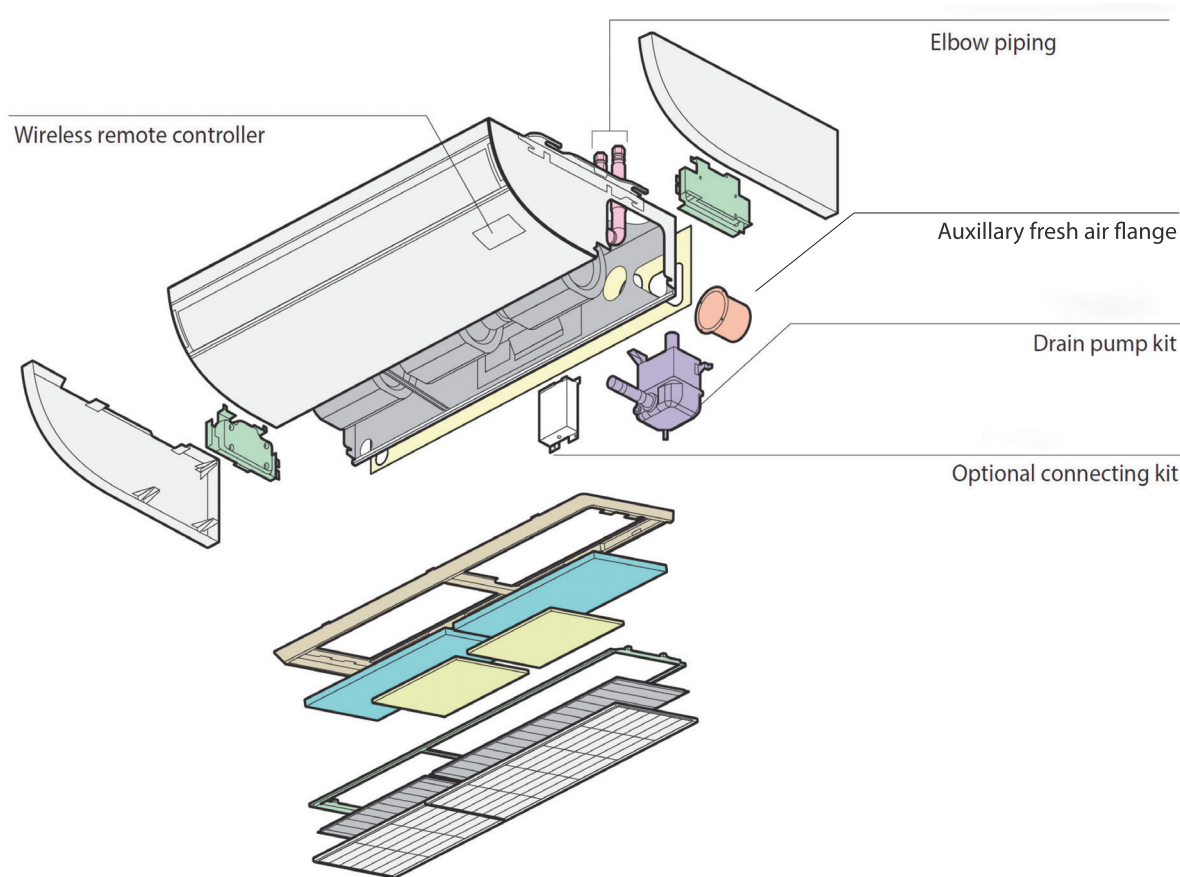
RAV-HM1401CTP-E

Fan tap	H	M	L
Sound pressure level (dB(A))	46	41	35



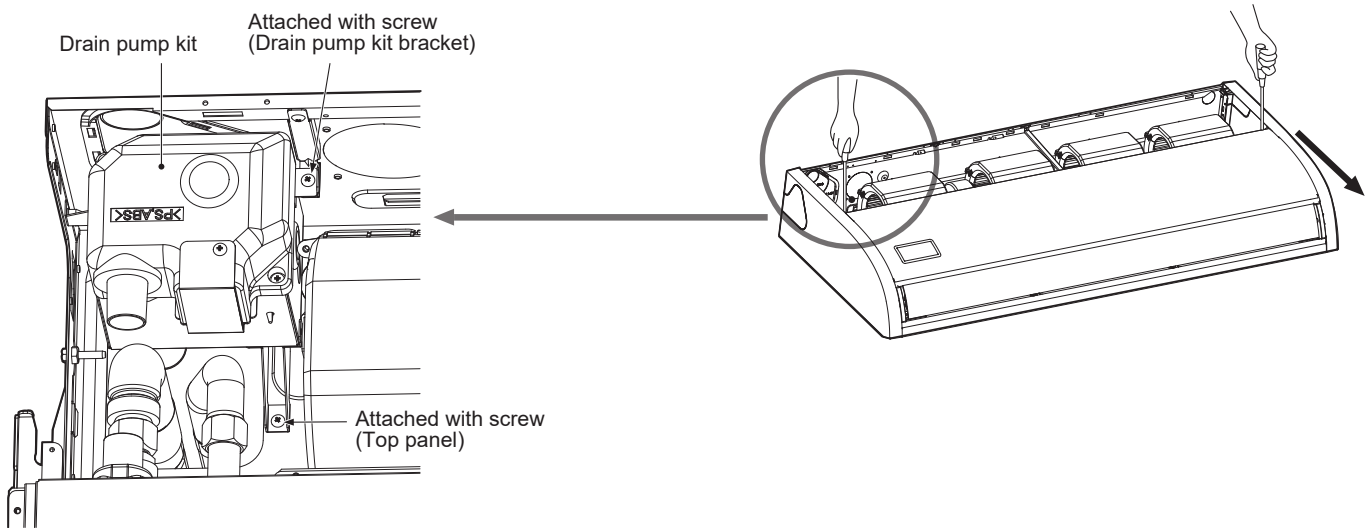
2-6-8. Accessories

Parts name	Model name	Applied Model	Feature	Remark
Wireless Remote Controller kit	RBC-AXU31C-E	All Model	-	
Drain pump kit	TCB-DP31CE	All Model	Antibacterial glass is built into Drain pump kit	
Elbow piping kit	TCB-KP14CPE	All Model	It is necessary for installation of Drain pump kit	Use with TCB-DP31CE
Option connecting kit	TCB-PCUC2E	All Model	For external I/O signal without local relay preparation	
Auxillary fresh air flange	TCB-FF101URE2	All Model		

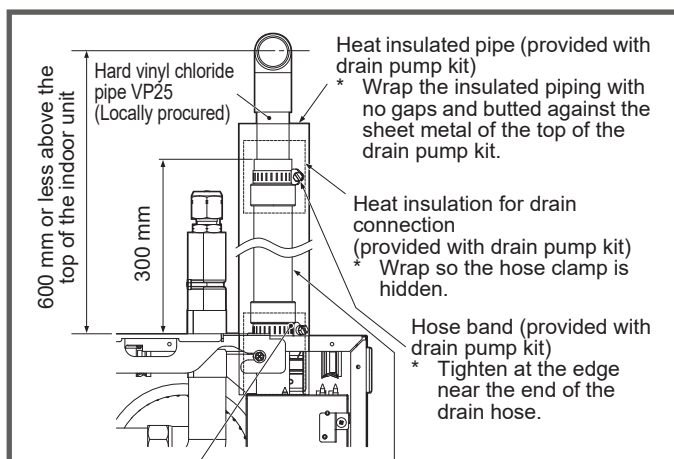
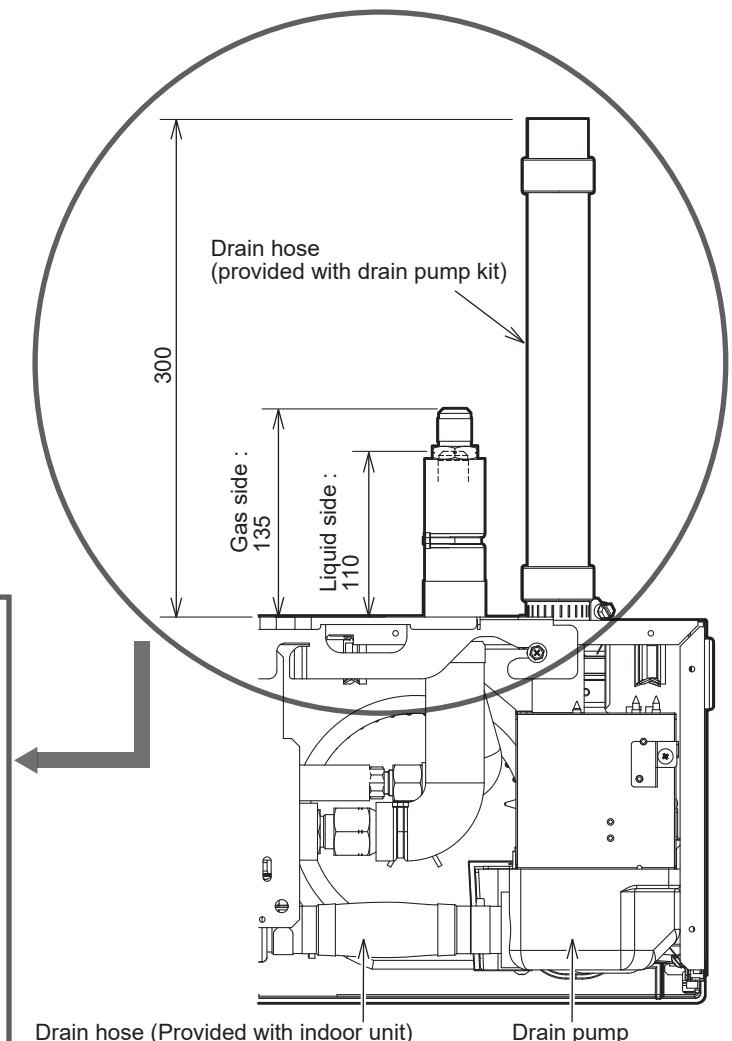
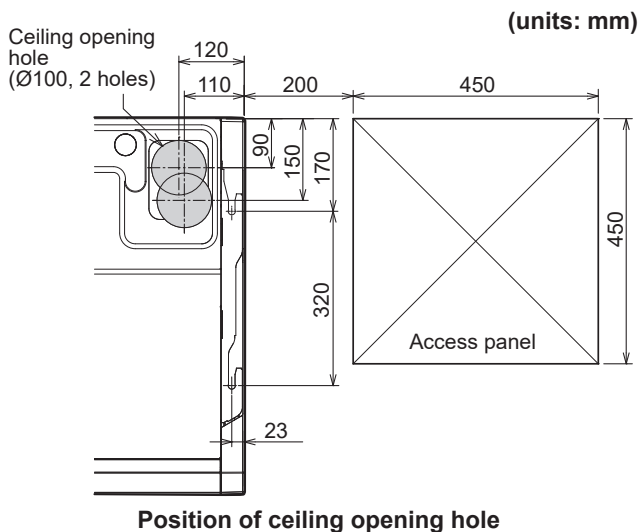


2-6.9. Appendix

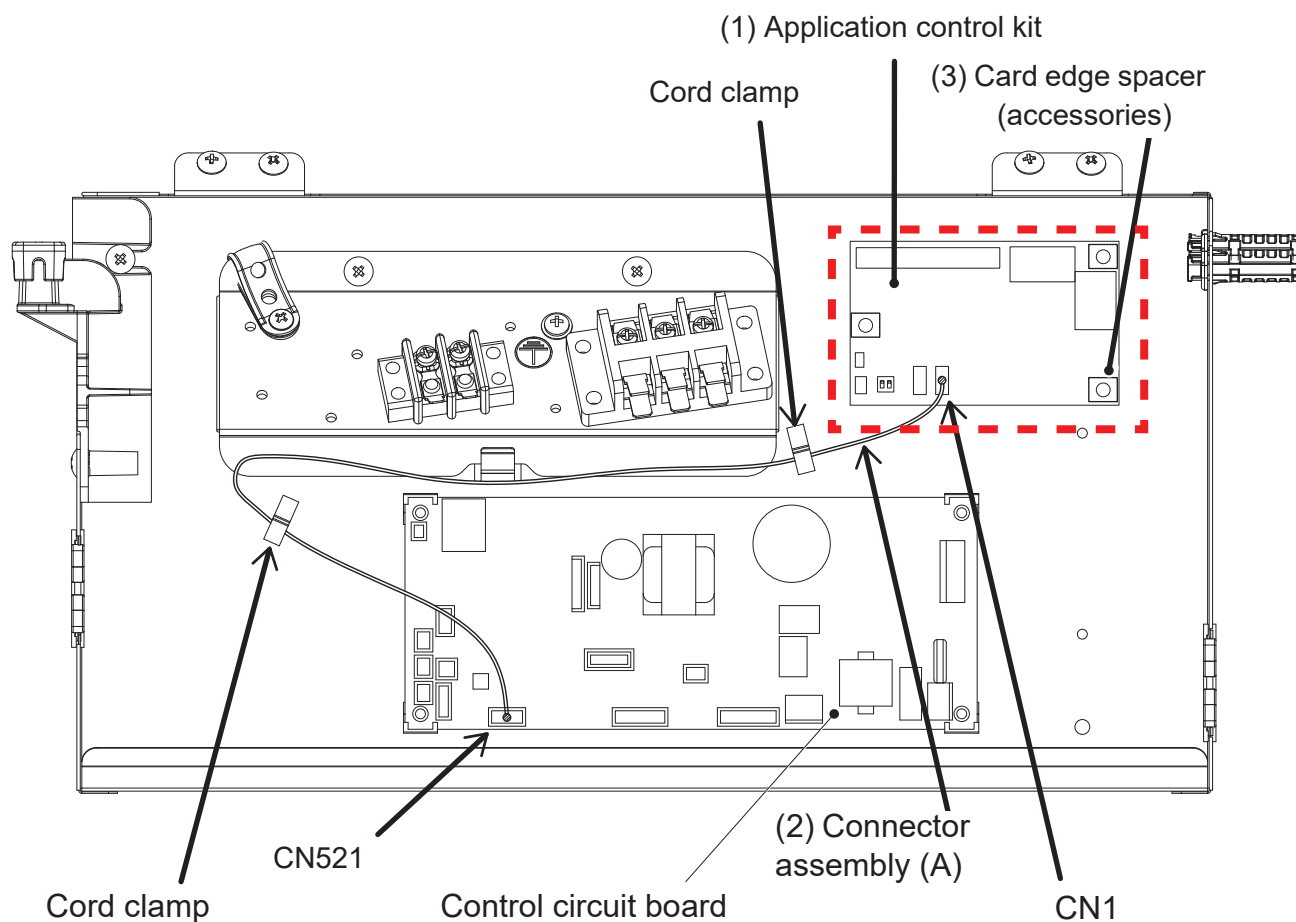
Drain pump kit : TCB-DP31CE



- The elbow piping kit (TCB-KP13CE, KP23CE) (sold separately) is also needed to install the drain pump kit because the pipes must be directed upward.
- Insulate all drain pipes.
- Cut two holes in the ceiling (Ø100) where the installation is being done through which to pass the refrigerant pipe and the drain pipe.
- Install a 450 × 450 access panel in the ceiling where the installation is being done.



Option Connecting Kit : TCB-PCUC2E



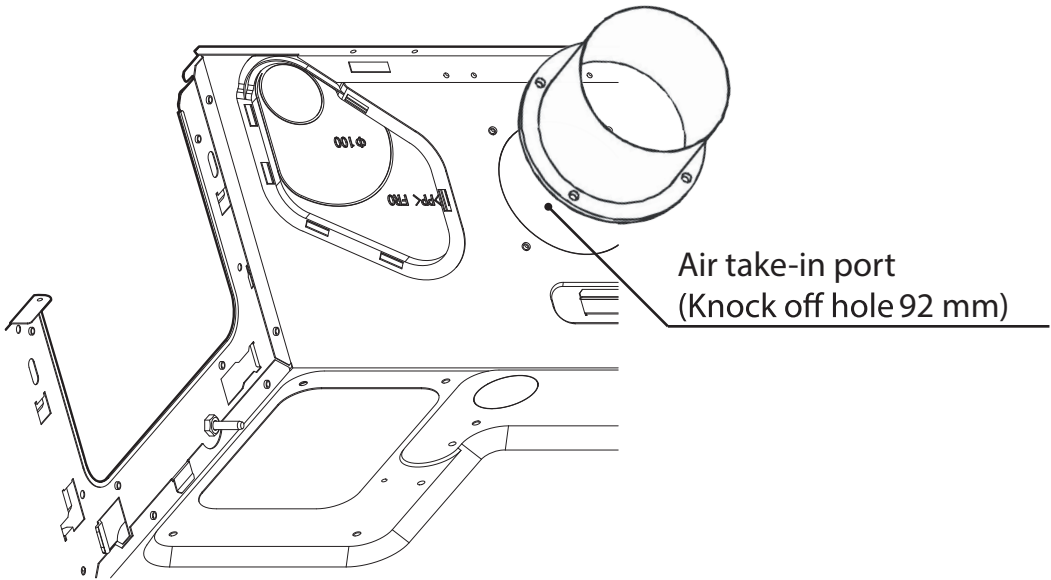
- 1 Use the (3) card edge spacers (3 pcs) provided with the electrical control box to install the (1) application control kit.
- 2 Use the (2) connector assembly (A) provided to connect CN1 on the (1) application control kit and CN521 on the indoor control circuit board, then run the wires and fix it in place with two cord clamps.

REQUIREMENT

Remove the clamp filter of (2) Connector assembly (A).

Auxiliary outside air flange : TCB-FF101URE2

Name		Q'ty
Auxiliary fresh air flange 100 mm		1



Approximately 5% or less of standard airflow volume will be reduced

2-7. Highwall Type

2-7-1. Specifications

2-7-2. Dimension

2-7-3. Wiring Diagrams

2-7-4. Sensible Capacity Table

2-7-5. Part Load Performance

2-7-6. Air Throw Distance Chart

2-7-7. Sound Characteristics (NC Curve)

2-7-1. Specification

High Wall Type

Twin combination

Model	Indoor unit		RAV	HM1101KRTP-E/TR x2
	Outdoor unit		RAV	GM2243AT8P-E/TR
Cooling capacity			(kW)	20.00
Heating capacity			(kW)	22.40
Power supply			1Ph., 220V, 60Hz. 1Ph., 220V - 240V, 50Hz.	
Electrical characteristic	Cooling	Running current	(A)	11.45
		Power consumption	(W)	7.40
		Power factor	(-)	0.94
		EER	(kW/kW)	2.69
		SEER	(kW/kW)	6.14
	Heating	Running current	(A)	11.00
		Power consumption	(W)	0.71
		Power factor	(-)	0.94
		COP	(kW/kW)	3.03
		SCOP		3.83
Outer dimension	Main unit	Height	(mm)	350
		Width	(mm)	1200
		Depth	(mm)	289
Total weight		(kg)	19	
Air flow volume		H/M/L	(m³ / h)	16/14/12
Sound pressure level		H/M+/M/L+/L	(dB·A)	49/48/45/43/41
Sound power level		H	(dB·A)	64
Connecting pipe		Gas side	(mm)	Ø 28.6
		Liquid side	(mm)	Ø 12.7
Fan motor			(W)	61
Air filter				Standard filter (Long life filter)
Controller				WH-TA08NE

Note : Rated conditions

Cooling : Indoor air tempreature 27 °C DB/ 19°C WB, Outdoor 35 °C DB
Heating : Indoor air tempreature 20 °C DB, Outdoor 7°C DB / 6°C WB

High Wall Type

Triple combination

Model	Indoor unit		RAV	HM801KRTP-E/TR x3
	Outdoor unit		RAV	GM2243AT8P-E/TR
Cooling capacity			(kW)	20.00
Heating capacity			(kW)	22.40
Power supply			1Ph., 220V, 60Hz. 1Ph., 220V - 240V, 50Hz	
Electrical characteristic	Cooling	Running current	(A)	11.45
		Power consumption	(W)	7.40
		Power factor	(-)	0.94
		EER	(kW/kW)	2.69
		SEER	(kW/kW)	6.13
	Heating	Running current	(A)	11.00
		Power consumption	(W)	0.71
		Power factor	(-)	0.94
		COP	(kW/kW)	3.14
		SCOP	(kW/kW)	3.83
Outer dimension	Main unit	Height	(mm)	210
		Width	(mm)	1050
		Depth	(mm)	250
Total weight		(kg)	14	
Air flow volume		H/M/L (m³ / h)	10/9/7	
Sound pressure level		H/M+/M/L+/L (dB·A)	45/43/41/36/35	
Sound power level		H (dB·A)	60	
Connecting pipe		Gas side (mm)	Ø 28.6	
		Liquid side (mm)	Ø 12.7	
Fan motor			(W)	30
Air filter			Standard filter (Long life filter)	
Controller			WH-TA08NE	

Note : Rated conditions

Cooling : Indoor air temperature 27 °C DB/ 19°C WB, Outdoor 35 °C DB

Heating : Indoor air temperature 20 °C DB, Outdoor 7°C DB / 6°C WB

High Wall Type

Triple combination

Model	Indoor unit		RAV	HM801KRTP-E/TR x3	
	Outdoor unit		RAV	GM2803AT8P-E/TR	
Cooling capacity			(kW)	23.50	
Heating capacity			(kW)	24.00	
Power supply			1Ph., 220V, 60Hz. 1Ph., 220V - 240V, 50Hz.		
Electrical characteristic	Cooling	Running current		(A)	17.00
		Power consumption		(W)	10.96
		Power factor		(-)	0.93
		EER		(kW/kW)	2.14
		SEER		(kW/kW)	5.32
	Heating	Running current		(A)	12.00
		Power consumption		(W)	7.74
		Power factor		(-)	0.93
		COP		(kW/kW)	3.10
		SCOP		(kW/kW)	3.59
Outer dimension	Main unit	Height		(mm)	210
		Width		(mm)	1050
		Depth		(mm)	250
Total weight				(kg)	14
Air flow volume		H/M/L		(m ³ / h)	10/9/7
Sound pressure level		H/M+/M/L +/L		(dB·A)	45/43/41/36/35
Sound power level		H		(dB·A)	60
Connecting pipe		Gas side		(mm)	Ø 28.6
		Liquid side		(mm)	Ø 12.7
Fan motor			(W)		30
Air filter			Standard filter (Long life filter)		
Controller			WH-TA08NE		

Note : Rated conditions

Cooling : Indoor air temperature 27 °C DB/ 19°C WB, Outdoor 35 °C DB

Heating : Indoor air temperature 20 °C DB, Outdoor 7°C DB / 6°C WB

High Wall Type

Double Twin combination

Model	Indoor unit		RAV	HM561KRTP-E/TR x 4
	Outdoor unit		RAV	GM2243AT8P-E/TR
Cooling capacity			(kW)	20.00
Heating capacity			(kW)	22.40
Power supply			1Ph., 220V, 60Hz. 1Ph., 220V - 240V, 50Hz.	
Electrical characteristic	Cooling	Running current	(A)	11.45
		Power consumption	(W)	0.74
		Power factor	(-)	0.94
		EER	(kW/kW)	2.69
		SEER	(kW/kW)	6.10
	Heating	Running current	(A)	11.00
		Power consumption	(W)	0.71
		Power factor	(-)	0.94
		COP	(kW/kW)	3.14
		SCOP	(kW/kW)	3.82
Outer dimension	Main unit	Height	(mm)	210
		Width	(mm)	1050
		Depth	(mm)	250
Total weight		(kg)	14	
Air flow volume		H/M/L (m³ / h)	10/8/7	
Sound pressure level		H/M+/M/L+/L (dB·A)	42/41/39/36/35	
Sound power level		H (dB·A)	57	
Connecting pipe		Gas side (mm)	Ø 28.6	
		Liquid side (mm)	Ø 12.7	
Fan motor			(W)	30
Air filter			Standard filter (Long life filter)	
Controller			WH-TA08NE	

Note : Rated conditions

Cooling : Indoor air temperature 27 °C DB/ 19°C WB, Outdoor 35 °C DB

Heating : Indoor air temperature 20 °C DB, Outdoor 7°C DB / 6°C WB

High Wall Type

Double Twin combination

Model	Indoor unit		RAV	HM801KRTP-E/TR x4
	Outdoor unit		RAV	GM2803AT8P-E/TR
Cooling capacity			(kW)	23.50
Heating capacity			(kW)	24.00
Power supply			1Ph., 220V, 60Hz. 1Ph., 220V - 240V, 50Hz.	
Electrical characteristic	Cooling	Running current	(A)	17.00
		Power consumption	(W)	1.06
		Power factor	(-)	0.93
		EER	(kW/kW)	2.14
		SEER	(kW/kW)	5.32
	Heating	Running current	(A)	12.00
		Power consumption	(W)	0.78
		Power factor	(-)	0.93
		COP	(kW/kW)	3.10
		SCOP	(kW/kW)	3.59
Outer dimension	Main unit	Height	(mm)	210
		Width	(mm)	1050
		Depth	(mm)	250
Total weight		(kg)	14	
Air flow volume		H/M/L	(m ³ / h)	10/9/7
Sound pressure level		H/M+/M/L+/L	(dB·A)	45/43/41/36/35
Sound power level		H	(dB·A)	60
Connecting pipe		Gas side	(mm)	Ø 28.6
		Liquid side	(mm)	Ø 12.7
Fan motor			(W)	30
Air filter				Standard filter (Long life filter)
Controller				WH-TA08NE

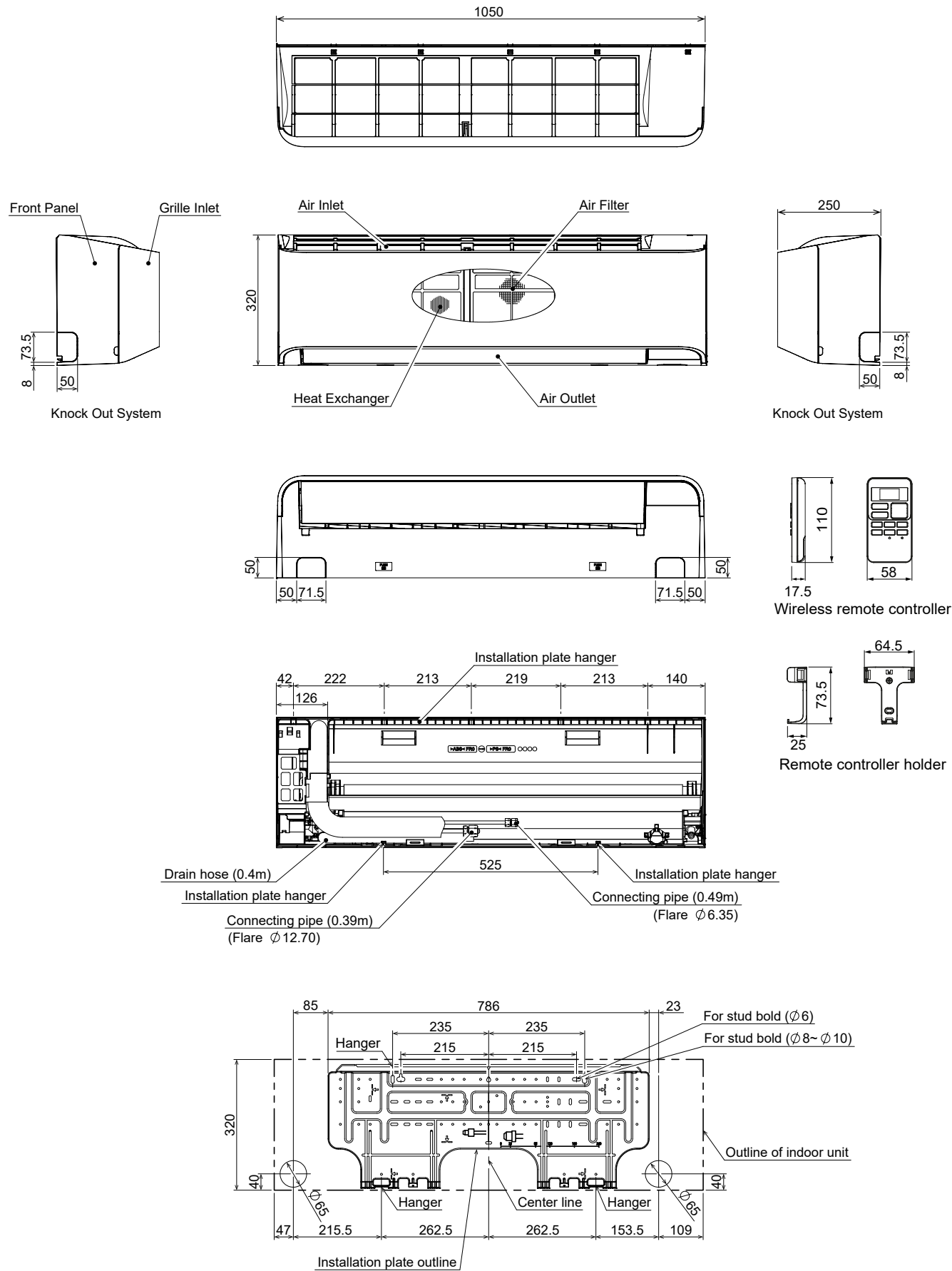
Note : Rated conditions

Cooling : Indoor air tempreature 27 °C DB/ 19°C WB, Outdoor 35 °C DB

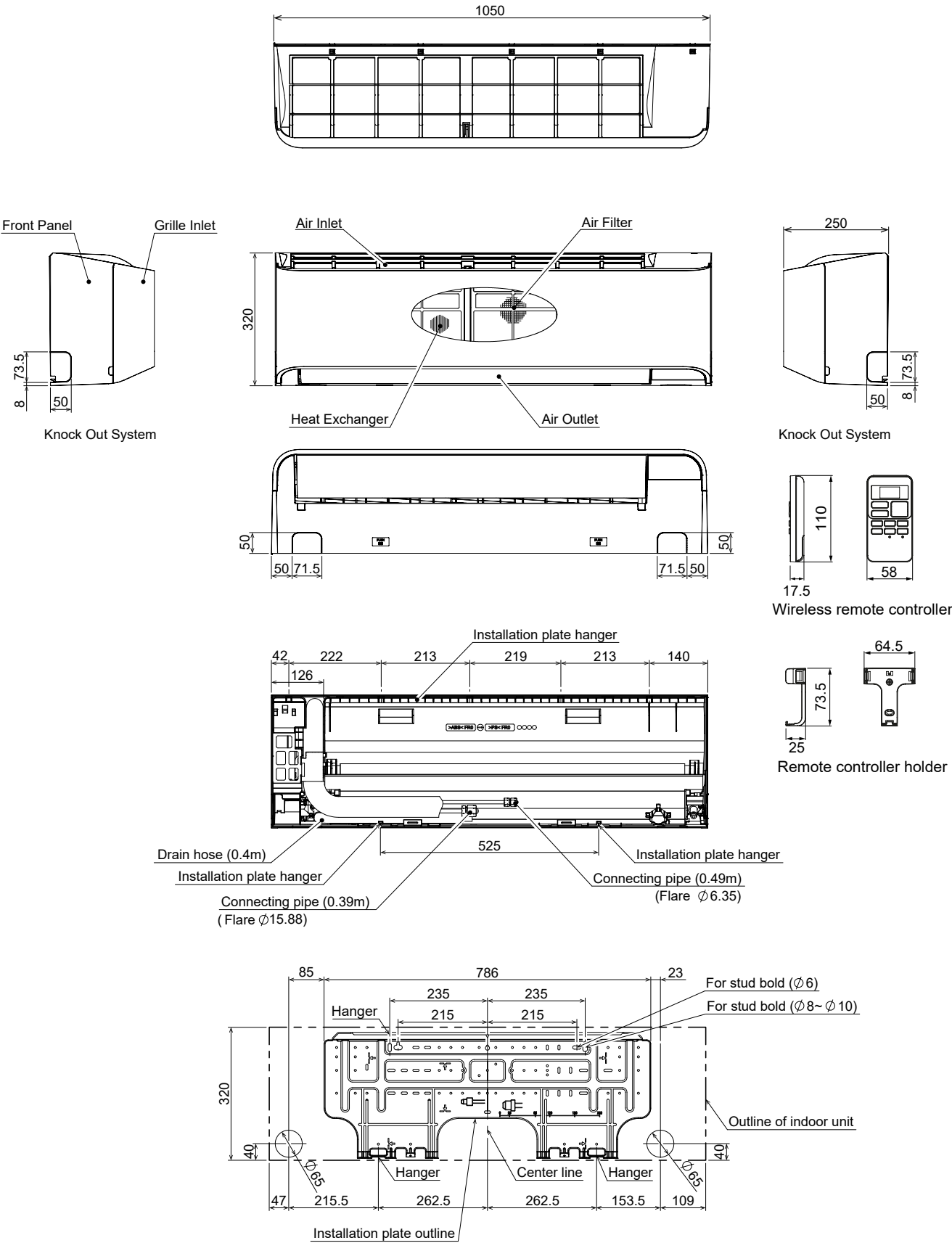
Heating : Indoor air tempreature 20 °C DB, Outdoor 7°C DB / 6°C WB

2-7-2. Dimension

RAV-HM561KRTP-E/TR

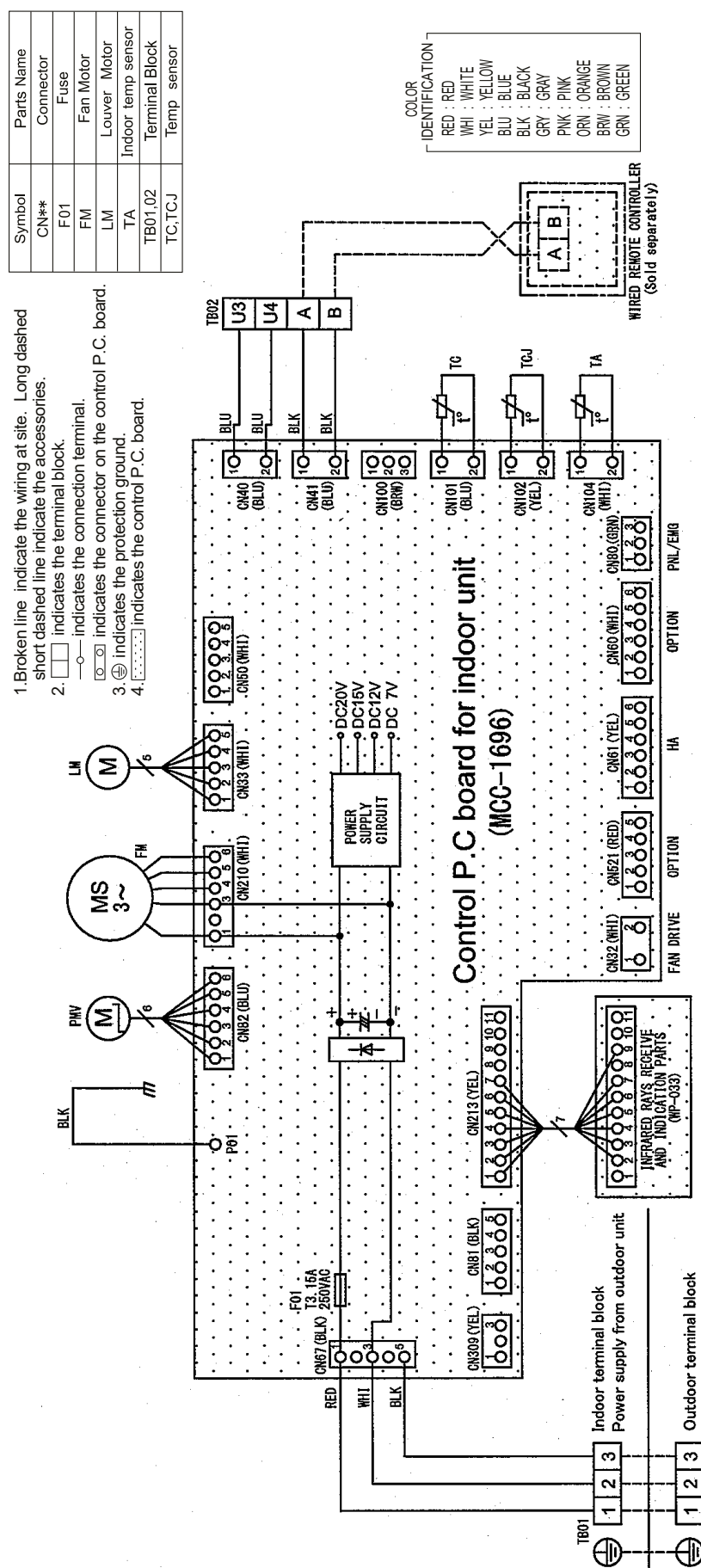


RAV-HM801KRTP-E/TR



2-7-3. Wiring Diagrams

RAV-HM561KRTP-E/TR and RAV-HM801KRTP-E/TR



2-7-4. Sensible Capacity Table

Product models : RAV-GM2243AT8P-E / RAV-HM1101KRTP-E (Twin)

Standard Condition

Indoor	27.0 °C DB / 19.0 °C WB
Outdoor	35.0 °C DB / 24.0 °C WB

Specification of product at standard condition.

Total Cooling Capacity (TC)	10.00 kW
Sensible Heat Capacity (SHC)	7.70 kW

Outdoor air temp.	Indoor Air temperature																	
	14.0 °C WB		15.0 °C WB		16.0 °C WB		17.0 °C WB		18.0 °C WB		19.0 °C WB		20.0 °C WB		22.0 °C WB		24.0 °C WB	
	20.0 °C DB		21.0 °C DB		23.0 °C DB		24.0 °C DB		26.0 °C DB		27.0 °C DB		28.0 °C DB		30.0 °C DB		32.0 °C DB	
°C DB	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
10.0	10.85	9.01	11.23	9.22	11.98	9.60	12.27	9.80	12.83	10.20	13.21	10.17	13.59	10.15	14.39	10.03	15.05	9.81
12.0	10.64	8.84	11.01	9.04	11.75	9.41	12.03	9.61	12.58	10.00	12.95	9.97	13.32	9.96	14.11	9.84	14.76	9.62
14.0	10.43	8.66	10.79	8.86	11.52	9.22	11.79	9.42	12.33	9.80	12.70	9.78	13.06	9.76	13.83	9.64	14.46	9.43
16.0	10.22	8.49	10.57	8.68	11.28	9.04	11.55	9.23	12.08	9.61	12.44	9.58	12.79	9.56	13.55	9.45	14.17	9.24
18.0	10.01	8.31	10.35	8.50	11.05	8.85	11.31	9.04	11.83	9.41	12.18	9.38	12.53	9.36	13.27	9.25	13.88	9.05
20.0	9.80	8.14	10.14	8.32	10.82	8.66	11.07	8.85	11.58	9.21	11.93	9.18	12.27	9.17	12.99	9.06	13.59	8.86
21.0	9.69	8.05	10.03	8.23	10.70	8.57	10.95	8.75	11.46	9.11	11.80	9.08	12.13	9.07	12.85	8.96	13.44	8.76
23.0	9.48	7.88	9.81	8.05	10.47	8.38	10.72	8.56	11.21	8.91	11.54	8.89	11.87	8.87	12.57	8.76	13.15	8.57
25.0	9.27	7.70	9.59	7.87	10.24	8.20	10.48	8.37	10.96	8.71	11.28	8.69	11.61	8.67	12.29	8.57	12.86	8.38
27.0	9.06	7.52	9.37	7.69	10.00	8.01	10.24	8.18	10.71	8.52	11.03	8.49	11.34	8.48	12.01	8.37	12.56	8.19
29.0	8.85	7.35	9.15	7.51	9.77	7.83	10.00	7.99	10.46	8.32	10.77	8.29	11.08	8.28	11.73	8.18	12.27	8.00
31.0	8.64	7.17	8.94	7.34	9.54	7.64	9.76	7.80	10.21	8.12	10.51	8.10	10.81	8.08	11.45	7.98	11.98	7.81
33.0	8.42	7.00	8.72	7.16	9.30	7.45	9.52	7.61	9.96	7.92	10.26	7.90	10.55	7.88	11.17	7.79	11.69	7.62
35.0	8.21	6.82	8.50	6.98	9.07	7.27	9.29	7.42	9.71	7.72	10.00	7.70	10.29	7.69	10.89	7.59	11.39	7.43
37.0	8.00	6.65	8.28	6.80	8.84	7.08	9.05	7.23	9.46	7.52	9.74	7.50	10.02	7.49	10.61	7.40	11.10	7.24
39.0	7.57	6.29	7.83	6.43	8.36	6.70	8.56	6.84	8.95	7.12	9.22	7.10	9.48	7.08	10.04	7.00	10.50	6.84
40.0	7.42	6.17	7.68	6.30	8.20	6.57	8.39	6.70	8.78	6.98	9.04	6.96	9.29	6.95	9.84	6.86	10.29	6.71
42.0	7.13	5.92	7.37	6.05	7.87	6.30	8.06	6.44	8.43	6.70	8.68	6.68	8.92	6.67	9.45	6.59	9.89	6.44
43.0	6.98	5.80	7.22	5.93	7.71	6.17	7.89	6.30	8.25	6.56	8.50	6.54	8.74	6.53	9.26	6.45	9.68	6.31
45.0	6.04	5.02	6.25	5.13	6.67	5.34	6.83	5.46	7.14	5.68	7.36	5.66	7.57	5.65	8.01	5.59	8.38	5.46
46.0	5.89	4.90	6.10	5.01	6.51	5.21	6.66	5.32	6.97	5.54	7.18	5.53	7.38	5.52	7.82	5.45	8.18	5.33

Product models : RAV-GM2243AT8P-E / RAV-HM801KRTP-E (Triple)

Standard Condition

Indoor	27.0 °C DB / 19.0 °C WB
Outdoor	35.0 °C DB / 24.0 °C WB

Specification of product at standard condition.

Total Cooling Capacity (TC)	7.10 kW
Sensible Heat Capacity (SHC)	5.00 kW

	Indoor Air temperature																	
Outdoor air temp. °C DB	14.0 °C WB		15.0 °C WB		16.0 °C WB		17.0 °C WB		18.0 °C WB		19.0 °C WB		20.0 °C WB		22.0 °C WB		24.0 °C WB	
	20.0 °C DB		21.0 °C DB		23.0 °C DB		24.0 °C DB		26.0 °C DB		27.0 °C DB		28.0 °C DB		30.0 °C DB		32.0 °C DB	
	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
10.0	7.70	5.89	7.97	6.02	8.51	6.25	8.71	6.39	9.11	6.64	9.38	6.60	9.65	6.57	10.22	6.45	10.68	6.26
12.0	7.55	5.78	7.82	5.90	8.34	6.13	8.54	6.26	8.93	6.51	9.20	6.48	9.46	6.45	10.02	6.32	10.48	6.14
14.0	7.40	5.66	7.66	5.78	8.18	6.01	8.37	6.14	8.76	6.38	9.01	6.35	9.27	6.32	9.82	6.20	10.27	6.02
16.0	7.25	5.55	7.51	5.67	8.01	5.89	8.20	6.01	8.58	6.26	8.83	6.22	9.08	6.19	9.62	6.07	10.06	5.90
18.0	7.10	5.43	7.35	5.55	7.85	5.77	8.03	5.89	8.40	6.13	8.65	6.09	8.90	6.06	9.42	5.95	9.85	5.78
20.0	6.95	5.32	7.20	5.43	7.68	5.65	7.86	5.76	8.22	6.00	8.47	5.96	8.71	5.94	9.22	5.82	9.65	5.65
21.0	6.88	5.26	7.12	5.38	7.60	5.59	7.78	5.70	8.14	5.93	8.38	5.90	8.62	5.87	9.12	5.76	9.54	5.59
23.0	6.73	5.15	6.96	5.26	7.43	5.46	7.61	5.58	7.96	5.80	8.19	5.77	8.43	5.74	8.93	5.64	9.33	5.47
25.0	6.58	5.03	6.81	5.14	7.27	5.34	7.44	5.45	7.78	5.67	8.01	5.64	8.24	5.62	8.73	5.51	9.13	5.35
27.0	6.43	4.92	6.65	5.02	7.10	5.22	7.27	5.33	7.61	5.55	7.83	5.51	8.05	5.49	8.53	5.38	8.92	5.23
29.0	6.28	4.81	6.50	4.91	6.94	5.10	7.10	5.21	7.43	5.42	7.65	5.39	7.87	5.36	8.33	5.26	8.71	5.11
31.0	6.13	4.69	6.34	4.79	6.77	4.98	6.93	5.08	7.25	5.29	7.46	5.26	7.68	5.23	8.13	5.13	8.50	4.98
33.0	5.98	4.58	6.19	4.67	6.61	4.86	6.76	4.96	7.07	5.16	7.28	5.13	7.49	5.10	7.93	5.01	8.30	4.86
35.0	5.83	4.46	6.03	4.56	6.44	4.74	6.59	4.83	6.90	5.03	7.10	5.00	7.30	4.98	7.73	4.88	8.09	4.74
37.0	5.68	4.35	5.88	4.44	6.28	4.61	6.42	4.71	6.72	4.90	6.92	4.87	7.12	4.85	7.54	4.76	7.88	4.62
39.0	5.37	4.11	5.56	4.20	5.94	4.36	6.08	4.46	6.36	4.63	6.54	4.61	6.73	4.59	7.13	4.50	7.45	4.37
40.0	5.27	4.03	5.45	4.12	5.82	4.28	5.96	4.37	6.23	4.54	6.42	4.52	6.60	4.50	6.99	4.41	7.31	4.28
42.0	5.06	3.87	5.24	3.95	5.59	4.11	5.72	4.19	5.98	4.36	6.16	4.34	6.34	4.32	6.71	4.24	7.02	4.11
43.0	4.96	3.79	5.13	3.87	5.47	4.02	5.60	4.11	5.86	4.27	6.03	4.25	6.21	4.23	6.57	4.15	6.87	4.03
45.0	4.29	3.28	4.44	3.35	4.74	3.48	4.85	3.56	5.07	3.70	5.22	3.68	5.37	3.66	5.69	3.59	5.95	3.49
46.0	4.18	3.20	4.33	3.27	4.62	3.40	4.73	3.47	4.95	3.61	5.09	3.59	5.24	3.57	5.55	3.50	5.80	3.40

Product models : RAV-GM2243AT8P-E / RAV-HM561KRTP-E (Double twin)

Standard Condition

Indoor	27.0 °C DB / 19.0 °C WB
Outdoor	35.0 °C DB / 24.0 °C WB

Specification of product at standard condition.

Total Cooling Capacity (TC)	5.00 kW
Sensible Heat Capacity (SHC)	4.10 kW

Outdoor air temp. °C DB	Indoor Air temperature																	
	14.0 °C WB		15.0 °C WB		16.0 °C WB		17.0 °C WB		18.0 °C WB		19.0 °C WB		20.0 °C WB		22.0 °C WB		24.0 °C WB	
	20.0 °C DB		21.0 °C DB		23.0 °C DB		24.0 °C DB		26.0 °C DB		27.0 °C DB		28.0 °C DB		30.0 °C DB		32.0 °C DB	
	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
10.0	5.42	4.78	5.61	4.89	5.99	5.10	6.13	5.21	6.42	5.42	6.60	5.42	6.79	5.42	7.19	5.38	7.52	5.28
12.0	5.32	4.69	5.50	4.79	5.87	5.00	6.01	5.11	6.29	5.32	6.48	5.31	6.66	5.31	7.05	5.27	7.38	5.18
14.0	5.21	4.59	5.40	4.70	5.76	4.90	5.89	5.00	6.17	5.21	6.35	5.20	6.53	5.21	6.91	5.17	7.23	5.08
16.0	5.11	4.50	5.29	4.60	5.64	4.80	5.78	4.90	6.04	5.10	6.22	5.10	6.40	5.10	6.77	5.06	7.09	4.97
18.0	5.00	4.41	5.18	4.51	5.52	4.70	5.66	4.80	5.92	5.00	6.09	4.99	6.27	5.00	6.63	4.96	6.94	4.87
20.0	4.90	4.31	5.07	4.41	5.41	4.60	5.54	4.70	5.79	4.89	5.96	4.89	6.13	4.89	6.49	4.85	6.79	4.77
21.0	4.84	4.27	5.01	4.37	5.35	4.55	5.48	4.65	5.73	4.84	5.90	4.84	6.07	4.84	6.43	4.80	6.72	4.72
23.0	4.74	4.17	4.90	4.27	5.23	4.45	5.36	4.55	5.60	4.74	5.77	4.73	5.94	4.73	6.29	4.70	6.57	4.61
25.0	4.63	4.08	4.80	4.18	5.12	4.36	5.24	4.45	5.48	4.63	5.64	4.63	5.80	4.63	6.15	4.59	6.43	4.51
27.0	4.53	3.99	4.69	4.08	5.00	4.26	5.12	4.35	5.36	4.53	5.51	4.52	5.67	4.52	6.01	4.49	6.28	4.41
29.0	4.42	3.90	4.58	3.99	4.88	4.16	5.00	4.25	5.23	4.42	5.39	4.42	5.54	4.42	5.87	4.38	6.14	4.31
31.0	4.32	3.80	4.47	3.89	4.77	4.06	4.88	4.14	5.11	4.31	5.26	4.31	5.41	4.31	5.73	4.28	5.99	4.20
33.0	4.21	3.71	4.36	3.80	4.65	3.96	4.76	4.04	4.98	4.21	5.13	4.21	5.28	4.21	5.59	4.17	5.84	4.10
35.0	4.11	3.62	4.25	3.70	4.54	3.86	4.64	3.94	4.86	4.10	5.00	4.10	5.14	4.10	5.45	4.07	5.70	4.00
37.0	4.00	3.52	4.14	3.61	4.42	3.76	4.52	3.84	4.73	4.00	4.87	3.99	5.01	4.00	5.31	3.97	5.55	3.90
39.0	3.78	3.33	3.92	3.41	4.18	3.56	4.28	3.63	4.48	3.78	4.61	3.78	4.74	3.78	5.02	3.75	5.25	3.68
40.0	3.71	3.27	3.84	3.34	4.10	3.49	4.20	3.56	4.39	3.71	4.52	3.70	4.65	3.71	4.92	3.68	5.15	3.61
42.0	3.56	3.14	3.69	3.21	3.94	3.35	4.03	3.42	4.21	3.56	4.34	3.56	4.46	3.56	4.73	3.53	4.94	3.47
43.0	3.49	3.07	3.61	3.14	3.85	3.28	3.95	3.35	4.13	3.49	4.25	3.48	4.37	3.48	4.63	3.46	4.84	3.40
45.0	3.02	2.66	3.13	2.72	3.34	2.84	3.42	2.90	3.57	3.02	3.68	3.02	3.78	3.02	4.01	2.99	4.19	2.94
46.0	2.95	2.60	3.05	2.66	3.25	2.77	3.33	2.83	3.49	2.94	3.59	2.94	3.69	2.94	3.91	2.92	4.09	2.87

Product models : RAV-GM2803AT8P-E / RAV-HM801KRTP-E (Triple)

Standard Condition

Indoor	27.0 °C DB / 19.0 °C WB
Outdoor	35.0 °C DB / 24.0 °C WB

Specification of product at standard condition.

Total Cooling Capacity (TC)	7.10 kW
Sensible Heat Capacity (SHC)	5.00 kW

Outdoor air temp. °C DB	Indoor Air temperature																	
	14.0 °C WB		15.0 °C WB		16.0 °C WB		17.0 °C WB		18.0 °C WB		19.0 °C WB		20.0 °C WB		22.0 °C WB		24.0 °C WB	
	20.0 °C DB		21.0 °C DB		23.0 °C DB		24.0 °C DB		26.0 °C DB		27.0 °C DB		28.0 °C DB		30.0 °C DB		32.0 °C DB	
	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
10.0	7.70	5.89	7.97	6.02	8.51	6.25	8.71	6.39	9.11	6.64	9.38	6.60	9.65	6.57	10.22	6.45	10.68	6.26
12.0	7.55	5.78	7.82	5.90	8.34	6.13	8.54	6.26	8.93	6.51	9.20	6.48	9.46	6.45	10.02	6.32	10.48	6.14
14.0	7.40	5.66	7.66	5.78	8.18	6.01	8.37	6.14	8.76	6.38	9.01	6.35	9.27	6.32	9.82	6.20	10.27	6.02
16.0	7.25	5.55	7.51	5.67	8.01	5.89	8.20	6.01	8.58	6.26	8.83	6.22	9.08	6.19	9.62	6.07	10.06	5.90
18.0	7.10	5.43	7.35	5.55	7.85	5.77	8.03	5.89	8.40	6.13	8.65	6.09	8.90	6.06	9.42	5.95	9.85	5.78
20.0	6.95	5.32	7.20	5.43	7.68	5.65	7.86	5.76	8.22	6.00	8.47	5.96	8.71	5.94	9.22	5.82	9.65	5.65
21.0	6.88	5.26	7.12	5.38	7.60	5.59	7.78	5.70	8.14	5.93	8.38	5.90	8.62	5.87	9.12	5.76	9.54	5.59
23.0	6.73	5.15	6.96	5.26	7.43	5.46	7.61	5.58	7.96	5.80	8.19	5.77	8.43	5.74	8.93	5.64	9.33	5.47
25.0	6.58	5.03	6.81	5.14	7.27	5.34	7.44	5.45	7.78	5.67	8.01	5.64	8.24	5.62	8.73	5.51	9.13	5.35
27.0	6.43	4.92	6.65	5.02	7.10	5.22	7.27	5.33	7.61	5.55	7.83	5.51	8.05	5.49	8.53	5.38	8.92	5.23
29.0	6.28	4.81	6.50	4.91	6.94	5.10	7.10	5.21	7.43	5.42	7.65	5.39	7.87	5.36	8.33	5.26	8.71	5.11
31.0	6.13	4.69	6.34	4.79	6.77	4.98	6.93	5.08	7.25	5.29	7.46	5.26	7.68	5.23	8.13	5.13	8.50	4.98
33.0	5.98	4.58	6.19	4.67	6.61	4.86	6.76	4.96	7.07	5.16	7.28	5.13	7.49	5.10	7.93	5.01	8.30	4.86
35.0	5.83	4.46	6.03	4.56	6.44	4.74	6.59	4.83	6.90	5.03	7.10	5.00	7.30	4.98	7.73	4.88	8.09	4.74
37.0	5.68	4.35	5.88	4.44	6.28	4.61	6.42	4.71	6.72	4.90	6.92	4.87	7.12	4.85	7.54	4.76	7.88	4.62
39.0	4.82	3.68	4.98	3.76	5.32	3.91	5.44	3.99	5.70	4.15	5.86	4.13	6.03	4.11	6.39	4.03	6.68	3.92
40.0	4.71	3.60	4.87	3.68	5.20	3.82	5.33	3.90	5.57	4.06	5.73	4.04	5.90	4.02	6.25	3.94	6.53	3.83
42.0	4.50	3.44	4.66	3.52	4.97	3.65	5.09	3.73	5.32	3.88	5.48	3.86	5.64	3.84	5.97	3.77	6.24	3.66
43.0	4.40	3.36	4.55	3.43	4.85	3.57	4.97	3.64	5.20	3.79	5.35	3.77	5.50	3.75	5.83	3.68	6.10	3.57
45.0	3.85	2.95	3.98	3.01	4.25	3.13	4.35	3.19	4.55	3.32	4.69	3.30	4.82	3.29	5.11	3.22	5.34	3.13
46.0	3.75	2.87	3.88	2.93	4.14	3.04	4.23	3.10	4.43	3.23	4.56	3.21	4.69	3.20	4.97	3.14	5.20	3.05

Product models : RAV-GM2803AT8P-E / RAV-HM801KRTP-E (Double twin)

Standard Condition

Indoor	27.0 °C DB / 19.0 °C WB
Outdoor	35.0 °C DB / 24.0 °C WB

Specification of product at standard condition.

Total Cooling Capacity (TC)	7.10 kW
Sensible Heat Capacity (SHC)	5.00 kW

Outdoor air temp. °C DB	Indoor Air temperature																	
	14.0 °C WB		15.0 °C WB		16.0 °C WB		17.0 °C WB		18.0 °C WB		19.0 °C WB		20.0 °C WB		22.0 °C WB		24.0 °C WB	
	20.0 °C DB		21.0 °C DB		23.0 °C DB		24.0 °C DB		26.0 °C DB		27.0 °C DB		28.0 °C DB		30.0 °C DB		32.0 °C DB	
	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
10.0	7.70	5.89	7.97	6.02	8.51	6.25	8.71	6.39	9.11	6.64	9.38	6.60	9.65	6.57	10.22	6.45	10.68	6.26
12.0	7.55	5.78	7.82	5.90	8.34	6.13	8.54	6.26	8.93	6.51	9.20	6.48	9.46	6.45	10.02	6.32	10.48	6.14
14.0	7.40	5.66	7.66	5.78	8.18	6.01	8.37	6.14	8.76	6.38	9.01	6.35	9.27	6.32	9.82	6.20	10.27	6.02
16.0	7.25	5.55	7.51	5.67	8.01	5.89	8.20	6.01	8.58	6.26	8.83	6.22	9.08	6.19	9.62	6.07	10.06	5.90
18.0	7.10	5.43	7.35	5.55	7.85	5.77	8.03	5.89	8.40	6.13	8.65	6.09	8.90	6.06	9.42	5.95	9.85	5.78
20.0	6.95	5.32	7.20	5.43	7.68	5.65	7.86	5.76	8.22	6.00	8.47	5.96	8.71	5.94	9.22	5.82	9.65	5.65
21.0	6.88	5.26	7.12	5.38	7.60	5.59	7.78	5.70	8.14	5.93	8.38	5.90	8.62	5.87	9.12	5.76	9.54	5.59
23.0	6.73	5.15	6.96	5.26	7.43	5.46	7.61	5.58	7.96	5.80	8.19	5.77	8.43	5.74	8.93	5.64	9.33	5.47
25.0	6.58	5.03	6.81	5.14	7.27	5.34	7.44	5.45	7.78	5.67	8.01	5.64	8.24	5.62	8.73	5.51	9.13	5.35
27.0	6.43	4.92	6.65	5.02	7.10	5.22	7.27	5.33	7.61	5.55	7.83	5.51	8.05	5.49	8.53	5.38	8.92	5.23
29.0	6.28	4.81	6.50	4.91	6.94	5.10	7.10	5.21	7.43	5.42	7.65	5.39	7.87	5.36	8.33	5.26	8.71	5.11
31.0	6.13	4.69	6.34	4.79	6.77	4.98	6.93	5.08	7.25	5.29	7.46	5.26	7.68	5.23	8.13	5.13	8.50	4.98
33.0	5.98	4.58	6.19	4.67	6.61	4.86	6.76	4.96	7.07	5.16	7.28	5.13	7.49	5.10	7.93	5.01	8.30	4.86
35.0	5.83	4.46	6.03	4.56	6.44	4.74	6.59	4.83	6.90	5.03	7.10	5.00	7.30	4.98	7.73	4.88	8.09	4.74
37.0	5.68	4.35	5.88	4.44	6.28	4.61	6.42	4.71	6.72	4.90	6.92	4.87	7.12	4.85	7.54	4.76	7.88	4.62
39.0	4.82	3.68	4.98	3.76	5.32	3.91	5.44	3.99	5.70	4.15	5.86	4.13	6.03	4.11	6.39	4.03	6.68	3.92
40.0	4.71	3.60	4.87	3.68	5.20	3.82	5.33	3.90	5.57	4.06	5.73	4.04	5.90	4.02	6.25	3.94	6.53	3.83
42.0	4.50	3.44	4.66	3.52	4.97	3.65	5.09	3.73	5.32	3.88	5.48	3.86	5.64	3.84	5.97	3.77	6.24	3.66
43.0	4.40	3.36	4.55	3.43	4.85	3.57	4.97	3.64	5.20	3.79	5.35	3.77	5.50	3.75	5.83	3.68	6.10	3.57
45.0	3.85	2.95	3.98	3.01	4.25	3.13	4.35	3.19	4.55	3.32	4.69	3.30	4.82	3.29	5.11	3.22	5.34	3.13
46.0	3.75	2.87	3.88	2.93	4.14	3.04	4.23	3.10	4.43	3.23	4.56	3.21	4.69	3.20	4.97	3.14	5.20	3.05

2-7-5. Part load performance

Combination <Rated condition>

Indoor: RAV-HM1101KRTP-E x 2, RAV-HM801KRTP-E x 3, RAV-HM561KRTP-E x4
Outdoor: RAV-GM2243AT8(J)P-E

Operation range	Cooling		Heating	
	Q	P	Q	P
MINIMUM	W 4600	1300	4600	1250
RATING	W 20000	7440	22400	7130

Cooling		Parts Load (%)																			
		100		90		80		70		60		50		40		30		20		10	
		Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P
Outdoor Temperature DB (°C)																					
20		23850	5840	21465	5214	19080	4588	16695	3963	14310	3337	11925	2711	9540	2085	7155	1459	5486	1021	5486	1021
21		23593	5947	21234	5310	18875	4672	16515	4035	14156	3397	11797	2760	9437	2123	7078	1485	5426	1039	5426	1039
22		23337	6054	21003	5405	18669	4756	16336	4107	14002	3458	11668	2810	9335	2161	7001	1512	5367	1058	5367	1058
23		23080	6160	20772	5500	18464	4840	16156	4180	13848	3519	11540	2859	9232	2199	6924	1539	5308	1076	5308	1076
24		22823	6267	20541	5595	18259	4924	15976	4252	13694	3580	11412	2909	9129	2237	6847	1565	5249	1095	5249	1095
25		22567	6374	20310	5690	18053	5007	15797	4324	13540	3641	11283	2958	9027	2275	6770	1592	5190	1114	5190	1114
26		22310	6480	20079	5786	17848	5091	15617	4397	13386	3702	11155	3008	8924	2313	6693	1618	5131	1132	5131	1132
27		22053	6587	19848	5881	17643	5175	15437	4469	13232	3763	11027	3057	8821	2351	6616	1645	5072	1151	5072	1151
28		21797	6694	19617	5976	17437	5259	15258	4541	13078	3824	10898	3107	8719	2389	6539	1672	5013	1170	5013	1170
29		21540	6800	19386	6071	17232	5343	15078	4614	12924	3885	10770	3156	8616	2427	6462	1698	4954	1188	4954	1188
30		21283	6907	19155	6167	17027	5426	14898	4686	12770	3946	10642	3206	8513	2465	6385	1725	4895	1207	4895	1207
31		21027	7013	18924	6262	16821	5510	14719	4758	12616	4007	10513	3255	8411	2503	6308	1752	4836	1225	4836	1225
32		20770	7120	18693	6357	16616	5594	14539	4831	12462	4068	10385	3305	8308	2541	6231	1778	4777	1244	4777	1244
33		20513	7227	18462	6452	16411	5678	14359	4903	12308	4129	10257	3354	8205	2579	6154	1805	4718	1263	4718	1263
34		20257	7333	18231	6547	16205	5761	14180	4975	12154	4189	10128	3403	8103	2618	6077	1832	4659	1281	4659	1281
35		20000	7440	18000	6643	16000	5845	14000	5048	12000	4250	10000	3453	8000	2656	6000	1858	4600	1300	4600	1300
36		19743	7547	17769	6738	15795	5929	13820	5120	11846	4311	9872	3502	7897	2694	5923	1885	4541	1319	4541	1319
37		19487	7653	17538	6833	15589	6013	13641	5192	11692	4372	9743	3552	7795	2732	5846	1911	4482	1337	4482	1337
38		19230	7760	17307	6928	15384	6097	13461	5265	11538	4433	9615	3601	7692	2770	5769	1938	4423	1356	4423	1356
39		18431	7304	16588	6521	14745	5739	12902	4956	11059	4173	9216	3390	7373	2607	5529	1824	4239	1276	4239	1276
40		18072	7304	16265	6521	14458	5739	12650	4956	10843	4173	9036	3390	7229	2607	5422	1824	4157	1276	4157	1276
41		17713	7304	15941	6521	14170	5739	12399	4956	10628	4173	8856	3390	7085	2607	5314	1824	4074	1276	4074	1276
42		17353	7304	15618	6521	13883	5739	12147	4956	10412	4173	8677	3390	6941	2607	5206	1824	3991	1276	3991	1276
43		16994	7304	15294	6521	13595	5739	11896	4956	10196	4173	8497	3390	6797	2607	5098	1824	3909	1276	3909	1276
44		15070	5681	13563	5072	12056	4463	10549	3854	9042	3246	7535	2637	6028	2028	4521	1419	3466	993	3466	993
45		14711	5681	13240	5072	11768	4463	10297	3854	8826	3246	7355	2637	5884	2028	4413	1419	3383	993	3383	993
46		14351	5681	12916	5072	11481	4463	10046	3854	8611	3246	7176	2637	5740	2028	4305	1419	3301	993	3301	993

Heating		Parts Load (%)																			
Outdoor Temperature DB (°C)		100		90		80		70		60		50		40		30		20		10	
	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	
-27	6069	2868	5462	2570	4855	2272	4248	1975	3641	1677	3034	1380	2428	1082	1821	784	1246	503	1246	503	
-26	6444	2988	5800	2678	5155	2368	4511	2058	3866	1748	3222	1438	2578	1128	1933	817	1323	524	1323	524	
-25	6819	3109	6137	2786	5455	2464	4774	2141	4092	1818	3410	1496	2728	1173	2046	850	1400	545	1400	545	
-24	7195	3230	6475	2895	5756	2559	5036	2224	4317	1889	3597	1554	2878	1219	2158	883	1477	566	1477	566	
-23	7570	3351	6813	3003	6056	2655	5299	2307	4542	1960	3785	1612	3028	1264	2271	917	1555	587	1555	587	
-22	7945	3471	7151	3111	6356	2751	5562	2391	4767	2030	3973	1670	3178	1310	2384	950	1632	609	1632	609	
-21	8320	3592	7488	3219	6656	2847	5824	2474	4992	2101	4160	1728	3328	1355	2496	983	1709	630	1709	630	
-20	8696	3713	7826	3328	6957	2942	6087	2557	5217	2172	4348	1786	3478	1401	2609	1016	1786	651	1786	651	
-19	9094	3817	8185	3421	7275	3025	6366	2629	5457	2233	4547	1836	3638	1440	2728	1044	1868	669	1868	669	
-18	9493	3921	8543	3514	7594	3107	6645	2701	5696	2294	4746	1887	3797	1480	2848	1073	1949	687	1949	687	
-17	9891	4026	8902	3608	7913	3190	6924	2772	5935	2355	4946	1937	3957	1519	2967	1101	2031	706	2031	706	
-16	10290	4130	9261	3701	8232	3273	7203	2844	6174	2416	5145	1987	4116	1558	3087	1130	2113	724	2113	724	
-15	10688	4234	9620	3795	8551	3355	7482	2916	6413	2477	5344	2037	4275	1598	3207	1158	2195	742	2195	742	
-14	10994	4363	9895	3911	8795	3458	7696	3005	6596	2552	5497	2099	4398	1646	3298	1194	2258	765	2258	765	
-13	11300	4492	10170	4026	9040	3560	7910	3094	6780	2628	5650	2161	4520	1695	3390	1229	2320	788	2320	788	
-12	11606	4621	10445	4142	9284	3662	8124	3183	6963	2703	5803	2223	4642	1744	3482	1264	2383	810	2383	810	
-11	11911	4751	10720	4258	9529	3765	8338	3272	7147	2778	5956	2285	4764	1792	3573	1299	2446	833	2446	833	
-10	12217	4880	10995	4373	9774	3867	8552	3360	7330	2854	6108	2348	4887	1841	3665	1335	2509	855	2509	855	
-9	12523	5009	11270	4489	10018	3969	8766	3449	7514	2929	6261	2410	5009	1890	3757	1370	2572	878	2572	878	
-8	12828	5138	11546	4605	10263	4071	8980	3538	7697	3005	6414	2472	5131	1939	3849	1405	2634	901	2634	901	
-7	13134	5267	11821	4720	10507	4174	9194	3627	7880	3080	6567	2534	5254	1987	3940	1441	2697	923	2697	923	
-6	13478	5383	12130	4824	10783	4265	9435	3707	8087	3148	6739	2590	5391	2031	4043	1472	2768	944	2768	944	
-5	13822	5499	12440	4928	11058	4357	9676	3787	8293	3216	6911	2645	5529	2075	4147	1504	2839	964	2839	964	
-4	14167	5614	12750	5032	11333	4449	9917	3866	8500	3284	7083	2701	5667	2118	4250	1536	2909	984	2909	984	
-3	14511	5730	13060	5136	11609	4541	10158	3946	8707	3352	7255	2757	5804	2162	4353	1567	2980	1005	2980	1005	
-2	14855	5846	13370	5239	11884	4633	10399	4026	8913	3419	7428	2813	5942	2206	4457	1599	3051	1025	3051	1025	
-1	15199	5962	13679	5343	12159	4725	10639	4106	9120	3487	7600	2868	6080	2250	4560	1631	3121	1045	3121	1045	
0	15543	6078	13989	5447	12435	4816	10880	4186	9326	3555	7722	2924	6217	2293	4663	1663	3192	1066	3192	1066	
1	15888	6194	14299	5551	12710	4908	11121	4265	9533	3623	7944	2980	6355	2337	4766	1694	3263	1086	3263	1086	
2	16232	6310	14609	5655	12986	5000	11362	4345	9739	3690	8116	3036	6493	2381	4870	1726	3333	1106	3333	1106	
3	16498	6395	14848	5731	13198	5067	11548	4404	9899	3740	8249	3076	6599	2413	4949	1749	3388	1121	3388	1121	
4	16764	6479	15087	5807	13411	5135	11735	4462	10058	3790	8382	3117	6705	2445	5029	1772	3443	1136	3443	1136	
5	17030	6564	15327	5883	13624	5202	11921	4521	10218	3839	8515	3158	6812	2477	5109	1796	3497	1151	3497	1151	
6	21822	7020	19640	6291	17458	5563	15275	4834	13093	4106	10911	3377	8729	2649	6547	1920	4481	1231	4481	1231	
7	22400	7130	20160	6390	17920	5650	15680	4910	13440	4170	11200	3430	8960	2690	6720	1950	4600	1250	4600	1250	
8	22978	7240	20680	6489	18382	5738	16085	4986	13787	4235	11489	3483	9191	2732	6893	1981	4719	1269	4719	1269	
9	23556	7351	21201	6588	18845	5825	16489	5062	14134	4299	11738	3536	9422	2774	7067	2011	4837	1289	4837	1289	
10	24134	7461	21721	6687	19307	5913	16894	5138	14481	4364	12067	3590	9654	2815	7240	2041	4956	1308	4956	1308	
11	24712	7572	22241	6786	19770	6000	17299	5214	14827	4428	12356	3643	9885	2857	7414	2071	5075	1327	5075	1327	
12	25290	7682	22761	6885	20232	6088	17703	5290	15174	4493	12645	3696	10116	2899	7587	2101	5194	1347	5194	1347	
13	25868	7792	23282	6984	20695	6175	18108	5366	15521	4558	12934	3749	10347	2940	7761	2132	5312	1366	5312	1366	
14	26446	7903	23802	7083	21157	6262	18513	5442	15868	4622	13223	3802	10579	2982	7934	2162	5431	1385	5431	1385	
15	27025	8013	24322	7182	21620	6350	18917	5518	16215	4687	13512	3855	10810	3024	8107	2192	5550	1405	5550	1405	
16	27603	8124	24842	7281	22082	6437	19322	5594	16562	4751	13801	3908	11041	3065	8281	2222	5668	1424	5668	1424	
17	28181	8234	25363	7379	22545	6525	19726	5670	16908	4816	14090	3961	11272	3107	8454	2252	5787	1444	5787	1444	
18	28759	8344	25883	7478	23007	6612	20131	5746	17255	4880	14379	4014	11503	3148	8628	2282	5906	1463	5906	1463	
19	29337	8455	26403	7577	23469	6700	20536	5822	17602	4945	14668	4068	11735	3190	8801	2313	6025	1482	6025	1482	
20	29915	8565	26923	7676	23932	6787	20940	5898	17949	5010	14957	4121	11966	3232	8974	2343	6143	1502	6143	1502	
21	30493	8676	27444	7775	24394	6875	21345	5975	18296	5074	15246	4174	12197	3273	9148	2373	6262	1521	6262	1521	
22	31071	8786	27964	7874	24857	6962	21750	6051	18643	5139	15535	4227	12428	3315	9321	2403	6381	1540	6381	1540	
23	31649	8896	28484	7973	25319	7050	22154	6127	18989	5203	15825	4280	12660	3357	9495	2433	6499	1560	6499	1560	
24	32227	9007	29004	8072	25782	7137	22559	6203	19336	5268	16114	4333	12891	3398	9668	2464	6618	1579	6618	1579	

Combination <Capacity range (Max)>

Indoor: RAV-HM1101KRTP-E x 2, RAV-HM801KRTP-E x 3, RAV-HM561KRTP-E x4
Outdoor: RAV-GM2243AT8(J)P-E

Operation range	Cooling		Heating	
	Q	P	Q	P
MINIMUM	W 4600	1300	4600	1250
RATING	W 20000	7440	22400	7130
MAXIMUM	W 22400	8960	25000	8330

Cooling

Outdoor Temperature DB (°C)	Parts Load (%)																	
	100		90		80		70		60		50		40		30		20	
	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P
20	26801	7085	24120	6323	21440	5560	18760	4798	16080	4036	13400	3274	10720	2512	8040	1749	5504	1028
21	26512	7214	23861	6438	21210	5662	18558	4886	15907	4110	13256	3334	10605	2557	7954	1781	5444	1047
22	26224	7344	23602	6554	20979	5764	18357	4973	15724	4182	13112	3393	10489	2603	7867	1813	5385	1065
23	25935	7473	23342	6669	20748	5865	18155	5061	15561	4257	12968	3453	10374	2649	7781	1845	5326	1084
24	25647	7602	23082	6784	20517	5967	17953	5149	15388	4331	12823	3513	10259	2695	7694	1877	5267	1103
25	25358	7732	22823	6900	20287	6068	17751	5236	15215	4404	12679	3573	10143	2741	7608	1909	5208	1122
26	25070	7861	22563	7015	20056	6170	17549	5324	15042	4478	12535	3632	10028	2787	7521	1941	5148	1141
27	24782	7990	22303	7131	19825	6271	17347	5412	14869	4552	12391	3692	9913	2833	7434	1973	5089	1159
28	24493	8120	22044	7246	19595	6373	17145	5499	14696	4626	12247	3752	9797	2878	7348	2005	5030	1178
29	24205	8249	21784	7362	19364	6474	16943	5587	14523	4699	12102	3812	9682	2924	7261	2037	4971	1197
30	23916	8379	21525	7477	19133	6576	16741	5674	14350	4773	11958	3872	9567	2970	7175	2069	4911	1216
31	23628	8508	21265	7593	18902	6677	16540	5762	14177	4847	11814	3931	9451	3016	7088	2101	4852	1234
32	23339	8637	21006	7708	18672	6779	16338	5850	14004	4920	11670	3991	9336	3062	7002	2133	4793	1253
33	23051	8767	20746	7824	18441	6880	16136	5937	13831	4994	11526	4051	9220	3108	6915	2165	4734	1272
34	22763	8896	20486	7939	18210	6982	15934	6025	13658	5068	11381	4111	9105	3154	6829	2197	4674	1291
35	22400	8960	20160	7996	17920	7032	15680	6068	13440	5104	11200	4140	8960	3176	6720	2212	4600	1300
36	21971	8960	19774	7996	17577	7032	15379	6068	13182	5104	10985	4140	8788	3176	6591	2212	4512	1300
37	21549	8960	19394	7996	17239	7032	15084	6068	12929	5104	10774	4140	8620	3176	6465	2212	4425	1300
38	21134	8960	19021	7996	16908	7032	14794	6068	12681	5104	10567	4140	8454	3176	6340	2212	4340	1300
39	17568	5973	15811	5331	14054	4688	12298	4045	10541	3403	8784	2760	7027	2118	5270	1475	3608	867
40	17225	5973	15503	5331	13780	4688	12058	4045	10335	3403	8613	2760	6890	2118	5168	1475	3537	867
41	16883	5973	15194	5331	13506	4688	11818	4045	10130	3403	8441	2760	6753	2118	5065	1475	3467	867
42	16540	5973	14886	5331	13232	4688	11578	4045	9924	3403	8270	2760	6616	2118	4962	1475	3397	867
43	16198	5973	14578	5331	12958	4688	11338	4045	9719	3403	8099	2760	6479	2118	4859	1475	3326	867
44	14364	4646	12928	4146	11491	3646	10055	3146	8618	2647	7182	2147	5746	1647	4309	1147	2950	674
45	14021	4646	12619	4146	11217	3646	9815	3146	8413	2647	7011	2147	5609	1647	4206	1147	2879	674
46	13679	4646	12311	4146	10943	3646	9575	3146	8207	2647	6839	2147	5472	1647	4104	1147	2809	674

Heating

Outdoor Temperature DB (°C)	Parts Load (%)																			
	100		90		80		70		60		50		40		30		20		10	
	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P
-27	6700	3672	6030	3290	5360	2907	4690	2525	4020	2142	3350	1760	2680	1377	2010	995	1340	612	1233	551
-26	7114	3827	6403	3428	5691	3030	4980	2631	4269	2232	3557	1834	2846	1435	2134	1037	1423	638	1309	574
-25	7529	3981	6776	3567	6023	3152	5270	2737	4517	2323	3764	1908	3011	1493	2259	1078	1506	664	1385	597
-24	7943	4136	7149	3705	6354	3274	5560	2844	4766	2413	3971	1982	3177	1551	2383	1120	1589	690	1461	621
-23	8357	4291	7521	3844	6686	3397	5850	2950	5014	2503	4179	2056	3343	1609	2507	1162	1671	715	1538	644
-22	8771	4445	7894	3982	7017	3519	6140	3056	5263	2593	4386	2130	3509	1667	2631	1204	1754	741	1614	667
-21	9186	4600	8267	4121	7349	3642	6430	3162	5511	2683	4593	2204	3674	1725	2756	1246	1837	767	1690	690
-20	9600	4754	8640	4259	7680	3764	6720	3269	5760	2774	4800	2278	3840	1783	2880	1288	1920	793	1766	713
-19	10040	4888	9036	4379	8032	3870	7028	3361	6024	2851	5020	2342	4016	1833	3012	1324	2008	815	1847	733
-18	10480	5022	9432	4498	8384	3975	7336	3452	6288	2929	5240	2406	4192	1883	3144	1360	2096	837	1928	754
-17	10920	5155	9828	4618	8736	4081	7644	3544	6552	3007	5460	2470	4368	1933	3276	1396	2184	859	2009	774
-16	11360	5289	10224	4738	9088	4187	7952	3636	6816	3085	5680	2534	4544	1983	3408	1433	2272	882	2090	794
-15	11800	5422	10620	4857	9440	4293	8260	3728	7080	3163	5900	2598	4720	2034	3540	1469	2360	904	2171	814
-14	12138	5587	10924	5005	9710	4423	8496	3841	7283	3259	6069	2678	4855	2096	3641	1514	2428	932	2233	838
-13	12475	5753	11228	5153	9980	4554	8733	3955	7485	3356	6238	2757	4990	2158	3743	1558	2495	959	2295	863
-12	12813	5918	11531	5302	10250	4685	8969	4069	7688	3452	6406	2836	5125	2219	3844	1603	2563	987	2358	888
-11	13150	6083	11835	5450	10520	4816	9205	4182	7890	3545	6575	2915	5260	2281	3945	1648	2630	1014	2420	913
-10	13488	6248	12139	5598	10790	4947	9441	4296	8093	3645	6744	2994	5395	2343	4046	1693	2698	1042	2482	938
-9	13825	6414	12443	5746	11060	5078	9678	4410	8295	3742	6913	3073	5530	2405	4148	1737	2765	1069	2544	962
-8	14163	6579	12746	5894	11330	5208	9914	4523	8498	3838	7081	3153	5665	2467	4249	1782	2833	1097	2606	987
-7	14500	6744	13050	6042	11600	5339	10150	4637	8700	3934	7250	3232	5800	2529	4350	1827	2900	1124	2668	1012
-6	14880	6893	13392	6175	11904	5457	10416	4739	8928	4021	7440	3303	5952	2585	4464	1867	2976	1149	2738	1034
-5	15260	7041	13734	6308	12208	5574	10682	4841	9156	4108	7630	3374	6104	2641	4578	1907	3052	1174	2808	1057
-4	15640	7189	14076	6441	12512	5692	10948	4943	9384	4194	7820	3445	6256	2696	4692	1948	3128	1199	2878	1079
-3	16020	7338	14418	6574	12816	5809	11214	5045	9612	4281	8010	3516	6408	2752	4806	1988	3204	1223	2948	1101
-2	16400	7486	14760	6706	13120	5927	11480	5147	9840	4367	8200	3587	6560	2808	4920	2028	3280	1248	3018	1123
-1	16780	7635	15102	6839	13424	6044	11746	5249	10068	4454	8390	3659	6712	2863	5034	2068	3356	1273	3088	1146
0	17160	7783	15444	6972	13728	6162	12012	5351	10296	4540	8580	3730	6864	2919	5148	2108	3432	1298	3157	1168
1	17540	7931	15786	7105	14032	6279	12278	5453	10524	4627	8770	3801	7016	2975	5262	2149	3508	1322	3227	1190
2	17920	8080	16128	7238	14336	6397	12544	5555	10752	4713	8960	3872	7168	3030	5376	2189	3584	1347	3297	1212
3	18380	8246	16542	7387	14704	6529	12866	5670	11028	4811	9190	3952	7352	3093	5514	2234	3676	1375	3382	1237
4	18846	8413	16961	7537	15077	6660	13192	5784	11307	4908	9423	4032	7538	3155	5654	2279	3769	1403	3468	1262
5	19317	8580	17385	7686	15454	6792	13522	5899	11590	5005	9658	4111	7727	3218	5795	2324	3863	1430	3554	1287
6	24355	8201	21919	7347	19484	6493	17048	5638	14613	4784	12177	3930	7742	3076	7306	2222	4831	1367	4481	1231
7	25000	8330	22500	7462	20000	6595	17500	5727	15000	4859	12500	3992	10000	3124	7500	2256	5000	1389	4600	1250
8	25645	8459	23081	7578	20516	6697	17952	5816	15387	4935	12823	4054	10258	3172	7694	2291	5129	1410	4719	1269
9	26290	8588	23661	7693	21032	6799	18403	5904	15774	5010	13145	4115	10516	3221	7887	2326	5258	1432	4837	1289
10	26935	8717	24242	7809	21548	6901	18855	5993	16161	5085	13468	4177	10774	3269	8081	2361	5387	1453	4956	1308
11	27581	8846	24823	7925	22065	7003	19306	6082	16548	5160	13790	4239	11032	3318	8274	2396	5516	1475	5075	1327
12	28226	8975	25403	8040	22581	7105	19758	6170	16935	5236	14113	4301	11290	3366	8468	2431	5645	1496	5194	1347
13	28871	9104	25984	8156	23097	7207	20210	6259	17323	5311	14435	4363	11548	3414	8661	2466	5774	1518	5312	1366
14	22966	9325	20669	4770	18373	4215	16076	3661	13780	3106	11483	2552	9186	1997	6890	1442	4593	888	4226	799
15	23342	5325	21008	4770	18674	4215	16340	3661	14005	3106	11671	2552	9337	1997	7003	1442	4668	888	4295	799
16	23717	5325	21345	4770	18973	4215	16602	3661	14230	3106	11858	2552	9487	1997	7115	1442	4743	888	4364	799
17	24090	5325	21681	4770	19272	4215	16863	3661	14454	3106	12045	2552	9636	1997	7227	1442	4818	888	4432	799
18	24460	5325	22014	4770	19568	4215	17122	3661	14676	3106	12230	2552	9784	1997	7338	1442	4892	888	4501	799
19	24830	5325	22347	4770	19864	4215	17381	3661	14898	3106	12415	2552	9932	1997	7449	1442	4966	888	4569	799
20	25197	5325	22678	4770	20158	4215	17638	3661	15118	3106	12599	2552	10079	1997	7559	1442	5039	888	4636	799
21	25563	5325	23007	4770	20451	4215	17894	3661	15338	3106	12782	2552	10225	1997	7669	1442	5113	888	4704	799
22	25928	5325	23335	4770	20742	4215	18150	3661	15557	3106	12964	2552	10371	1997	7778	1442	5186	888	4771	799
23	26291	5325	23662	4770	21033	4215	18404	3661	15775	3106	13146	2552	10516	1997	7887	1442	5258	888	4838	799
24	26653	5325	23988	4770	21322	4215	18657	3661	15992	3106	13326	2552	10661	1997	7996	1442	5331	888	4904	799

Combination <Rated condition>

Indoor: RAV-HM1101KRTP-E x 1, RAV-HM801KRTP-E x 3, RAV-HM561KRTP-E x 4
Outdoor: RAV-GM2243AT8(J)P-E

Operation range	Cooling		Heating	
	Q	P	Q	P
MINIMUM	W 4600	1300	4600	1250
Night operation 1	W 10000	2246	11200	2510

*When outside air temperature is 40°C or more, the night operation does not operate.

Cooling

Outdoor Temperature DB (°C)	Parts Load (%)															
	100		90		80		70		60		50		40		30	
	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P
20	11925	1763	10733	1626	9540	1488	8348	1351	7155	1213	5963	1076	5486	1021	5486	1021
21	11797	1795	10617	1655	9437	1515	8258	1375	7078	1235	5898	1095	5426	1039	5426	1039
22	11668	1827	10502	1685	9335	1542	8168	1400	7001	1257	5834	1115	5367	1058	5367	1058
23	11540	1860	10386	1715	9232	1570	8078	1425	6924	1279	5770	1134	5308	1076	5308	1076
24	11412	1892	10271	1744	9129	1597	7988	1449	6847	1302	5706	1154	5249	1095	5249	1095
25	11283	1924	10155	1774	9027	1624	7898	1474	6770	1324	5642	1174	5190	1114	5190	1114
26	11155	1956	10040	1804	8924	1651	7809	1499	6693	1346	5578	1193	5131	1132	5131	1132
27	11027	1988	9924	1833	8821	1678	7719	1523	6616	1368	5513	1213	5072	1151	5072	1151
28	10898	2021	9809	1863	8719	1705	7629	1548	6539	1390	5449	1233	5013	1170	5013	1170
29	10770	2053	9693	1893	8616	1733	7539	1572	6462	1412	5385	1252	4954	1188	4954	1188
30	10642	2085	9578	1922	8513	1760	7449	1597	6385	1435	5321	1272	4895	1207	4895	1207
31	10513	2117	9462	1952	8411	1787	7359	1622	6308	1457	5257	1292	4836	1225	4836	1225
32	10385	2149	9347	1982	8308	1814	7270	1646	6231	1479	5193	1311	4777	1244	4777	1244
33	10257	2182	9231	2011	8205	1841	7180	1671	6154	1501	5128	1331	4718	1263	4718	1263
34	10128	2214	9116	2041	8103	1868	7090	1696	6077	1523	5064	1350	4659	1281	4659	1281
35	10000	2246	9000	2071	8000	1896	7000	1720	6000	1545	5000	1370	4600	1300	4600	1300
36	9872	2278	8885	2100	7897	1923	6910	1745	5923	1567	4936	1390	4541	1319	4541	1319
37	9743	2310	8769	2130	7795	1950	6820	1770	5846	1590	4872	1409	4482	1337	4482	1337
38	9615	2343	8654	2160	7692	1977	6731	1794	5769	1612	4808	1429	4423	1356	4423	1356
39	9216	2205	8294	2033	7373	1861	6451	1689	5529	1517	4608	1345	4239	1276	4239	1276
40*	18072	7304	16265	6521	14458	5739	12650	4956	10843	4173	9036	3390	7229	2607	5422	1824
41*	17713	7304	15941	6521	14170	5739	12399	4956	10628	4173	8856	3390	7085	2607	5314	1824
42*	17353	7304	15618	6521	13883	5739	12147	4956	10412	4173	8677	3390	6941	2607	5206	1824
43*	16994	7304	15294	6521	13595	5739	11896	4956	10196	4173	8497	3390	6797	2607	5098	1824
44*	15070	5681	13563	5072	12056	4463	10549	3854	9042	3246	7535	2637	6028	2028	4521	1419
45*	14711	5681	13240	5072	11768	4463	10297	3854	8826	3246	7355	2637	5884	2028	4413	1419
46*	14351	5681	12916	5072	11481	4463	10046	3854	8611	3246	7176	2637	5740	2028	4305	1419

Heating

Outdoor Temperature DB (°C)	Parts Load (%)																			
	100		90		80		70		60		50		40		30		20		10	
	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P
-27	3034	1010	2731	924	2428	838	2124	752	1821	666	1517	580	1246	503	1246	503	1246	503	1246	503
-26	3222	1052	2900	962	2578	873	2255	783	1933	694	1611	604	1323	524	1323	524	1323	524	1323	524
-25	3410	1095	3069	1001	2728	908	2387	815	2046	722	1705	628	1400	545	1400	545	1400	545	1400	545
-24	3597	1137	3238	1040	2878	943	2518	846	2158	750	1799	653	1477	566	1477	566	1477	566	1477	566
-23	3785	1180	3406	1079	3028	979	2649	878	2271	778	1892	677	1555	587	1555	587	1555	587	1555	587
-22	3973	1222	3575	1118	3178	1014	2781	910	2384	806	1986	702	1632	609	1632	609	1632	609	1632	609
-21	4160	1265	3744	1157	3328	1049	2912	941	2496	834	2080	726	1709	630	1709	630	1709	630	1709	630
-20	4348	1307	3913	1196	3478	1084	3043	973	2609	862	2174	750	1786	651	1786	651	1786	651	1786	651
-19	4547	1344	4092	1229	3638	1115	3183	1000	2728	886	2274	771	1868	669	1868	669	1868	669	1868	669
-18	4746	1380	4272	1263	3797	1145	3322	1028	2848	910	2373	792	1949	687	1949	687	1949	687	1949	687
-17	4946	1417	4451	1296	3957	1176	3462	1055	2967	934	2473	814	2031	706	2031	706	2031	706	2031	706
-16	5145	1454	4630	1330	4116	1206	3601	1082	3087	958	2572	835	2113	724	2113	724	2113	724	2113	724
-15	5344	1491	4810	1364	4295	1237	3741	1110	3207	983	2672	856	2195	742	2195	742	2195	742	2195	742
-14	5497	1536	4947	1405	4378	1274	3848	1143	3298	1013	2749	882	2258	765	2258	765	2258	765	2258	765
-13	5650	1581	5085	1447	4520	1312	3955	1177	3390	1043	2825	908	2320	788	2320	788	2320	788	2320	788
-12	5803	1627	5222	1488	4642	1350	4062	1211	3482	1073	2901	934	2383	810	2383	810	2383	810	2383	810
-11	5956	1672	5360	1530	4764	1387	4169	1245	3573	1103	2978	960	2446	833	2446	833	2446	833	2446	833
-10	6108	1718	5498	1571	4887	1425	4276	1279	3665	1132	3054	986	2509	855	2509	855	2509	855	2509	855
-9	6261	1763	5635	1613	5009	1463	4383	1313	3757	1162	3131	1012	2572	878	2572	878	2572	878	2572	878
-8	6414	1809	5773	1655	5131	1501	4490	1346	3849	1192	3207	1038	2634	901	2634	901	2634	901	2634	901
-7	6567	1854	5910	1696	5254	1538	4597	1380	3940	1222	3284	1064	2697	923	2697	923	2697	923	2697	923
-6	6739	1895	6065	1733	5391	1572	4717	1411	4043	1249	3370	1088	2768	944	2768	944	2768	944	2768	944
-5	6911	1936	6220	1771	5529	1606	4838	1441	4147	1276	3456	1111	2839	964	2839	964	2839	964	2839	964
-4	7083	1976	6375	1808	5667	1640	4958	1471	4250	1303	3542	1135	2909	984	2909	984	2909	984	2909	984
-3	7255	2017	6530	1845	5804	1674	5079	1502	4353	1330	3628	1158	2980	1005	2980	1005	2980	1005	2980	1005
-2	7428	2058	6685	1883	5942	1707	5199	1532	4457	1357	3714	1181	3051	1025	3051	1025	3051	1025	3051	1025
-1	7600	2099	6840	1920	6080	1741	5320	1562	4560	1384	3800	1205	3121	1045	3121	1045	3121	1045	3121	1045
0	7772	2140	6995	1957	6217	1775	5440	1593	4663	1411	3886	1228	3192	1066	3192	1066	3192	1066	3192	1066
1	7944	2180	7149	1995	6355	1809	5561	1623	4766	1437	3972	1252	3263	1086	3263	1086	3263	1086	3263	1086
2	8116	2221	7304	2032	6493	1843	5681	1654	4870	1464	4058	1275	3333	1106	3333	1106	3333	1106	3333	1106
3	8249	2251	7424	2059	6599	1868	5774	1676	4949	1484	4124	1292	3388	1121	3388	1121	3388	1121	3388	1121
4	8382	2281	7544	2087	6705	1892	5867	1698	5029	1504	4191	1309	3443	1136	3443	1136	3443	1136	3443	1136
5	8515	2311	7663	2114	6812	1917	5960	1720	5109	1523	4255	1327	3497	1151	3497	1151	3497	1151	3497	1151
6	10911	2471	9820	2261	8729	2050	7638	1840	6547	1629	5455	1419	4481	1231	4481	1231	4481	1231	4481	1231
7	11200	2510	10080	2296	8960	2082	7840	1869	6720	1655	5600	1441	4600	1250	4600	1250	4600	1250	4600	1250
8	11489	2549	10340	2332	9191	2115	8042	1897	6893	1680	5745	1463	4719	1269	4719	1269	4719	1269	4719	1269
9	11778	2588	10600	2367	9422	2147	8245	1926	7067	1706	5889	1486	4837	1289	4837	1289	4837	1289	4837	1289
10	12067	2627	10860	2403	9654	2179	8447	1955	7240	1732	6034	1508	4956	1308	4956	1308	4956	1308	4956	1308
11	12356	2665	11121	2438	9885	2211	8649	1984	7414	1757	6178	1530	5075	1327	5075	1327	5075	1327	5075	1327
12	12645	2704	11381	2474	10116	2244	8852	2013	7587	1783	6323	1552	5194	1347	5194	1347	5194	1347	5194	1347
13	12934	2743	11641	2510	10347	2276	9054	2042	7761	1808	6467	1575	5312	1366	5312	1366	5312	1366	5312	1366
14	13223	2782	11901	2545	10579	2308	9256	2071	7934	1834	6612	1597	5431	1385	5431	1385	5431	1385	5431	1385
15	13512	2821	12161	2581	10810	2340	9459	2100	8107	1860	6756	1619	5550	1405	5550	1405	5550	1405	5550	1405
16	13801	2860	12421	2616	11041	2373	9661	2129	8281	1885	6901	1642	5668	1424	5668	1424	5668	1424	5668	1424
17	14090	2899	12681	2652	11272	2405	9863	2158	8454	1911	7045	1664	5787	1444	5787	1444	5787	1444	5787	1444
18	14379	2938	12941	2687	11503	2437	10066	2187	8628	1937	7190	1686	5906	1463	5906	1463	5906	1463	5906	1463
19	14668	2976	13202	2723	11735	2469	10268	2216	8801	1962	7334	1709	6025	1482	6025	1482	6025	1482	6025	1482
20	14957	3015	13462	2758	11966	2502	10470	2245	8974	1988	7479	1731	6143	1502	6143	1502	6143	1502	6143	1502
21	15246	3054	13722	2794	12197	2534	10673	2274	9148	2013	7623	1753	6262	1521	6262	1521	6262	1521	6262	1521
22	15535	3093	13982	2829	12428	2566	10875	2303	9321	2039	7768	1776	6381	1540	6381	1540	6381	1540	6381	1540
23	15825	3132	14242	2865	12660	2598	11077	2331	9495	2065	7912	1798	6499	1560	6499	1560	6499	1560	6499	1560
24	16114	3171	14502	2901	12891	2630	11279	2360	9668	2090	8057	1820	6618	1579	6618	1579	6618	1579	6618	1579

Combination <Rated condition>

Indoor: RAV-HM1101KRTP-E x 1, RAV-HM801KRTP-E x 3, RAV-HM561KRTP-E x 4
Outdoor: RAV-GM2243AT8(J)P-E

Operation range	Cooling		Heating	
	Q	P	Q	P
MINIMUM	W 4600	1300	4600	1250
Night operation 2	W 14000	3363	15680	4123

*When outside air temperature is 40°C or more, the night operation does not operate.

Outdoor Temperature DB (°C)	Parts Load (%)															
	100		90		80		70		60		50		40		30	
	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P
20	16695	2640	15026	2399	13356	2158	11687	1916	10017	1675	8348	1434	6678	1193	5486	1021
21	16515	2688	14864	2443	13212	2197	11561	1951	9909	1706	8258	1460	6606	1215	5426	1039
22	16336	2736	14702	2486	13069	2236	11435	1986	9801	1736	8168	1486	6534	1236	5367	1058
23	16156	2785	14540	2530	12925	2276	11309	2021	9694	1767	8078	1513	6462	1258	5308	1076
24	15976	2833	14379	2574	12781	2315	11183	2056	9586	1798	7988	1539	6391	1280	5249	1095
25	15797	2881	14217	2618	12637	2355	11058	2091	9478	1828	7898	1565	6319	1302	5190	1114
26	15617	2929	14055	2662	12494	2394	10932	2126	9370	1859	7809	1591	6247	1323	5131	1132
27	15437	2977	13894	2705	12350	2433	10806	2161	9262	1889	7719	1617	6175	1345	5072	1151
28	15258	3026	13732	2749	12206	2473	10680	2196	9155	1920	7629	1643	6103	1367	5013	1170
29	15078	3074	13570	2793	12062	2512	10555	2231	9047	1950	7539	1670	6031	1389	4954	1188
30	14898	3122	13409	2837	11919	2552	10429	2266	8939	1981	7449	1696	5959	1411	4895	1207
31	14719	3170	13247	2881	11775	2591	10303	2301	8831	2012	7359	1722	5887	1432	4836	1225
32	14539	3218	13085	2924	11631	2630	10177	2336	8723	2042	7270	1748	5816	1454	4777	1244
33	14359	3267	12923	2968	11487	2670	10052	2371	8616	2073	7180	1774	5744	1476	4718	1263
34	14180	3315	12762	3012	11344	2709	9926	2406	8508	2103	7090	1801	5672	1498	4659	1281
35	14000	3363	12600	3056	11200	2748	9800	2441	8400	2134	7000	1827	5600	1519	4600	1300
36	13820	3411	12438	3100	11056	2788	9674	2476	8292	2165	6910	1853	5528	1541	4541	1319
37	13641	3459	12277	3143	10913	2827	9548	2511	8184	2195	6820	1879	5456	1563	4482	1337
38	13461	3508	12115	3187	10769	2867	9423	2546	8077	2226	6731	1905	5384	1585	4423	1356
39	12902	3302	11612	3000	10322	2698	9031	2397	7741	2095	6451	1793	5161	1492	4239	1276
40*	18072	7304	16265	6521	14458	5739	12650	4956	10843	4173	9036	3390	7229	2607	5422	1824
41*	17713	7304	15941	6521	14170	5739	12399	4956	10628	4173	8856	3390	7085	2607	5314	1824
42*	17353	7304	15618	6521	13883	5739	12147	4956	10412	4173	8677	3390	6941	2607	5206	1824
43*	16994	7304	15294	6521	13595	5739	11896	4956	10196	4173	8497	3390	6797	2607	5098	1824
44*	15070	5681	13563	5072	12056	4463	10549	3854	9042	3246	7535	2637	6028	2028	4521	1419
45*	14711	5681	13240	5072	11768	4463	10297	3854	8826	3246	7355	2637	5884	2028	4413	1419
46*	14351	5681	12916	5072	11481	4463	10046	3854	8611	3246	7176	2637	5740	2028	4305	1419

Heating		Parts Load (%)																		
Outdoor Temperature DB (°C)	100		90		80		70		60		50		40		30		20		10	
	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P
-27	4248	1658	3823	1495	3399	1331	2974	1168	2549	1004	2124	841	1699	677	1274	514	1246	503	1246	503
-26	4511	1728	4060	1558	3609	1387	3158	1217	2707	1046	2255	876	1804	706	1353	535	1323	524	1323	524
-25	4774	1798	4296	1621	3819	1443	3341	1266	2864	1089	2387	911	1909	734	1432	557	1400	545	1400	545
-24	5036	1868	4533	1684	4029	1499	3525	1315	3022	1131	2518	947	2014	763	1511	578	1477	566	1477	566
-23	5299	1938	4769	1746	4239	1555	3709	1364	3179	1173	2649	982	2120	791	1590	600	1555	587	1555	587
-22	5562	2007	5005	1809	4449	1611	3893	1414	3337	1216	2781	1018	2225	820	1668	622	1632	609	1632	609
-21	5824	2077	5242	1872	4659	1668	4077	1463	3495	1258	2912	1053	2330	848	1747	643	1709	630	1709	630
-20	6087	2147	5478	1935	4870	1724	4261	1512	3652	1300	3043	1088	2435	877	1826	665	1786	651	1786	651
-19	6366	2207	5729	1990	5093	1772	4456	1554	3820	1337	3183	1119	2546	901	1910	684	1868	669	1868	669
-18	6645	2268	5980	2044	5316	1820	4651	1597	3987	1373	3322	1150	2658	926	1993	702	1949	687	1949	687
-17	6924	2328	6232	2098	5539	1869	4847	1639	4154	1410	3462	1180	2770	951	2077	721	2031	706	2031	706
-16	7203	2388	6483	2153	5762	1917	5042	1682	4322	1446	3601	1211	2881	975	2161	740	2113	724	2113	724
-15	7482	2449	6734	2207	5986	1966	5237	1724	4489	1483	3741	1241	2993	1000	2245	758	2195	742	2195	742
-14	7696	2523	6926	2274	6157	2026	5387	1777	4618	1528	3848	1279	3078	1030	2309	781	2258	765	2258	765
-13	7910	2598	7119	2342	6328	2085	5537	1829	4746	1573	3955	1317	3164	1061	2373	805	2320	788	2320	788
-12	8124	2672	7311	2409	6499	2145	5687	1882	4874	1618	4062	1355	3250	1091	2437	828	2383	810	2383	810
-11	8338	2747	7504	2476	6670	2205	5837	1934	5003	1663	4169	1393	3335	1122	2501	851	2446	833	2446	833
-10	8552	2822	7697	2543	6841	2265	5986	1987	5131	1709	4276	1430	3421	1152	2566	874	2509	855	2509	855
-9	8766	2896	7889	2611	7013	2325	6136	2039	5260	1754	4383	1468	3506	1183	2630	897	2572	878	2572	878
-8	8980	2971	8082	2678	7184	2385	6286	2092	5388	1799	4490	1506	3592	1213	2694	920	2634	901	2634	901
-7	9194	3046	8274	2745	7355	2445	6436	2145	5516	1844	4597	1544	3678	1244	2758	943	2697	923	2697	923
-6	9435	3113	8491	2806	7548	2499	6604	2192	5661	1885	4717	1578	3774	1271	2830	964	2768	944	2768	944
-5	9676	3180	8708	2866	7741	2553	6773	2239	5805	1925	4838	1612	3870	1298	2903	985	2839	964	2839	964
-4	9917	3247	8925	2926	7933	2606	6942	2286	5950	1966	4958	1646	3967	1326	2975	1006	2909	984	2909	984
-3	10158	3314	9142	2987	8126	2660	7110	2333	6095	2007	5079	1680	4063	1353	3047	1026	2980	1005	2980	1005
-2	10399	3381	9359	3047	8319	2714	7279	2381	6239	2047	5199	1714	4159	1380	3120	1047	3051	1025	3051	1025
-1	10639	3448	9576	3108	8512	2768	7448	2428	6384	2088	5320	1748	4256	1408	3192	1068	3121	1045	3121	1045
0	10880	3515	9792	3168	8704	2821	7616	2475	6528	2128	5440	1782	4352	1435	3264	1089	3192	1066	3192	1066
1	11121	3582	10009	3228	8897	2875	7785	2522	6673	2169	5561	1816	4449	1462	3336	1109	3263	1086	3263	1086
2	11362	3649	10226	3289	9090	2929	7954	2569	6817	2209	5681	1850	4545	1490	3409	1130	3333	1106	3333	1106
3	11548	3698	10394	3333	9239	2968	8084	2604	6929	2239	5774	1875	4619	1510	3465	1145	3388	1121	3388	1121
4	11735	3747	10561	3377	9388	3008	8214	2638	7041	2269	5867	1899	4694	1530	3520	1160	3443	1136	3443	1136
5	11921	3796	10729	3422	9537	3047	8344	2673	7152	2299	5960	1924	4768	1550	3576	1176	3497	1151	3497	1151
6	15275	4059	13748	3659	12220	3259	10693	2858	9165	2458	7638	2058	6110	1657	4583	1257	4481	1231	4481	1231
7	15680	4123	14112	3716	12544	3310	10976	2903	9408	2497	7840	2090	6272	1684	4704	1277	4600	1250	4600	1250
8	16085	4187	14476	3774	12868	3361	11259	2948	9651	2535	8042	2122	6434	1710	4825	1297	4719	1269	4719	1269
9	16489	4251	14840	3832	13191	3412	11543	2993	9894	2574	8245	2155	6596	1736	4947	1317	4837	1289	4837	1289
10	16894	4315	15205	3889	13515	3464	11826	3038	10136	2613	8447	2187	6758	1762	5068	1336	4956	1308	4956	1308
11	17299	4378	15569	3947	13839	3515	12109	3083	10379	2651	8649	2220	6919	1788	5190	1356	5075	1327	5075	1327
12	17703	4442	15933	4004	14163	3566	12392	3128	10622	2690	8852	2252	7081	1814	5311	1376	5194	1347	5194	1347
13	18108	4506	16297	4062	14486	3617	12676	3173	10865	2729	9054	2284	7243	1840	5432	1396	5312	1366	5312	1366
14	18513	4570	16661	4119	14810	3669	12959	3218	11108	2767	9256	2317	7405	1866	5554	1415	5431	1385	5431	1385
15	18917	4634	17025	4177	15134	3720	13242	3263	11350	2806	9459	2349	7567	1892	5675	1435	5550	1405	5550	1405
16	19322	4698	17390	4234	15457	3771	13525	3308	11593	2845	9661	2381	7729	1918	5797	1455	5668	1424	5668	1424
17	19726	4761	17754	4292	15781	3822	13809	3353	11836	2883	9863	2414	7891	1944	5918	1475	5787	1444	5787	1444
18	20131	4825	18118	4349	16105	3874	14092	3398	12079	2922	10066	2446	8052	1970	6039	1494	5906	1463	5906	1463
19	20536	4889	18482	4407	16429	3925	14375	3443	12321	2961	10268	2478	8214	1996	6161	1514	6025	1482	6025	1482
20	20940	4953	18846	4465	16752	3976	14658	3488	12564	2999	10470	2511	8376	2022	6282	1534	6143	1502	6143	1502
21	21345	5017	19211	4522	17076	4027	14942	3533	12807	3038	10673	2543	8538	2048	6404	1554	6262	1521	6262	1521
22	21750	5081	19575	4580	17400	4079	15225	3578	13050	3077	10875	2576	8700	2075	6525	1574	6381	1540	6381	1540
23	22154	5144	19939	4637	17723	4130	15508	3623	13293	3115	11077	2608	8862	2101	6646	1593	6499	1560	6499	1560
24	22559	5208	20303	4695	18047	4181	15791	3667	13535	3154	11279	2640	9024	2127	6768	1613	6618	1579	6618	1579

Combination <Rated condition>

Indoor: RAV-HM1101KRTP-E x 1, RAV-HM801KRTP-E x 3, RAV-HM561KRTP-E x 4
Outdoor: RAV-GM2243AT8(J)P-E

Operation range	Cooling		Heating	
	Q	P	Q	P
MINIMUM	W 4600	1300	4600	1250
Night operation 3	W 18000	5325	20160	6067

*When outside air temperature is 40°C or more, the night operation does not operate.

Cooling		Parts Load (%)																			
		100		90		80		70		60		50		40		30		20		10	
		Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P
Outdoor Temperature DB (°C)																					
20	21465	4180	19319	3756	17172	3331	15026	2907	12879	2482	10733	2058	8586	1634	6440	1209	5486	1021	5486	1021	
21	21234	4256	19111	3824	16987	3392	14864	2960	12740	2528	10617	2096	8494	1663	6370	1231	5426	1039	5426	1039	
22	21003	4333	18903	3893	16802	3453	14702	3013	12602	2573	10502	2133	8401	1693	6301	1253	5367	1058	5367	1058	
23	20772	4409	18695	3961	16618	3514	14540	3066	12463	2618	10386	2171	8309	1723	6232	1275	5308	1076	5308	1076	
24	20541	4485	18487	4030	16433	3575	14379	3119	12325	2664	10271	2208	8216	1753	6162	1297	5249	1095	5249	1095	
25	20310	4562	18279	4099	16248	3635	14217	3172	12186	2709	10155	2246	8124	1783	6093	1320	5190	1114	5190	1114	
26	20079	4638	18071	4167	16063	3696	14055	3225	12047	2754	10040	2283	8032	1813	6024	1342	5131	1132	5131	1132	
27	19848	4714	17863	4236	15878	3757	13894	3278	11909	2800	9924	2321	7939	1842	5954	1364	5072	1151	5072	1151	
28	19617	4791	17655	4304	15694	3818	13732	3331	11770	2845	9809	2359	7847	1872	5885	1386	5013	1170	5013	1170	
29	19386	4867	17447	4373	15509	3879	13570	3385	11632	2890	9693	2396	7754	1902	5816	1408	4954	1188	4954	1188	
30	19155	4943	17240	4441	15324	3940	13409	3438	11493	2936	9578	2434	7662	1932	5747	1430	4895	1207	4895	1207	
31	18924	5020	17032	4510	15139	4000	13247	3491	11354	2981	9462	2471	7570	1962	5677	1452	4836	1225	4836	1225	
32	18693	5096	16824	4579	14954	4061	13085	3544	11216	3026	9347	2509	7477	1991	5608	1474	4777	1244	4777	1244	
33	18462	5172	16616	4647	14770	4122	12923	3597	11077	3072	9231	2546	7385	2021	5539	1496	4718	1263	4718	1263	
34	18231	5249	16408	4716	14585	4183	12762	3650	10939	3117	9116	2584	7292	2051	5469	1518	4659	1281	4659	1281	
35	18000	5325	16200	4784	14400	4244	12600	3703	10800	3162	9000	2622	7200	2081	5400	1540	4600	1300	4600	1300	
36	17769	5401	15992	4853	14215	4304	12438	3756	10661	3208	8885	2659	7108	2111	5331	1562	4541	1319	4541	1319	
37	17538	5478	15784	4921	14030	4365	12277	3809	10523	3253	8769	2697	7015	2141	5261	1584	4482	1337	4482	1337	
38	17307	5554	15576	4990	13846	4426	12115	3862	10384	3298	8654	2734	6923	2170	5192	1607	4423	1356	4423	1356	
39	16588	5228	14929	4697	13271	4166	11612	3635	9953	3105	8294	2574	6635	2043	4976	1512	4239	1276	4239	1276	
40*	18072	7304	16265	6521	14458	5739	12650	4956	10843	4173	9036	3390	7229	2607	5422	1824	4157	1276	4157	1276	
41*	17713	7304	15941	6521	14170	5739	12399	4956	10628	4173	8856	3390	7085	2607	5314	1824	4074	1276	4074	1276	
42*	17353	7304	15618	6521	13883	5739	12147	4956	10412	4173	8677	3390	6941	2607	5206	1824	3991	1276	3991	1276	
43*	16994	7304	15294	6521	13595	5739	11896	4956	10196	4173	8497	3390	6797	2607	5098	1824	3909	1276	3909	1276	
44*	15070	5681	13563	5072	12056	4463	10549	3854	9042	3246	7535	2637	6028	2028	4521	1419	3466	993	3466	993	
45*	14711	5681	13240	5072	11768	4463	10297	3854	8826	3246	7355	2637	5884	2028	4413	1419	3383	993	3383	993	
46*	14351	5681	12916	5072	11481	4463	10046	3854	8611	3246	7176	2637	5740	2028	4305	1419	3301	993	3301	993	

Heating		Parts Load (%)																			
Outdoor Temperature DB (°C)	100		90		80		70		60		50		40		30		20		10		
	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	
-27	5462	2440	4916	2189	4370	1938	3823	1687	3277	1436	2731	1185	2185	934	1639	683	1246	503	1246	503	
-26	5800	2543	5220	2281	4640	2020	4060	1758	3480	1497	2900	1235	2320	973	1740	712	1323	524	1323	524	
-25	6137	2646	5524	2373	4910	2101	4296	1829	3682	1557	3069	1285	2455	1013	1841	741	1400	545	1400	545	
-24	6475	2748	5828	2466	5180	2183	4533	1900	3885	1617	3238	1335	2590	1052	1943	769	1477	566	1477	566	
-23	6813	2851	6132	2558	5450	2265	4769	1971	4088	1678	3406	1385	2725	1091	2044	798	1555	587	1555	587	
-22	7151	2954	6436	2650	5720	2346	5005	2042	4290	1738	3575	1435	2860	1131	2145	827	1632	609	1632	609	
-21	7488	3057	6740	2742	5991	2428	5242	2113	4493	1799	3744	1484	2995	1170	2247	856	1709	630	1709	630	
-20	7826	3159	7043	2834	6261	2509	5478	2184	4696	1859	3913	1534	3130	1209	2348	884	1786	651	1786	651	
-19	8185	3248	7366	2914	6548	2580	5729	2246	4911	1912	4092	1577	3274	1243	2455	909	1868	669	1868	669	
-18	8543	3337	7689	2994	6835	2650	5980	2307	5126	1964	4272	1621	3417	1277	2563	934	1949	687	1949	687	
-17	8902	3426	8012	3073	7122	2721	6232	2368	5341	2016	4451	1664	3561	1311	2671	959	2031	706	2031	706	
-16	9261	3514	8335	3153	7409	2791	6483	2430	5557	2068	4630	1707	3704	1345	2778	984	2113	724	2113	724	
-15	9620	3603	8658	3232	7696	2862	6734	2491	5772	2120	4810	1750	3848	1379	2886	1009	2195	742	2195	742	
-14	9895	3713	8905	3331	7916	2949	6926	2567	5937	2185	4947	1803	3958	1421	2968	1039	2258	765	2258	765	
-13	10170	3823	9153	3429	8136	3036	7119	2643	6102	2250	5085	1856	4068	1463	3051	1070	2320	788	2320	788	
-12	10445	3932	9400	3528	8356	3123	7311	2719	6267	2314	5222	1910	4178	1505	3133	1101	2383	810	2383	810	
-11	10720	4042	9648	3626	8576	3211	7504	2795	6432	2379	5360	1963	4288	1547	3216	1132	2446	833	2446	833	
-10	10995	4152	9896	3725	8796	3298	7697	2871	6597	2444	5498	2017	4398	1589	3299	1162	2509	855	2509	855	
-9	11270	4262	10143	3824	9016	3385	7889	2947	6762	2508	5635	2070	4508	1631	3381	1193	2572	878	2572	878	
-8	11546	4372	10391	3922	9236	3472	8082	3023	6927	2573	5773	2123	4618	1673	3464	1224	2634	901	2634	901	
-7	11821	4482	10639	4021	9457	3560	8274	3099	7092	2638	5910	2177	4728	1715	3546	1254	2697	923	2697	923	
-6	12130	4580	10917	4109	9704	3638	8491	3167	7278	2696	6065	2224	4852	1753	3639	1282	2768	944	2768	944	
-5	12440	4679	11196	4197	9952	3716	8708	3235	7464	2754	6220	2272	4976	1791	3732	1310	2839	964	2839	964	
-4	12750	4777	11475	4286	10200	3795	8925	3303	7650	2812	6375	2320	5100	1829	3825	1337	2909	984	2909	984	
-3	13060	4876	11754	4374	10448	3873	9142	3371	7836	2870	6530	2368	5224	1866	3918	1365	2980	1005	2980	1005	
-2	13370	4975	12033	4463	10696	3951	9359	3439	8022	2928	6685	2416	5348	1904	4011	1392	3051	1025	3051	1025	
-1	13679	5073	12311	4551	10943	4029	9576	3508	8208	2986	6840	2464	5472	1942	4104	1420	3121	1045	3121	1045	
0	13989	5172	12590	4640	11191	4108	9792	3576	8393	3044	6995	2512	5596	1980	4197	1448	3192	1066	3192	1066	
1	14299	5270	12869	4728	11439	4186	10009	3644	8579	3102	7149	2560	5720	2017	4290	1475	3263	1086	3263	1086	
2	14609	5369	13148	4817	11687	4264	10226	3712	8765	3160	7304	2608	5843	2055	4383	1503	3333	1106	3333	1106	
3	14848	5441	13363	4881	11878	4322	10394	3762	8909	3202	7424	2643	5939	2083	4454	1523	3388	1121	3388	1121	
4	15087	5513	13579	4946	12070	4379	10561	3812	9052	3245	7544	2678	6035	2110	4526	1543	3443	1136	3443	1136	
5	15327	5586	13794	5011	12261	4436	10729	3862	9196	3287	7663	2713	6131	2138	4598	1564	3497	1151	3497	1151	
6	15640	5793	13767	5359	12572	4744	10748	4130	11784	3515	9820	2901	7856	2286	5892	1672	4481	1231	4481	1231	
7	20160	6067	18144	5443	16128	4819	14112	4195	12096	3571	10080	2946	8064	2322	6048	1698	4600	1250	4600	1250	
8	20680	6161	18612	5527	16544	4893	14476	4260	12408	3626	10340	2992	8272	2358	6204	1725	4719	1269	4719	1269	
9	21201	6255	19080	5611	16960	4968	14840	4325	12720	3681	10600	3038	8480	2394	6360	1751	4837	1289	4837	1289	
10	21721	6349	19549	5696	17377	5043	15205	4390	13032	3736	10860	3083	8688	2430	6516	1777	4956	1308	4956	1308	
11	22241	6443	20017	5780	17793	5117	15569	4454	13345	3792	11121	3129	8896	2466	6672	1803	5075	1327	5075	1327	
12	22761	6537	20485	5864	18209	5192	15933	4519	13657	3847	11381	3175	9105	2502	6828	1830	5194	1347	5194	1347	
13	23282	6631	20953	5949	18625	5266	16297	4584	13969	3902	11641	3220	9313	2538	6984	1856	5312	1366	5312	1366	
14	23802	6725	21422	6033	19041	5341	16661	4649	14281	3958	11901	3266	9521	2574	7141	1882	5431	1385	5431	1385	
15	24322	6819	21890	6117	19458	5416	17025	4714	14593	4013	12161	3311	9729	2610	7297	1909	5550	1405	5550	1405	
16	24842	6912	22358	6201	19874	5490	17390	4779	14905	4068	12421	3357	9937	2646	7453	1935	5668	1424	5668	1424	
17	25363	7006	22826	6286	20290	5565	17754	4844	15218	4123	12681	3403	10145	2682	7609	1961	5787	1444	5787	1444	
18	25883	7100	23295	6370	20706	5640	18118	4909	15530	4179	12941	3448	10353	2718	7765	1988	5906	1463	5906	1463	
19	26403	7194	23763	6454	21122	5714	18482	4974	15842	4234	13202	3494	10561	2754	7921	2014	6025	1482	6025	1482	
20	26923	7288	24231	6538	21539	5789	18846	5039	16154	4289	13462	3540	10769	2790	8077	2040	6143	1502	6143	1502	
21	27444	7382	24699	6623	21955	5863	19211	5104	16466	4345	13722	3585	10977	2826	8233	2066	6262	1521	6262	1521	
22	27964	7476	25167	6707	22371	5938	19575	5169	16778	4400	13982	3631	11186	2862	8389	2093	6381	1540	6381	1540	
23	28484	7570	25636	6791	22787	6013	19939	5234	17090	4455	14242	3676	11394	2898	8545	2119	6499	1560	6499	1560	
24	29004	7664	26104	6876	23204	6087	20303	5299	17403	4510	14502	3722	11602	2934	8701	2145	6618	1579	6618	1579	

Combination <Rated condition>

Indoor: RAV-HM801KRTP-E×3, RAV-HM801KRTP-E×4
Outdoor: RAV-GM2803AT8(J)P-E

Operation range	Cooling		Heating	
	Q	P	Q	P
MINIMUM	W 4600	1330	4600	1280
RATING	W 23500	10960	24000	7750

Cooling

Outdoor Temperature DB (°C)	Parts Load (%)																			
	100		90		80		70		60		50		40		30		20		10	
	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P
20	28024	8604	25221	7664	22419	6724	19617	5784	16814	4844	14012	3904	11210	2964	8407	2024	5605	1084	5486	1044
21	27722	8761	24950	7804	22178	6846	19406	5889	16633	4932	13861	3975	11089	3018	8317	2061	5544	1104	5426	1063
22	27421	8918	24679	7944	21936	6969	19194	5995	16452	5021	13710	4046	10968	3072	8226	2098	5484	1124	5367	1082
23	27119	9075	24407	8083	21695	7092	18983	6101	16271	5109	13560	4118	10848	3126	8136	2135	5424	1143	5308	1101
24	26817	9232	24136	8223	21454	7215	18772	6206	16090	5198	13409	4189	10727	3180	8045	2172	5363	1163	5249	1120
25	26516	9389	23864	8363	21213	7338	18561	6312	15910	5286	13258	4260	10606	3235	7955	2209	5303	1183	5190	1139
26	26214	9546	23593	8503	20971	7460	18350	6417	15729	5374	13107	4332	10486	3289	7864	2246	5243	1203	5131	1158
27	25913	9703	23321	8643	20730	7583	18139	6523	15548	5463	12956	4403	10365	3343	7774	2283	5183	1223	5072	1177
28	25611	9860	23050	8783	20489	7706	17928	6629	15367	5551	12806	4474	10244	3397	7683	2320	5122	1242	5013	1197
29	25310	10017	22779	8923	20248	7829	17717	6734	15186	5640	12655	4545	10124	3451	7593	2357	5062	1262	4954	1216
30	25008	10175	22507	9063	20006	7951	17506	6840	15005	5728	12504	4617	10003	3505	7502	2394	5002	1282	4895	1235
31	24706	10332	22236	9203	19765	8074	17294	6945	14824	5817	12353	4688	9883	3559	7412	2431	4941	1302	4836	1254
32	24405	10489	21964	9343	19524	8197	17083	7051	14643	5905	12202	4759	9762	3613	7321	2467	4881	1322	4777	1273
33	24103	10646	21693	9483	19283	8320	16872	7157	14462	5994	12052	4831	9641	3667	7231	2504	4821	1341	4718	1292
34	23802	10803	21421	9623	19041	8442	16661	7262	14281	6082	11901	4902	9521	3722	7140	2541	4760	1361	4659	1311
35	23500	10960	21150	9763	18800	8565	16450	7368	14100	6170	11750	4973	9400	3776	7050	2578	4700	1381	4600	1330
36	23198	11117	20879	9903	18559	8688	16239	7473	13919	6259	11599	5044	9279	3830	6960	2615	4640	1401	4541	1349
37	22897	11274	20607	10042	18317	8811	16028	7579	13738	6347	11448	5116	9159	3884	6869	2652	4579	1421	4482	1368
38	22595	11431	20336	10182	18076	8934	15817	7685	13557	6436	11298	5187	9038	3938	6779	2689	4519	1440	4423	1387
39	19405	7853	17464	6995	15524	6137	13583	5279	11643	4421	9702	3563	7762	2705	5441	1847	3881	989	3798	953
40	18982	7853	17084	6995	15186	6137	13287	5279	11389	4421	9491	3563	7593	2705	5695	1847	3796	989	3716	953
41	18559	7853	16703	6995	14847	6137	12991	5279	11135	4421	9279	3563	7424	2705	5568	1847	3712	989	3633	953
42	18136	7853	16322	6995	14509	6137	12695	5279	10881	4421	9068	3563	7254	2705	5441	1847	3627	989	3550	953
43	17713	7853	15941	6995	14170	6137	12399	5279	10628	4421	8856	3563	7085	2705	5314	1847	3543	989	3467	953
44	15940	6108	14346	5441	12752	4773	11158	4106	9564	3439	7970	2771	6376	2104	4782	1437	3188	770	3120	741
45	15517	6108	13965	5441	12414	4773	10862	4106	9310	3439	7759	2771	6207	2104	4655	1437	3103	770	3037	741
46	15094	6108	13585	5441	12075	4773	10566	4106	9056	3439	7547	2771	6038	2104	4528	1437	3019	770	2955	741

Heating

Outdoor Temperature DB (°C)	Parts Load (%)																			
	100		90		80		70		60		50		40		30		20		10	
	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P
-27	6522	2834	5870	2541	5217	2249	4565	1956	3913	1663	3261	1371	2609	1078	1957	785	1304	492	1250	468
-26	6988	3006	6289	2695	5590	2385	4891	2074	4193	1764	3494	1454	2795	1143	2096	833	1398	522	1339	496
-25	7453	3177	6708	2849	5963	2521	5217	2193	4472	1865	3727	1537	2981	1208	2236	880	1491	552	1429	525
-24	7919	3349	7127	3003	6335	2657	5543	2311	4752	1965	3960	1620	3168	1274	2376	928	1584	582	1518	553
-23	8385	3521	7547	3157	6708	2793	5870	2430	5031	2066	4193	1703	3354	1339	2516	975	1677	612	1607	581
-22	8851	3692	7966	3311	7081	2930	6196	2548	5311	2167	4425	1786	3540	1404	2655	1023	1770	642	1696	610
-21	9317	3864	8385	3465	7453	3066	6522	2667	5590	2268	4658	1869	3727	1470	2795	1071	1863	671	1786	638
-20	9783	4036	8804	3619	7826	3202	6848	2785	5870	2368	4891	1952	3913	1535	2935	1118	1957	701	1875	667
-19	10109	4149	9098	3721	8087	3292	7076	2864	6065	2435	5054	2007	4043	1578	3033	1149	2022	721	1938	685
-18	10435	4262	9391	3822	8348	3382	7304	2942	6261	2502	5217	2061	4174	1621	3130	1181	2087	741	2000	704
-17	10761	4376	9685	3924	8609	3472	7533	3020	6457	2568	5380	2116	4304	1664	3228	1212	2152	760	2063	723
-16	11087	4489	9978	4026	8870	3562	7761	3098	6652	2635	5543	2171	4435	1707	3326	1244	2217	780	2125	741
-15	11413	4603	10272	4127	9130	3652	7989	3176	6848	2701	5707	2226	4565	1750	3424	1275	2283	800	2188	760
-14	11753	4743	10577	4253	9402	3763	8227	3273	7052	2783	5876	2294	4701	1804	3526	1314	2351	824	2253	783
-13	12092	4883	10883	4379	9674	3874	8465	3370	7255	2866	6046	2361	4837	1857	3628	1353	2418	849	2318	806
-12	12432	5023	11189	4505	9946	3986	8702	3467	7459	2948	6216	2429	4973	1911	3730	1392	2486	873	2383	830
-11	12772	5164	11495	4630	10217	4097	8940	3564	7663	3030	6386	2497	5109	1964	3832	1431	2554	897	2448	853
-10	13111	5304	11800	4756	10489	4208	9178	3661	7867	3113	6556	2565	5245	2017	3933	1469	2622	922	2513	876
-9	13451	5444	12106	4882	10761	4320	9416	3757	8071	3195	6726	2633	5380	2071	4035	1508	2690	946	2578	899
-8	13791	5585	12412	5008	11033	4431	9654	3854	8274	3277	6895	2701	5516	2124	4137	1547	2758	970	2643	922
-7	14130	5725	12717	5134	11304	4542	9891	3951	8478	3360	7065	2769	5652	2177	4239	1586	2826	995	2708	946
-6	14493	5851	13043	5246	11594	4642	10145	4038	8696	3434	7246	2829	5797	2225	4348	1621	2899	1017	2778	966
-5	14855	5977	13370	5359	11884	4742	10399	4125	8913	3508	7428	2890	5942	2273	4457	1656	2971	1039	2847	987
-4	15217	6103	13696	5472	12174	4842	10652	4212	9130	3582	7609	2951	6087	2321	4565	1691	3043	1060	2917	1008
-3	15580	6229	14022	5585	12464	4942	10906	4299	9348	3655	7790	3012	6232	2369	4674	1726	3116	1082	2986	1029
-2	15942	6355	14348	5698	12754	5042	11159	4386	9565	3729	7971	3073	6377	2417	4783	1761	3188	1104	3056	1050
-1	16304	6481	14674	5811	13043	5142	11413	4473	9783	3803	8152	3134	6522	2465	4891	1795	3261	1126	3125	1070
0	16667	6606	15000	5924	13333	5242	11667	4560	10000	3877	8333	3195	6667	2513	5000	1830	3333	1148	3194	1091

Combination <Capacity range (Max)>

Indoor: RAV-HM801KRTP-E×3, RAV-HM801KRTP-E×4
Outdoor: RAV-GM2803AT8(J)P-E

Operation range	Cooling		Heating	
	Q	P	Q	P
MINIMUM	W 4600	1330	4600	1280
RATING	W 23500	10960	24000	7750
MAXIMUM	W 25000	10870	28000	9330

Cooling

Outdoor Temperature DB (°C)	Parts Load (%)															
	100		90		80		70		60		50		40		30	
	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P
20	32126	10276	28914	9171	25701	8065	22488	6960	19276	5855	16063	4750	12850	3645	9638	2539
21	31780	10463	28602	9338	25424	8213	22246	7087	19068	5962	15890	4837	12712	3711	9534	2586
22	31435	10651	28291	9506	25148	8360	22004	7214	18861	6069	15717	4923	12574	3778	9430	2632
23	31089	10839	27980	9673	24871	8507	21762	7341	18653	6176	15544	5010	12436	3844	9327	2678
24	30558	10870	27502	9701	24446	8532	21391	7363	18335	6194	15279	5024	12223	3855	9167	2686
25	30002	10870	27001	9701	24001	8532	21001	7363	18001	6194	15001	5024	12001	3855	9000	2686
26	29457	10870	26511	9701	23565	8532	20620	7363	17674	6194	14728	5024	11783	3855	8837	2686
27	28923	10870	26031	9701	23139	8532	20246	7363	17354	6194	14462	5024	11569	3855	8677	2686
28	28400	10870	25560	9701	22720	8532	19880	7363	17040	6194	14200	5024	11360	3855	8520	2686
29	27888	10870	25099	9701	22310	8532	19521	7363	16733	6194	13944	5024	11155	3855	8366	2686
30	27385	10870	24646	9701	21908	8532	19169	7363	16431	6194	13692	5024	10954	3855	8215	2686
31	26891	10870	24202	9701	21513	8532	18823	7363	16134	6194	13445	5024	10756	3855	8067	2686
32	26406	10870	23765	9701	21125	8532	18484	7363	15843	6194	13203	5024	10562	3855	7922	2686
33	25929	10870	23336	9701	20743	8532	18150	7363	15558	6194	12965	5024	10372	3855	7779	2686
34	25461	10870	22915	9701	20369	8532	17823	7363	15276	6194	12730	5024	10184	3855	7638	2686
35	25000	10870	22500	9701	20000	8532	17500	7363	15000	6194	12500	5024	10000	3855	7500	2686
36	24547	10870	22092	9701	19637	8532	17183	7363	14728	6194	12273	5024	9819	3855	7364	2686
37	24100	10870	21690	9701	19280	8532	16870	7363	14460	6194	12050	5024	9640	3855	7230	2686
38	23661	10870	21295	9701	18929	8532	16563	7363	14197	6194	11830	5024	9464	3855	7098	2686
39	20021	7247	18019	6467	16017	5688	14015	4908	12013	4129	10011	3350	8008	2570	6006	1791
40	19585	7247	17626	6467	15668	5688	13709	4908	11751	4129	9792	3350	7834	2570	5875	1791
41	19148	7247	17233	6467	15318	5688	13404	4908	11489	4129	9574	3350	7659	2570	5744	1791
42	18712	7247	16840	6467	14969	5688	13098	4908	11227	4129	9356	3350	7485	2570	5613	1791
43	18275	7247	16448	6467	14620	5688	12793	4908	10965	4129	9138	3350	7310	2570	5483	1791
44	16446	5636	14802	5030	13157	4424	11512	3818	9868	3211	8223	2605	6578	1999	4934	1393
45	16010	5636	14409	5030	12808	4424	11207	3818	9606	3211	8005	2605	6404	1999	4803	1393
46	15573	5636	14016	5030	12459	4424	10901	3818	9344	3211	7787	2605	6229	1999	4672	1393

Heating

Outdoor Temperature DB (°C)	Parts Load (%)																			
	100		90		80		70		60		50		40		30		20		10	
	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P
-27	9856	6451	8871	5785	7885	5119	6899	4453	5914	3787	4928	3121	3943	2455	2957	1789	1971	1123	1619	885
-26	10560	6842	9504	6136	8448	5429	7392	4723	6336	4017	5280	3310	4224	2604	3168	1897	2112	1191	1735	939
-25	11264	7233	10138	6486	9012	5739	7885	4993	6759	4246	5632	3499	4506	2752	3379	2006	2253	1259	1851	992
-24	11968	7624	10772	6837	9575	6050	8378	5262	7181	4475	5984	3688	4787	2901	3591	2114	2394	1327	1966	1046
-23	12672	8015	11405	7187	10138	6360	8871	5532	7603	4705	6336	3877	5069	3050	3802	2222	2534	1395	2082	1106
-22	13376	8405	12039	7537	10701	6670	9364	5802	8026	4934	6688	4066	5351	3199	4013	2331	2675	1463	2198	1153
-21	14081	8796	12672	7888	11264	6980	9856	6072	8448	5164	7040	4255	5632	3347	4224	2439	2816	1531	2313	1207
-20	14785	9187	13306	8238	11828	7290	10349	6341	8871	5393	7392	4444	5914	3496	4435	2548	2957	1599	2429	1260
-19	15277	9445	13750	8470	12222	7495	10694	6520	9166	5544	7639	4569	6111	3594	4583	2619	3055	1644	2510	1296
-18	15770	9703	14193	8701	12616	7699	11039	6698	9462	5696	7885	4694	6308	3692	4731	2691	3154	1689	2591	1331
-17	16263	9961	14637	8933	13010	7904	11384	6876	9758	5847	8132	4819	6505	3791	4879	2762	3253	1734	2672	1367
-16	16756	10219	15080	9164	13405	8109	11729	7054	10053	5999	8378	4944	6702	3889	5027	2834	3351	1779	2753	1402
-15	17249	10477	15524	9395	13799	8314	12074	7232	10349	6150	8624	5069	6899	3987	5175	2905	3450	1824	2834	1437
-14	17762	10796	15986	9682	14210	8567	12433	7453	10657	6338	8881	5223	7105	4109	5329	2994	3552	1879	2918	1481
-13	18275	11116	16448	9968	14620	8821	12793	7673	10965	6525	9138	5378	7310	4230	5483	3082	3655	1935	3002	1525
-12	18789	11435	16910	10255	15031	9074	13152	7893	11273	6713	9394	5532	7515	4352	5637	3171	3758	1990	3087	1569
-11	19302	11754	17372	10541	15442	9327	13511	8114	11581	6900	9651	5687	7721	4473	5791	3260	3860	2046	3171	1613
-10	19815	12074	17834	10827	15852	9581	13871	8334	11889	7088	9908	5841	7926	4595	5945	3348	3963	2102	3255	1656
-9	20329	12393	18296	11114	16263	9834	14230	8555	12197	7275	10164	5996	8132	4716	6099	3437	4066	2157	3340	1700
-8	20842	12713	18758	11400	16674	10088	14589	8775	12505	7463	10421	6150	8337	4838	6253	3525	4168	2213	3424	1744
-7	21355	13032	19220	11686	17084	10341	14949	8996	12813	7650	10678	6305	8542	4959	6407	3614	4271	2268	3508	1788
-6	21903	13319	19713	11944	17522	10569	15332	9193	13142	7818	10952	6443	8761	5068	6571	3693	4381	2318	3598	1827
-5	22451	13605	20206	12201	17960	10796	15715	9391	13470	7987	11225	6582	8980	5177	6735	3773	4490	2368	3688	1867
-4	22998	13892	20698	12458	18399	11024	16099	9589	13799	8155	11499	6721	9199	5287	6899	3852	4600	2418	3778	1906
-3	23546	14179	21191	12715	18837	11251	16482	9787	14127	8323	11773	6860	9418	5396	7064	3932	4709	2468	3868	1945
-2	24093	14466	21684	12972	19275	11479	16865	9985	14456	8492	12047	6998	9637	5505	7228	4011	4819	2518	3958	1985
-1	24641	14752	22177	13229	19713	11706	17249	10183	14785	8660	12320	7137	9856	5614	7392	4091	4928	2568	4048	2024
0	25188	15039	22670	13486	20151	11934	17632	10381	15113	8828	12594	7276	10075	5723	7557	4170	5038	2618	4138	2063
1	25736	15326	23162	13743	20589	12161	18015	10579	15442	8997	12868	7414	10294	5832	7721	4250	5147	2668	4228	2103
2	26284	15612	23655	14001	21027	12389	18399	10777	15770	9165	13142	7553	10513	5941	7885	4329	5257	2718	4318	2142
3	26833	15874	24176	14235	21490	12596	18804	10957	16118	9318	13431	7680	10745	6041	8059	4402	5373	2763	4413	2178
4	27448	16135	24703	14469	21958	12803	19213	11138	16469	9472	13724	7806	10979	6140	8234	4474	5490	2809	4509	2214
5	24422	9330	21980	8367	19538	7404	17096	6440	14653	5477	12211	4514	9769	3551	7327	2587	4884	1624	4012	1280
6	24772	9330	24724	8367	21977	7404	19230	6440	16483	5477	13736	4514	10989	3551	8241	2587	5494	1624	4513	1280
7	28000	9330	25200	8367	22400	7404	19600	6440	16800	5477	14000	4514	11200	3551	8400	2587	5600	1624	4600	1280
8	28524	9330	25672	8367	22819	7404	19967	6440	17115	5477	14262	4514	11410	3551	8557	2587	5705	1624	4686	1280
9	29045	9330	26140	8367	23236	7404	20331	6440	17427	5477	14522	4514	11618	3551	8713	2587	5809	1624	4772	1280
10	29561	9330	26605	8367	23649	7404	20693	6440	17737	5477	14781	4514	11825	3551	8868	2587	5912	1624	4857	1280
11	30075	9330	27067	8367	24060	7404	21052	6440	18045	5477	15037	4514	12030	3551	9022	2587	6015	1624	4941	1280
12	30584	9330	27526	8367	24468	7404	21409	6440	18351	5477	15292	4514	12234	3551	9175	2587	6117	1624	5025	1280
13	31091	9330	27982	8367	24873	7404	21764	6440	18655	5477	15545	4514	12436	3551	9327	2587	6218	1624	5108	1280
14	31594	9330	28435	8367	25276	7404	22116	6440	18957	5477	15797	4514	12638	3551	9478	2587	6319	1624	5191	1280
15	32095	9330	28885	8367	25676	7404	22466	6440	19257	5477	16047	4514	12838	3551	9628	2587	6419	1624	5273	1280
16	32593	9330	29333	8367	26074	7404	22815	6440	19556	5477	16296	4514	13037	3551	9778	2587	6519	1624	5354	1280
17	33631	9330	30268	8367	26904	7404	23541	6440	20178	5477	16815	4514	13452	3551	10089	2587	6726	1624	5525	1280
18	34207	9330	30786	8367	27366	7404	23945	6440	20524	5477	17103	4514	13683	3551	10262	2587	6841	1624	5620	1280
19	34783	9330	31305	8367	27827	7404	24348	6440	20870	5477	17392	4514	13913	3551	10435	2587	6957	1624	5714	1280
20	35360	9330	31824	8367	28288	7404	24752	6440	21216	5477	17680	4514	14144	3551	10608	2587	7072	1624	5809	1280
21	35936	9330	32343	8367	28749	7404	25155	6440	21562	5477	17968	4514	14374	3551	10781	2587	7187	1624	5904	1280
22	36513	9330	32861	8367	29210	7404	25559	6440	21908	5477	18256	4514	14605	3551	10954	2587	7303	1624	5998	1280
23	37089	9330	33380	8367	29671	7404	25962	6440	22253	5477	18544	4514	14836	3551	11127	2587	7418	1624	6093	1280
24	37665	9330	33899	8367	30132	7404	26366	6440	22599	5477	18833	4514	15066	3551	11300	2587	7533	1624	6188	1280

Combination <Rated condition>

Indoor: RAV-HM801KRTP-E×3, RAV-HM801KRTP-E×4
Outdoor: RAV-GM2803AT8(J)P-E

Operation range	Cooling		Heating	
	Q	P	Q	P
MINIMUM	W 4600	1330	4600	1280
Night operation 1	W 11750	3498	12000	2767

*When outside air temperature is 40°C or more, the night operation does not operate.

Cooling

Outdoor Temperature DB (°C)	Parts Load (%)															
	100		90		80		70		60		50		40		30	
	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P
20	14012	2746	12611	2466	11210	2187	9808	1907	8407	1627	7006	1348	5605	1068	5486	1044
21	13861	2796	12475	2511	11089	2226	9703	1942	8317	1657	6931	1372	5544	1087	5426	1063
22	13710	2846	12339	2556	10968	2266	9597	1977	8226	1687	6855	1397	5484	1107	5367	1082
23	13560	2896	12204	2601	10848	2306	9492	2011	8136	1716	6780	1421	5424	1126	5308	1101
24	13409	2946	12068	2646	10727	2346	9386	2046	8045	1746	6704	1446	5363	1146	5249	1120
25	13258	2997	11932	2691	10606	2386	9281	2081	7955	1776	6629	1471	5303	1165	5190	1139
26	13107	3047	11796	2736	10486	2426	9175	2116	7864	1805	6554	1495	5243	1185	5131	1158
27	12956	3097	11661	2781	10365	2466	9069	2151	7774	1835	6478	1520	5183	1204	5072	1177
28	12806	3147	11525	2827	10244	2506	8964	2185	7683	1865	6403	1544	5122	1224	5013	1197
29	12655	3197	11389	2872	10124	2546	8858	2220	7593	1895	6327	1569	5062	1243	4954	1216
30	12504	3247	11254	2917	10003	2586	8753	2255	7502	1924	6252	1594	5002	1263	4895	1235
31	12353	3297	11118	2962	9883	2626	8647	2290	7412	1954	6177	1618	4941	1282	4836	1254
32	12202	3348	10982	3007	9762	2666	8542	2325	7321	1984	6101	1643	4881	1302	4777	1273
33	12052	3398	10846	3052	9641	2706	8436	2360	7231	2013	6026	1667	4821	1321	4718	1292
34	11901	3448	10711	3097	9521	2746	8331	2394	7140	2043	5950	1692	4760	1341	4659	1311
35	11750	3498	10575	3142	9400	2785	8225	2429	7050	2073	5875	1717	4700	1360	4600	1330
36	11599	3548	10439	3187	9279	2825	8119	2464	6960	2103	5800	1741	4640	1380	4541	1349
37	11448	3598	10304	3232	9159	2865	8014	2499	6869	2132	5724	1766	4579	1399	4482	1368
38	11298	3648	10168	3277	9038	2905	7908	2534	6779	2162	5649	1790	4519	1419	4423	1387
39	9702	2506	8732	2251	7762	1996	6792	1741	5821	1485	4851	1230	3881	975	3798	953
40*	18982	7853	17084	6987	15186	6121	13287	5255	11389	4389	9491	3523	7593	2657	5695	1791
41*	18559	7853	16703	6987	14847	6121	12991	5255	11135	4389	9279	3523	7424	2657	5568	1791
42*	18136	7853	16322	6987	14509	6121	12695	5255	10881	4389	9068	3523	7254	2657	5441	1791
43*	17713	7853	15941	6987	14170	6121	12399	5255	10628	4389	8856	3523	7085	2657	5314	1791
44*	15940	6108	14346	5434	12752	4761	11158	4087	9564	3414	7970	2740	6376	2067	4782	1393
45*	15517	6108	13965	5434	12414	4761	10862	4087	9310	3414	7759	2740	6207	2067	4655	1393
46*	15094	6108	13585	5434	12075	4761	10566	4087	9056	3414	7547	2740	6038	2067	4528	1393

Heating

Outdoor Temperature DB (°C)	Parts Load (%)																			
	100		90		80		70		60		50		40		30		20		10	
	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P
-27	3261	1012	2935	924	2609	835	2283	747	1957	659	1630	571	1304	483	1250	468	1250	468	1250	468
-26	3494	1073	3144	980	2795	886	2446	793	2096	699	1747	606	1398	512	1339	496	1339	496	1339	496
-25	3727	1134	3354	1036	2981	937	2609	838	2236	739	1863	640	1491	541	1429	525	1429	525	1429	525
-24	3960	1196	3564	1092	3168	987	2772	883	2376	779	1980	675	1584	570	1518	553	1518	553	1518	553
-23	4193	1257	3773	1147	3354	1038	2935	928	2516	819	2096	709	1677	600	1607	581	1607	581	1607	581
-22	4425	1318	3983	1203	3540	1089	3098	974	2655	859	2213	744	1770	629	1696	610	1696	610	1696	610
-21	4658	1380	4193	1259	3727	1139	3261	1019	2795	899	2329	778	1863	658	1786	638	1786	638	1786	638
-20	4891	1441	4402	1315	3913	1190	3424	1064	2935	939	2446	813	1957	687	1875	667	1875	667	1875	667
-19	5054	1481	4549	1352	4043	1223	3538	1094	3033	965	2527	836	2022	707	1938	685	1938	685	1938	685
-18	5217	1522	4696	1389	4174	1257	3652	1124	3130	991	2609	859	2087	726	2000	704	2000	704	2000	704
-17	5380	1562	4842	1426	4304	1290	3766	1154	3228	1018	2690	882	2152	745	2063	723	2063	723	2063	723
-16	5543	1603	4989	1463	4435	1323	3880	1184	3326	1044	2772	904	2217	765	2125	741	2125	741	2125	741
-15	5707	1643	5136	1500	4565	1357	3995	1214	3424	1070	2853	927	2283	784	2188	760	2188	760	2188	760
-14	5876	1693	5289	1546	4701	1398	4113	1251	3526	1103	2938	955	2351	808	2253	783	2253	783	2253	783
-13	6046	1743	5442	1591	4837	1440	4232	1288	3628	1136	3023	984	2418	832	2318	806	2318	806	2318	806
-12	6216	1794	5594	1637	4973	1481	4351	1325	3730	1168	3108	1012	2486	856	2383	830	2383	830	2383	830
-11	6386	1844	5747	1683	5109	1522	4470	1362	3832	1201	3193	1040	2554	880	2448	853	2448	853	2448	853
-10	6556	1894	5900	1729	5245	1564	4589	1399	3933	1234	3278	1069	2622	904	2513	876	2513	876	2513	876
-9	6726	1944	6053	1774	5380	1605	4708	1436	4035	1266	3363	1097	2690	927	2578	899	2578	899	2578	899
-8	6895	1994	6206	1820	5516	1646	4827	1473	4137	1299	3448	1125	2758	951	2643	922	2643	922	2643	922
-7	7065	2044	6359	1866	5652	1688	4946	1510	4239	1331	3533	1153	2826	975	2708	946	2708	946	2708	946
-6	7246	2089	6522	1907	5797	1725	5072	1543	4348	1361	3623	1179	2899	997	2778	966	2778	966	2778	966
-5	7428	2134	6685	1948	5942	1762	5199	1576	4457	1390	3714	1204	2971	1018	2847	987	2847	987	2847	987
-4	7609	2179	6848	1989	6087	1799	5326	1609	4565	1419	3804	1229	3043	1040	2917	1008	2917	1008	2917	1008
-3	7790	2224	7011	2030	6232	1836	5453	1642	4674	1449	3895	1255	3116	1061	2986	1029	2986	1029	2986	1029
-2	7971	2269	7174	2071	6377	1873	5580	1676	4783	1478	3986	1280	3188	1082	3056	1050	3056	1050	3056	1050
-1	8152	2314	7337	2112	6522	1910	5707	1709	4891	1507	4076	1306	3261	1104	3125	1070	3125	1070	3125	1070
0	8333	2359	7500	2153	6667	1948	5833	1742	5000	1537	4167	1331	3333	1125	3194	1091	3194	1091	3194	1091
1	8514	2404	7663	2194	6812	1985	5960	1775	5109	1566	4257	1356	3406	1147	3264	1112	3264	1112	3264	1112
2	8696	2449	7826	2235	6957	2022	6087	1808	5217	1595	4348	1382	3478	1168	3333	1133	3333	1133	3333	1133
3	8878	2492	7984	2265	7070	2049	6187	1833	5303	1617	4419	1400	3555	1184	3388	1148	3388	1148	3388	1148
4	8981	2515	8082	2295	7184	2076	6286	1857	5388	1638	4490	1419	3592	1200	3443	1163	3443	1163	3443	1163
5	9123	2547	8211	2325	7298	2103	6386	1881	5474	1659	4561	1437	3649	1215	3497	1178	3497	1178	3497	1178
6	11690	2724	10521	2487	9352	2249	8183	2012	7014	1775	5845	1537	4676	1300	4481	1260	4481	1260	4481	1260
7	12000	2767	10800	2526	9600	2285	8400	2044	7200	1802	6000	1561	4800	1320	4600	1280	4600	1280	4600	1280
8	12310	2810	11079	2565	9848	2320	8617	2075	7386	1830	6155	1585	4924	1341	4719	1300	4719	1300	4719	1300
9	12619	2853	11357	2604	10095	2355	8834	2107	7572	1858	6310	1610	5048	1361	4837	1320	4837	1320	4837	1320
10	12929	2896	11636	2643	10343	2391	9050	2139	7757	1886	6465	1634	5172	1382	4956	1339	4956	1339	4956	1339
11	13239	2938	11915	2682	10591	2426	9267	2170	7943	1914	6619	1658	5295	1402	5075	1359	5075	1359	5075	1359
12	13548	2981	12194	2721	10839	2462	9484	2202	8129	1942	6774	1682	5419	1422	5194	1379	5194	1379	5194	1379
13	13858	3024	12472	2761	11086	2497	9701	2233	8315	1970	6929	1706	5543	1443	5312	1399	5312	1399	5312	1399
14	14168	3067	12751	2800	11334	2532	9917	2265	8501	1998	7084	1731	5667	1463	5431	1419	5431	1419	5431	1419
15	14477	3110	13030	2839	11582	2568	10134	2297	8686	2026	7239	1755	5791	1484	5550	1439	5550	1439	5550	1439
16	14787	3153	13308	2878	11830	2603	10351	2328	8872	2054	7394	1779	5915	1504	5668	1458	5668	1458	5668	1458
17	12283	1980	11055	1807	9827	1635	8598	1462	7370	1290	6142	1117	4913	945	4709	916	4709	916	4709	916
18	12494	1980	11245	1807	9995	1635	8746	1462	7496	1290	6247	1117	4998	945	4789	916	4789	916	4789	916
19	12704	1980	11434	1807	10164	1635	8893	1462	7623	1290	6352	1117	5082	945	4870	916	4870	916	4870	916
20	12915	1980	11624	1807	10332	1635	9041	1462	7749	1290	6458	1117	5166	945	4951	916	4951	916	4951	916
21	13126	1980	11813	1807	10500	1635	9188	1462	7875	1290	6563	1117	5250	945	5031	916	5031	916	5031	916
22	13336	1980	12002	1807	10669	1635	9335	1462	8002	1290	6668	1117	5334	945	5112	916	5112	916	5112	916
23	13547	1980	12192	1807	10837	1635	9483	1462	8128	1290	6773	1117	5419	945	5193	916	5193	916	5193	916
24	13757	1980	12381	1807	11006	1635	9630	1462	8254	1290	6879	1117	5503	945	5274	916	5274	916	5274	916

Combination <Rated condition>

Indoor: RAV-HM801KRTP-E×3, RAV-HM801KRTP-E×4
Outdoor: RAV-GM2803AT8(J)P-E

Operation range	Cooling		Heating	
	Q	P	Q	P
MINIMUM	W 4600	1330	4600	1280
Night operation 2	W 16450	5414	16800	4254

* When outside air temperature is 40°C or more, the night operation does not operate.

Outdoor Temperature DB (°C)		Parts Load (%)															
		100		90		80		70		60		50		40		30	
		Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P
20	19617	4250	17655	3805	15693	3360	13732	2915	11770	2470	9808	2025	7847	1580	5885	1135	5486
21	19406	4328	17465	3874	15524	3421	13584	2968	11643	2515	9703	2062	7762	1609	5822	1155	5426
22	19194	4405	17275	3944	15356	3483	13436	3021	11517	2560	9597	2099	7678	1637	5758	1176	5367
23	18983	4483	17085	4013	15187	3544	13288	3075	11390	2605	9492	2136	7593	1666	5695	1197	5308
24	18772	4560	16895	4083	15018	3605	13141	3128	11263	2650	9386	2173	7509	1695	5632	1218	5249
25	18561	4638	16705	4152	14849	3667	12993	3181	11137	2695	9281	2210	7424	1724	5568	1238	5190
26	18350	4716	16515	4222	14680	3728	12845	3234	11010	2740	9175	2247	7340	1753	5505	1259	5131
27	18139	4793	16325	4291	14511	3789	12697	3287	10883	2785	9069	2284	7256	1782	5442	1280	5072
28	17928	4871	16135	4361	14342	3851	12549	3341	10757	2831	8964	2321	7171	1810	5378	1300	5013
29	17717	4948	15945	4430	14173	3912	12402	3394	10630	2876	8858	2358	7087	1839	5315	1321	4954
30	17506	5026	15755	4500	14004	3973	12254	3447	10503	2921	8753	2394	7002	1868	5252	1342	4895
31	17294	5104	15565	4569	13836	4035	12106	3500	10377	2966	8647	2431	6918	1897	5188	1363	4836
32	17083	5181	15375	4639	13667	4096	11958	3554	10250	3011	8542	2468	6833	1926	5125	1383	4777
33	16872	5259	15185	4708	13498	4157	11811	3607	10123	3056	8436	2505	6749	1955	5062	1404	4718
34	16661	5336	14995	4778	13329	4219	11663	3660	9997	3101	8331	2542	6664	1984	5000	1425	4659
35	16450	5414	14805	4847	13160	4280	11515	3713	9870	3146	8225	2579	6580	2012	4935	1445	4600
36	16239	5492	14615	4917	12991	4341	11367	3766	9743	3191	8119	2616	6496	2041	4872	1466	4541
37	16028	5569	14425	4986	12822	4403	11219	3820	9617	3236	8014	2653	6411	2070	4808	1487	4482
38	15817	5647	14235	5055	12653	4464	11072	3873	9490	3282	7908	2690	6327	2099	4745	1508	4423
39	15606	5724	14045	5124	12484	4525	10924	3926	9363	3327	7803	2727	6242	2128	4682	1528	4364
40*	15395	5801	13855	5193	12315	4586	10776	3970	9236	3372	7698	2764	6157	2157	4621	1548	4305
41*	15184	5878	13665	5262	12146	4647	10628	4014	9109	3417	7593	2801	6072	2186	4554	1568	4246
42*	14973	5955	13475	5331	11977	4708	10480	4058	8982	3462	7488	2838	5987	2215	4487	1588	4187
43*	14762	6032	13285	5400	11808	4769	10332	4102	8855	3507	7383	2875	5902	2244	4420	1608	4128
44*	14551	6109	13095	5469	11633	4830	10184	4146	8728	3552	7278	2912	5817	2273	4353	1628	4069
45*	14340	6186	12905	5538	11458	4891	10036	4190	8603	3597	7173	2949	5732	2302	4286	1648	4010
46*	14129	6263	12715	5607	11283	4952	9888	4234	8478	3642	7068	2986	5647	2331	4219	1668	3951

Heating		Parts Load (%)																		
Outdoor Temperature DB (°C)	100		90		80		70		60		50		40		30		20		10	
	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P
-27	4565	1556	4109	1406	3652	1256	3196	1106	2739	957	2283	807	1826	657	1370	507	1250	468	1250	468
-26	4891	1650	4402	1491	3913	1332	3424	1173	2935	1015	2446	856	1957	697	1467	538	1339	496	1339	496
-25	5217	1744	4696	1576	4174	1408	3652	1240	3130	1072	2609	905	2087	737	1565	569	1429	525	1429	525
-24	5543	1838	4989	1661	4435	1484	3880	1307	3326	1130	2772	953	2217	776	1663	599	1518	553	1518	553
-23	5870	1933	5283	1746	4696	1560	4109	1374	3522	1188	2935	1002	2348	816	1761	630	1607	581	1607	581
-22	6196	2027	5576	1832	4957	1637	4337	1441	3717	1246	3098	1051	2478	856	1859	661	1696	610	1696	610
-21	6522	2121	5870	1917	5217	1713	4565	1508	3913	1304	3261	1100	2609	896	1957	692	1786	638	1786	638
-20	6848	2215	6163	2002	5478	1789	4793	1575	4109	1362	3424	1149	2739	936	2054	722	1875	667	1875	667
-19	7076	2277	6368	2058	5661	1839	4953	1620	4246	1400	3538	1181	2830	962	2123	743	1938	685	1938	685
-18	7304	2340	6574	2114	5843	1889	5113	1664	4383	1439	3652	1213	2922	988	2191	763	2000	704	2000	704
-17	7533	2402	6779	2171	6026	1939	5273	1708	4520	1477	3766	1246	3013	1014	2260	783	2063	723	2063	723
-16	7761	2464	6985	2227	6209	1990	5433	1752	4657	1515	3880	1278	3104	1041	2328	804	2125	741	2125	741
-15	7989	2526	7190	2283	6391	2040	5592	1797	4793	1553	3995	1310	3196	1067	2397	824	2188	760	2188	760
-14	8227	2603	7404	2353	6582	2102	5759	1851	4936	1601	4113	1350	3291	1100	2468	849	2253	783	2253	783
-13	8465	2680	7618	2422	6772	2164	5925	1906	5079	1648	4232	1390	3386	1132	2539	874	2318	806	2318	806
-12	8702	2757	7832	2492	6962	2226	6092	1961	5221	1696	4351	1430	3481	1165	2611	899	2383	830	2383	830
-11	8940	2834	8046	2561	7152	2289	6258	2016	5364	1743	4470	1470	3576	1197	2682	924	2448	853	2448	853
-10	9178	2911	8260	2631	7342	2351	6425	2071	5507	1790	4589	1510	3671	1230	2753	949	2513	876	2513	876
-9	9416	2988	8474	2701	7533	2413	6591	2125	5649	1838	4708	1550	3766	1262	2825	975	2578	899	2578	899
-8	9654	3065	8688	2770	7723	2475	6757	2180	5792	1885	4827	1590	3861	1295	2896	1000	2643	922	2643	922
-7	9891	3142	8902	2840	7913	2537	6924	2235	5935	1932	4946	1630	3957	1327	2967	1025	2708	946	2708	946
-6	10145	3211	9130	2902	8116	2593	7101	2284	6087	1975	5072	1666	4058	1356	3043	1047	2778	966	2778	966
-5	10399	3281	9359	2965	8319	2649	7279	2333	6239	2017	5199	1701	4159	1386	3120	1070	2847	987	2847	987
-4	10652	3350	9587	3027	8522	2705	7457	2382	6391	2060	5326	1737	4261	1415	3196	1092	2917	1008	2917	1008
-3	10906	3419	9815	3090	8725	2761	7634	2431	6543	2102	5453	1773	4362	1444	3272	1115	2986	1029	2986	1029
-2	11159	3488	10043	3152	8928	2816	7812	2481	6696	2145	5580	1809	4464	1473	3348	1137	3056	1050	3056	1050
-1	11413	3557	10272	3215	9130	2872	7989	2530	6848	2187	5707	1845	4565	1502	3424	1160	3125	1070	3125	1070
0	11667	3626	10500	3277	9333	2928	8167	2579	7000	2230	5833	1881	4667	1532	3500	1183	3194	1091	3194	1091
1	11920	3695	10728	3340	9536	2984	8344	2628	7152	2272	5960	1917	4768	1561	3576	1205	3264	1112	3264	1112
2	12174	3765	10957	3402	9739	3040	8522	2677	7304	2315	6087	1953	4870	1590	3652	1228	3333	1133	3333	1133
3	12373	3815	11136	3448	9899	3081	8661	2713	7424	2346	6187	1979	4949	1611	3712	1244	3388	1148	3388	1148
4	12573	3866	11315	3494	10058	3122	8801	2749	7544	2377	6286	2005	5029	1633	3772	1261	3443	1163	3443	1163
5	12772	3916	11495	3539	10218	3162	8941	2785	7663	2408	6386	2031	5109	1654	3832	1277	3497	1178	3497	1178
6	16366	4188	14730	3785	13093	3382	11457	2979	9820	2575	8183	2172	6547	1769	4910	1366	4481	1260	4481	1260
7	16800	4254	15120	3844	13440	3435	11760	3025	10080	2616	8400	2206	6720	1797	5040	1387	4600	1280	4600	1280
8	17234	4320	15510	3904	13787	3488	12063	3072	10340	2656	8617	2240	6893	1825	5170	1409	4719	1300	4719	1300
9	17667	4386	15900	3964	14134	3541	12367	3119	10600	2697	8834	2275	7067	1852	5300	1430	4837	1320	4837	1320
10	18101	4452	16291	4023	14481	3594	12670	3166	10860	2737	9050	2309	7240	1880	5430	1452	4956	1339	4956	1339
11	18534	4517	16681	4083	14827	3648	12974	3213	11121	2718	9267	2343	7414	1908	5560	1473	5075	1359	5075	1359
12	18968	4583	17071	4142	15174	3701	13277	3260	11381	2818	9484	2377	7587	1936	5690	1495	5194	1379	5194	1379
13	19401	4649	17461	4202	15521	3754	13581	3306	11641	2859	9701	2411	7761	1964	5820	1516	5312	1399	5312	1399
14	19835	4715	17851	4261	15868	3807	13884	3353	11901	2899	9917	2445	7934	1992	5950	1538	5431	1419	5431	1419
15	20268	4781	18242	4321	16215	3860	14188	3400	12161	2940	10134	2480	8107	2019	6081	1559	5550	1439	5550	1439
16	20702	4847	18632	4380	16562	3914	14491	3447	12421	2980	10351	2514	8281	2047	6211	1581	5668	1458	5668	1458
17	17197	3044	15477	2751	13757	2458	12038	2165	10318	1872	8598	1579	6879	1286	5159	993	4709	916	4709	916
18	17492	3044	15742	2751	13993	2458	12244	2165	10495	1872	8746	1579	6997	1286	5247	993	4789	916	4789	916
19	17786	3044	16008	2751	14229	2458	12450	2165	10672	1872	8893	1579	7115	1286	5336	993	4870	916	4870	916
20	18081	3044	16273	2751	14465	2458	12657	2165	10849	1872	9041	1579	7232	1286	5424	993	4951	916	4951	916
21	18376	3044	16538	2751	14701	2458	12863	2165	11025	1872	9188	1579	7350	1286	5513	993	5031	916	5031	916
22	18671	3044	16803	2751	14936	2458	13069	2165	11202	1872	9335	1579	7468	1286	5601	993	5112	916	5112	916
23	18965	3044	17069	2751	15172	2458	13276	2165	11379	1872	9483	1579	7586	1286	5690	993	5193	916	5193	916
24	19260	3044	17334	2751	15408	2458	13482	2165	11556	1872	9630	1579	7704	1286	5778	993	5274	916	5274	916

Combination <Rated condition>

Indoor: RAV-HM801KRT-P-E×3, RAV-HM801KRT-P-E×4

Outdoor: RAV-GM2803AT8(J)-P-E

Operation range	Cooling		Heating	
	Q	P	Q	P
MINIMUM	W 4600	1330	4600	1280
Night operation 3	W 21150	9001	21600	6155

* When outside air temperature is 40°C or more, the night operation does not operate.

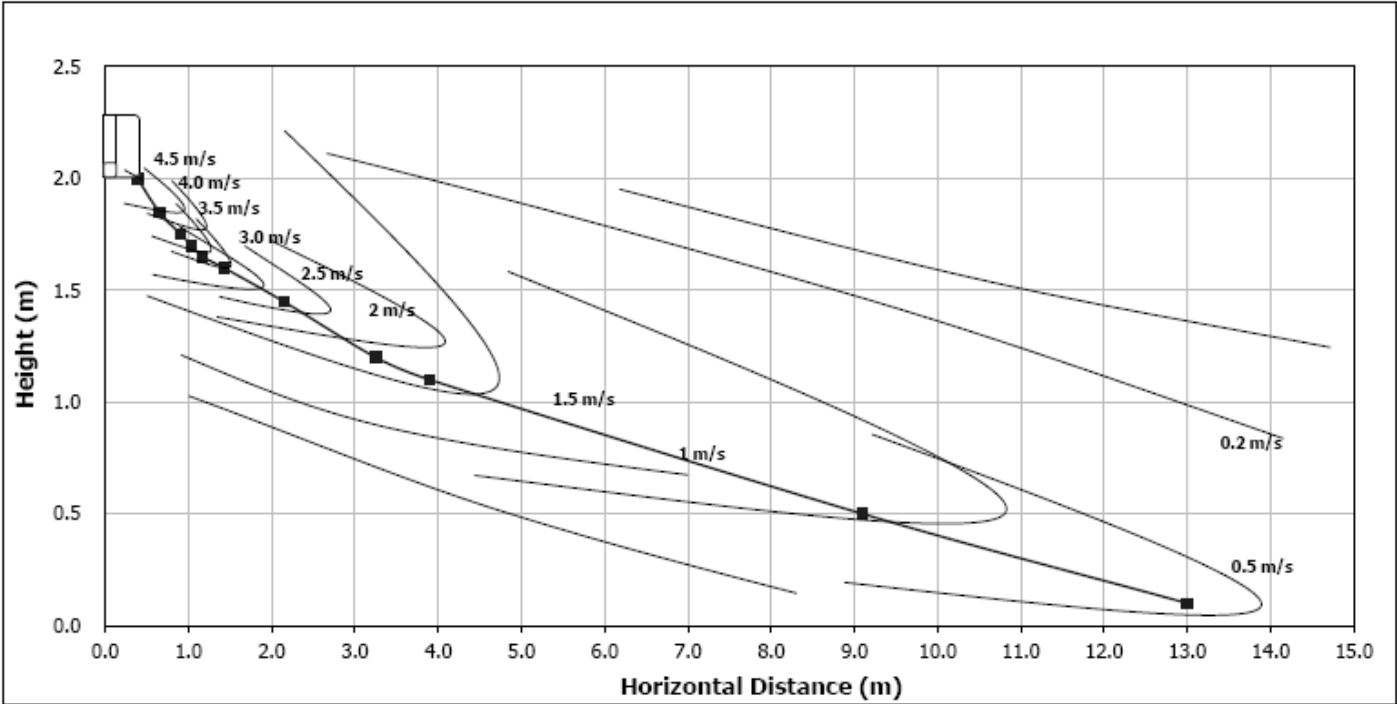
Outdoor Temperature DB (°C)	Parts Load (%)															
	100		90		80		70		60		50		40		30	
	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P
20	25221	7066	22699	6296	20177	5527	17655	4757	15133	3988	12611	3218	10089	2449	7566	1679
21	24950	7195	22455	6411	19960	5628	17465	4844	14970	4060	12475	3277	9980	2493	7485	1710
22	24679	7324	22211	6526	19743	5729	17275	4931	14807	4133	12339	3336	9871	2538	7404	1740
23	24407	7453	21966	6641	19526	5829	17085	5018	14644	4206	12204	3394	9763	2583	7322	1771
24	24136	7582	21722	6756	19309	5930	16895	5105	14481	4279	12068	3453	9654	2627	7241	1802
25	23864	7711	21478	6871	19091	6031	16705	5191	14319	4352	11932	3512	9546	2672	7159	1832
26	23593	7840	21234	6986	18874	6132	16515	5278	14156	4424	11796	3571	9437	2717	7078	1863
27	23321	7969	20989	7101	18657	6233	16325	5365	13993	4497	11661	3629	9329	2761	6996	1894
28	23050	8098	20745	7216	18440	6334	16135	5452	13830	4570	11525	3688	9220	2806	6915	1924
29	22779	8227	20501	7331	18223	6435	15945	5539	13667	4643	11389	3747	9111	2851	6834	1955
30	22507	8356	20256	7446	18006	6536	15755	5626	13504	4716	11254	3806	9003	2896	6752	1986
31	22236	8485	20012	7561	17789	6637	15565	5713	13341	4789	11118	3864	8894	2940	6671	2016
32	21964	8614	19768	7676	17571	6738	15375	5799	13179	4861	10982	3923	8786	2985	6589	2047
33	21693	8743	19524	7791	17354	6839	15185	5886	13016	4934	10846	3982	8677	3030	6508	2078
34	21421	8872	19279	7906	17137	6939	14995	5973	12853	5007	10711	4041	8569	3074	6426	2108
35	21150	9001	19035	8021	16920	7040	14805	6060	12690	5080	10575	4099	8460	3119	6345	2139
36	20879	9130	18791	8136	16703	7141	14615	6147	12527	5153	10439	4158	8351	3164	6264	2169
37	20607	9259	18546	8251	16486	7242	14425	6234	12364	5225	10304	4217	8243	3209	6182	2200
38	20336	9388	18302	8366	16269	7343	14235	6321	12201	5298	10168	4276	8134	3253	6101	2231
39	20064	9517	18057	8481	16052	7444	14045	6408	12038	5370	10032	4335	8025	3297	6020	2262
40*	19793	9646	17812	8596	15835	7545	13855	6495	11875	5442	9896	4394	7916	3341	5939	2293
41*	19521	9775	17567	8711	15618	7646	13665	6582	11712	5514	9760	4453	7807	3385	5858	2324
42*	19250	9904	17322	8826	15401	7747	13475	6669	11549	5586	9624	4512	7698	3429	5777	2355
43*	18979	10033	17077	8941	15184	7848	13285	6756	11386	5658	9488	4571	7589	3473	5696	2386
44*	18707	10162	16832	9056	14967	7949	13095	6843	11223	5730	9352	4630	7480	3517	5615	2417
45*	18436	10291	16587	9171	14750	8050	12905	6930	11060	5802	9216	4689	7371	3561	5534	2448
46*	18164	10420	16342	9286	14533	8151	12715	7017	10897	5874	9080	4748	7262	3605	5453	2479

Heating		Parts Load (%)																		
Outdoor Temperature DB (°C)	100		90		80		70		60		50		40		30		20		10	
	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P
-27	5870	2251	5283	2024	4696	1798	4109	1571	3522	1345	2935	1118	2348	892	1761	665	1250	468	1250	468
-26	6289	2387	5660	2147	5031	1907	4402	1666	3773	1426	3144	1186	2516	946	1887	706	1339	496	1339	496
-25	6708	2523	6037	2270	5366	2016	4696	1762	4025	1508	3354	1254	2683	1000	2012	746	1429	525	1429	525
-24	7127	2660	6415	2392	5702	2124	4989	1857	4276	1589	3564	1321	2851	1054	2138	786	1518	553	1518	553
-23	7547	2796	6792	2515	6037	2233	5283	1952	4528	1671	3773	1389	3019	1108	2264	826	1607	581	1607	581
-22	7966	2932	7169	2637	6373	2342	5576	2047	4780	1752	3983	1457	3186	1162	2390	867	1696	610	1696	610
-21	8385	3069	7547	2760	6708	2451	5870	2142	5031	1833	4193	1525	3354	1216	2516	907	1786	638	1786	638
-20	8804	3205	7924	2883	7043	2560	6163	2237	5283	1915	4402	1592	3522	1270	2641	947	1875	667	1875	667
-19	9098	3295	8188	2964	7278	2632	6368	2300	5459	1969	4549	1637	3639	1305	2729	974	1938	685	1938	685
-18	9391	3385	8452	3045	7513	2704	6574	2363	5635	2023	4696	1682	3757	1341	2817	1000	2000	704	2000	704
-17	9685	3475	8716	3125	7748	2776	6779	2426	5811	2076	4842	1727	3874	1377	2905	1027	2063	723	2063	723
-16	9978	3565	8980	3206	7983	2848	6985	2489	5987	2130	4989	1771	3991	1413	2993	1054	2125	741	2125	741
-15	10272	3655	9245	3287	8217	2920	7190	2552	6163	2184	5136	1816	4109	1448	3082	1080	2188	760	2188	760
-14	10577	3767	9520	3388	8462	3009	7404	2630	6346	2250	5289	1871	4231	1492	3173	1113	2253	783	2253	783
-13	10883	3878	9795	3488	8707	3098	7618	2707	6530	2317	5442	1927	4353	1536	3265	1146	2318	806	2318	806
-12	11189	3990	10070	3588	8951	3187	7832	2785	6713	2384	5594	1982	4476	1581	3357	1179	2383	830	2383	830
-11	11495	4101	10345	3688	9196	3276	8046	2863	6897	2450	5747	2037	4598	1625	3448	1212	2448	853	2448	853
-10	11800	4212	10620	3788	9440	3365	8260	2941	7080	2517	5900	2093	4720	1669	3540	1245	2513	876	2513	876
-9	12106	4324	10895	3889	9685	3454	8474	3018	7264	2583	6053	2148	4842	1713	3632	1278	2578	899	2578	899
-8	12412	4435	11171	3989	9929	3543	8688	3096	7447	2650	6206	2203	4965	1757	3724	1311	2643	922	2643	922
-7	12717	4547	11446	4089	10174	3631	8902	3174	7630	2716	6359	2259	5087	1801	3815	1344	2708	946	2708	946
-6	13043	4647	11739	4179	10435	3711	9130	3244	7826	2776	6522	2309	5217	1841	3913	1373	2778	966	2778	966
-5	13370	4747	12033	4269	10696	3791	9359	3314	8022	2836	6685	2358	5348	1881	4011	1403	2847	987	2847	987
-4	13696	4847	12326	4359	10957	3871	9587	3383	8217	2896	6848	2408	5478	1920	4109	1432	2917	1008	2917	1008
-3	14022	4947	12620	4449	11217	3951	9815	3453	8413	2955	7011	2458	5609	1960	4207	1462	2986	1029	2986	1029
-2	14348	5047	12913	4539	11478	4031	10043	3523	8609	3015	7174	2507	5739	1999	4304	1492	3056	1050	3056	1050
-1	14674	5147	13207	4629	11739	4111	10272	3593	8804	3075	7337	2557	5870	2039	4402	1521	3125	1070	3125	1070
0	15000	5247	13500	4719	12000	4191	10500	3663	9000	3135	7500	2607	6000	2079	4500	1551	3194	1091	3194	1091
1	15326	5347	13793	4809	12261	4271	10728	3733	9196	3195	7663	2656	6130	2118	4598	1580	3264	1112	3264	1112
2	15652	5447	14087	4899	12522	4351	10957	3802	9391	3254	7826	2706	6261	2158	4696	1610	3333	1133	3333	1133
3	15909	5520	14318	4965	12727	4409	11136	3854	9545	3298	7954	2743	6363	2187	4773	1631	3388	1148	3388	1148
4	16165	5593	14548	5031	12932	4468	11315	3905	9699	3342	8082	2779	6466	2216	4849	1653	3443	1163	3443	1163
5	16421	5667	14779	5096	13137	4526	11495	3956	9853	3386	8211	2815	6569	2245	4926	1675	3497	1178	3497	1178
6	21043	6060	18938	5450	16834	4840	14730	4230	12626	3620	10251	3011	8417	2401	6313	1791	4481	1260	4481	1260
7	21600	6155	19440	5536	17280	4916	15120	4297	12960	3677	10800	3058	8640	2439	6480	1819	4600	1280	4600	1280
8	22157	6250	19942	5621	17726	4992	15510	4363	13294	3734	11079	3105	8863	2476	6647	1847	4719	1300	4719	1300
9	22715	6346	20443	5707	18172	5068	15900	4430	13629	3791	11357	3153	9086	2514	6814	1875	4837	1320	4837	1320
10	23272	6441	20945	5793	18618	5145	16291	4496	13963	3848	11636	3200	9309	2552	6982	1904	4956	1339	4956	1339
11	23830	6536	21447	5878	19064	5221	16681	4563	14298	3905	11915	3247	9532	2590	7149	1932	5075	1359	5075	1359
12	24387	6632	21948	5964	19510	5297	17071	4629	14632	3962	12194	3295	9755	2627	7316	1960	5194	1379	5194	1379
13	24945	6727	22450	6050	19956	5373	17461	4696	14967	4019	12472	3342	9978	2665	7483	1988	5312	1399	5312	1399
14	25502	6822	22952	6136	20402	5449	17851	4762	15301	4076	12751	3389	10201	2703	7651	2016	5431	1419	5431	1419
15	26059	6917	23453	6221	20847	5525	18242	4829	15636	4133	13030	3437	10424	2741	7818	2044	5550	1439	5550	1439
16	26617	7013	23955	6307	21293	5601	18632	4896	15970	4190	13308	3484	10647	2778	7985	2073	5668	1458	5668	1458
17	22110	4404	19899	3961	17688	3517	15477	3074	13266	2631	11055	2188	8844	1745	6633	1302	4709	916	4709	916
18	22489	4404	20240	3961	17991	3517	15742	3074	13493	2631	11245	2188	8996	1745	6747	1302	4789	916	4789	916
19	22868	4404	20581	3961	18294	3517	16008	3074	13721	2631	11434	2188	9147	1745	6860	1302	4870	916	4870	916
20	23247	4404	20922	3961	18598	3517	16273	3074	13948	2631	11624	2188	9299	1745	6974	1302	4951	916	4951	916
21	23626	4404	21263	3961	18901	3517	16538	3074	14176	2631	11813	2188	9450	1745	7088	1302	5031	916	5031	916
22	24005	4404	21604	3961	19204	3517	16803	3074	14403	2631	12002	2188	9602	1745	7201	1302	5112	916	5112	916
23	24384	4404	21946	3961	19507	3517	17069	3074	14630	2631	12192	2188	9754	1745	7315	1302	5193	916	5193	916
24	24763	4404	22287	3961	19810	3517	17334	3074	14858	2631	12381	2188	9905	1745	7429	1302	5274	916	5274	916

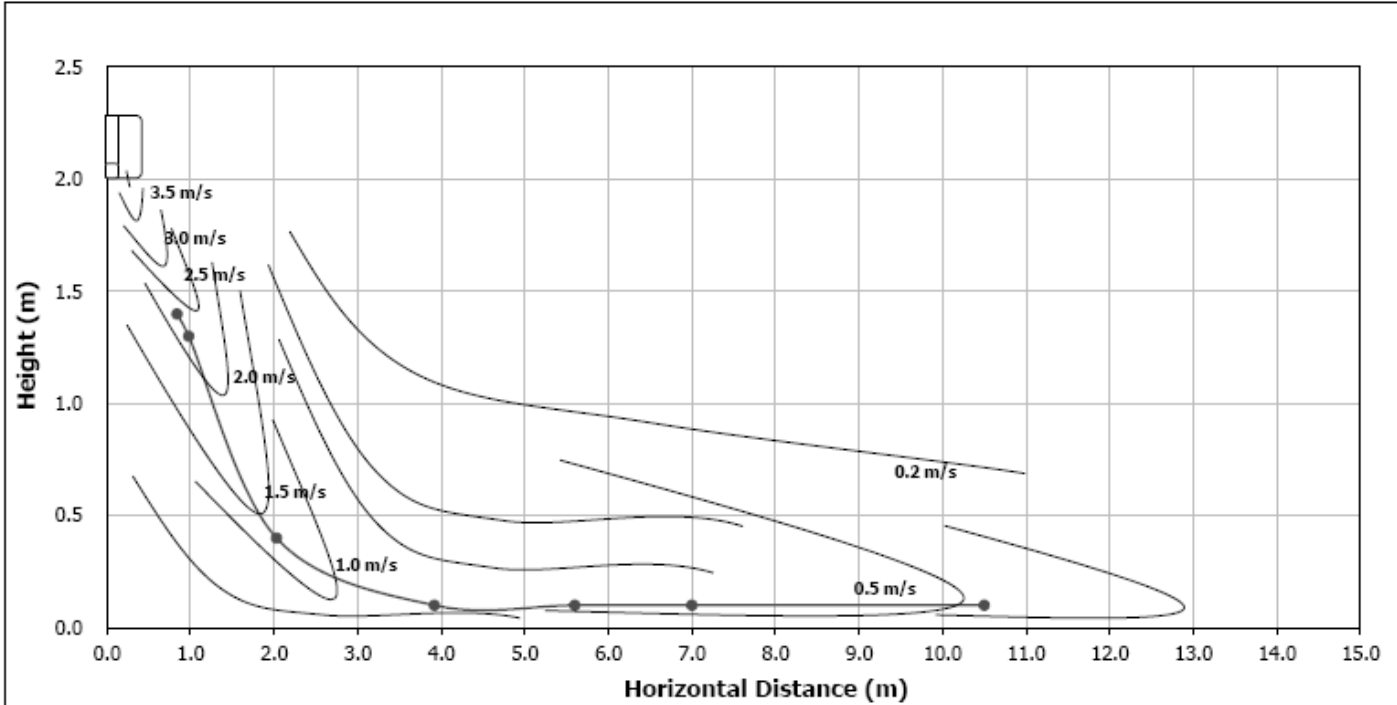
2-7-6. Air Throw Distance Chart

RAV-HM561KRTP-E/TR

Cooling

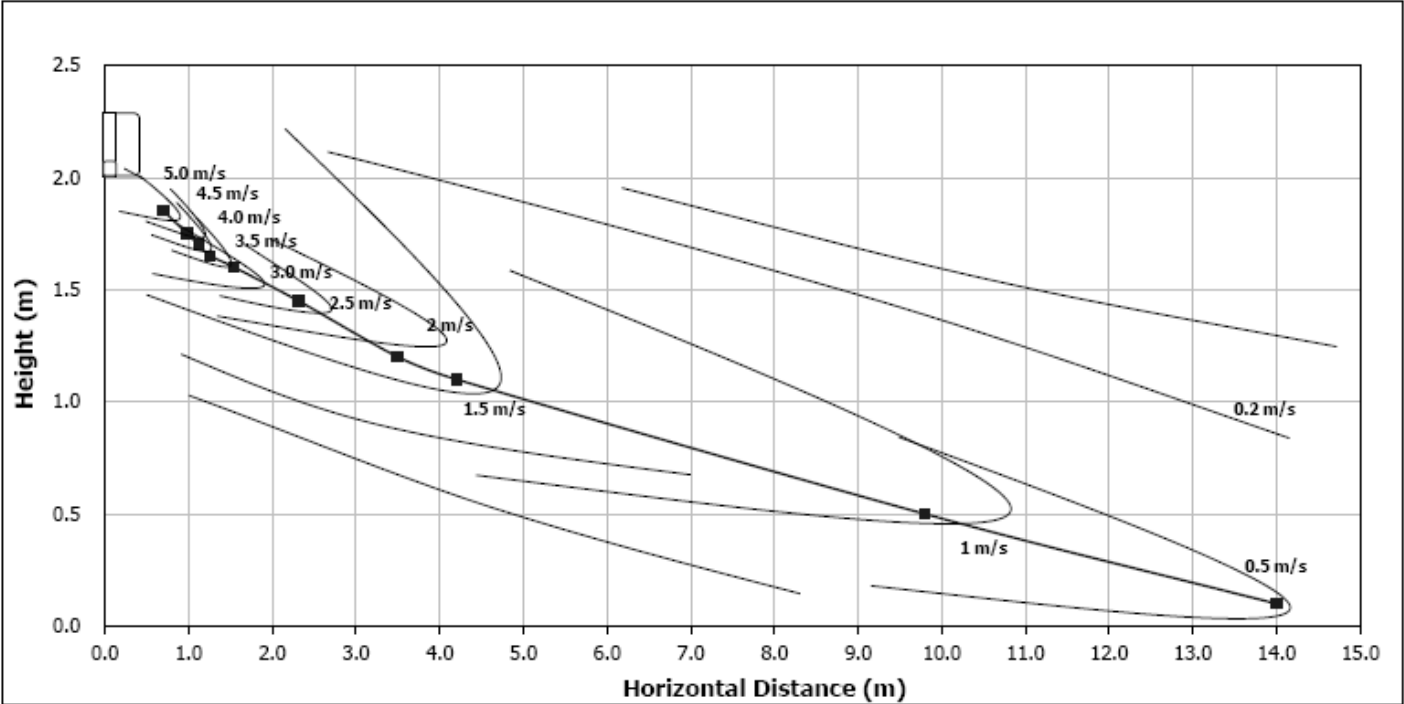


Heating

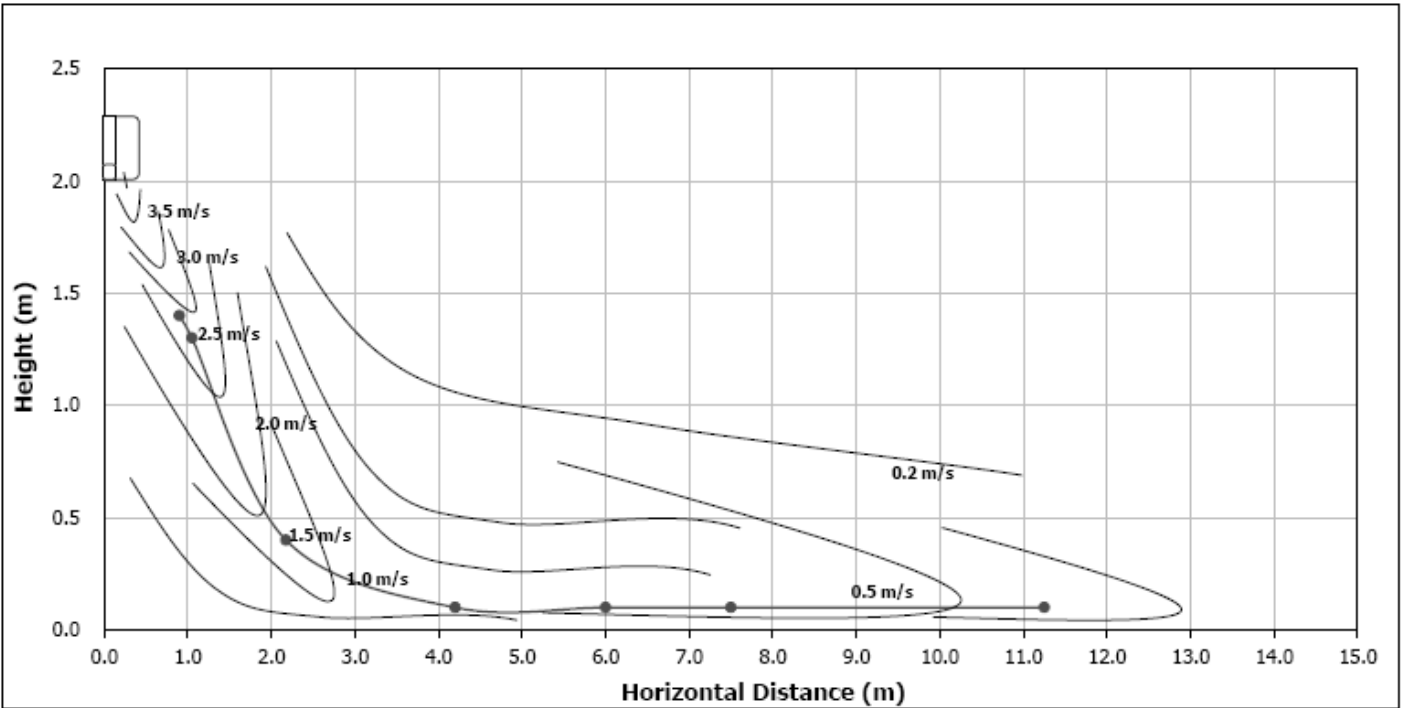


RAV-HM801KRTP-E/TR

Cooling

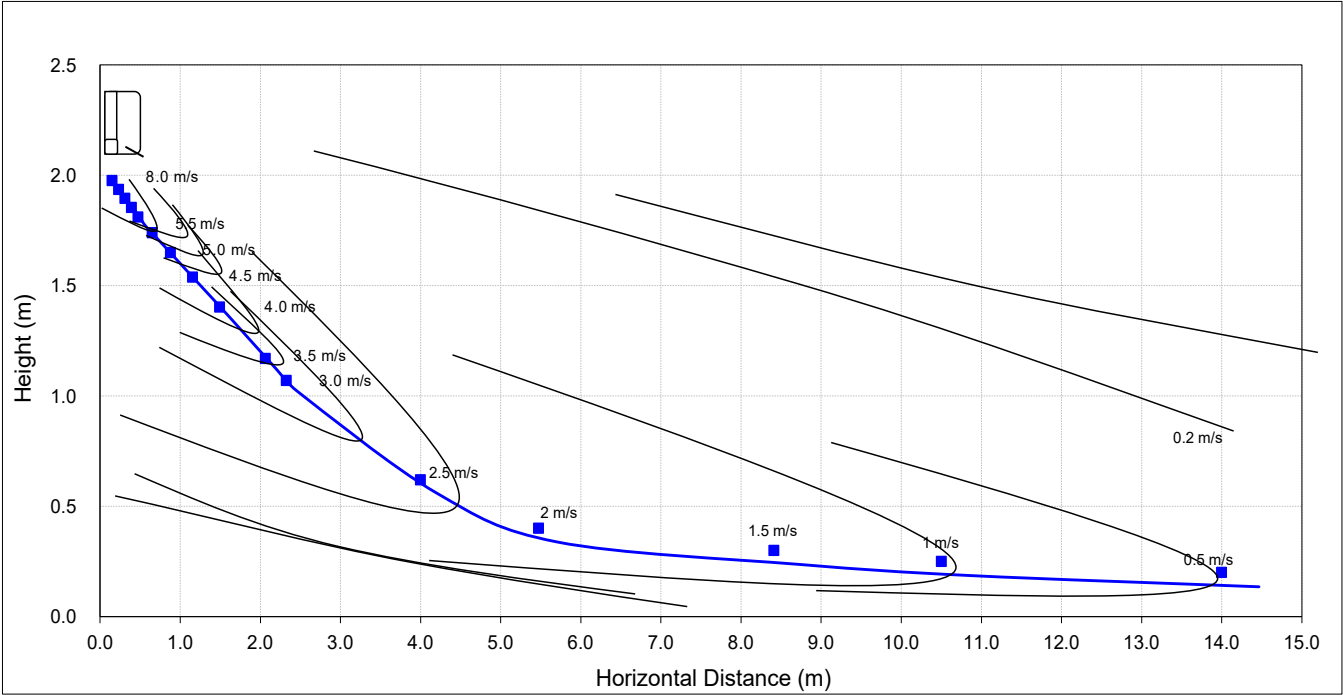


Heating

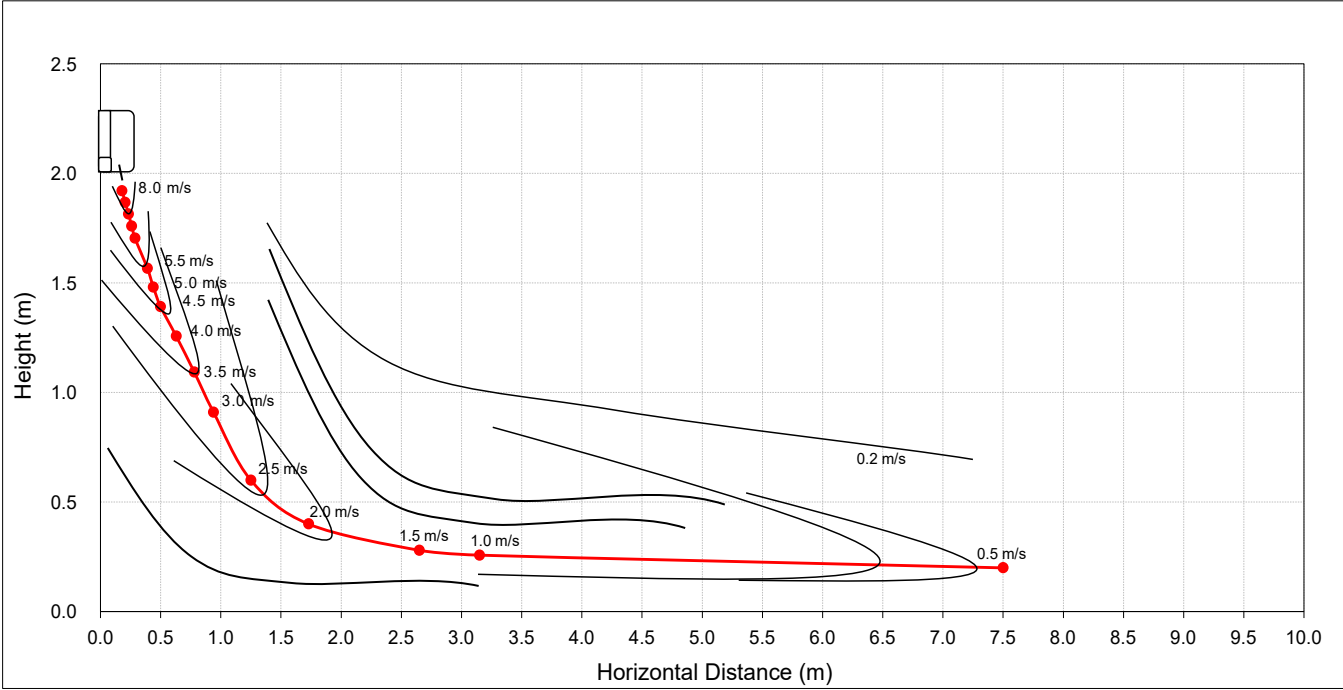


RAV-HM1101KRTP-E / TR

Cooling



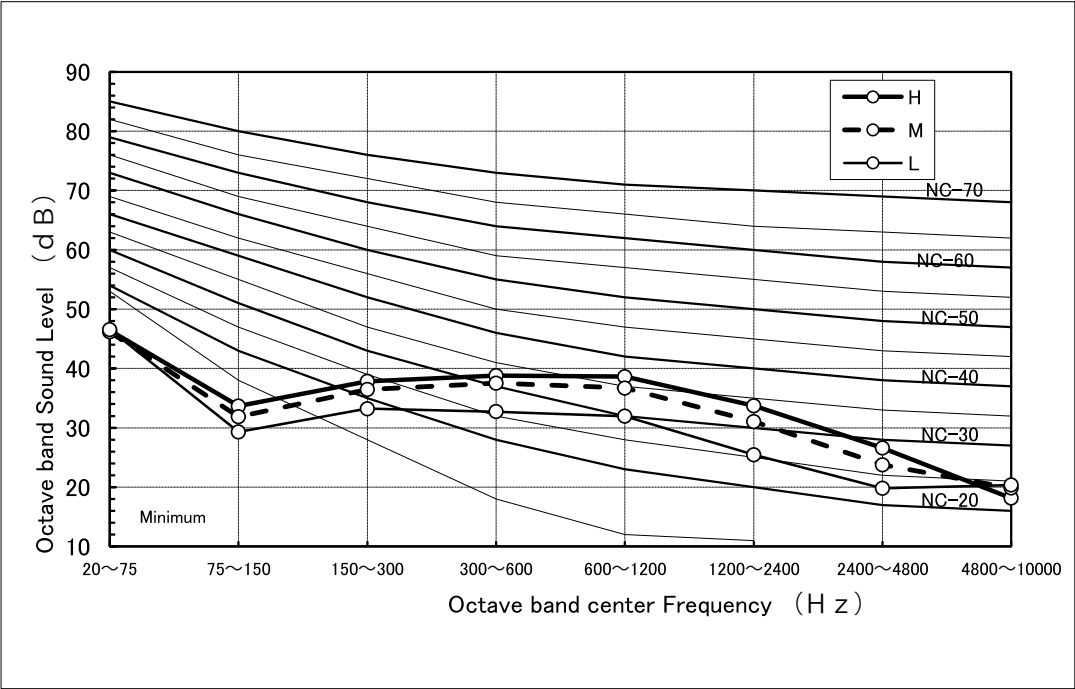
Heating



2-7-7. Sound Characteristics (NC curve)

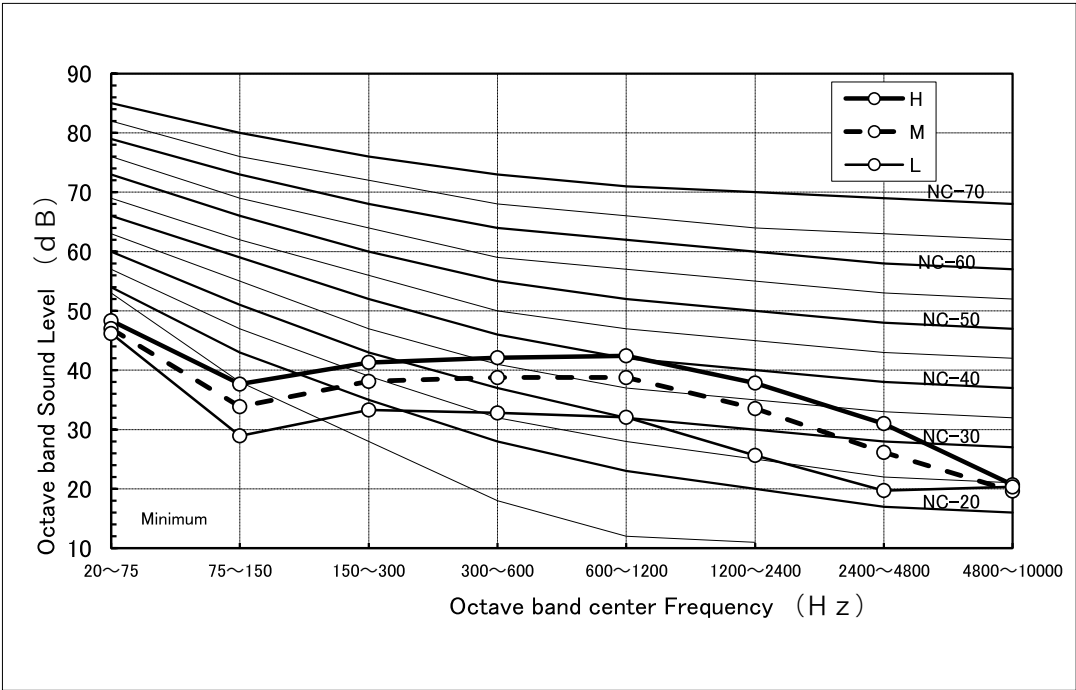
RAV-HM561KRTP-E/TR

Specification (d B)			
Fan tap	H	M	L
Sound pressure level (dB(A))	42	39	35



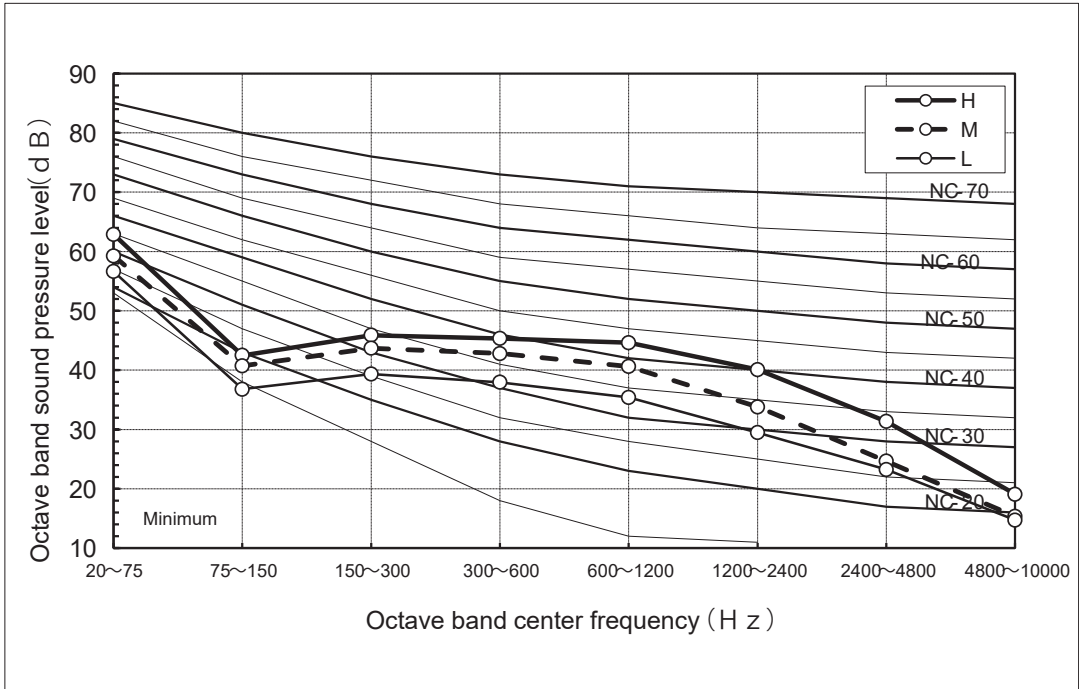
RAV-HM801KRTP-E/TR

Specification (d B)			
Fan tap	H	M	L
Sound pressure level (dB(A))	45	41	35



RAV-HM1101KRTP-E/TR

Specification (d B)			
Fan tap	H	M	L
Sound pressure level (dB(A))	49	45	41



2-8. Floor Standing Type

2-8-1. Specifications

2-8-2. Dimension

2-8-3. Wiring Diagrams

2-8-4. Sensible Capacity Table

2-8-5. Part Load Performance

2-8-6. Air Throw Distance Chart

2-8-7. Sound Characteristics (NC Curve)

2-8-1. Specification

Floor Standing Type

Twin combination

Model	Indoor unit		RAV	HM1101FT-E/TR x2
	Outdoor unit		RAV	GM2243AT8P-E/TR
Cooling capacity			(kW)	20.00
Heating capacity			(kW)	22.40
Power supply			1Ph., 220V, 60Hz. 1Ph., 220V - 240V, 50Hz.	
Electrical characteristic	Cooling	Running current	(A)	10.55
		Power consumption	(W)	0.69
		Power factor	(-)	0.94
	Heating	Running current	(A)	12.70
		Power consumption	(W)	0.83
		Power factor	(-)	0.94
Outer dimension	Main unit	Height	(mm)	1750
		Width	(mm)	600
		Depth	(mm)	390
Total weight		(kg)	59	
Air flow volume		H/M/L	(m ³ / h)	17/16/14
Sound pressure level		H/M+/M/L+/L	(dB·A)	51/49/46/44/41
Sound power level		H	(dB·A)	65
Connecting pipe		Gas side	(mm)	Ø 28.6
		Liquid side	(mm)	Ø 12.7
Fan motor			(W)	109
Air filter			Standard filter (Long life filter)	
Controller			Optional (Sold separately)	

Note : Rated conditions Cooling : Indoor air temperature 27 °C DB/ 19°C WB, Outdoor 35 °C DB
 Heating : Indoor air temperature 20 °C DB, Outdoor 7°C DB / 6°C WB

Floor Standing Type

Twin combination

Model	Indoor unit		RAV	HM1401FT-E/TR x2
	Outdoor unit		RAV	GM2803AT8P-E/TR
Cooling capacity			(kW)	23.50
Heating capacity			(kW)	24.00
Power supply			1Ph., 220V, 60Hz. 1Ph., 220V - 240V, 50Hz.	
Electrical characteristic	Cooling	Running current	(A)	16.30
		Power consumption	(W)	1.06
		Power factor	(-)	0.93
	Heating	Running current	(A)	15.00
		Power consumption	(W)	0.97
		Power factor	(-)	0.93
Outer dimension	Main unit	Height	(mm)	1750
		Width	(mm)	600
		Depth	(mm)	390
Total weight		(kg)	59	
Air flow volume		H/M/L	(m ³ / h)	18/15/14
Sound pressure level		H/M+/M/L+/L	(dB·A)	53/51/48/46/45
Sound power level		H	(dB·A)	67
Connecting pipe		Gas side	(mm)	Ø 28.6
		Liquid side	(mm)	Ø 12.7
Fan motor			(W)	109
Air filter			Standard filter (Long life filter)	
Controller			Optional (Sold separately)	

Note : Rated conditions Cooling : Indoor air temperature 27 °C DB/ 19°C WB, Outdoor 35 °C DB
Heating : Indoor air temperature 20 °C DB, Outdoor 7°C DB / 6°C WB

Floor Standing Type

Triple combination

Model	Indoor unit		RAV	HM801FT-E/TR x3
	Outdoor unit		RAV	GM2243AT8P-E/TR
Cooling capacity			(kW)	20.00
Heating capacity			(kW)	22.40
Power supply			1Ph., 220V, 60Hz. 1Ph., 220V - 240V, 50Hz.	
Electrical characteristic	Cooling	Running current	(A)	10.55
		Power consumption	(W)	0.69
		Power factor	(-)	0.94
	Heating	Running current	(A)	10.45
		Power consumption	(W)	0.68
		Power factor	(-)	0.94
Outer dimension	Main unit	Height	(mm)	1750
		Width	(mm)	600
		Depth	(mm)	210
Total weight		(kg)	45	
Air flow volume		H/M/L	(m ³ / h)	93/77/64
Sound pressure level		H/M+/M/L+/L	(dB·A)	50/47/42/40/38
Sound power level		H	(dB·A)	64
Connecting pipe	Gas side	(mm)	Ø 28.6	
	Liquid side	(mm)	Ø 12.7	
Fan motor			(W)	62
Air filter			Standard filter (Long life filter)	
Controller			Optional (Sold separately)	

Note : Rated conditions

Cooling : Indoor air temperature 27 °C DB/ 19°C WB, Outdoor 35 °C DB
 Heating : Indoor air temperature 20 °C DB, Outdoor 7°C DB / 6°C WB

Floor Standing Type

Triple combination

Model	Indoor unit		RAV	HM801FT-E/TR x3
	Outdoor unit		RAV	GM2803AT8P-E/TR
Cooling capacity			(kW)	23.50
Heating capacity			(kW)	24.00
Power supply			1Ph., 220V, 60Hz. 1Ph., 220V - 240V, 50Hz.	
Electrical characteristic	Cooling	Running current	(A)	16.30
		Power consumption	(W)	1.06
		Power factor	(-)	0.93
	Heating	Running current	(A)	12.90
		Power consumption	(W)	0.83
		Power factor	(-)	0.93
Outer dimension	Main unit	Height	(mm)	1750
		Width	(mm)	600
		Depth	(mm)	210
Total weight		(kg)	45	
Air flow volume		H/M/L	(m ³ / h)	93/77/64
Sound pressure level		H/M+/M/L +/L	(dB·A)	50/47/42/40/38
Sound power level		H	(dB·A)	64
Connecting pipe		Gas side	(mm)	Ø 28.6
		Liquid side	(mm)	Ø 12.7
Fan motor			(W)	62
Air filter			Standard filter (Long life filter)	
Controller			Optional (Sold separately)	

Note : Rated conditions Cooling : Indoor air tempreature 27 °C DB/ 19°C WB, Outdoor 35 °C DB
 Heating : Indoor air tempreature 20 °C DB, Outdoor 7°C DB / 6°C WB

Floor Standing Type

Double Twin combination

Model	Indoor unit		RAV	HM561FT-E/TR x4
	Outdoor unit		RAV	GM2243AT8P-E/TR
Cooling capacity			(kW)	20.00
Heating capacity			(kW)	22.40
Power supply				1Ph., 220V, 60Hz. 1Ph., 220V - 240V, 50Hz
Electrical characteristic	Cooling	Running current	(A)	10.55
		Power consumption	(W)	0.69
		Power factor	(-)	0.94
	Heating	Running current	(A)	10.45
		Power consumption	(W)	0.68
		Power factor	(-)	0.94
Outer dimension	Main unit	Height	(mm)	1750
		Width	(mm)	600
		Depth	(mm)	210
Total weight		(kg)	45	
Air flow volume		H/M/L (m ³ / h)	82/70/60	
Sound pressure level		H/M+/M/L +/L (dB·A)	46/44/42/39/38	
Sound power level		H (dB·A)	60	
Connecting pipe		Gas side (mm)	Ø 28.6	
		Liquid side (mm)	Ø 12.7	
Fan motor			(W)	62
Air filter				Standard filter (Long life filter)
Controller				Optional (Sold separately)

Note : Rated conditions Cooling : Indoor air temperature 27 °C DB/ 19°C WB, Outdoor 35 °C DB
 Heating : Indoor air temperature 20 °C DB, Outdoor 7°C DB / 6°C WB

Floor Standing Type

Double Twin combination

Model	Indoor unit		RAV	HM801FT-E/TR x4
	Outdoor unit		RAV	GM2803AT8P-E/TR
Cooling capacity			(kW)	23.50
Heating capacity			(kW)	24.00
Power supply			1Ph., 220V, 60Hz. 1Ph., 220V - 240V, 50Hz.	
Electrical characteristic	Cooling	Running current	(A)	16.30
		Power consumption	(W)	1.06
		Power factor	(-)	0.93
	Heating	Running current	(A)	12.90
		Power consumption	(W)	0.83
		Power factor	(-)	0.93
Outer dimension	Main unit	Height	(mm)	1750
		Width	(mm)	600
		Depth	(mm)	210
Total weight		(kg)	45	
Air flow volume		H/M/L	(m ³ / h)	93/77/64
Sound pressure level		H/M+/M/L+/L	(dB·A)	50/47/42/40/38
Sound power level		H	(dB·A)	64
Connecting pipe		Gas side	(mm)	Ø 28.6
		Liquid side	(mm)	Ø 12.7
Fan motor			(W)	62
Air filter			Standard filter (Long life filter)	
Controller			Optional (Sold separately)	

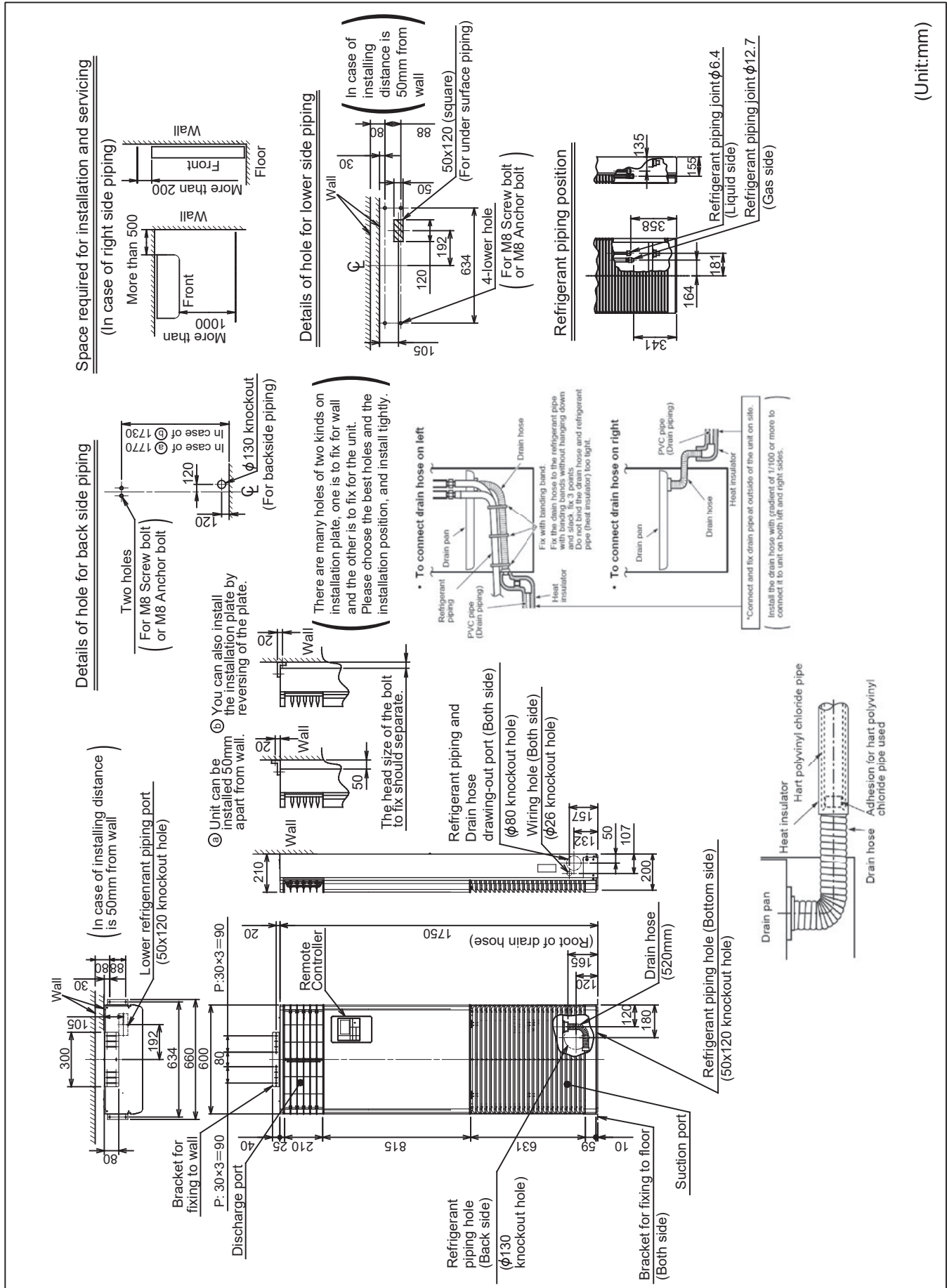
Note : Rated conditions

Cooling : Indoor air tempreature 27 °C DB/ 19°C WB, Outdoor 35 °C DB

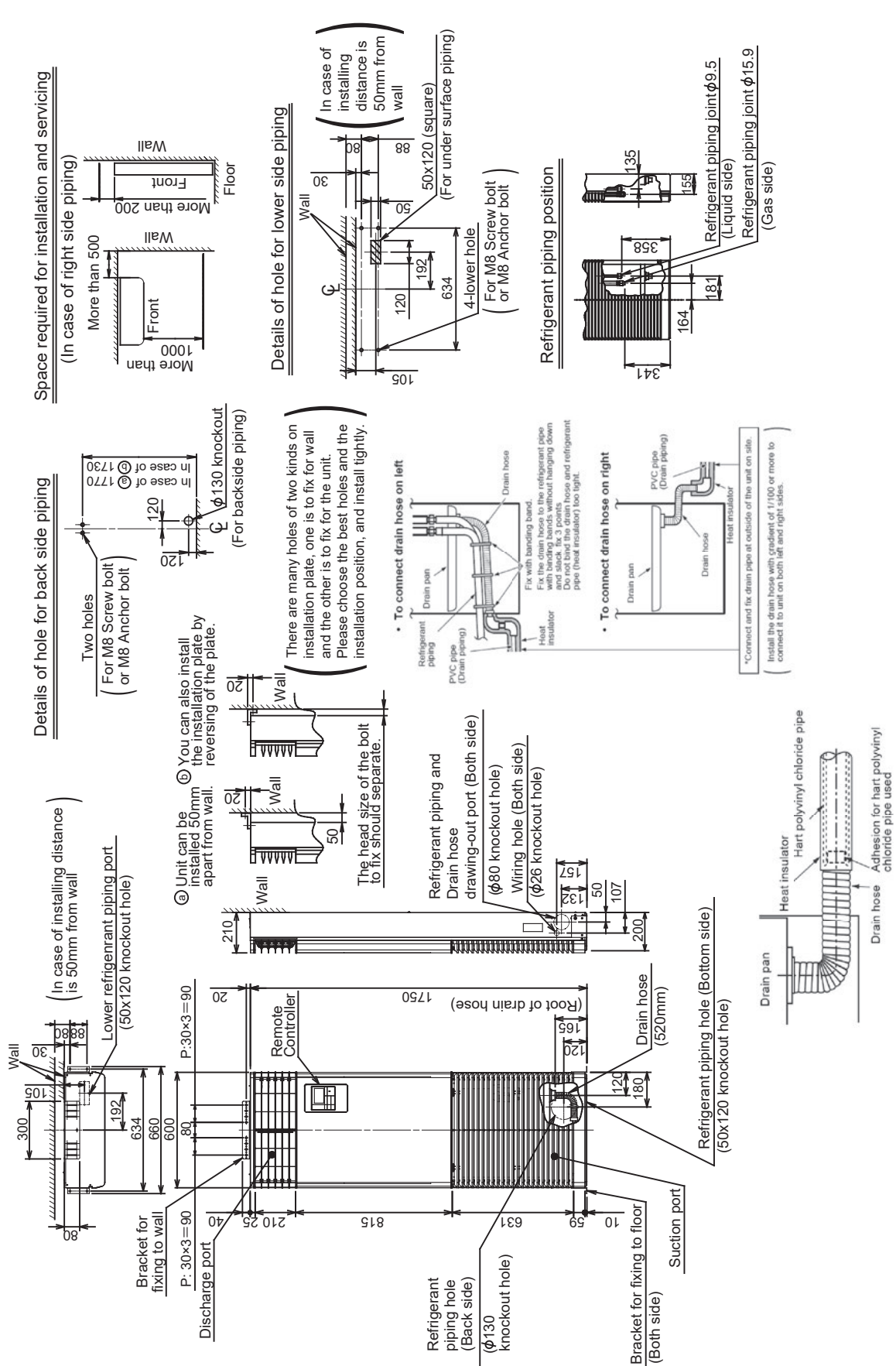
Heating : Indoor air tempreature 20 °C DB, Outdoor 7°C DB / 6°C WB

2-8-2. Dimension

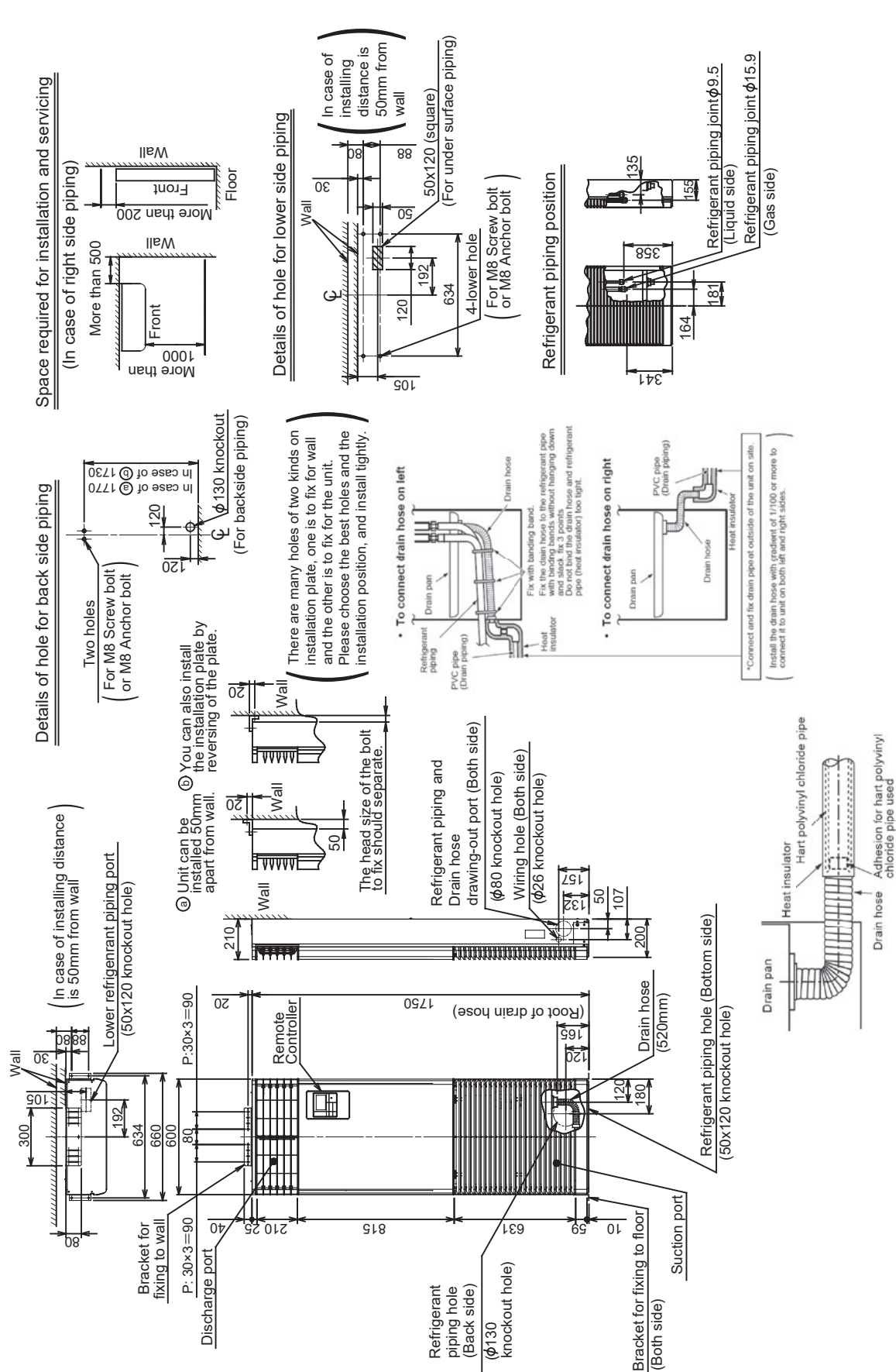
RAV-HM561FT-E / TR



RAV-HM801FT-E / TR



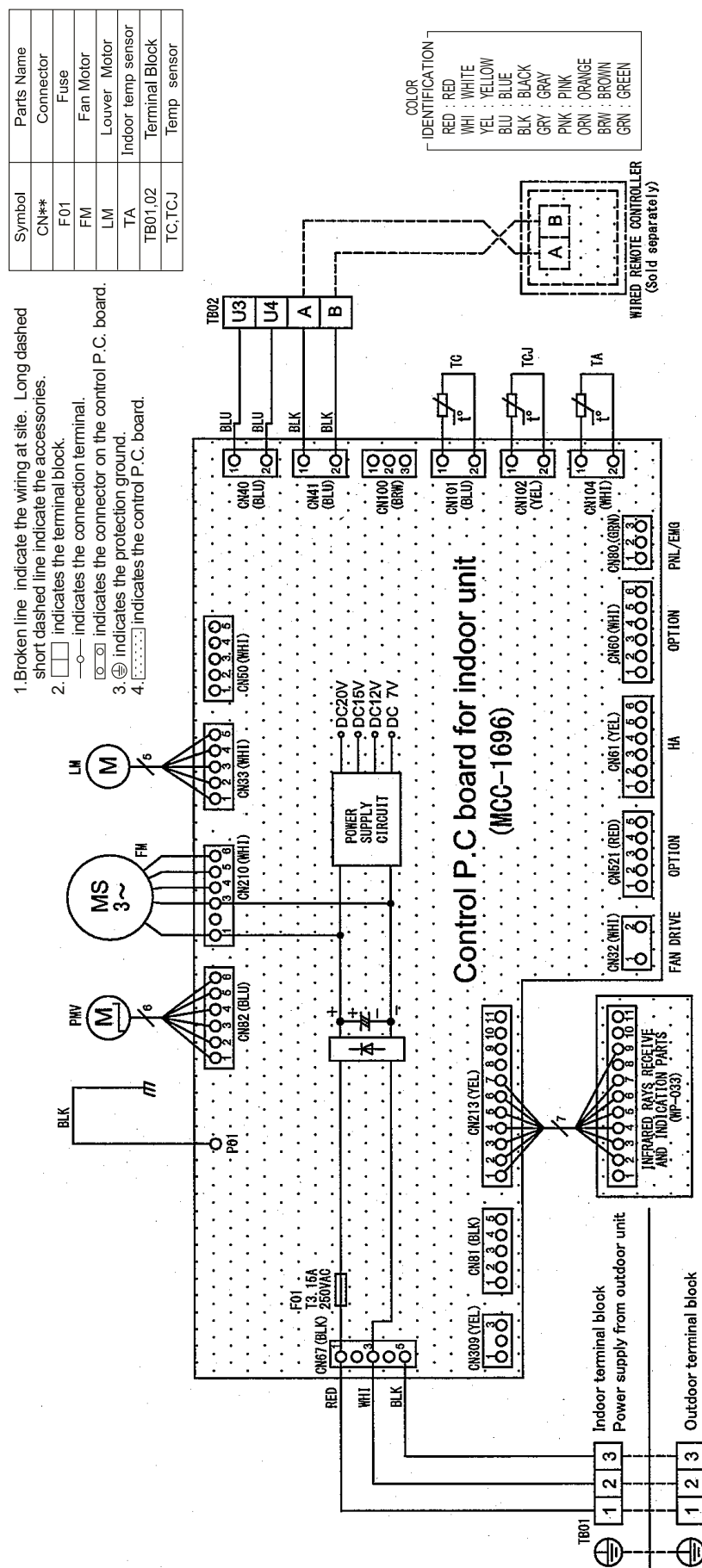
RAV-HM1101FT-E / TR , RAV-HM1401FT-E / TR



(Unit:mm)

2-8-3. Wiring diagram

RAV-HM561FT-E / TR , RAV-HM801FT-E / TR, RAV-HM1101FT-E / TR , RAV-HM1401FT-E / TR



2-8-4. Sensible Capacity Table

Product models : RAV-GM2243AT8P-E / RAV-HM1101FT-E (Twin)

Standard Condition

Indoor	27.0 °C DB / 19.0 °C WB
Outdoor	35.0 °C DB / 24.0 °C WB

Specification of product at standard condition.

Total Cooling Capacity (TC)	10.00 kW
Sensible Heat Capacity (SHC)	7.50 kW

Outdoor air temp.	Indoor Air temperature																	
	14.0 °C WB		15.0 °C WB		16.0 °C WB		17.0 °C WB		18.0 °C WB		19.0 °C WB		20.0 °C WB		22.0 °C WB		24.0 °C WB	
	20.0 °C DB		21.0 °C DB		23.0 °C DB		24.0 °C DB		26.0 °C DB		27.0 °C DB		28.0 °C DB		30.0 °C DB		32.0 °C DB	
°C DB	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
10.0	10.85	8.80	11.23	8.99	11.98	9.36	12.27	9.55	12.83	9.94	13.21	9.91	13.59	9.88	14.39	9.74	15.05	9.51
12.0	10.64	8.63	11.01	8.82	11.75	9.18	12.03	9.37	12.58	9.75	12.95	9.71	13.32	9.69	14.11	9.55	14.76	9.32
14.0	10.43	8.45	10.79	8.64	11.52	8.99	11.79	9.18	12.33	9.56	12.70	9.52	13.06	9.50	13.83	9.36	14.46	9.14
16.0	10.22	8.28	10.57	8.47	11.28	8.81	11.55	9.00	12.08	9.36	12.44	9.33	12.79	9.31	13.55	9.18	14.17	8.95
18.0	10.01	8.11	10.35	8.29	11.05	8.63	11.31	8.81	11.83	9.17	12.18	9.14	12.53	9.11	13.27	8.99	13.88	8.77
20.0	9.80	7.94	10.14	8.12	10.82	8.45	11.07	8.63	11.58	8.98	11.93	8.94	12.27	8.92	12.99	8.80	13.59	8.59
21.0	9.69	7.86	10.03	8.03	10.70	8.36	10.95	8.53	11.46	8.88	11.80	8.85	12.13	8.83	12.85	8.70	13.44	8.49
23.0	9.48	7.69	9.81	7.86	10.47	8.18	10.72	8.35	11.21	8.69	11.54	8.66	11.87	8.63	12.57	8.51	13.15	8.31
25.0	9.27	7.51	9.59	7.68	10.24	7.99	10.48	8.16	10.96	8.49	11.28	8.46	11.61	8.44	12.29	8.32	12.86	8.12
27.0	9.06	7.34	9.37	7.51	10.00	7.81	10.24	7.98	10.71	8.30	11.03	8.27	11.34	8.25	12.01	8.13	12.56	7.94
29.0	8.85	7.17	9.15	7.33	9.77	7.63	10.00	7.79	10.46	8.11	10.77	8.08	11.08	8.06	11.73	7.94	12.27	7.75
31.0	8.64	7.00	8.94	7.16	9.54	7.45	9.76	7.61	10.21	7.91	10.51	7.89	10.81	7.87	11.45	7.76	11.98	7.57
33.0	8.42	6.83	8.72	6.98	9.30	7.27	9.52	7.42	9.96	7.72	10.26	7.69	10.55	7.67	11.17	7.57	11.69	7.38
35.0	8.21	6.66	8.50	6.81	9.07	7.08	9.29	7.23	9.71	7.53	10.00	7.50	10.29	7.48	10.89	7.38	11.39	7.20
37.0	8.00	6.49	8.28	6.63	8.84	6.90	9.05	7.05	9.46	7.34	9.74	7.31	10.02	7.29	10.61	7.19	11.10	7.01
39.0	7.57	6.14	7.83	6.27	8.36	6.53	8.56	6.67	8.95	6.94	9.22	6.91	9.48	6.89	10.04	6.80	10.50	6.63
40.0	7.42	6.02	7.68	6.15	8.20	6.40	8.39	6.54	8.78	6.80	9.04	6.78	9.29	6.76	9.84	6.67	10.29	6.51
42.0	7.13	5.78	7.37	5.91	7.87	6.15	8.06	6.28	8.43	6.53	8.68	6.51	8.92	6.49	9.45	6.40	9.89	6.25
43.0	6.98	5.66	7.22	5.78	7.71	6.02	7.89	6.15	8.25	6.40	8.50	6.37	8.74	6.36	9.26	6.27	9.68	6.12
45.0	6.04	4.90	6.25	5.01	6.67	5.21	6.83	5.32	7.14	5.54	7.36	5.52	7.57	5.50	8.01	5.43	8.38	5.30
46.0	5.89	4.78	6.10	4.88	6.51	5.08	6.66	5.19	6.97	5.40	7.18	5.38	7.38	5.37	7.82	5.29	8.18	5.17

Product models : RAV-GM2243AT8P-E / RAV-HM801FT-E (Triple)

Standard Condition

Indoor	27.0 °C DB / 19.0 °C WB
Outdoor	35.0 °C DB / 24.0 °C WB

Specification of product at standard condition.

Total Cooling Capacity (TC)	6.70 kW
Sensible Heat Capacity (SHC)	4.60 kW

Outdoor air temp. °C DB	Indoor Air temperature																	
	14.0 °C WB		15.0 °C WB		16.0 °C WB		17.0 °C WB		18.0 °C WB		19.0 °C WB		20.0 °C WB		22.0 °C WB		24.0 °C WB	
	20.0 °C DB		21.0 °C DB		23.0 °C DB		24.0 °C DB		26.0 °C DB		27.0 °C DB		28.0 °C DB		30.0 °C DB		32.0 °C DB	
	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
10.0	7.27	5.43	7.52	5.55	8.03	5.76	8.22	5.88	8.60	6.12	8.85	6.08	9.10	6.04	9.64	5.92	10.08	5.73
12.0	7.13	5.33	7.38	5.44	7.87	5.65	8.06	5.77	8.43	6.00	8.68	5.96	8.93	5.93	9.45	5.80	9.89	5.62
14.0	6.99	5.22	7.23	5.33	7.72	5.54	7.90	5.65	8.26	5.88	8.51	5.84	8.75	5.81	9.27	5.69	9.69	5.51
16.0	6.85	5.12	7.08	5.22	7.56	5.42	7.74	5.54	8.10	5.76	8.33	5.72	8.57	5.69	9.08	5.57	9.49	5.40
18.0	6.70	5.01	6.94	5.12	7.40	5.31	7.58	5.42	7.93	5.64	8.16	5.60	8.40	5.57	8.89	5.46	9.30	5.29
20.0	6.56	4.90	6.79	5.01	7.25	5.20	7.42	5.31	7.76	5.52	7.99	5.49	8.22	5.46	8.70	5.34	9.10	5.17
21.0	6.49	4.85	6.72	4.95	7.17	5.14	7.34	5.25	7.68	5.46	7.90	5.43	8.13	5.40	8.61	5.28	9.00	5.12
23.0	6.35	4.75	6.57	4.85	7.01	5.03	7.18	5.14	7.51	5.34	7.73	5.31	7.95	5.28	8.42	5.17	8.81	5.01
25.0	6.21	4.64	6.43	4.74	6.86	4.92	7.02	5.02	7.34	5.23	7.56	5.19	7.78	5.16	8.23	5.05	8.61	4.90
27.0	6.07	4.54	6.28	4.63	6.70	4.81	6.86	4.91	7.18	5.11	7.39	5.07	7.60	5.04	8.05	4.94	8.42	4.78
29.0	5.93	4.43	6.13	4.52	6.55	4.70	6.70	4.79	7.01	4.99	7.22	4.95	7.42	4.93	7.86	4.82	8.22	4.67
31.0	5.79	4.32	5.99	4.42	6.39	4.58	6.54	4.68	6.84	4.87	7.04	4.84	7.25	4.81	7.67	4.71	8.03	4.56
33.0	5.64	4.22	5.84	4.31	6.23	4.47	6.38	4.57	6.68	4.75	6.87	4.72	7.07	4.69	7.49	4.59	7.83	4.45
35.0	5.50	4.11	5.69	4.20	6.08	4.36	6.22	4.45	6.51	4.63	6.70	4.60	6.89	4.58	7.30	4.48	7.63	4.34
37.0	5.36	4.01	5.55	4.09	5.92	4.25	6.06	4.34	6.34	4.51	6.53	4.48	6.71	4.46	7.11	4.36	7.44	4.23
39.0	5.07	3.79	5.25	3.87	5.60	4.02	5.73	4.10	6.00	4.27	6.17	4.24	6.35	4.22	6.73	4.13	7.03	4.00
40.0	4.97	3.72	5.15	3.79	5.49	3.94	5.62	4.02	5.88	4.18	6.05	4.16	6.23	4.13	6.59	4.05	6.90	3.92
42.0	4.78	3.57	4.94	3.64	5.27	3.78	5.40	3.86	5.65	4.02	5.81	3.99	5.98	3.97	6.33	3.89	6.62	3.77
43.0	4.68	3.49	4.84	3.57	5.16	3.71	5.29	3.78	5.53	3.94	5.69	3.91	5.86	3.89	6.20	3.81	6.49	3.69
45.0	4.05	3.03	4.19	3.09	4.47	3.21	4.58	3.27	4.79	3.41	4.93	3.38	5.07	3.37	5.37	3.29	5.61	3.19
46.0	3.95	2.95	4.09	3.01	4.36	3.13	4.46	3.19	4.67	3.32	4.81	3.30	4.95	3.28	5.24	3.21	5.48	3.11

Product models : RAV-GM2243AT8P-E / RAV-HM561FT-E (Double twin)

Standard Condition

Indoor	27.0 °C DB / 19.0 °C WB
Outdoor	35.0 °C DB / 24.0 °C WB

Specification of product at standard condition.

Total Cooling Capacity (TC)	5.00 kW
Sensible Heat Capacity (SHC)	3.60 kW

Outdoor air temp. °C DB	Indoor Air temperature																	
	14.0 °C WB		15.0 °C WB		16.0 °C WB		17.0 °C WB		18.0 °C WB		19.0 °C WB		20.0 °C WB		22.0 °C WB		24.0 °C WB	
	20.0 °C DB		21.0 °C DB		23.0 °C DB		24.0 °C DB		26.0 °C DB		27.0 °C DB		28.0 °C DB		30.0 °C DB		32.0 °C DB	
	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
10.0	5.42	4.24	5.61	4.33	5.99	4.50	6.13	4.59	6.42	4.78	6.60	4.76	6.79	4.74	7.19	4.66	7.52	4.53
12.0	5.32	4.15	5.50	4.24	5.87	4.41	6.01	4.50	6.29	4.69	6.48	4.66	6.66	4.64	7.05	4.57	7.38	4.44
14.0	5.21	4.07	5.40	4.16	5.76	4.32	5.89	4.41	6.17	4.59	6.35	4.57	6.53	4.55	6.91	4.47	7.23	4.35
16.0	5.11	3.99	5.29	4.07	5.64	4.24	5.78	4.33	6.04	4.50	6.22	4.48	6.40	4.46	6.77	4.38	7.09	4.26
18.0	5.00	3.91	5.18	3.99	5.52	4.15	5.66	4.24	5.92	4.41	6.09	4.39	6.27	4.37	6.63	4.29	6.94	4.18
20.0	4.90	3.82	5.07	3.91	5.41	4.06	5.54	4.15	5.79	4.32	5.96	4.29	6.13	4.28	6.49	4.20	6.79	4.09
21.0	4.84	3.78	5.01	3.86	5.35	4.02	5.48	4.10	5.73	4.27	5.90	4.25	6.07	4.23	6.43	4.16	6.72	4.04
23.0	4.74	3.70	4.90	3.78	5.23	3.93	5.36	4.01	5.60	4.18	5.77	4.15	5.94	4.14	6.29	4.07	6.57	3.96
25.0	4.63	3.62	4.80	3.70	5.12	3.84	5.24	3.92	5.48	4.08	5.64	4.06	5.80	4.05	6.15	3.98	6.43	3.87
27.0	4.53	3.54	4.69	3.61	5.00	3.76	5.12	3.83	5.36	3.99	5.51	3.97	5.67	3.95	6.01	3.89	6.28	3.78
29.0	4.42	3.45	4.58	3.53	4.88	3.67	5.00	3.75	5.23	3.90	5.39	3.88	5.54	3.86	5.87	3.80	6.14	3.69
31.0	4.32	3.37	4.47	3.44	4.77	3.58	4.88	3.66	5.11	3.80	5.26	3.78	5.41	3.77	5.73	3.71	5.99	3.60
33.0	4.21	3.29	4.36	3.36	4.65	3.49	4.76	3.57	4.98	3.71	5.13	3.69	5.28	3.68	5.59	3.62	5.84	3.52
35.0	4.11	3.21	4.25	3.28	4.54	3.41	4.64	3.48	4.86	3.62	5.00	3.60	5.14	3.59	5.45	3.52	5.70	3.43
37.0	4.00	3.12	4.14	3.19	4.42	3.32	4.52	3.39	4.73	3.53	4.87	3.51	5.01	3.49	5.31	3.43	5.55	3.34
39.0	3.78	2.96	3.92	3.02	4.18	3.14	4.28	3.20	4.48	3.33	4.61	3.32	4.74	3.30	5.02	3.25	5.25	3.16
40.0	3.71	2.90	3.84	2.96	4.10	3.08	4.20	3.14	4.39	3.27	4.52	3.25	4.65	3.24	4.92	3.19	5.15	3.10
42.0	3.56	2.78	3.69	2.84	3.94	2.96	4.03	3.02	4.21	3.14	4.34	3.12	4.46	3.11	4.73	3.06	4.94	2.97
43.0	3.49	2.72	3.61	2.78	3.85	2.89	3.95	2.95	4.13	3.07	4.25	3.06	4.37	3.05	4.63	3.00	4.84	2.91
45.0	3.02	2.36	3.13	2.41	3.34	2.51	3.42	2.56	3.57	2.66	3.68	2.65	3.78	2.64	4.01	2.59	4.19	2.52
46.0	2.95	2.30	3.05	2.35	3.25	2.44	3.33	2.50	3.49	2.60	3.59	2.58	3.69	2.57	3.91	2.53	4.09	2.46

Product models : RAV-GM2803AT8P-E / RAV-HM1401FT-E (Twin)

Standard Condition

Indoor	27.0 °C DB / 19.0 °C WB
Outdoor	35.0 °C DB / 24.0 °C WB

Specification of product at standard condition.

Total Cooling Capacity (TC)	12.50 kW
Sensible Heat Capacity (SHC)	8.70 kW

Outdoor air temp. °C DB	Indoor Air temperature																	
	14.0 °C WB		15.0 °C WB		16.0 °C WB		17.0 °C WB		18.0 °C WB		19.0 °C WB		20.0 °C WB		22.0 °C WB		24.0 °C WB	
	20.0 °C DB		21.0 °C DB		23.0 °C DB		24.0 °C DB		26.0 °C DB		27.0 °C DB		28.0 °C DB		30.0 °C DB		32.0 °C DB	
	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
10.0	13.56	10.26	14.03	10.48	14.98	10.89	15.33	11.12	16.04	11.56	16.51	11.49	16.98	11.43	17.98	11.21	18.81	10.87
12.0	13.30	10.06	13.76	10.28	14.69	10.68	15.03	10.90	15.73	11.34	16.19	11.27	16.65	11.21	17.64	10.99	18.44	10.66
14.0	13.03	9.86	13.49	10.07	14.39	10.46	14.74	10.68	15.41	11.11	15.87	11.04	16.32	10.99	17.29	10.77	18.08	10.45
16.0	12.77	9.67	13.22	9.87	14.10	10.25	14.44	10.47	15.10	10.89	15.55	10.82	15.99	10.77	16.94	10.55	17.71	10.24
18.0	12.51	9.47	12.94	9.67	13.81	10.04	14.14	10.25	14.79	10.66	15.23	10.60	15.66	10.55	16.59	10.34	17.35	10.03
20.0	12.24	9.27	12.67	9.46	13.52	9.83	13.84	10.04	14.48	10.44	14.91	10.37	15.33	10.32	16.24	10.12	16.98	9.81
21.0	12.11	9.17	12.53	9.36	13.38	9.72	13.69	9.93	14.32	10.33	14.75	10.26	15.17	10.21	16.06	10.01	16.80	9.71
23.0	11.85	8.97	12.26	9.16	13.08	9.51	13.40	9.71	14.01	10.10	14.43	10.04	14.84	9.99	15.71	9.79	16.43	9.50
25.0	11.59	8.77	11.99	8.95	12.79	9.30	13.10	9.50	13.70	9.88	14.10	9.82	14.51	9.77	15.36	9.57	16.07	9.29
27.0	11.32	8.57	11.72	8.75	12.50	9.09	12.80	9.28	13.39	9.65	13.78	9.59	14.18	9.55	15.01	9.36	15.70	9.07
29.0	11.06	8.37	11.44	8.55	12.21	8.88	12.50	9.06	13.08	9.43	13.46	9.37	13.85	9.32	14.66	9.14	15.34	8.86
31.0	10.79	8.17	11.17	8.34	11.92	8.67	12.20	8.85	12.77	9.20	13.14	9.15	13.52	9.10	14.32	8.92	14.97	8.65
33.0	10.53	7.97	10.90	8.14	11.63	8.45	11.91	8.63	12.45	8.98	12.82	8.92	13.19	8.88	13.97	8.70	14.61	8.44
35.0	10.27	7.77	10.62	7.94	11.34	8.24	11.61	8.42	12.14	8.75	12.50	8.70	12.86	8.66	13.62	8.49	14.24	8.23
37.0	10.00	7.57	10.35	7.73	11.05	8.03	11.31	8.20	11.83	8.53	12.18	8.48	12.53	8.43	13.27	8.27	13.88	8.02
39.0	8.48	6.42	8.77	6.55	9.36	6.81	9.58	6.95	10.03	7.23	10.32	7.18	10.62	7.15	11.24	7.01	11.76	6.80
40.0	8.29	6.28	8.58	6.41	9.16	6.66	9.38	6.80	9.81	7.07	10.10	7.03	10.39	6.99	11.00	6.85	11.50	6.65
42.0	7.92	6.00	8.20	6.12	8.75	6.36	8.96	6.49	9.37	6.76	9.65	6.71	9.92	6.68	10.51	6.55	10.99	6.35
43.0	7.74	5.86	8.01	5.98	8.55	6.21	8.75	6.34	9.15	6.60	9.42	6.56	9.69	6.53	10.26	6.40	10.73	6.20
45.0	6.78	5.13	7.02	5.24	7.49	5.44	7.66	5.56	8.02	5.78	8.25	5.74	8.49	5.72	8.99	5.60	9.40	5.43
46.0	6.59	4.99	6.82	5.10	7.28	5.29	7.46	5.41	7.80	5.62	8.03	5.59	8.26	5.56	8.75	5.45	9.15	5.29

Product models : RAV-GM2803AT8P-E / RAV-HM801FT-E (Triple)

Standard Condition

Indoor	27.0 °C DB / 19.0 °C WB
Outdoor	35.0 °C DB / 24.0 °C WB

Specification of product at standard condition.

Total Cooling Capacity (TC)	6.70 kW
Sensible Heat Capacity (SHC)	4.60 kW

Outdoor air temp.	Indoor Air temperature																	
	14.0 °C WB		15.0 °C WB		16.0 °C WB		17.0 °C WB		18.0 °C WB		19.0 °C WB		20.0 °C WB		22.0 °C WB		24.0 °C WB	
	20.0 °C DB		21.0 °C DB		23.0 °C DB		24.0 °C DB		26.0 °C DB		27.0 °C DB		28.0 °C DB		30.0 °C DB		32.0 °C DB	
°C DB	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
10.0	7.27	5.43	7.52	5.55	8.03	5.76	8.22	5.88	8.60	6.12	8.85	6.08	9.10	6.04	9.64	5.92	10.08	5.73
12.0	7.13	5.33	7.38	5.44	7.87	5.65	8.06	5.77	8.43	6.00	8.68	5.96	8.93	5.93	9.45	5.80	9.89	5.62
14.0	6.99	5.22	7.23	5.33	7.72	5.54	7.90	5.65	8.26	5.88	8.51	5.84	8.75	5.81	9.27	5.69	9.69	5.51
16.0	6.85	5.12	7.08	5.22	7.56	5.42	7.74	5.54	8.10	5.76	8.33	5.72	8.57	5.69	9.08	5.57	9.49	5.40
18.0	6.70	5.01	6.94	5.12	7.40	5.31	7.58	5.42	7.93	5.64	8.16	5.60	8.40	5.57	8.89	5.46	9.30	5.29
20.0	6.56	4.90	6.79	5.01	7.25	5.20	7.42	5.31	7.76	5.52	7.99	5.49	8.22	5.46	8.70	5.34	9.10	5.17
21.0	6.49	4.85	6.72	4.95	7.17	5.14	7.34	5.25	7.68	5.46	7.90	5.43	8.13	5.40	8.61	5.28	9.00	5.12
23.0	6.35	4.75	6.57	4.85	7.01	5.03	7.18	5.14	7.51	5.34	7.73	5.31	7.95	5.28	8.42	5.17	8.81	5.01
25.0	6.21	4.64	6.43	4.74	6.86	4.92	7.02	5.02	7.34	5.23	7.56	5.19	7.78	5.16	8.23	5.05	8.61	4.90
27.0	6.07	4.54	6.28	4.63	6.70	4.81	6.86	4.91	7.18	5.11	7.39	5.07	7.60	5.04	8.05	4.94	8.42	4.78
29.0	5.93	4.43	6.13	4.52	6.55	4.70	6.70	4.79	7.01	4.99	7.22	4.95	7.42	4.93	7.86	4.82	8.22	4.67
31.0	5.79	4.32	5.99	4.42	6.39	4.58	6.54	4.68	6.84	4.87	7.04	4.84	7.25	4.81	7.67	4.71	8.03	4.56
33.0	5.64	4.22	5.84	4.31	6.23	4.47	6.38	4.57	6.68	4.75	6.87	4.72	7.07	4.69	7.49	4.59	7.83	4.45
35.0	5.50	4.11	5.69	4.20	6.08	4.36	6.22	4.45	6.51	4.63	6.70	4.60	6.89	4.58	7.30	4.48	7.63	4.34
37.0	5.36	4.01	5.55	4.09	5.92	4.25	6.06	4.34	6.34	4.51	6.53	4.48	6.71	4.46	7.11	4.36	7.44	4.23
39.0	4.54	3.40	4.70	3.47	5.02	3.60	5.14	3.68	5.37	3.82	5.53	3.80	5.69	3.78	6.03	3.70	6.30	3.58
40.0	4.45	3.32	4.60	3.39	4.91	3.52	5.03	3.60	5.26	3.74	5.41	3.72	5.57	3.70	5.90	3.62	6.17	3.51
42.0	4.25	3.17	4.39	3.24	4.69	3.37	4.80	3.44	5.02	3.57	5.17	3.55	5.32	3.53	5.63	3.46	5.89	3.35
43.0	4.15	3.10	4.29	3.17	4.58	3.29	4.69	3.36	4.91	3.49	5.05	3.47	5.19	3.45	5.50	3.38	5.75	3.27
45.0	3.63	2.72	3.76	2.77	4.01	2.88	4.11	2.94	4.30	3.06	4.42	3.04	4.55	3.02	4.82	2.96	5.04	2.87
46.0	3.53	2.64	3.66	2.70	3.90	2.80	4.00	2.86	4.18	2.97	4.30	2.95	4.43	2.94	4.69	2.88	4.90	2.79

Product models : RAV-GM2803AT8P-E / RAV-HM801FT-E (Double twin)

Standard Condition

Indoor	27.0 °C DB / 19.0 °C WB
Outdoor	35.0 °C DB / 24.0 °C WB

Specification of product at standard condition.

Total Cooling Capacity (TC)	6.70 kW
Sensible Heat Capacity (SHC)	4.60 kW

Outdoor air temp. °C DB	Indoor Air temperature																	
	14.0 °C WB		15.0 °C WB		16.0 °C WB		17.0 °C WB		18.0 °C WB		19.0 °C WB		20.0 °C WB		22.0 °C WB		24.0 °C WB	
	20.0 °C DB		21.0 °C DB		23.0 °C DB		24.0 °C DB		26.0 °C DB		27.0 °C DB		28.0 °C DB		30.0 °C DB		32.0 °C DB	
	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
10.0	7.27	5.43	7.52	5.55	8.03	5.76	8.22	5.88	8.60	6.12	8.85	6.08	9.10	6.04	9.64	5.92	10.08	5.73
12.0	7.13	5.33	7.38	5.44	7.87	5.65	8.06	5.77	8.43	6.00	8.68	5.96	8.93	5.93	9.45	5.80	9.89	5.62
14.0	6.99	5.22	7.23	5.33	7.72	5.54	7.90	5.65	8.26	5.88	8.51	5.84	8.75	5.81	9.27	5.69	9.69	5.51
16.0	6.85	5.12	7.08	5.22	7.56	5.42	7.74	5.54	8.10	5.76	8.33	5.72	8.57	5.69	9.08	5.57	9.49	5.40
18.0	6.70	5.01	6.94	5.12	7.40	5.31	7.58	5.42	7.93	5.64	8.16	5.60	8.40	5.57	8.89	5.46	9.30	5.29
20.0	6.56	4.90	6.79	5.01	7.25	5.20	7.42	5.31	7.76	5.52	7.99	5.49	8.22	5.46	8.70	5.34	9.10	5.17
21.0	6.49	4.85	6.72	4.95	7.17	5.14	7.34	5.25	7.68	5.46	7.90	5.43	8.13	5.40	8.61	5.28	9.00	5.12
23.0	6.35	4.75	6.57	4.85	7.01	5.03	7.18	5.14	7.51	5.34	7.73	5.31	7.95	5.28	8.42	5.17	8.81	5.01
25.0	6.21	4.64	6.43	4.74	6.86	4.92	7.02	5.02	7.34	5.23	7.56	5.19	7.78	5.16	8.23	5.05	8.61	4.90
27.0	6.07	4.54	6.28	4.63	6.70	4.81	6.86	4.91	7.18	5.11	7.39	5.07	7.60	5.04	8.05	4.94	8.42	4.78
29.0	5.93	4.43	6.13	4.52	6.55	4.70	6.70	4.79	7.01	4.99	7.22	4.95	7.42	4.93	7.86	4.82	8.22	4.67
31.0	5.79	4.32	5.99	4.42	6.39	4.58	6.54	4.68	6.84	4.87	7.04	4.84	7.25	4.81	7.67	4.71	8.03	4.56
33.0	5.64	4.22	5.84	4.31	6.23	4.47	6.38	4.57	6.68	4.75	6.87	4.72	7.07	4.69	7.49	4.59	7.83	4.45
35.0	5.50	4.11	5.69	4.20	6.08	4.36	6.22	4.45	6.51	4.63	6.70	4.60	6.89	4.58	7.30	4.48	7.63	4.34
37.0	5.36	4.01	5.55	4.09	5.92	4.25	6.06	4.34	6.34	4.51	6.53	4.48	6.71	4.46	7.11	4.36	7.44	4.23
39.0	4.54	3.40	4.70	3.47	5.02	3.60	5.14	3.68	5.37	3.82	5.53	3.80	5.69	3.78	6.03	3.70	6.30	3.58
40.0	4.45	3.32	4.60	3.39	4.91	3.52	5.03	3.60	5.26	3.74	5.41	3.72	5.57	3.70	5.90	3.62	6.17	3.51
42.0	4.25	3.17	4.39	3.24	4.69	3.37	4.80	3.44	5.02	3.57	5.17	3.55	5.32	3.53	5.63	3.46	5.89	3.35
43.0	4.15	3.10	4.29	3.17	4.58	3.29	4.69	3.36	4.91	3.49	5.05	3.47	5.19	3.45	5.50	3.38	5.75	3.27
45.0	3.63	2.72	3.76	2.77	4.01	2.88	4.11	2.94	4.30	3.06	4.42	3.04	4.55	3.02	4.82	2.96	5.04	2.87
46.0	3.53	2.64	3.66	2.70	3.90	2.80	4.00	2.86	4.18	2.97	4.30	2.95	4.43	2.94	4.69	2.88	4.90	2.79

2-8-5. Part load

Combination <Rated condition>

Indoor: RAV-HM1101FT-E x 2. RAV-HM801FT-E x 3. RAV-HM561FT-F x4
Outdoor: RAV-GM2243AT(3)P-E

Operation range		Cooling		Heating	
		Q	P	Q	P
MINIMUM	W	4600	1300	4600	1250
RATING	W	20000	6890	22400	8260

Cooling

Outdoor Temperature DB (°C)	Parts Load (%)																			
	100		90		80		70		60		50		40		30		20		10	
	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P
20	23850	5409	21465	4839	19080	4269	16695	3699	14310	3129	11925	2559	9540	1989	7155	1419	5486	1021	5486	1021
21	23593	5507	21234	4927	18875	4347	16515	3767	14156	3186	11797	2606	9437	2026	7078	1445	5426	1039	5426	1039
22	23337	5606	21003	5015	18669	4425	16336	3834	14002	3243	11668	2653	9335	2062	7001	1471	5367	1058	5367	1058
23	23080	5705	20772	5104	18464	4503	16156	3902	13848	3300	11540	2699	9232	2098	6924	1497	5308	1076	5308	1076
24	22823	5804	20541	5192	18259	4581	15976	3969	13694	3358	11412	2746	9129	2135	6847	1523	5249	1095	5249	1095
25	22567	5902	20310	5281	18053	4659	15797	4037	13540	3415	11283	2793	9027	2171	6770	1549	5190	1114	5190	1114
26	22310	6001	20079	5369	17848	4737	15617	4104	13386	3472	11155	2840	8924	2207	6693	1575	5131	1132	5131	1132
27	22053	6100	19848	5457	17643	4814	15437	4172	13232	3529	11027	2886	8821	2244	6616	1601	5072	1151	5072	1151
28	21797	6199	19617	5546	17437	4892	15258	4239	13078	3586	10898	2933	8719	2280	6539	1627	5013	1170	5013	1170
29	21540	6297	19386	5634	17232	4970	15078	4307	12924	3643	10770	2980	8616	2316	6462	1653	4954	1188	4954	1188
30	21283	6396	19155	5722	17027	5048	14898	4374	12770	3700	10642	3026	8513	2353	6385	1679	4895	1207	4895	1207
31	21027	6495	18924	5811	16821	5126	14719	4442	12616	3758	10513	3073	8411	2389	6308	1705	4836	1225	4836	1225
32	20770	6594	18693	5899	16616	5204	14539	4509	12462	3815	10385	3120	8308	2425	6231	1730	4777	1244	4777	1244
33	20513	6692	18462	5987	16411	5282	14359	4577	12308	3872	10257	3167	8205	2462	6154	1756	4718	1263	4718	1263
34	20257	6791	18231	6076	16205	5360	14180	4645	12154	3929	10128	3213	8103	2498	6077	1782	4659	1281	4659	1281
35	20000	6890	18000	6164	16000	5438	14000	4712	12000	3986	10000	3260	8000	2534	6000	1808	4600	1300	4600	1300
36	19743	6989	17769	6252	15795	5516	13820	4780	11846	4043	9872	3307	7897	2570	5923	1834	4541	1319	4541	1319
37	19487	7088	17538	6341	15589	5594	13641	4847	11692	4100	9743	3354	7795	2607	5846	1860	4482	1337	4482	1337
38	19230	7186	17307	6429	15384	5672	13461	4915	11538	4158	9615	3400	7692	2643	5769	1886	4423	1356	4423	1356
39	18973	7284	17076	6517	15179	5750	13281	4980	11384	4216	9487	3446	7589	2679	5692	1911	4364	1375	4364	1375
40	18716	7382	16845	6605	14974	5828	13101	5041	11230	4274	9359	3491	7477	2715	5615	1936	4305	1394	4305	1394
41	18459	7480	16614	6693	14769	5906	12918	5102	11076	4332	9231	3536	7365	2751	5536	1961	4246	1413	4246	1413
42	18202	7578	16383	6781	14564	5984	12735	5163	10922	4393	9103	3581	7253	2787	5457	1986	4187	1432	4187	1432
43	17945	7676	16152	6869	14359	6062	12552	5224	10768	4454	8975	3626	7141	2823	5378	2011	4128	1451	4128	1451
44	17688	7774	15921	6957	14154	6140	12369	5285	10614	4515	8847	3671	7029	2859	5299	2036	4069	1470	4069	1470
45	17431	7872	15690	7045	13949	6218	12186	5346	10460	4576	8719	3716	6917	2895	5220	2061	4010	1489	4010	1489
46	17174	7970	15459	7133	13744	6296	12003	5407	10306	4637	8591	3761	6805	2931	5141	2086	3951	1508	3951	1508

Heating

Outdoor Temperature DB (°C)	Parts Load (%)																			
	100		90		80		70		60		50		40		30		20		10	
	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P
-27	6069	3322	5462	2967	4855	2613	4248	2258	3641	1903	3034	1548	2428	1193	1821	839	1246	503	1246	503
-26	6444	3462	5800	3092	5155	2723	4511	2353	3866	1983	3222	1613	2578	1244	1933	874	1323	524	1323	524
-25	6819	3602	6137	3217	5455	2833	4774	2448	4092	2063	3410	1679	2728	1294	2046	909	1400	545	1400	545
-24	7195	3742	6475	3342	5756	2943	5036	2543	4317	2143	3597	1744	2878	1344	2158	944	1477	566	1477	566
-23	7570	3882	6813	3467	6056	3053	5299	2638	4542	2223	3785	1809	3028	1394	2271	980	1555	587	1555	587
-22	7945	4022	7151	3592	6356	3163	5562	2733	4767	2304	3973	1874	3178	1445	2384	1015	1632	609	1632	609
-21	8320	4161	7488	3717	6656	3273	5824	2828	4992	2384	4160	1939	3328	1495	2496	1050	1709	630	1709	630
-20	8696	4301	7826	3842	6957	3383	6087	2923	5217	2464	4348	2004	3478	1545	2609	1086	1786	651	1786	651
-19	9094	4422	8185	3950	7275	3478	6366	3005	5457	2533	4547	2061	3638	1588	2728	1116	1868	669	1868	669
-18	9493	4543	8543	4058	7594	3573	6645	3087	5696	2602	4746	2117	3797	1632	2848	1147	1949	687	1949	687
-17	9891	4664	8902	4166	7913	3668	6924	3169	5935	2671	4946	2173	3957	1675	2967	1177	2031	706	2031	706
-16	10290	4785	9261	4274	8232	3763	7203	3252	6174	2741	5145	2230	4116	1719	3087	1208	2113	724	2113	724
-15	10688	4905	9620	4381	8551	3858	7482	3334	6413	2810	5344	2286	4275	1762	3207	1238	2195	742	2195	742
-14	10994	5055	9895	4515	8795	3975	7696	3435	6596	2895	5497	2356	4398	1816	3298	1276	2258	765	2258	765
-13	11300	5204	10170	4649	9040	4093	7910	3537	6780	2981	5650	2425	4520	1869	3390	1314	2320	788	2320	788
-12	11606	5354	10445	4782	9284	4210	8124	3639	6963	3067	5803	2495	4642	1923	3482	1351	2383	810	2383	810
-11	11911	5503	10720	4916	9529	4328	8338	3740	7147	3152	5956	2565	4764	1977	3573	1389	2446	833	2446	833
-10	12217	5653	10995	5049	9774	4446	8552	3842	7330	3238	6108	2634	4887	2031	3665	1427	2509	855	2509	855
-9	12523	5802	11270	5183	10018	4563	8766	3943	7514	3324	6261	2704	5009	2084	3757	1465	2572	878	2572	878
-8	12828	5952	11546	5316	10263	4681	8980	4045	7697	3409	6414	2774	5131	2138	3849	1502	2634	901	2634	901
-7	13134	6102	11821	5450	10507	4798	9194	4147	7880	3495	6567	2843	5254	2192	3940	1540	2697	923	2697	923
-6	13478	6236	12130	5570	10783	4904	9435	4238	8087	3572	6739	2906	5391	2240	4043	1574	2768	944	2768	944
-5	13822	6370	12440	5690	11058	5009	9676	4329	8293	3649	6911	2968	5529	2288	4147	1608	2839	964	2839	964
-4	14167	6504	12750	5810	11333	5115	9917	4420	8500	3726	7083	3031	5667	2336	4250	1642	2909	984	2909	984
-3	14511	6639	13060	5930	11609	5221	10158	4512	8707	3803	7255	3094	5804	2385	4353	1676	2980	1005	2980	1005
-2	14855	6773	13370	6049	11884	5326	10399	4603	8913	3879	7428	3156	5942	2433	4457	1710	3051	1025	3051	1025
-1	15199	6907	13679	6169	12159	5432	10639	4694	9120	3956	7600	3219	6080	2481	4560	1743	3121	1045	3121	1045
0	15543	7041	13989	6289	12435	5537	10880	4785	9326	4033	7772	3281	6217	2529	4663	1777	3192	1066	3192	1066
1	15888	7175	14299	6409	12710	5643	11121	4876	9533	4110	7944	3344	6355	2577	4766	1811	3263	1086	3263	1086
2	16232	7310	14609	6529	12986	5748	11362	4968	9739	4187	8116	3406	6493	2626	4870	1845	3333	1106	3333	1106
3	16498	7408	14848	6617	13198	5826	11548	5035	9899	4243	8249	3452	6599	2661	4949	1870	3388	1121	3388	1121
4	16764	7506	15087	6705	13411	5903	11735	5101	10058	4300	8382	3498	6705	2696	5029	1895	3443	1136	3443	1136
5	17020	7605	15327	6792	13624	5980	11921	5168	10218	4356	8515	3544	6812	2732	5109	1919	3497	1151	3497	1151
6	21832	8132	19640	7264	17458	6395	15275	5527	13093	4658	10911	3790	8729	2921	6547	2053	4481	1231	4481	1231
7	22400	8260	20160	7378	17920	6496	15680	5614	13440	4731	11200	3849	8960	2967	6720	2085	4600	1250	4600	1250
8	22978	8388	20680	7492	18382	6596	16085	5700	13787	4805	11489	3909	9191	3013	6893	2117	4719	1269	4719	1269
9	23556	8516	21201	7606	18845	6697	16489	5787	14134	4878	11778	3968	9422	3059	7067	2149	4837	1289	4837	1289
10	24134	8644	21721	7721	19307	6797	16894	5874	14481	4951	12067	4028	9654	3105	7240	2182	4956	1308	4956	1308
11	24712	8772	22241	7835	19770	6898	17299	5961	14827	5024	12356	4088	9885	3151	7414	2214	5075	1327	5075	1327
12	25290	8899	22761	7949	20232	6999	17703	6048	15174	5098	12645	4147	10116	3197	7587	2246	5194	1347	5194	1347
13	25868	9027	23282	8063	20695	7089	18108	6135	15521	5171	12934	4207	10347	3243	7761	2279	5312	1366	5312	1366
14	26446	9155	23802	8178	21157	7200	18513	6222	15868	5244	13223	4266	10579	3289	7934	2311	5431	1385	5431	1385
15	27025	9283	24322	8292	21620	7300	18917	6309	16215	5317	13512	4326	10810	3335	8107	2343	5550	1405	5550	1405
16	27603	9411	24842	8406	22082	7401	19322	6396	16562	5391	13801	4386	11041	3381	8281	2375	5668	1424	5668	1424
17	28181	9539	25363	8520	22545	7501	19726	6483	16908	5464	14090	4445	11272	3426	8454	2408	5787	1444	5787	1444
18	28759	9667	25883	8634	23007	7602	20131	6570	17255	5537	14379	4505	11503	3472	8628	2440	5906	1463	5906	1463
19	29337	9795	26403	8749	23469	7703	20536	6657	17602	5610	14668	4564	11735	3518	8801	2472	6025	1482	6025	1482
20	29915	9923	26923	8863	23932	7803	20940	6743	17949	5684	14957	4624	11966	3564	8974	2505	6143	1502	6143	1502
21	30493	10051	27444	8977	24394	7904	21345	6830	18296	5757	15246	4684	12197	3610	9148	2537	6262	1521	6262	1521
22	31071	10178	27964	9091	24857	8004	21750	6917	18643	5830	15535	4743	12428	3656	9321	2569	6381	1540	6381	1540
23	31649	10306	28484	9206	25319	8105	22154	7004	18989	5904	15825	4803	12660	3702	9495	2601	6499	1560	6499	1560
24	32227	10434	29004	9320	25782	8206	22559	7091	19336	5977	16114	4862	12891	3748	9668	2634	6618	1579	6618	1579

Combination <Capacity range (Max)>

Indoor: RAV-HM1101FT-E x 2, RAV-HM801FT-E x 3, RAV-HM561FT-E x4
Outdoor: RAV-GM2243AT8(J)P-E

Operation range	Cooling		Heating	
	Q	P	Q	P
MINIMUM	W 4600	1300	4600	1250
RATING	W 20000	6890	22400	8260
MAXIMUM	W 22400	8960	25000	8330

Cooling

Outdoor Temperature DB (°C)	Parts Load (%)																	
	100		90		80		70		60		50		40		30		20	
	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P
20	26801	7085	24120	6323	21440	5560	18760	4798	16080	4036	13400	3274	10720	2512	8040	1749	5504	1028
21	26512	7214	23861	6438	21210	5662	18558	4886	15907	4110	13256	3334	10605	2557	7954	1781	5444	1047
22	26224	7344	23602	6554	20979	5764	18357	4973	15724	4183	13112	3393	10489	2603	7867	1813	5385	1065
23	25935	7473	23342	6669	20748	5865	18155	5061	15561	4257	12968	3453	10374	2649	7781	1845	5326	1084
24	25647	7602	23082	6784	20517	5967	17953	5149	15388	4331	12823	3513	10259	2695	7694	1877	5267	1103
25	25358	7732	22823	6900	20287	6068	17751	5236	15215	4404	12679	3573	10143	2741	7608	1909	5208	1122
26	25070	7861	22563	7015	20056	6170	17549	5324	15042	4478	12535	3632	10028	2787	7521	1941	5148	1141
27	24782	7990	22303	7131	19825	6271	17347	5412	14869	4552	12391	3692	9913	2833	7434	1973	5089	1159
28	24493	8120	22044	7246	19595	6373	17145	5499	14696	4626	12247	3752	9797	2878	7348	2005	5030	1178
29	24205	8249	21784	7362	19364	6474	16943	5587	14523	4699	12102	3812	9682	2924	7261	2037	4971	1197
30	23916	8379	21525	7477	19133	6576	16741	5674	14350	4773	11958	3872	9567	2970	7175	2069	4911	1216
31	23628	8508	21265	7593	18902	6677	16540	5762	14177	4847	11814	3931	9451	3016	7088	2101	4852	1234
32	23339	8637	21006	7708	18672	6779	16338	5850	14004	4920	11670	3991	9336	3062	7002	2133	4793	1253
33	23051	8767	20746	7824	18441	6880	16136	5937	13831	4994	11526	4051	9220	3108	6915	2165	4734	1272
34	22763	8896	20486	7939	18210	6982	15934	6025	13658	5068	11381	4111	9105	3154	6829	2197	4674	1291
35	22400	8960	20160	7996	17920	7032	15680	6068	13440	5104	11200	4140	8960	3176	6720	2212	4600	1300
36	21971	8960	19774	7996	17577	7032	15379	6068	13182	5104	10985	4140	8788	3176	6591	2212	4512	1300
37	21549	8960	19394	7996	17239	7032	15084	6068	12929	5104	10774	4140	8620	3176	6465	2212	4425	1300
38	21134	8960	19021	7996	16908	7032	14794	6068	12681	5104	10567	4140	8454	3176	6340	2212	4340	1300
39	17568	5973	15811	5331	14054	4688	12298	4045	10541	3403	8784	2760	7027	2118	5270	1475	3608	867
40	17225	5973	15503	5331	13780	4688	12058	4045	10335	3403	8613	2760	6890	2118	5168	1475	3537	867
41	16883	5973	15194	5331	13506	4688	11818	4045	10130	3403	8441	2760	6753	2118	5065	1475	3467	867
42	16540	5973	14886	5331	13232	4688	11578	4045	9924	3403	8270	2760	6616	2118	4962	1475	3397	867
43	16198	5973	14578	5331	12958	4688	11338	4045	9719	3403	8099	2760	6479	2118	4859	1475	3326	867
44	14364	4646	12928	4146	11491	3646	10055	3146	8618	2647	7182	2147	5746	1647	4309	1147	2950	674
45	14021	4646	12619	4146	11217	3646	9815	3146	8413	2647	7011	2147	5609	1647	4206	1147	2879	674
46	13679	4646	12311	4146	10943	3646	9575	3146	8207	2647	6839	2147	5472	1647	4104	1147	2809	674

Heating

Outdoor Temperature DB (°C)	Parts Load (%)																			
	100		90		80		70		60		50		40		30		20		10	
	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P
-27	6700	3672	6030	3290	5360	2907	4690	2525	4020	2142	3350	1760	2680	1377	2010	995	1340	612	1233	551
-26	7114	3827	6403	3428	5691	3030	4980	2631	4269	2232	3557	1834	2846	1435	2134	1037	1423	638	1309	574
-25	7529	3981	6776	3567	6023	3152	5270	2737	4517	2323	3764	1908	3011	1493	2259	1078	1506	664	1385	597
-24	7943	4136	7149	3705	6354	3274	5560	2844	4766	2413	3971	1982	3177	1551	2383	1120	1589	690	1461	621
-23	8357	4291	7521	3844	6686	3397	5850	2950	5014	2503	4179	2056	3343	1609	2507	1162	1671	715	1538	644
-22	8771	4445	7894	3982	7017	3519	6140	3056	5263	2593	4386	2130	3509	1667	2631	1204	1754	741	1614	667
-21	9186	4600	8267	4121	7349	3642	6430	3162	5511	2683	4593	2204	3674	1725	2756	1246	1837	767	1690	690
-20	9600	4754	8640	4259	7680	3764	6720	3269	5760	2774	4800	2278	3840	1783	2880	1288	1920	793	1766	713
-19	10040	4888	9036	4379	8032	3870	7028	3361	6024	2851	5020	2342	4016	1833	3012	1324	2008	815	1847	733
-18	10480	5022	9432	4498	8384	3975	7336	3452	6288	2929	5240	2406	4192	1883	3144	1360	2096	837	1928	754
-17	10920	5155	9828	4618	8736	4081	7644	3544	6552	3007	5460	2470	4368	1933	3276	1396	2184	859	2009	774
-16	11360	5289	10224	4738	9088	4187	7952	3636	6816	3085	5680	2534	4544	1983	3408	1433	2272	882	2090	794
-15	11800	5422	10620	4857	9440	4293	8260	3728	7080	3163	5900	2598	4720	2034	3540	1469	2360	904	2171	814
-14	12138	5587	10924	5005	9710	4423	8496	3841	7283	3259	6069	2678	4855	2096	3641	1514	2428	932	2233	838
-13	12475	5753	11228	5153	9980	4554	8733	3955	7485	3356	6238	2757	4990	2158	3743	1558	2495	959	2295	863
-12	12813	5918	11531	5302	10250	4685	8969	4069	7688	3452	6406	2836	5125	2219	3844	1603	2563	987	2358	888
-11	13150	6083	11835	5450	10520	4816	9205	4182	7890	3545	6575	2915	5260	2281	3945	1648	2630	1014	2420	913
-10	13488	6248	12139	5598	10790	4947	9441	4296	8093	3645	6744	2994	5395	2343	4046	1693	2698	1042	2482	938
-9	13825	6414	12443	5746	11060	5078	9678	4410	8295	3742	6913	3073	5530	2405	4148	1737	2765	1069	2544	962
-8	14163	6579	12746	5894	11330	5208	9914	4523	8498	3838	7081	3153	5665	2467	4249	1782	2833	1097	2606	987
-7	14500	6744	13050	6042	11600	5339	10150	4637	8700	3934	7250	3232	5800	2529	4350	1827	2900	1124	2668	1012
-6	14880	6893	13392	6175	11904	5457	10416	4739	8928	4021	7440	3303	5952	2585	4464	1867	2976	1149	2738	1034
-5	15260	7041	13734	6308	12208	5574	10682	4841	9156	4108	7630	3374	6104	2641	4578	1907	3052	1174	2808	1057
-4	15640	7189	14076	6441	12512	5692	10948	4943	9384	4194	7820	3445	6256	2696	4692	1948	3128	1199	2878	1079
-3	16020	7338	14418	6574	12816	5809	11214	5045	9612	4281	8010	3516	6408	2752	4806	1988	3204	1223	2948	1101
-2	16400	7486	14760	6706	13120	5927	11480	5147	9840	4367	8200	3587	6560	2808	4920	2028	3280	1248	3018	1123
-1	16780	7635	15102	6839	13424	6044	11746	5249	10068	4454	8390	3659	6712	2863	5034	2068	3356	1273	3088	1146
0	17160	7783	15444	6972	13728	6162	12012	5351	10296	4540	8580	3730	6864	2919	5148	2108	3432	1298	3157	1168
1	17540	7931	15786	7105	14032	6279	12278	5453	10524	4627	8770	3801	7016	2975	5262	2149	3508	1322	3227	1190
2	17920	8080	16128	7238	14336	6397	12544	5555	10752	4713	8960	3872	7168	3030	5376	2189	3584	1347	3297	1212
3	18380	8246	16542	7387	14704	6529	12866	5670	11028	4811	9190	3952	7352	3093	5514	2234	3676	1375	3382	1237
4	18846	8413	16961	7537	15077	6660	13192	5784	11307	4908	9423	4032	7538	3155	5654	2279	3769	1403	3468	1262
5	19317	8580	17385	7686	15454	6792	13522	5899	11590	5005	9658	4111	7727	3218	5795	2324	3863	1430	3554	1287
6	24355	8201	21919	7347	19484	6493	17048	5638	14613	4784	12177	3930	9742	3076	7306	2222	4871	1367	4481	1231
7	25000	8330	22500	7462	20000	6595	17500	5727	15000	4859	12500	3992	10000	3124	7500	2256	5000	1389	4600	1250
8	25645	8459	23081	7578	20516	6697	17952	5816	15387	4935	12823	4054	10258	3172	7694	2291	5129	1410	4719	1269
9	26290	8588	23661	7693	21032	6799	18403	5904	15774	5010	13145	4115	10516	3221	7887	2326	5258	1432	4837	1289
10	26935	8717	24242	7809	21548	6901	18855	5993	16161	5085	13468	4177	10774	3269	8081	2361	5387	1453	4956	1308
11	27581	8846	24823	7925	22065	7003	19306	6082	16548	5160	13790	4239	11032	3318	8274	2396	5516	1475	5075	1327
12	28226	8975	25403	8040	22581	7105	19758	6170	16935	5236	14113	4301	11290	3366	8468	2431	5645	1496	5194	1347
13	28871	9104	25984	8156	23097	7207	20210	6259	17323	5311	14435	4363	11548	3414	8661	2466	5774	1518	5312	1366
14	22966	5325	22069	4770	18373	4215	16076	3661	13780	3106	11483	2552	9186	1997	6890	1442	4593	888	4226	799
15	23342	5325	21088	4770	18674	4215	16340	3661	14005	3106	11671	2552	9337	1997	7003	1442	4668	888	4295	799
16	23717	5325	21345	4770	18973	4215	16602	3661	14230	3106	11858	2552	9487	1997	7115	1442	4743	888	4364	799
17	24090	5325	21681	4770	19272	4215	16863	3661	14454	3106	12045	2552	9636	1997	7227	1442	4818	888	4432	799
18	24460	5325	22014	4770	19568	4215	17122	3661	14676	3106	12230	2552	9784	1997	7338	1442	4892	888	4501	799
19	24830	5325	22347	4770	19864	4215	17381	3661	14898	3106	12415	2552	9932	1997	7449	1442	4966	888	4569	799
20	25197	5325	22678	4770	20158	4215	17638	3661	15118	3106	12599	2552	10079	1997	7559	1442	5039	888	4636	799
21	25563	5325	23007	4770	20451	4215	17894	3661	15338	3106	12782	2552	10225	1997	7669	1442	5113	888	4704	799
22	25928	5325	23335	4770	20742	4215	18150	3661	15557	3106	12964	2552	10371	1997	7778	1442	5186	888	4771	799
23	26291	5325	23662	4770	21033	4215	18404	3661	15775	3106	13146	2552	10516	1997	7887	1442	5258	888	4838	799
24	26653	5325	23988	4770	21322	4215	18657	3661	15992	3106	13326	2552	10661	1997	7996	1442	5331	888	4904	799

Combination <Rated condition>

Indoor: RAV-HM1101FT-E x 2
Outdoor: RAV-GM2243AT8(J)P-E

Operation range	Cooling		Heating	
	Q	P	Q	P
MINIMUM	W 4600	1300	4600	1250
RATING	W 20000	6890	22400	8260

Cooling

Outdoor Temperature DB (°C)	Parts Load (%)																			
	100		90		80		70		60		50		40		30		20		10	
	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P
20	23850	5409	21465	4839	19080	4269	16695	3699	14310	3129	11925	2559	9540	1989	7155	1419	5486	1021	5486	1021
21	23593	5507	21234	4927	18875	4347	16515	3767	14156	3186	11797	2606	9437	2026	7078	1445	5426	1039	5426	1039
22	23337	5606	21003	5015	18669	4425	16336	3834	14002	3243	11668	2653	9335	2062	7001	1471	5367	1058	5367	1058
23	23080	5705	20772	5104	18464	4503	16156	3902	13848	3300	11540	2699	9232	2098	6924	1497	5308	1076	5308	1076
24	22823	5804	20541	5192	18259	4581	15976	3969	13694	3358	11412	2746	9129	2135	6847	1523	5249	1095	5249	1095
25	22567	5902	20310	5281	18053	4659	15797	4037	13540	3415	11283	2793	9027	2171	6770	1549	5190	1114	5190	1114
26	22310	6001	20079	5369	17848	4737	15617	4104	13386	3472	11155	2840	8924	2207	6693	1575	5131	1132	5131	1132
27	22053	6100	19848	5457	17643	4814	15437	4172	13232	3529	11027	2886	8821	2244	6616	1601	5072	1151	5072	1151
28	21797	6199	19617	5546	17437	4892	15258	4239	13078	3586	10898	2933	8719	2280	6539	1627	5013	1170	5013	1170
29	21540	6297	19386	5634	17232	4970	15078	4307	12924	3643	10770	2980	8616	2316	6462	1653	4954	1188	4954	1188
30	21283	6396	19155	5722	17027	5048	14898	4374	12770	3700	10642	3026	8513	2353	6385	1679	4895	1207	4895	1207
31	21027	6495	18924	5811	16821	5126	14719	4442	12616	3758	10513	3073	8411	2389	6308	1705	4836	1225	4836	1225
32	20770	6594	18693	5899	16616	5204	14539	4509	12462	3815	10385	3120	8308	2425	6231	1730	4777	1244	4777	1244
33	20513	6692	18462	5987	16411	5282	14359	4577	12308	3872	10257	3167	8205	2462	6154	1756	4718	1263	4718	1263
34	20257	6791	18231	6076	16205	5360	14180	4645	12154	3929	10128	3213	8103	2498	6077	1782	4659	1281	4659	1281
35	20000	6890	18000	6164	16000	5438	14000	4712	12000	3986	10000	3260	8000	2534	6000	1808	4600	1300	4600	1300
36	19743	6989	17769	6252	15795	5516	13820	4780	11846	4043	9872	3307	7897	2570	5923	1834	4541	1319	4541	1319
37	19487	7088	17538	6341	15589	5594	13641	4847	11692	4100	9743	3354	7795	2607	5846	1860	4482	1337	4482	1337
38	19230	7186	17307	6429	15384	5672	13461	4915	11538	4158	9615	3400	7692	2643	5769	1886	4423	1356	4423	1356
39	18431	6764	16588	6052	14745	5339	12902	4626	11059	3913	9216	3201	7373	2488	5529	1775	4239	1276	4239	1276
40	18072	6764	16265	6052	14458	5339	12650	4626	10843	3913	9036	3201	7229	2488	5422	1775	4157	1276	4157	1276
41	17713	6764	15941	6052	14170	5339	12399	4626	10628	3913	8856	3201	7085	2488	5314	1775	4074	1276	4074	1276
42	17353	6764	15618	6052	13883	5339	12147	4626	10412	3913	8677	3201	6941	2488	5206	1775	3991	1276	3991	1276
43	16994	6764	15294	6052	13595	5339	11896	4626	10196	3913	8497	3201	6797	2488	5098	1775	3909	1276	3909	1276
44	15070	5261	13563	4707	12056	4152	10549	3598	9042	3044	7535	2489	6028	1935	4521	1381	3466	993	3466	993
45	14711	5261	13240	4707	11768	4152	10297	3598	8826	3044	7355	2489	5884	1935	4413	1381	3383	993	3383	993
46	14351	5261	12916	4707	11481	4152	10046	3598	8611	3044	7176	2489	5740	1935	4305	1381	3301	993	3301	993

Heating

Outdoor Temperature DB (°C)	Parts Load (%)																			
	100		90		80		70		60		50		40		30		20		10	
	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P
-27	6069	3322	5462	2967	4855	2613	4248	2258	3641	1903	3034	1548	2428	1193	1821	839	1246	503	1246	503
-26	6444	3462	5800	3092	5155	2723	4511	2353	3866	1983	3222	1613	2578	1244	1933	874	1323	524	1323	524
-25	6819	3602	6137	3217	5455	2833	4774	2448	4092	2063	3410	1679	2728	1294	2046	909	1400	545	1400	545
-24	7195	3742	6475	3342	5756	2943	5036	2543	4317	2143	3597	1744	2878	1344	2158	944	1477	566	1477	566
-23	7570	3882	6813	3467	6056	3053	5299	2638	4542	2223	3785	1809	3028	1394	2271	980	1555	587	1555	587
-22	7945	4022	7151	3592	6356	3163	5562	2733	4767	2304	3973	1874	3178	1445	2384	1015	1632	609	1632	609
-21	8320	4161	7488	3717	6656	3273	5824	2828	4992	2384	4160	1939	3328	1495	2496	1050	1709	630	1709	630
-20	8696	4301	7826	3842	6957	3383	6087	2923	5217	2464	4348	2004	3478	1545	2609	1086	1786	651	1786	651
-19	9094	4422	8185	3950	7275	3478	6366	3005	5457	2533	4547	2061	3638	1588	2728	1116	1868	669	1868	669
-18	9493	4543	8543	4058	7594	3573	6645	3087	5696	2602	4746	2117	3797	1632	2848	1147	1949	687	1949	687
-17	9891	4664	8902	4166	7913	3668	6924	3169	5935	2671	4946	2173	3957	1675	2967	1177	2031	706	2031	706
-16	10290	4785	9261	4274	8232	3763	7203	3252	6174	2741	5145	2230	4116	1719	3087	1208	2113	724	2113	724
-15	10688	4905	9620	4381	8551	3858	7482	3334	6413	2810	5344	2286	4275	1762	3207	1238	2195	742	2195	742
-14	10994	5055	9895	4515	8795	3975	7696	3435	6596	2895	5497	2356	4398	1816	3298	1276	2258	765	2258	765
-13	11300	5204	10170	4649	9040	4093	7910	3537	6780	2981	5650	2425	4520	1869	3390	1314	2320	788	2320	788
-12	11606	5354	10445	4782	9284	4210	8124	3639	6963	3067	5803	2495	4642	1923	3482	1351	2383	810	2383	810
-11	11911	5503	10720	4916	9529	4328	8338	3740	7147	3152	5956	2565	4764	1977	3573	1389	2446	833	2446	833
-10	12217	5653	10995	5049	9774	4446	8552	3842	7330	3238	6108	2634	4887	2031	3665	1427	2509	855	2509	855
-9	12523	5802	11270	5183	10018	4563	8766	3943	7514	3324	6261	2704	5009	2084	3757	1465	2572	878	2572	878
-8	12828	5952	11546	5316	10263	4681	8980	4045	7697	3409	6414	2774	5131	2138	3849	1502	2634	901	2634	901
-7	13134	6102	11821	5450	10507	4798	9194	4147	7880	3495	6567	2843	5254	2192	3940	1540	2697	923	2697	923
-6	13478	6236	12130	5570	10783	4904	9435	4238	8087	3572	6739	2906	5391	2240	4043	1574	2768	944	2768	944
-5	13822	6370	12440	5690	11058	5009	9676	4329	8293	3649	6911	2968	5529	2288	4147	1608	2839	964	2839	964
-4	14167	6504	12750	5810	11333	5115	9917	4420	8500	3726	7083	3031	5667	2336	4250	1642	2909	984	2909	984
-3	14511	6639	13060	5930	11609	5221	10158	4512	8707	3803	7255	3094	5804	2385	4353	1676	2980	1005	2980	1005
-2	14855	6773	13370	6049	11884	5326	10399	4603	8913	3879	7428	3156	5942	2433	4457	1710	3051	1025	3051	1025
-1	15199	6907	13679	6169	12159	5432	10639	4694	9120	3956	7600	3219	6080	2481	4560	1743	3121	1045	3121	1045
0	15543	7041	13989	6289	12435	5537	10880	4785	9326	4033	7772	3281	6217	2529	4663	1777	3192	1066	3192	1066
1	15888	7175	14299	6409	12710	5643	11121	4876	9533	4110	7944	3344	6355	2577	4766	1811	3263	1086	3263	1086
2	16232	7310	14609	6529	12986	5748	11362	4968	9739	4187	8116	3406	6493	2626	4870	1845	3333	1106	3333	1106
3	16498	7408	14848	6617	13198	5826	11548	5035	9899	4243	8249	3452	6599	2661	4949	1870	3388	1121	3388	1121
4	16764	7506	15087	6705	13411	5903	11735	5101	10058	4300	8382	3498	6705	2696	5029	1895	3443	1136	3443	1136
5	17030	7605	15327	6792	13624	5980	11921	5168	10218	4358	8515	3544	6812	2732	5109	1919	3497	1151	3497	1151
6	21822	8132	19640	7264	17458	6395	15275	5527	12093	4658	10911	3790	8729	2921	6547	2053	3481	1231	3481	1231
7	22400	8260	20160	7378	17920	6496	15680	5614	13440	4731	11200	3849	8960	2967	6720	2085	4600	1250	4600	1250
8	22978	8388	20680	7492	18382	6596	16085	5700	13787	4805	11489	3909	9191	3013	6893	2117	4719	1269	4719	1269
9	23556	8516	21201	7606	18845	6697	16489	5787	14134	4878	11778	3968	9422	3059	7067	2149	4837	1289	4837	1289
10	24134	8644	21721	7721	19307	6797	16894	5874	14481	4951	12067	4028	9654	3105	7240	2182	4956	1308	4956	1308
11	24712	8772	22241	7835	19770	6898	17299	5961	14827	5024	12356	4088	9885	3151	7414	2214	5075	1327	5075	1327
12	25290	8899	22761	7949	20232	6999	17703	6048	15174	5098	12645	4147	10116	3197	7587	2246	5194	1347	5194	1347
13	25868	9027	23282	8063	20695	7099	18108	6135	15521	5171	12934	4207	10347	3243	7761	2279	5312	1366	5312	1366
14	26446	9155	23802	8178	21157	7200	18513	6222	15868	5244	13223	4266	10579	3289	7934	2311	5431	1385	5431	1385
15	27025	9283	24322	8292	21620	7300	18917	6309	16215	5317	13512	4326	10810	3335	8107	2343	5550	1405	5550	1405
16	27603	9411	24842	8406	22082	7401	19322	6396	16562	5391	13801	4386	11041	3381	8281	2375	5668	1424	5668	1424
17	28181	9539	25363	8520	22545	7501	19726	6483	16908	5464	14090	4445	11272	3426	8454	2408	5787	1444	5787	1444
18	28759	9667	25883	8634	23007	7602	20131	6570	17255	5537	14379	4505	11503	3472	8628	2440	5906	1463	5906	1463
19	29337	9795	26403	8749	23469	7703	20536	6657	17602	5610	14668	4564	11735	3518	8801	2472	6025	1482	6025	1482
20	29915	9923	26923	8863	23932	7803	20940	6743	17949	5684	14957	4624	11966	3564	8974	2505	6143	1502	6143	1502
21	30493	10051	27444	8977	24394	7904	21345	6830	18296	5757	15246	4684	12197	3610	9148	2537	6262	1521	6262	1521
22	31071	10178	27964	9091	24857	8004	21750	6917	18643	5830	15535	4743	12428	3656	9321	2569	6381	1540	6381	1540
23	31649	10306	28484	9206	25319	8105	22154	7004	18989	5904	15825	4803	12660	3702	9495	2601	6499	1560	6499	1560
24	32227	10434	29004	9320	25782	8206	22559	7091	19336	5977	16114	4862	12891	3748	9668	2634	6618	1579	6618	1579

Combination <Capacity range (Max)>

Indoor: RAV-HM1101FT-E x 2
Outdoor: RAV-GM2243AT8(J)P-E

Operation range	Cooling		Heating	
	Q	P	Q	P
MINIMUM	W	4600	1300	4600 1250
RATING	W	20000	6890	22400 8260
MAXIMUM	W	22400	8960	25000 8330

Cooling

Outdoor Temperature DB (°C)	Parts Load (%)																	
	100		90		80		70		60		50		40		30		20	
	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P
20	26801	7085	24120	6323	21440	5560	18760	4798	16080	4036	13400	3274	10720	2512	8040	1749	5504	1028
21	26512	7214	23861	6438	21210	5662	18558	4886	15907	4110	13256	3334	10605	2557	7954	1781	5444	1047
22	26224	7344	23601	6554	20979	5764	18357	4973	15734	4183	13112	3393	10489	2603	7867	1813	5385	1065
23	25935	7473	23342	6669	20748	5865	18155	5061	15561	4257	12968	3453	10374	2649	7781	1845	5326	1084
24	25647	7602	23082	6784	20517	5967	17953	5149	15388	4331	12823	3513	10259	2695	7694	1877	5267	1103
25	25358	7732	22823	6900	20287	6068	17751	5236	15215	4404	12679	3573	10143	2741	7608	1909	5208	1122
26	25070	7861	22563	7015	20056	6170	17549	5324	15042	4478	12535	3632	10028	2787	7521	1941	5148	1141
27	24782	7990	22303	7131	19825	6271	17347	5412	14869	4552	12391	3692	9913	2833	7434	1973	5089	1159
28	24493	8120	22044	7246	19595	6373	17145	5499	14696	4626	12247	3752	9797	2878	7348	2005	5030	1178
29	24205	8249	21784	7362	19364	6474	16943	5587	14523	4699	12102	3812	9682	2924	7261	2037	4971	1197
30	23916	8379	21525	7477	19133	6576	16741	5674	14350	4773	11958	3872	9567	2970	7175	2069	4911	1216
31	23628	8508	21265	7593	18902	6677	16540	5762	14177	4847	11814	3931	9451	3016	7088	2101	4852	1234
32	23339	8637	21006	7708	18672	6779	16338	5850	14004	4920	11670	3991	9336	3062	7002	2133	4793	1253
33	23051	8767	20746	7824	18441	6880	16136	5937	13831	4994	11526	4051	9220	3108	6915	2165	4734	1272
34	22763	8896	20486	7939	18210	6982	15934	6025	13658	5068	11381	4111	9105	3154	6829	2197	4674	1291
35	22400	8960	20160	7996	17920	7032	15680	6068	13440	5104	11200	4140	8960	3176	6720	2212	4600	1300
36	21971	8960	19774	7996	17577	7032	15379	6068	13182	5104	10985	4140	8788	3176	6591	2212	4512	1300
37	21549	8960	19394	7996	17239	7032	15084	6068	12929	5104	10774	4140	8620	3176	6465	2212	4425	1300
38	21134	8960	19021	7996	16908	7032	14794	6068	12681	5104	10567	4140	8454	3176	6340	2212	4340	1300
39	17568	5973	15811	5331	14054	4688	12298	4045	10541	3403	8784	2760	7027	2118	5270	1475	3608	867
40	17225	5973	15503	5331	13780	4688	12058	4045	10335	3403	8613	2760	6890	2118	5168	1475	3537	867
41	16883	5973	15194	5331	13506	4688	11818	4045	10130	3403	8441	2760	6753	2118	5065	1475	3467	867
42	16540	5973	14886	5331	13232	4688	11578	4045	9924	3403	8270	2760	6616	2118	4962	1475	3397	867
43	16198	5973	14578	5331	12958	4688	11338	4045	9719	3403	8099	2760	6479	2118	4859	1475	3326	867
44	14364	4646	12928	4146	11491	3646	10055	3146	8618	2647	7182	2147	5746	1647	4309	1147	2950	674
45	14021	4646	12619	4146	11217	3646	9815	3146	8413	2647	7011	2147	5609	1647	4206	1147	2879	674
46	13679	4646	12311	4146	10943	3646	9575	3146	8207	2647	6839	2147	5472	1647	4104	1147	2809	674

Heating

Outdoor Temperature DB (°C)	Parts Load (%)																			
	100		90		80		70		60		50		40		30		20		10	
	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P
-27	6700	3672	6030	3290	5360	2907	4690	2525	4020	2142	3350	1760	2680	1377	2010	995	1340	612	1233	551
-26	7114	3827	6403	3428	5691	3030	4980	2631	4269	2232	3557	1834	2846	1435	2134	1037	1423	638	1309	574
-25	7529	3981	6776	3567	6023	3152	5270	2737	4517	2323	3764	1908	3011	1493	2259	1078	1506	664	1385	597
-24	7943	4136	7149	3705	6354	3274	5560	2844	4766	2413	3971	1982	3177	1551	2383	1120	1589	690	1461	621
-23	8357	4291	7521	3844	6686	3397	5850	2950	5014	2503	4179	2056	3343	1609	2507	1162	1671	715	1538	644
-22	8771	4445	7894	3982	7017	3519	6140	3056	5263	2593	4386	2130	3509	1667	2631	1204	1754	741	1614	667
-21	9186	4600	8267	4121	7349	3642	6430	3162	5511	2683	4593	2204	3674	1725	2756	1246	1837	767	1690	690
-20	9600	4754	8640	4259	7680	3764	6720	3269	5760	2774	4800	2278	3840	1783	2880	1288	1920	793	1766	713
-19	10040	4888	9036	4379	8032	3870	7028	3361	6024	2851	5020	2342	4016	1833	3012	1324	2008	815	1847	733
-18	10480	5022	9432	4498	8384	3975	7336	3452	6288	2929	5240	2406	4192	1883	3144	1360	2096	837	1928	754
-17	10920	5155	9828	4618	8736	4081	7644	3544	6552	3007	5460	2470	4368	1933	3276	1396	2184	859	2009	774
-16	11360	5289	10224	4738	9088	4187	7952	3636	6816	3085	5680	2534	4544	1983	3408	1433	2272	882	2090	794
-15	11800	5422	10620	4857	9440	4293	8260	3728	7080	3163	5900	2598	4720	2034	3540	1469	2360	904	2171	814
-14	12138	5587	10924	5005	9710	4423	8496	3841	7283	3259	6069	2678	4855	2096	3641	1514	2428	932	2233	838
-13	12475	5753	11228	5153	9980	4554	8733	3955	7485	3356	6238	2757	4990	2158	3743	1558	2495	959	2295	863
-12	12813	5918	11531	5302	10250	4685	8969	4069	7688	3452	6406	2836	5125	2219	3844	1603	2563	987	2358	888
-11	13150	6083	11835	5450	10520	4816	9205	4182	7890	3549	6575	2915	5260	2281	3945	1648	2630	1014	2420	913
-10	13488	6248	12139	5598	10790	4947	9441	4296	8093	3645	6744	2994	5395	2343	4046	1693	2698	1042	2482	938
-9	13825	6414	12443	5746	11060	5078	9678	4410	8295	3742	6913	3073	5530	2405	4148	1737	2765	1069	2544	962
-8	14163	6579	12746	5894	11330	5208	9914	4523	8498	3838	7081	3153	5665	2467	4249	1782	2833	1097	2606	987
-7	14500	6744	13050	6042	11600	5339	10150	4637	8700	3934	7250	3232	5800	2529	4350	1827	2900	1124	2668	1012
-6	14880	6893	13392	6175	11904	5457	10416	4739	8928	4021	7440	3303	5952	2585	4464	1867	2976	1149	2738	1034
-5	15260	7041	13734	6308	12208	5574	10682	4841	9156	4108	7630	3374	6104	2641	4578	1907	3052	1174	2808	1057
-4	15640	7189	14076	6441	12512	5692	10948	4943	9384	4194	7820	3445	6256	2696	4692	1948	3128	1199	2878	1079
-3	16020	7338	14418	6574	12816	5809	11214	5045	9612	4281	8010	3516	6408	2752	4806	1988	3204	1223	2948	1101
-2	16400	7486	14760	6706	13120	5927	11480	5147	9840	4367	8200	3587	6560	2808	4920	2028	3280	1248	3018	1123
-1	16780	7635	15102	6839	13424	6044	11746	5249	10068	4454	8390	3659	6712	2863	5034	2068	3356	1273	3088	1146
0	17160	7783	15444	6972	13728	6162	12012	5351	10296	4540	8580	3730	6864	2919	5148	2108	3432	1298	3157	1168
1	17540	7931	15786	7105	14032	6279	12278	5453	10524	4627	8770	3801	7016	2975	5262	2149	3508	1322	3227	1190
2	17920	8080	16128	7238	14336	6397	12544	5555	10752	4713	8960	3872	7168	3030	5376	2189	3584	1347	3297	1212
3	18380	8246	16542	7387	14704	6529	12866	5670	11028	4811	9190	3952	7352	3093	5514	2234	3676	1375	3382	1237
4	18846	8413	16961	7537	15077	6660	13192	5784	11307	4908	9423	4032	7538	3155	5654	2279	3769	1403	3468	1262
5	19317	8580	17385	7686	15454	6792	13522	5899	11590	5005	9658	4111	7727	3218	5795	2324	3863	1430	3554	1287
6	24355	8201	21919	7347	19484	6493	17048	5638	14613	4784	12177	3930	9742	3076	7306	2222	4871	1367	4481	1231
7	25000	8330	22500	7462	20000	6595	17500	5727	15000	4859	12500	3992	10000	3124	7500	2256	5000	1389	4600	1250
8	25645	8459	23081	7578	20516	6697	17952	5816	15387	4935	12823	4054	10258	3172	7694	2291	5129	1410	4719	1269
9	26290	8588	23661	7693	21032	6799	18403	5904	15774	5010	13145	4115	10516	3221	7887	2326	5258	1432	4837	1289
10	26935	8717	24242	7809	21548	6901	18855	5993	16161	5085	13468	4177	10774	3269	8081	2361	5387	1453	4956	1308
11	27581	8846	24823	7925	22065	7003	19306	6082	16548	5160	13790	4239	11032	3318	8274	2396	5516	1475	5075	1327
12	28226	8975	25403	8040	22581	7105	19758	6170	16935	5236	14113	4301	11290	3366	8468	2431	5645	1496	5194	1347
13	28871	9104	25984	8156	23097	7207	20210	6259	17323	5311	14435	4363	11548	3414	8661	2466	5774	1518	5312	1366
14	29566	9235	26569	8271	23613	7315	20666	6346	17710	5396	14757	4425	11806	3467	8854	2497	5903	1540	5439	1385
15	23342	9325	21008	8470	18674	7415	16340	3661	14005	3106	11671	2552	9337	1997	7003	1442	4668	888	4295	799
16	23717	9325	21345	8470	18973	7415	16602	3661	14230	3106	11858	2552	9487	1997	7115	1442	4743	888	4364	799
17	24090	9325	21681	8470	19272	7415	16863	3661	14454	3106	12045	2552	9636	1997	7227	1442	4818	888	4432	799
18	24460	9325	22014	8470	19568	7415	17122	3661	14676	3106	12230	2552	9784	1997	7338	1442	4892	888	4501	799
19	24830	9325	22347	8470	19864	7415	17381	3661	14898	3106	12415	2552	9932	1997	7449	1442	4966	888	4569	799
20	25197	9325	22678	8470	20158	7415	17638	3661	15118	3106	12599	2552	10079	1997	7559	1442	5039	888	4636	799
21	25563	9325	23007	8470	20451	7415	17894	3661	15338	3106	12782	2552	10225	1997	7669	1442	5113	888	4704	799
22	25928	9325	23335	8470	20742	7415	18150	3661	15557	3106	12964	2552	10371	1997	7778	1442	5186	888	4771	799
23	26291	9325	23662	8470	21033	7415	18404	3661	15775	3106	13146	2552	10516	1997	7887	1442	5258	888	4838	799
24	26653	9325	23988	8470	21322	7415	18657	3661	15992	3106	13326	2552	10661	1997	7996	1442	5331	888	4904	799

Combination <Rated condition>

Indoor: RAV-HM1101FT-EN/ES×2
Outdoor: RAV-GM2243AT8(J)P-E

Operation range	Cooling		Heating	
	Q	P	Q	P
MINIMUM	W 4600	1300	4600	1250
Night operation 1	W 10000	1964	11200	2190

*When outside air temperature is 40°C or more, the night operation does not operate.

Cooling

Outdoor Temperature DB (°C)	Parts Load (%)																	
	100		90		80		70		60		50		40		30		20	
	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P
20	11925	1542	10733	1445	9540	1349	8348	1252	7155	1156	5963	1059	5486	1021	5486	1021	5486	1021
21	11797	1570	10617	1472	9437	1373	8258	1275	7078	1177	5898	1078	5426	1039	5426	1039	5426	1039
22	11668	1598	10502	1498	9335	1398	8168	1298	7001	1198	5834	1098	5367	1058	5367	1058	5367	1058
23	11540	1626	10386	1524	9232	1423	8078	1321	6924	1219	5770	1117	5308	1076	5308	1076	5308	1076
24	11412	1654	10271	1551	9129	1447	7988	1344	6847	1240	5706	1136	5249	1095	5249	1095	5249	1095
25	11283	1682	10155	1577	9027	1472	7898	1366	6770	1261	5642	1156	5190	1114	5190	1114	5190	1114
26	11155	1711	10040	1604	8924	1496	7809	1389	6693	1282	5578	1175	5131	1132	5131	1132	5131	1132
27	11027	1739	9924	1630	8821	1521	7719	1412	6616	1303	5513	1194	5072	1151	5072	1151	5072	1151
28	10898	1767	9809	1656	8719	1546	7629	1435	6539	1324	5449	1214	5013	1170	5013	1170	5013	1170
29	10770	1795	9693	1683	8616	1570	7539	1458	6462	1346	5385	1233	4954	1188	4954	1188	4954	1188
30	10642	1823	9578	1709	8513	1595	7449	1481	6385	1367	5321	1252	4895	1207	4895	1207	4895	1207
31	10513	1851	9462	1735	8411	1620	7359	1504	6308	1388	5257	1272	4836	1225	4836	1225	4836	1225
32	10385	1880	9347	1762	8308	1644	7270	1527	6231	1409	5193	1291	4777	1244	4777	1244	4777	1244
33	10257	1908	9231	1788	8205	1669	7180	1549	6154	1430	5128	1311	4718	1263	4718	1263	4718	1263
34	10128	1936	9116	1815	8103	1693	7090	1572	6077	1451	5064	1330	4659	1281	4659	1281	4659	1281
35	10000	1964	9000	1841	8000	1718	7000	1595	6000	1472	5000	1349	4600	1300	4600	1300	4600	1300
36	9872	1992	8885	1867	7897	1743	6910	1618	5923	1493	4936	1369	4541	1319	4541	1319	4541	1319
37	9743	2020	8769	1894	7795	1767	6820	1641	5846	1514	4872	1388	4482	1337	4482	1337	4482	1337
38	9615	2048	8654	1920	7692	1792	6731	1664	5769	1535	4808	1407	4423	1356	4423	1356	4423	1356
39	9216	1928	8294	1807	7373	1687	6451	1566	5529	1445	4608	1325	4239	1276	4239	1276	4239	1276
40*	18072	6764	16265	6052	14458	5339	12650	4626	10843	3913	9036	3201	7229	2488	5422	1775	4157	1276
41*	17713	6764	15941	6052	14170	5339	12399	4626	10628	3913	8856	3201	7085	2488	5314	1775	4074	1276
42*	17353	6764	15618	6052	13883	5339	12147	4626	10412	3913	8677	3201	6941	2488	5206	1775	3991	1276
43*	16994	6764	15294	6052	13595	5339	11896	4626	10196	3913	8497	3201	6797	2488	5098	1775	3909	1276
44*	15070	5261	13563	4707	12056	4152	10549	3598	9042	3044	7355	2489	6028	1935	4521	1381	3466	993
45*	14711	5261	13240	4707	11768	4152	10297	3598	8826	3044	7176	2489	5884	1935	4413	1381	3383	993
46*	14351	5261	12916	4707	11481	4152	10046	3598	8611	3044	7176	2489	5740	1935	4305	1381	3301	993

Heating

Outdoor Temperature DB (°C)	Parts Load (%)																			
	100		90		80		70		60		50		40		30		20		10	
	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P
-27	3034	881	2731	817	2428	753	2124	688	1821	624	1517	560	1246	503	1246	503	1246	503	1246	503
-26	3222	918	2900	851	2578	784	2255	717	1933	650	1611	584	1323	524	1323	524	1323	524	1323	524
-25	3410	955	3069	885	2728	816	2387	746	2046	677	1705	607	1400	545	1400	545	1400	545	1400	545
-24	3597	992	3238	920	2878	848	2518	775	2158	703	1799	631	1477	566	1477	566	1477	566	1477	566
-23	3785	1029	3406	954	3028	879	2649	804	2271	729	1892	654	1555	587	1555	587	1555	587	1555	587
-22	3973	1066	3575	989	3178	911	2781	833	2384	756	1986	678	1632	609	1632	609	1632	609	1632	609
-21	4160	1103	3744	1023	3328	943	2912	862	2496	782	2080	702	1709	630	1709	630	1709	630	1709	630
-20	4348	1140	3913	1057	3478	974	3043	891	2609	808	2174	725	1786	651	1786	651	1786	651	1786	651
-19	4547	1172	4092	1087	3638	1002	3183	916	2728	831	2274	745	1868	669	1868	669	1868	669	1868	669
-18	4746	1204	4272	1117	3797	1029	3322	941	2848	854	2373	766	1949	687	1949	687	1949	687	1949	687
-17	4946	1237	4451	1146	3957	1056	3462	966	2967	876	2473	786	2031	706	2031	706	2031	706	2031	706
-16	5145	1269	4630	1176	4116	1084	3601	991	3087	899	2572	807	2113	724	2113	724	2113	724	2113	724
-15	5344	1301	4810	1206	4275	1111	3741	1016	3207	922	2672	827	2195	742	2195	742	2195	742	2195	742
-14	5497	1340	4947	1243	4398	1145	3848	1047	3298	950	2749	852	2258	765	2258	765	2258	765	2258	765
-13	5650	1380	5085	1279	4520	1179	3955	1078	3390	978	2825	877	2320	788	2320	788	2320	788	2320	788
-12	5803	1420	5222	1316	4642	1213	4062	1109	3482	1006	2901	903	2383	810	2383	810	2383	810	2383	810
-11	5956	1459	5360	1353	4764	1247	4169	1140	3573	1034	2978	928	2446	833	2446	833	2446	833	2446	833
-10	6108	1499	5498	1390	4887	1280	4276	1171	3665	1062	3054	953	2509	855	2509	855	2509	855	2509	855
-9	6261	1538	5635	1426	5009	1314	4383	1202	3757	1090	3131	978	2572	878	2572	878	2572	878	2572	878
-8	6414	1578	5773	1463	5131	1348	4490	1233	3849	1118	3207	1003	2634	901	2634	901	2634	901	2634	901
-7	6567	1618	5910	1500	5254	1382	4597	1264	3940	1146	3284	1029	2697	923	2697	923	2697	923	2697	923
-6	6739	1653	6065	1533	5391	1412	4717	1292	4043	1172	3370	1051	2768	944	2768	944	2768	944	2768	944
-5	6911	1689	6220	1566	5529	1443	4838	1320	4147	1197	3456	1074	2839	964	2839	964	2839	964	2839	964
-4	7083	1724	6375	1599	5667	1473	4958	1348	4250	1222	3542	1096	2909	984	2909	984	2909	984	2909	984
-3	7255	1760	6530	1632	5804	1504	5079	1375	4353	1247	3628	1119	2980	1005	2980	1005	2980	1005	2980	1005
-2	7428	1796	6685	1665	5942	1534	5199	1403	4457	1273	3714	1142	3051	1025	3051	1025	3051	1025	3051	1025
-1	7600	1831	6840	1698	6080	1565	5320	1431	4560	1298	3800	1164	3121	1045	3121	1045	3121	1045	3121	1045
0	7772	1867	6995	1731	6217	1595	5440	1459	4663	1323	3886	1187	3192	1066	3192	1066	3192	1066	3192	1066
1	7944	1902	7149	1764	6355	1625	5561	1487	4766	1348	3972	1210	3263	1086	3263	1086	3263	1086	3263	1086
2	8116	1938	7304	1797	6493	1656	5681	1515	4870	1373	4058	1232	3333	1106	3333	1106	3333	1106	3333	1106
3	8249	1964	7424	1821	6599	1678	5774	1535	4949	1392	4124	1249	3388	1121	3388	1121	3388	1121	3388	1121
4	8382	1990	7544	1845	6705	1700	5867	1555	5029	1410	4191	1265	3443	1136	3443	1136	3443	1136	3443	1136
5	8515	2016	7663	1869	6812	1723	5960	1576	5109	1429	4257	1282	3497	1151	3497	1151	3497	1151	3497	1151
6	10911	2156	9820	1999	8729	1842	7638	1685	6547	1528	5455	1371	4481	1231	4481	1231	4481	1231	4481	1231
7	11200	2190	10080	2030	8960	1871	7840	1711	6720	1552	5600	1392	4600	1250	4600	1250	4600	1250	4600	1250
8	11489	2224	10340	2062	9191	1900	8042	1738	6893	1576	5745	1414	4719	1269	4719	1269	4719	1269	4719	1269
9	11778	2258	10600	2093	9422	1929	8245	1764	7067	1600	5889	1436	4837	1289	4837	1289	4837	1289	4837	1289
10	12067	2292	10860	2125	9654	1958	8447	1791	7240	1624	6034	1457	4956	1308	4956	1308	4956	1308	4956	1308
11	12356	2326	11121	2158	9885	1987	8649	1817	7414	1648	6178	1479	5075	1327	5075	1327	5075	1327	5075	1327
12	12645	2360	11381	2188	10116	2016	8852	1844	7587	1672	6323	1500	5194	1347	5194	1347	5194	1347	5194	1347
13	12934	2393	11641	2219	10347	2045	9054	1870	7761	1696	6467	1522	5312	1366	5312	1366	5312	1366	5312	1366
14	13223	2427	11901	2251	10579	2074	9256	1897	7934	1720	6612	1543	5431	1385	5431	1385	5431	1385	5431	1385
15	13512	2461	12161	2282	10810	2103	9459	1923	8107	1744	6756	1565	5550	1405	5550	1405	5550	1405	5550	1405
16	13801	2495	12421	2313	11041	2132	9661	1950	8281	1768	6901	1586	5668	1424	5668	1424	5668	1424	5668	1424
17	14090	2529	12681	2345	11272	2161	9863	1976	8454	1792	7045	1608	5787	1444	5787	1444	5787	1444	5787	1444
18	14379	2563	12941	2376	11503	2190	10066	2003	8628	1816	7190	1630	5906	1463	5906	1463	5906	1463	5906	1463
19	14668	2597	13202	2408	11735	2219	10268	2029	8801	1840	7334	1651	6025	1482	6025	1482	6025	1482	6025	1482
20	14957	2631	13462	2439	11966	2248	10470	2056	8974	1864	7479	1673	6143	1502	6143	1502	6143	1502	6143	1502
21	15246	2665	13722	2471	12197	2277	10673	2082	9148	1888	7623	1694	6262	1521	6262	1521	6262	1521	6262	1521
22	15535	2699	13982	2502	12428	2306	10875	2109	9321	1912	7768	1716	6381	1540	6381	1540	6381	1540	6381	1540
23	15825	2733	14242	2534	12660	2334	11077	2135	9495	1936	7912	1737	6499	1560	6499	1560	6499	1560	6499	1560
24	16114	2766	14502	2565	12891	2363	11279	2162	9668	1960	8057	1759	6618	1579	6618	1579	6618	1579	6618	1579

Combination <Rated condition>

Indoor: RAV-HM1101FT-EN/ES×2
Outdoor: RAV-GM2243AT8(J)P-E

Operation range	Cooling		Heating	
	Q	P	Q	P
MINIMUM	W 4600	1300	4600	1250
Night operation 2	W 14000	2941	15680	3597

*When outside air temperature is 40°C or more, the night operation does not operate.

Outdoor Temperature DB (°C)	Parts Load (%)															
	100		90		80		70		60		50		40		30	
	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P
20	16695	2309	15026	2117	13356	1925	11687	1733	10017	1541	8348	1349	6678	1158	5486	1021
21	16515	2351	14864	2155	13212	1960	11561	1765	9909	1569	8258	1374	6606	1179	5426	1039
22	16336	2393	14702	2194	13069	1995	11435	1796	9801	1598	8168	1399	6534	1200	5367	1058
23	16156	2435	14540	2233	12925	2030	11309	1828	9694	1626	8078	1423	6462	1221	5308	1076
24	15976	2477	14379	2271	12781	2066	11183	1860	9586	1654	7988	1448	6391	1242	5249	1095
25	15797	2519	14217	2310	12637	2101	11058	1891	9478	1682	7898	1473	6319	1263	5190	1114
26	15617	2562	14055	2349	12494	2136	10932	1923	9370	1710	7809	1497	6247	1284	5131	1132
27	15437	2604	13894	2387	12350	2171	10806	1955	9262	1738	7719	1522	6175	1305	5072	1151
28	15258	2646	13732	2426	12206	2206	10680	1986	9155	1766	7629	1547	6103	1327	5013	1170
29	15078	2688	13570	2465	12062	2241	10555	2018	9047	1795	7539	1571	6031	1348	4954	1188
30	14898	2730	13409	2503	11919	2276	10429	2050	8939	1823	7449	1596	5959	1369	4895	1207
31	14719	2772	13247	2542	11775	2312	10303	2081	8831	1851	7359	1620	5887	1390	4836	1225
32	14539	2815	13085	2581	11631	2347	10177	2113	8723	1879	7270	1645	5816	1411	4777	1244
33	14359	2857	12923	2619	11487	2382	10052	2144	8616	1907	7180	1670	5744	1432	4718	1263
34	14180	2899	12762	2658	11344	2417	9926	2176	8508	1935	7090	1694	5672	1453	4659	1281
35	14000	2941	12600	2697	11200	2452	9800	2208	8400	1963	7000	1719	5600	1475	4600	1300
36	13820	2983	12438	2735	11056	2487	9674	2239	8292	1992	6910	1744	5528	1496	4541	1319
37	13641	3025	12277	2774	10913	2522	9548	2271	8184	2020	6820	1768	5456	1517	4482	1337
38	13461	3067	12115	2813	10769	2558	9423	2303	8077	2048	6731	1793	5384	1538	4423	1356
39	12902	2887	11612	2647	10322	2407	9031	2168	7741	1928	6451	1688	5161	1448	4239	1276
40*	18072	6764	16265	6052	14458	5339	12650	4626	10843	3913	9036	3201	7229	2488	5422	1775
41*	17713	6764	15941	6052	14170	5339	12399	4626	10628	3913	8856	3201	7085	2488	5314	1775
42*	17353	6764	15618	6052	13883	5339	12147	4626	10412	3913	8677	3201	6941	2488	5206	1775
43*	16994	6764	15294	6052	13595	5339	11896	4626	10196	3913	8497	3201	6797	2488	5098	1775
44*	15070	5261	13563	4707	12056	4152	10549	3598	9042	3044	7535	2489	6028	1935	4521	1381
45*	14711	5261	13240	4707	11768	4152	10297	3598	8826	3044	7355	2489	5884	1935	4413	1381
46*	14351	5261	12916	4707	11481	4152	10046	3598	8611	3044	7176	2489	5740	1935	4305	1381

Heating		Parts Load (%)																		
Outdoor Temperature DB (°C)	100		90		80		70		60		50		40		30		20		10	
	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P
-27	4248	1447	3823	1313	3399	1180	2974	1046	2549	912	2124	779	1699	645	1274	512	1246	503	1246	503
-26	4511	1508	4060	1368	3609	1229	3158	1090	2707	951	2255	812	1804	672	1353	533	1323	524	1323	524
-25	4774	1569	4296	1424	3819	1279	3341	1134	2864	989	2387	844	1909	700	1432	555	1400	545	1400	545
-24	5036	1629	4533	1479	4029	1329	3525	1178	3022	1028	2518	877	2014	727	1511	576	1477	566	1477	566
-23	5299	1690	4769	1534	4239	1378	3709	1222	3179	1066	2649	910	2120	754	1590	598	1555	587	1555	587
-22	5562	1751	5005	1590	4449	1428	3893	1266	3337	1104	2781	943	2225	781	1668	619	1632	609	1632	609
-21	5824	1812	5242	1645	4659	1478	4077	1310	3495	1143	2912	976	2330	808	1747	641	1709	630	1709	630
-20	6087	1873	5478	1700	4870	1527	4261	1354	3652	1181	3043	1008	2435	835	1826	662	1786	651	1786	651
-19	6366	1926	5729	1748	5093	1570	4456	1392	3820	1214	3183	1037	2546	859	1910	681	1868	669	1868	669
-18	6645	1978	5980	1796	5316	1613	4651	1430	3987	1248	3322	1065	2658	882	1993	700	1949	687	1949	687
-17	6924	2031	6232	1843	5539	1656	4847	1468	4154	1281	3462	1093	2770	906	2077	718	2031	706	2031	706
-16	7203	2084	6483	1891	5762	1699	5042	1506	4322	1314	3601	1122	2881	929	2161	737	2113	724	2113	724
-15	7482	2136	6734	1939	5986	1742	5237	1544	4489	1347	3741	1150	2993	953	2245	755	2195	742	2195	742
-14	7696	2201	6926	1998	6157	1795	5387	1591	4618	1388	3848	1185	3078	982	2309	778	2258	765	2258	765
-13	7910	2266	7119	2057	6328	1848	5537	1639	4746	1429	3955	1220	3164	1011	2373	801	2320	788	2320	788
-12	8124	2331	7311	2116	6499	1901	5687	1686	4874	1470	4062	1255	3250	1040	2437	824	2383	810	2383	810
-11	8338	2397	7504	2175	6670	1954	5837	1733	5003	1511	4169	1290	3335	1069	2501	848	2446	833	2446	833
-10	8552	2462	7697	2234	6841	2007	5986	1780	5131	1552	4276	1325	3421	1098	2566	871	2509	855	2509	855
-9	8766	2527	7889	2293	7013	2060	6136	1827	5260	1594	4383	1360	3506	1127	2630	894	2572	878	2572	878
-8	8980	2592	8082	2353	7184	2113	6286	1874	5388	1635	4490	1395	3592	1156	2694	917	2634	901	2634	901
-7	9194	2657	8274	2412	7355	2166	6436	1921	5516	1676	4597	1430	3678	1185	2758	940	2697	923	2697	923
-6	9435	2716	8491	2465	7548	2214	6604	1963	5661	1713	4717	1462	3774	1211	2830	960	2748	944	2748	944
-5	9676	2774	8708	2518	7741	2262	6773	2006	5805	1749	4838	1493	3870	1237	2903	981	2839	964	2839	964
-4	9917	2832	8925	2571	7933	2309	6942	2048	5950	1786	4958	1525	3967	1263	2975	1002	2909	984	2909	984
-3	10158	2891	9142	2624	8126	2357	7110	2090	6095	1823	5079	1556	4063	1289	3047	1022	2980	1005	2980	1005
-2	10399	2949	9359	2677	8319	2405	7279	2132	6239	1860	5199	1588	4159	1315	3120	1043	3051	1025	3051	1025
-1	10639	3008	9576	2730	8512	2452	7448	2175	6384	1897	5320	1619	4256	1341	3192	1064	3121	1045	3121	1045
0	10880	3066	9792	2783	8704	2500	7616	2217	6528	1934	5440	1651	4352	1367	3264	1084	3142	1066	3192	1066
1	11121	3125	10009	2836	8897	2548	7785	2259	6673	1971	5561	1682	4449	1394	3336	1105	3263	1086	3263	1086
2	11362	3183	10226	2889	9090	2595	7954	2301	6817	2007	5681	1714	4545	1420	3409	1126	3333	1106	3333	1106
3	11548	3226	10394	2928	9239	2630	8084	2332	6929	2034	5774	1737	4619	1439	3465	1141	3388	1121	3388	1121
4	11735	3269	10561	2967	9388	2665	8214	2363	7041	2061	5867	1760	4694	1458	3520	1156	3443	1136	3443	1136
5	11921	3312	10729	3006	9537	2700	8344	2394	7152	2088	5960	1783	4768	1477	3576	1171	3497	1151	3497	1151
6	15275	3541	13748	3214	12220	2887	10693	2560	9165	2233	7638	1906	6110	1579	4583	1252	4481	1231	4481	1231
7	15680	3597	14112	3265	12544	2933	10976	2601	9408	2268	7840	1936	6272	1604	4704	1272	4600	1250	4600	1250
8	16085	3653	14476	3315	12868	2978	11259	2641	9651	2304	8042	1966	6434	1629	4825	1292	4719	1269	4719	1269
9	16489	3708	14840	3366	13191	3024	11543	2681	9894	2339	8245	1996	6596	1654	4947	1311	4837	1289	4837	1289
10	16894	3764	15205	3417	13515	3069	11826	2721	10136	2374	8447	2026	6758	1679	5068	1331	4956	1308	4956	1308
11	17299	3820	15569	3467	13839	3114	12109	2762	10379	2409	8649	2056	6919	1704	5190	1351	5075	1327	5075	1327
12	17703	3875	15933	3518	14163	3160	12392	2802	10622	2444	8852	2086	7081	1728	5311	1371	5194	1347	5194	1347
13	18108	3931	16297	3568	14486	3205	12676	2842	10865	2479	9054	2116	7243	1753	5432	1390	5312	1366	5312	1366
14	18513	3987	16661	3619	14810	3251	12959	2882	11108	2514	9256	2146	7405	1778	5554	1410	5431	1385	5431	1385
15	18917	4043	17025	3669	15134	3296	13242	2923	11350	2549	9459	2176	7567	1803	5675	1430	5550	1405	5550	1405
16	19322	4098	17390	3720	15457	3341	13525	2963	11593	2585	9661	2206	7729	1828	5797	1449	5668	1424	5668	1424
17	19726	4154	17754	3770	15781	3387	13809	3003	11836	2620	9863	2236	7891	1853	5918	1469	5787	1444	5787	1444
18	20131	4210	18118	3821	16105	3432	14092	3044	12079	2655	10066	2266	8052	1877	6039	1489	5906	1463	5906	1463
19	20536	4265	18482	3871	16429	3478	14375	3084	12321	2690	10268	2296	8214	1902	6161	1508	6025	1482	6025	1482
20	20940	4321	18846	3922	16752	3523	14658	3124	12564	2725	10470	2326	8376	1927	6282	1528	6143	1502	6143	1502
21	21345	4377	19211	3973	17076	3568	14942	3164	12807	2760	10673	2356	8538	1952	6404	1548	6262	1521	6262	1521
22	21750	4432	19575	4023	17400	3614	15225	3205	13050	2795	10875	2386	8700	1977	6525	1567	6381	1540	6381	1540
23	22154	4488	19939	4074	17723	3659	15508	3245	13293	2830	11077	2416	8862	2002	6646	1587	6499	1560	6499	1560
24	22559	4544	20303	4124	18047	3705	15791	3285	13535	2866	11279	2446	9024	2026	6768	1607	6618	1579	6618	1579

Combination <Rated condition>

Indoor: RAV-HM1101FT-EN/ES×2
Outdoor: RAV-GM2243AT8(J)P-E

Operation range		Cooling		Heating	
		Q	P	Q	P
MINIMUM	W	4600	1300	4600	1250
Night operation 3	W	18000	4657	20160	5293

*When outside air temperature is 40°C or more, the night operation does not operate.

Cooling

Outdoor Temperature DB (°C)	Parts Load (%)																			
	100		90		80		70		60		50		40		30		20		10	
	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P
20	21465	3656	19319	3302	17172	2948	15026	2594	12879	2240	10733	1886	8586	1532	6440	1178	5486	1021	5486	1021
21	21234	3722	19111	3362	16987	3002	14864	2641	12740	2281	10617	1920	8494	1560	6370	1199	5426	1039	5426	1039
22	21003	3789	18903	3422	16802	3055	14702	2689	12602	2322	10502	1955	8401	1588	6301	1221	5367	1058	5367	1058
23	20772	3856	18695	3483	16618	3109	14540	2736	12463	2362	10386	1989	8309	1616	6232	1242	5308	1076	5308	1076
24	20541	3923	18487	3543	16433	3163	14379	2783	12325	2403	10271	2024	8216	1644	6162	1264	5249	1095	5249	1095
25	20310	3989	18279	3603	16248	3217	14217	2831	12186	2444	10155	2058	8124	1672	6093	1285	5190	1114	5190	1114
26	20079	4056	18071	3663	16063	3271	14055	2878	12047	2485	10040	2092	8032	1700	6024	1307	5131	1132	5131	1132
27	19848	4123	17863	3724	15878	3325	13894	2925	11909	2526	9924	2127	7939	1728	5954	1328	5072	1151	5072	1151
28	19617	4190	17655	3784	15694	3378	13732	2973	11770	2567	9809	2161	7847	1756	5885	1350	5013	1170	5013	1170
29	19386	4256	17447	3844	15509	3432	13570	3020	11632	2608	9693	2196	7754	1784	5816	1371	4954	1188	4954	1188
30	19155	4323	17240	3905	15324	3486	13409	3067	11493	2649	9578	2230	7662	1812	5747	1393	4895	1207	4895	1207
31	18924	4390	17032	3965	15139	3540	13247	3115	11354	2690	9462	2265	7570	1839	5677	1414	4836	1225	4836	1225
32	18693	4457	16824	4025	14954	3594	13085	3162	11216	2731	9347	2299	7477	1867	5608	1436	4777	1244	4777	1244
33	18462	4523	16616	4085	14770	3647	12923	3209	11077	2771	9231	2333	7385	1895	5539	1457	4718	1263	4718	1263
34	18231	4590	16408	4146	14585	3701	12762	3257	10939	2812	9116	2368	7292	1923	5469	1479	4659	1281	4659	1281
35	18000	4657	16200	4206	14400	3755	12600	3304	10800	2853	9000	2402	7200	1951	5400	1500	4600	1300	4600	1300
36	17769	4724	15992	4266	14215	3809	12438	3352	10661	2894	8885	2437	7108	1979	5331	1522	4541	1319	4541	1319
37	17538	4791	15784	4327	14030	3863	12277	3399	10523	2935	8769	2471	7015	2007	5261	1543	4482	1337	4482	1337
38	17307	4857	15576	4387	13846	3917	12115	3446	10384	2976	8654	2506	6923	2035	5192	1565	4423	1356	4423	1356
39	16588	4572	14929	4129	13271	3687	11612	3244	9953	2801	8294	2358	6635	1916	4976	1473	4239	1276	4239	1276
40*	18072	6764	16265	6052	14458	5339	12650	4626	10843	3913	9036	3201	7229	2488	5422	1775	4157	1276	4157	1276
41*	17713	6764	15941	6052	14170	5339	12399	4626	10628	3913	8856	3201	7085	2488	5314	1775	4074	1276	4074	1276
42*	17353	6764	15618	6052	13883	5339	12147	4626	10412	3913	8677	3201	6941	2488	5206	1775	3991	1276	3991	1276
43*	16994	6764	15294	6052	13595	5339	11896	4626	10196	3913	8497	3201	6797	2488	5098	1775	3909	1276	3909	1276
44*	15070	5261	13563	4707	12056	4152	10549	3598	9042	3044	7535	2489	6028	1935	4521	1381	3466	993	3466	993
45*	14711	5261	13240	4707	11768	4152	10297	3598	8826	3044	7355	2489	5884	1935	4413	1381	3383	993	3383	993
46*	14351	5261	12916	4707	11481	4152	10046	3598	8611	3044	7176	2489	5740	1935	4305	1381	3301	993	3301	993

Heating

Outdoor Temperature DB (°C)	Parts Load (%)																			
	100		90		80		70		60		50		40		30		20		10	
	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P
-27	5462	2129	4916	1918	4370	1707	3823	1497	3277	1286	2731	1075	2185	865	1639	654	1246	503	1246	503
-26	5800	2218	5220	1999	4640	1779	4060	1560	3480	1340	2900	1121	2320	901	1740	682	1323	524	1323	524
-25	6137	2308	5524	2080	4910	1851	4296	1623	3682	1394	3069	1166	2455	938	1841	709	1400	545	1400	545
-24	6475	2398	5828	2160	5180	1923	4533	1686	3885	1449	3238	1211	2590	974	1943	737	1477	566	1477	566
-23	6813	2487	6132	2241	5450	1995	4769	1749	4088	1503	3406	1257	2725	1010	2044	764	1555	587	1555	587
-22	7151	2577	6436	2322	5720	2067	5005	1812	4290	1557	3575	1302	2860	1047	2145	792	1632	609	1632	609
-21	7488	2667	6740	2403	5991	2139	5242	1875	4493	1611	3744	1347	2995	1083	2247	819	1709	630	1709	630
-20	7826	2756	7043	2483	6261	2211	5478	1938	4696	1665	3913	1392	3130	1120	2348	847	1786	651	1786	651
-19	8185	2834	7366	2553	6548	2273	5729	1992	4911	1712	4092	1431	3274	1151	2455	871	1868	669	1868	669
-18	8543	2911	7689	2623	6835	2335	5980	2047	5126	1759	4272	1471	3417	1183	2563	894	1949	687	1949	687
-17	8902	2989	8012	2693	7122	2397	6232	2101	5341	1805	4451	1510	3561	1214	2671	918	2031	706	2031	706
-16	9261	3066	8335	2763	7409	2459	6483	2156	5557	1852	4630	1549	3704	1245	2778	942	2113	724	2113	724
-15	9620	3143	8658	2832	7696	2521	6734	2210	5772	1899	4810	1588	3848	1277	2886	966	2195	742	2195	742
-14	9895	3239	8905	2919	7916	2598	6926	2277	5937	1957	4947	1636	3958	1316	2968	995	2258	765	2258	765
-13	10170	3335	9153	3005	8136	2675	7119	2345	6102	2015	5085	1685	4068	1355	3051	1025	2320	788	2320	788
-12	10445	3431	9400	3091	8356	2752	7311	2412	6267	2073	5222	1733	4178	1394	3133	1054	2383	810	2383	810
-11	10720	3527	9648	3178	8576	2829	7504	2480	6432	2131	5360	1782	4288	1433	3216	1084	2446	833	2446	833
-10	10995	3622	9896	3264	8796	2905	7697	2547	6597	2188	5498	1830	4398	1471	3299	1113	2509	855	2509	855
-9	11270	3718	10143	3350	9016	2982	7889	2614	6762	2246	5635	1878	4508	1510	3381	1142	2572	878	2572	878
-8	11546	3814	10391	3437	9236	3059	8082	2682	6927	2304	5773	1927	4618	1549	3464	1172	2634	901	2634	901
-7	11821	3910	10639	3523	9457	3136	8274	2749	7082	2362	5910	1975	4728	1588	3546	1201	2697	923	2697	923
-6	12130	3996	10917	3600	9704	3205	8491	2810	7278	2414	6065	2019	4852	1623	3639	1228	2768	944	2768	944
-5	12440	4082	11196	3678	9952	3274	8708	2870	7464	2466	6220	2062	4976	1658	3732	1254	2839	964	2839	964
-4	12750	4168	11475	3755	10200	3343	8925	2930	7650	2518	6375	2106	5100	1693	3825	1281	2909	984	2909	984
-3	13060	4254	11754	3833	10448	3412	9142	2991	7836	2570	6530	2149	5224	1728	3918	1307	2980	1005	2980	1005
-2	13370	4340	12033	3910	10696	3481	9359	3051	8022	2622	6685	2192	5348	1763	4011	1333	3051	1025	3051	1025
-1	13679	4426	12311	3988	10943	3550	9576	3112	8208	2674	6840	2236	5472	1798	4104	1360	3121	1045	3121	1045
0	13989	4512	12590	4065	11191	3619	9792	3172	8393	2726	6995	2279	5596	1833	4197	1386	3192	1066	3192	1066
1	14299	4598	12869	4143	11439	3688	10009	3233	8579	2778	7149	2323	5720	1868	4290	1413	3263	1086	3263	1086
2	14609	4684	13148	4221	11687	3757	10226	3293	8765	2830	7304	2366	5843	1903	4383	1439	3333	1106	3333	1106
3	14848	4747	13363	4277	11878	3807	10394	3338	8909	2868	7424	2398	5939	1928	4454	1459	3388	1121	3388	1121
4	15087	4810	13579	4334	12070	3858	10561	3382	9052	2906	7544	2430	6035	1954	4526	1478	3443	1136	3443	1136
5	15327	4873	13794	4393	12261	3909	10729	3426	9196	2944	7663	2462	6131	1979	4598	1497	3497	1151	3497	1151
6	19640	5211	17676	4695	15712	4180	13748	3664	11784	3148	9820	2632	7856	2117	5892	1601	4481	1231	4481	1231
7	20160	5293	18144	4769	16128	4245	14112	3722	12096	3198	10080	2674	8064	2150	6048	1626	4600	1250	4600	1250
8	20680	5375	18612	4843	16544	4311	14476	3779	12408	3247	10340	2715	8272	2183	6204	1651	4719	1269	4719	1269
9	21201	5457	19080	4917	16960	4377	14840	3837	12720	3297	10600	2757	8480	2217	6360	1677	4837	1289	4837	1289
10	21721	5539	19549	4991	17377	4443	15205	3894	13032	3346	10860	2798	8688	2250	6516	1702	4956	1308	4956	1308
11	22241	5621	20017	5065	17793	4508	15569	3952	13345	3396	11121	2839	8896	2283	6672	1727	5075	1327	5075	1327
12	22761	5703	20485	5138	18209	4574	15933	4010	13657	3445	11381	2881	9105	2317	6828	1752	5194	1347	5194	1347
13	23282	5785	20953	5212	18625	4640	16297	4067	13969	3495	11641	2922	9313	2350	6984	1777	5312	1366	5312	1366
14	23802	5867	21422	5286	19041	4705	16661	4125	14281	3544	11901	2964	9521	2383	7141	1803	5431	1385	5431	1385
15	24322	5949	21890	5360	19458	4771	17025	4183	14593	3594	12161	3005	9729	2416	7297	1828	5550	1405	5550	1405
16	24842	6031	22358	5434	19874	4837	17390	4240	14905	3643	12421	3047	9937	2450	7453	1853	5668	1424	5668	1424
17	25363	6113	22826	5508	20290	4903	17754	4298	15218	3693	12681	3088	10145	2483	7609	1878	5787	1444	5787	1444
18	25883	6195	23295	5581	20706	4968	18118	4355	15530	3741	12941	3129	10353	2516	7765	1903	5906	1463	5906	1463
19	26403	6276	23763	5655	21122	5034	18482	4413	15842	3792	13202	3171	10561	2550	7921	1928	6025	1482	6025	1482
20	26923	6358	24231	5729	21539	5100	18846	4471	16154	3841	13462	3212	10769	2583	8077	1954	6143	1502	6143	1502
21	27444	6440	24699	5803	21955	5166	19211	4528	16466	3891	13722	3254	10977	2616	8233	1979	6262	1521	6262	1521
22	27964	6522	25167	5877	22371	5231	19575	4586	16778	3940	13982	3295	11186	2649	8389	2004	6381	1540	6381	1540
23	28484	6604	25636	5951	22787	5297	19939	4644	17090	3990	14242	3336	11394	2683	8545	2029	6499	1560	6499	1560
24	29004	6686	26104	6025	23204	5363	20303	4701	17403	4039	14502	3378	11602	2716	8701	2054	6618	1579	6618	1579

Combination <Rated condition>

Indoor: RAV-HM1401FT-EN/ES×2
Outdoor: RAV-GM2803AT8(J)P-E

Operation range	Cooling		Heating	
	Q	P	Q	P
MINIMUM	W 4600	1330	4600	1280
RATING	W 23500	10550	24000	9670

Cooling

Outdoor Temperature DB (°C)	Parts Load (%)																			
	100		90		80		70		60		50		40		30		20		10	
	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P
20	28024	8282	25221	7382	22419	6482	19617	5582	16814	4682	14012	3782	11210	2882	8407	1982	5605	1082	5486	1044
21	27722	8433	24950	7517	22178	6600	19406	5684	16633	4768	13861	3851	11089	2935	8317	2018	5544	1102	5426	1063
22	27421	8584	24679	7651	21936	6719	19194	5786	16452	4853	13710	3920	10968	2987	8226	2055	5484	1122	5367	1082
23	27119	8735	24407	7786	21695	6837	18983	5888	16271	4939	13560	3989	10848	3040	8136	2091	5424	1142	5308	1101
24	26817	8887	24136	7921	21454	6955	18772	5990	16090	5024	13409	4058	10727	3093	8045	2127	5363	1161	5249	1120
25	26516	9038	23864	8056	21213	7074	18561	6092	15910	5109	13258	4127	10606	3145	7955	2163	5303	1181	5190	1139
26	26214	9189	23593	8191	20971	7192	18350	6194	15729	5195	13107	4196	10486	3198	7864	2199	5243	1201	5131	1158
27	25913	9340	23321	8325	20730	7310	18139	6295	15548	5280	12956	4266	10365	3251	7774	2236	5183	1221	5072	1177
28	25611	9491	23050	8460	20489	7429	17928	6397	15367	5366	12806	4335	10244	3303	7683	2272	5122	1240	5013	1197
29	25310	9643	22779	8595	20248	7547	17717	6499	15186	5451	12655	4404	10124	3356	7593	2308	5062	1260	4954	1216
30	25008	9794	22507	8730	20006	7665	17506	6601	15005	5537	12504	4473	10003	3408	7502	2344	5002	1280	4895	1235
31	24706	9945	22236	8864	19765	7784	17294	6703	14824	5622	12353	4542	9883	3461	7412	2380	4941	1300	4836	1254
32	24405	10096	21964	8999	19524	7902	17083	6805	14643	5708	12202	4611	9762	3514	7321	2417	4881	1319	4777	1273
33	24103	10248	21693	9134	19283	8020	16872	6907	14462	5793	12052	4680	9641	3566	7231	2453	4821	1339	4718	1292
34	23802	10399	21421	9269	19041	8139	16661	7009	14281	5879	11901	4749	9521	3619	7140	2489	4760	1359	4659	1311
35	23500	10550	21150	9404	18800	8257	16450	7111	14100	5964	11750	4818	9400	3672	7050	2525	4700	1379	4600	1330
36	23198	10701	20879	9538	18559	8376	16239	7213	13919	6050	11599	4887	9279	3724	6960	2561	4640	1399	4541	1349
37	22897	10852	20607	9673	18317	8494	16028	7315	13738	6135	11448	4956	9159	3777	6869	2598	4579	1418	4482	1368
38	22595	11004	20336	9808	18076	8612	15817	7417	13557	6221	11298	5025	9038	3829	6779	2634	4519	1438	4423	1387
39	19405	7559	17464	6738	15524	5916	13583	5095	11643	4274	9702	3452	7762	2631	5821	1809	3881	988	3798	953
40	18982	7559	17084	6738	15186	5916	13287	5095	11389	4274	9491	3452	7593	2631	5695	1809	3796	988	3716	953
41	18559	7559	16703	6738	14847	5916	12991	5095	11135	4274	9279	3452	7424	2631	5568	1809	3712	988	3633	953
42	18136	7559	16322	6738	14509	5916	12695	5095	10881	4274	9068	3452	7254	2631	5441	1809	3627	988	3550	953
43	17713	7559	15941	6738	14170	5916	12399	5095	10628	4274	8856	3452	7085	2631	5314	1809	3543	988	3467	953
44	15940	5879	14346	5241	12752	4602	11158	3963	9564	3324	7970	2685	6376	2046	4782	1407	3188	768	3120	741
45	15517	5879	13965	5241	12414	4602	10862	3963	9310	3324	7759	2685	6207	2046	4655	1407	3103	768	3037	741
46	15094	5879	13585	5241	12075	4602	10566	3963	9056	3324	7547	2685	6038	2046	4528	1407	3019	768	2955	741

Heating

Outdoor Temperature DB (°C)	Parts Load (%)																			
	100		90		80		70		60		50		40		30		20		10	
	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P
-27	6522	3536	5870	3157	5217	2777	4565	2397	3913	2018	3261	1638	2609	1259	1957	879	1304	500	1250	468
-26	6988	3750	6289	3348	5590	2945	4891	2543	4193	2140	3494	1738	2795	1335	2096	933	1398	530	1339	496
-25	7453	3965	6708	3539	5963	3113	5217	2688	4472	2262	3727	1837	2981	1411	2236	986	1491	560	1429	525
-24	7919	4179	7127	3730	6335	3282	5543	2833	4752	2385	3960	1936	3168	1488	2376	1039	1584	591	1518	553
-23	8385	4393	7547	3921	6708	3450	5870	2978	5031	2507	4193	2035	3354	1564	2516	1092	1677	621	1607	581
-22	8851	4607	7966	4113	7103	3618	6196	3124	5311	2629	4425	2135	3540	1640	2655	1146	1770	651	1696	610
-21	9317	4821	8385	4304	7453	3786	6522	3269	5590	2751	4658	2234	3727	1716	2795	1199	1863	681	1786	638
-20	9783	5036	8804	4495	7826	3955	6848	3414	5870	2874	4891	2333	3913	1793	2935	1252	1957	712	1875	667
-19	10109	5177	9098	4621	8087	4066	7076	3510	6065	2954	5054	2399	4043	1843	3033	1287	2022	732	1938	685
-18	10435	5318	9391	4748	8348	4177	7304	3606	6261	3035	5217	2464	4174	1893	3130	1322	2087	752	2000	704
-17	10761	5460	9685	4874	8609	4288	7533	3702	6457	3116	5380	2530	4304	1944	3228	1358	2152	772	2063	723
-16	11087	5601	9978	5000	8870	4399	7761	3798	6652	3196	5543	2595	4435	1994	3326	1393	2217	792	2125	741
-15	11413	5743	10272	5126	9130	4510	7989	3894	6848	3277	5707	2661	4565	2044	3424	1428	2283	812	2188	760
-14	11753	5918	10577	5283	9402	4647	8227	4012	7052	3377	5876	2742	4701	2107	3526	1471	2351	836	2253	783
-13	12092	6093	10883	5439	9674	4785	8465	4131	7255	3477	6046	2823	4837	2169	3628	1515	2418	861	2318	806
-12	12432	6268	11189	5595	9946	4922	8702	4250	7459	3577	6216	2904	4973	2231	3730	1558	2486	886	2383	830
-11	12772	6443	11495	5751	10217	5060	8940	4368	7663	3677	6386	2985	5109	2294	3832	1602	2554	910	2448	853
-10	13111	6618	11800	5908	10489	5197	9178	4487	7867	3777	6556	3066	5245	2356	3933	1646	2622	935	2513	876
-9	13451	6793	12106	6064	10761	5335	9416	4606	8071	3876	6726	3147	5380	2418	4035	1689	2690	960	2578	899
-8	13791	6968	12412	6220	11033	5472	9654	4724	8274	3976	6895	3228	5516	2481	4137	1733	2758	985	2643	922
-7	14130	7143	12717	6376	11304	5610	9891	4843	8478	4076	7065	3310	5652	2543	4239	1776	2826	1009	2708	946
-6	14493	7300	13043	6517	11594	5733	10145	4949	8696	4166	7246	3382	5797	2599	4348	1815	2899	1032	2778	966
-5	14855	7457	13370	6657	11884	5856	10399	5056	8913	4256	7428	3455	5942	2655	4457	1854	2971	1054	2847	987
-4	15217	7615	13696	6797	12174	5980	10652	5163	9130	4345	7609	3528	6087	2711	4565	1893	3043	1076	2917	1008
-3	15580	7772	14022	6938	12464	6103	10906	5269	9348	4435	7790	3601	6232	2767	4674	1932	3116	1098	2986	1029
-2	15942	7929	14348	7078	12754	6227	11159	5376	9565	4525	7971	3674	6377	2823	4783	1972	3188	1120	3056	1050
-1	16304	8086	14674	7218	13043	6350	11413	5482	9783	4614	8152	3746	6522	2879	4891	2011	3261	1143	3125	1070
0	16667	8243	15000	7358	13333	6474	11667	5589	10000	4704	8333	3819	6667	2934	5000	2050	3333	1165	3194	1091
1	17029	8400	15326	7499	13623	6597	11920	5695	10217	4794	8514	3892	6812	2990	5109	2089	3406	1187	3264	1112
2	17391	8558	15652	7639	13813	6720	12174	5802	10435	4883	8696	3965	6957	3046	5217	2128	3478	1209	3333	1133
3	17676	8673	15909	7742	14141	6811	12373	5880	10606	4949	8838	4018	7070	3087	5303	2156	3535	1226	3388	1148
4	17961	8788	16165	7847	14369	6901	12573	5958	10777	5015	8981	4027	7184	3128	5388	2185	3592	1242	3443	1163
5	18246	8903	16421	7947	14597	6992	12772	6036	10948	5080	9123	4125	7298	3169	5474	2214	3649	1258	3497	1178
6	23381	9520	21043	8498	18705	7477	16366	6455	14028	5433	11690	4411	9352	3389	7014	2367	4676	1345	4481	1260
7	24000	9670	21600	8632	19200	7594	16800	6556	14400	5518	12000	4480	9600	3442	7200	2404	4800	1366	4600	1280
8	24619	9820	22157	8766	19695	7712	17234	6658	14772	5604	12310	4550	9848	3496	7386	2442	4924	1388	4719	1300
9	25239	9969	22715	8899	20191	7829	17667	6759	15143	5689	12619	4619	10095	3549	7572	2479	5048	1409	4837	1320
10	25858	10119	23272	9033	20686	7947	18101	6861	15515	5775	12929	4688	10343	3602	7757	2516	5172	1430	4956	1339
11	26477	10269	23830	9167	21182	8064	18534	6962	15886	5860	13239	4758	10591	3656	7943	2553	5295	1451	5075	1359
12	27097	10419	24387	9300	21677	8182	18968	7064	16258	5945	13548	4827	10839	3709	8129	2591	5419	1472	5194	1379
13	27716	10568	24945	9434	22173	8300	19401	7165	16630	6031	13858	4897	11086	3762	8315	2628	5543	1493	5312	1399
14	28335	10718	25502	9568	22668	8417	19835	7267	17001	6116	14168	4966	11334	3815	8501	2665	5667	1515	5431	1419
15	28955	10868	26059	9701	23164	8535	20268	7368	17373	6202	14477	5035	11582	3869	8686	2702	5791	1536	5550	1439
16	29574	11018	26617	9835	23659	8652	20702	7470	17745	6287	14787	5105	11830	3922	8872	2740	5915	1557	5668	1458
17	24567	6919	22110	6176	19653	5433	17197	4691	14740	3948	12283	3206	9827	2463	7370	1720	4913	978	4709	916
18	24988	6919	22489	6176	19950	5433	17492	4691	14993	3948	12494	3206	9995	2463	7496	1720	4998	978	4789	916
19	25409	6919	22868	6176	20327	5433	17786	4691	15245	3948	12704	3206	10164	2463	7623	1720	5082	978	4870	916
20	25830	6919	23247	6176	20664	5433	18081	4691	15498	3948	12915	3206	10332	2463	7749	1720	5166	978	4951	916
21	26251	6919	23626	6176	21001	5433	18376	4691	15751	3948	13126	3206	10500	2463	7875	1720	5250	978	5031	916
22	26672	6919	24005	6176	21338	5433	18671	4691	16003	3948	13336	3206	10669	2463	8002	1720	5334	978	5112	916
23	27093	6919	24384	6176	21675	5433	18965	4691	16256	3948	13547	3206	10837	2463	8128	1720	5419	978	5193	916
24	27514	6919	24763	6176	22011	5433	19260	4691	16509	3948	13757	3206	11006	2463	8254	1720	5503	978	5274	916

Combination <Capacity range (Max)>

Indoor: RAV-HM1401FT-EN/ES×2
Outdoor: RAV-GM2803AT8(J)P-E

Operation range	Cooling		Heating	
	Q	P	Q	P
MINIMUM	W 4600	1330	4600	1280
RATING	W 23500	10550	24000	9670
MAXIMUM	W 25000	10870	28000	9330

Cooling		Parts Load (%)																							
		100		90		80		70		60		50		40		30		20		10					
		Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P
Outdoor Temperature DB (°C)																									
20		32126	10276	28914	9171	25701	8065	22488	6960	19276	5855	16063	4750	12850	3645	9638	2539	6425	1434	5911	1257				
21		31780	10463	28602	9338	25424	8213	22246	7087	19068	5962	15890	4837	12712	3711	9534	2586	6356	1460	5848	1280				
22		31435	10651	28291	9506	25148	8360	22004	7214	18861	6069	15717	4923	12574	3778	9430	2632	6287	1487	5784	1303				
23		31089	10839	27980	9673	24871	8507	21762	7341	18653	6176	15544	5010	12436	3844	9327	2678	6218	1513	5720	1326				
24		30558	10870	27502	9701	24446	8532	21391	7363	18335	6194	15279	5024	12223	3855	9167	2686	6112	1517	5623	1330				
25		30002	10870	27000	9701	24001	8532	21001	7363	18001	6194	15001	5024	12001	3855	9000	2686	6000	1517	5520	1330				
26		29457	10870	26511	9701	23565	8532	20620	7363	17674	6194	14728	5024	11783	3855	8837	2686	5891	1517	5420	1330				
27		28923	10870	26031	9701	23139	8532	20246	7363	17354	6194	14462	5024	11569	3855	8677	2686	5785	1517	5322	1330				
28		28400	10870	25560	9701	22720	8532	19880	7363	17040	6194	14200	5024	11360	3855	8520	2686	5680	1517	5226	1330				
29		27888	10870	25099	9701	22310	8532	19521	7363	16733	6194	13944	5024	11155	3855	8366	2686	5578	1517	5131	1330				
30		27385	10870	24646	9701	21908	8532	19169	7363	16431	6194	13692	5024	10954	3855	8215	2686	5477	1517	5039	1330				
31		26891	10870	24202	9701	21513	8532	18823	7363	16134	6194	13445	5024	10756	3855	8067	2686	5378	1517	4948	1330				
32		26406	10870	23765	9701	21125	8532	18484	7363	15843	6194	13203	5024	10562	3855	7922	2686	5281	1517	4859	1330				
33		25929	10870	23336	9701	20743	8532	18150	7363	15558	6194	12965	5024	10372	3855	7779	2686	5186	1517	4771	1330				
34		25461	10870	22915	9701	20369	8532	17823	7363	15276	6194	12730	5024	10184	3855	7638	2686	5092	1517	4685	1330				
35		25000	10870	22500	9701	20000	8532	17500	7363	15000	6194	12500	5024	10000	3855	7500	2686	5000	1517	4600	1330				
36		24547	10870	22092	9701	19637	8532	17183	7363	14728	6194	12273	5024	9819	3855	7364	2686	4909	1517	4517	1330				
37		24100	10870	21690	9701	19280	8532	16870	7363	14460	6194	12050	5024	9640	3855	7230	2686	4820	1517	4434	1330				
38		23661	10870	21295	9701	18929	8532	16563	7363	14197	6194	11830	5024	9464	3855	7098	2686	4732	1517	4354	1330				
39		20021	7247	18019	6467	16017	5688	14015	4908	12013	4129	10011	3350	8008	2570	6006	1791	4004	1011	3684	887				
40		19585	7247	17626	6467	15668	5688	13709	4908	11751	4129	9792	3350	7834	2570	5875	1791	3917	1011	3604	887				
41		19148	7247	17233	6467	15318	5688	13404	4908	11489	4129	9574	3350	7659	2570	5744	1791	3830	1011	3523	887				
42		18712	7247	16840	6467	14969	5688	13098	4908	11227	4129	9356	3350	7485	2570	5613	1791	3742	1011	3443	887				
43		18275	7247	16448	6467	14620	5688	12793	4908	10965	4129	9138	3350	7310	2570	5483	1791	3655	1011	3363	887				
44		16446	5636	14802	5030	13157	4424	11512	3818	9868	3211	8223	2605	6578	1999	4934	1393	3289	787	3026	690				
45		16010	5636	14409	5030	12808	4424	11207	3818	9606	3211	8005	2605	6404	1999	4803	1393	3202	787	2946	690				
46		15573	5636	14016	5030	12459	4424	10901	3818	9344	3211	7787	2605	6229	1999	4672	1393	3115	787	2865	690				

Heating		Parts Load (%)																							
Outdoor Temperature DB (°C)	100		90		80		70		60		50		40		30		20		10						
	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	
-27	9856	6451	8871	5785	7885	5119	6899	4453	5914	3787	4928	3121	3943	2455	2957	1789	1971	1123	1619	885					
-26	10560	6842	9504	6136	8448	5429	7392	4723	6336	4017	5280	3310	4224	2604	3168	1897	2112	1191	1735	939					
-25	11264	7233	10138	6486	9012	5739	7885	4993	6759	4246	5632	3499	4506	2752	3379	2006	2253	1259	1851	992					
-24	11968	7624	10772	6837	9575	6050	8378	5262	7181	4475	5984	3688	4787	2901	3591	2114	2394	1327	1966	1046					
-23	12672	8015	11405	7187	10138	6360	8871	5532	7603	4705	6336	3877	5069	3050	3802	2222	2534	1395	2082	1100					
-22	13376	8405	12039	7537	10701	6670	9364	5802	8026	4934	6688	4066	5351	3199	4013	2331	2675	1463	2198	1153					
-21	14081	8796	12672	7888	11264	6980	9856	6072	8448	5164	7040	4255	5632	3347	4224	2439	2816	1531	2313	1207					
-20	14785	9187	13306	8238	11828	7290	10349	6341	8871	5393	7392	4444	5914	3496	4435	2548	2957	1599	2429	1260					
-19	15277	9445	13750	8470	12222	7495	10694	6520	9166	5544	7639	4569	6111	3594	4583	2619	3055	1644	2510	1296					
-18	15770	9703	14193	8701	12616	7699	11039	6698	9462	5696	7885	4694	6308	3692	4731	2691	3154	1689	2591	1331					
-17	16263	9961	14637	8933	13010	7904	11384	6876	9758	5847	8132	4819	6505	3791	4879	2762	3253	1734	2672	1367					
-16	16756	10219	15080	9164	13405	8109	11729	7054	10053	5999	8378	4944	6702	3889	5027	2834	3351	1779	2753	1402					
-15	17249	10477	15524	9395	13799	8314	12074	7232	10349	6150	8624	5069	6899	3987	5175	2905	3450	1824	2834	1437					
-14	17762	10796	15986	9682	14210	8567	12433	7453	10657	6338	8881	5223	7105	4109	5329	2994	3552	1879	2918	1481					
-13	18275	11116	16448	9968	14620	8821	12793	7673	10965	6525	9138	5378	7310	4230	5483	3082	3655	1935	3002	1525					
-12	18789	11435	16910	10255	15031	9074	13152	7893	11273	6713	9394	5532	7515	4352	5637	3171	3758	1990	3087	1569					
-11	19302	11754	17372	10541	15442	9327	13511	8114	11581	6900	9651	5687	7721	4473	5791	3260	3860	2046	3171	1613					
-10	19815	12074	17834	10827	15852	9581	13871	8334	11889	7088	9908	5841	7926	4595	5945	3348	3963	2102	3255	1656					
-9	20329	12393	18296	11114	16263	9834	14230	8555	12197	7275	10164	5996	8132	4716	6099	3437	4066	2157	3340	1700					
-8	20842	12713	18758	11400	16674	10088	14589	8775	12505	7463	10421	6150	8337	4838	6253	3525	4168	2213	3424	1744					
-7	21355	13032	19220	11686	17084	10341	14949	8996	12813	7650	10678	6305	8542	4959	6407	3614	4271	2268	3508	1788					
-6	21903	13319	19713	11944	17522	10569	15332	9193	13142	7818	10952	6443	8761	5068	6571	3693	4381	2318	3598	1827					
-5	22451	13605	20206	12201	17960	10796	15715	9391	13470	7987	11225	6582	8980	5177	6735	3773	4490	2368	3688	1867					
-4	22998	13892	20698	12458	18399	11024	16099	9589	13799	8155	11499	6721	9199	5287	6899	3852	4600	2418	3778	1906					
-3	23546	14179	21191	12715	18837	11251	16482	9787	14127	8323	11773	6860	9418	5396	7064	3932	4709	2468	3868	1945					
-2	24093	14466	21684	12972	19275	11479	16865	9985	14456	8492	12047	6998	9637	5505	7228	4011	4819	2518	3958	1985					
-1	24641	14752	22177	13229	19713	11706	17249	10183	14785	8660	12320	7137	9856	5614	7392	4091	4928	2568	4048	2024					
0	25188	15039	22670	13486	20151	11934	17632	10381	15113	8828	12594	7276	10075	5723	7557	4170	5038	2618	4138	2063					
1	25736	15326	23162	13743	20589	12161	18015	10579	15442	8997	12868	7414	10294	5832	7721	4250	5147	2668	4228	2103					
2	26284	15612	23655	14001	21027	12389	18399	10777	15770	9165	13142	7553	10513	5941	7885	4329	5257	2718	4318	2142					
3	26833	15874	24176	14235	21490	12596	18804	10957	16118	9318	13431	7680	10745	6041	8059	4402	5373	2763	4413	2178					
4	27448	16135	24703	14469	21958	12803	19213	11138	16469	9472	13724	7806	10979	6140	8234	4474	5490	2809	4509	2214					
5	24422	9330	21980	8367	19538	7404	17096	6440	14653	5477	12211	4514	9769	3551	7327	2587	4884	1624	4012	1280					
6	27472	9330	24724	8367	21977	7404	19230	6440	16483	5477	13736	4514	10989	3551	8241	2587	5494	1624	4513	1280					
7	28000	9330	25200	8367	22400	7404	19600	6440	16800	5477	14000	4514	11200	3551	8400	2587	5600	1624	4600	1280					
8	28524	9330	25672	8367	22819	7404	19967	6440	17115	5477	14262	4514	11410	3551	8557	2587	5705	1624	4686	1280					
9	29045	9330	26140	8367	23236	7404	20331	6440	17427	5477	14522	4514	11618	3551	8713	2587	5809	1624	4772	1280					
10	29561	9330	26605	8367	23649	7404	20693	6440	17737	5477	14781	4514	11825	3551	8868	2587	5912	1624	4857	1280					
11	30075	9330	27067	8367	24060	7404	21052	6440	18045	5477	15037	4514	12030	3551	9022	2587	6015	1624	4941	1280					
12	30584	9330	27526	8367	24468	7404	21409	6440	18351	5477	15292	4514	12234	3551	9175	2587	6117	1624	5025	1280					
13	31091	9330	27982	8367	24873	7404	21764	6440	18655	5477	15545	4514	12436	3551	9327	2587	6218	1624	5108	1280					
14	31594	9330	28435	8367	25276	7404	22116	6440	18957	5477	15797	4514	12638	3551	9478	2587	6319	1624	5191	1280					
15	32095	9330	28885	8367	25676	7404	22466	6440	19257	5477	16047	4514	12838	3551	9628	2587	6419	1624	5273	1280					
16	32593	9330	29333	8367	26074	7404	22815	6440	19556	5477	16296	4514	13037	3551	9778	2587	6519	1624	5354	1280					
17	33631	9330	30268	8367	26964	7404	23541	6440	20178	5477	16815	4514	13452	3551	10089	2587	6726	1624	5525	1280					
18	34207	9330	30786	8367	27366	7404	23945	6440	20524	5477	17103	4514	13683	3551	10262	2587	6841	1624	5620	1280					
19	34783	9330	31305	8367	27827	7404	24348	6440	20870	5477	17392	4514	13913	3551	10435	2587	6957	1624	5714	1280					
20	35360	9330	31824	8367	28288	7404	24752	6440	21216	5477	17680	4514	14144	3551	10608	2587	7072	1624	5809	1280					
21	35936	9330	32343	8367	28749	7404	25155	6440	21562	5477	17968	4514	14374	3551	10781	2587	7187	1624	5904	1280					
22	36513	9330	32861	8367	29210	7404	25559	6440	21908	5477	18256	4514	14605	3551	10954	2587	7303	1624	5998	1280					
23	37089	9330	33380	8367	29671	7404	25962	6440	22253	5477	18544	4514	14836	3551	11127	2587	7418	1624	6093	1280					
24	37665	9330	33899	8367	30132	7404	26366	6440	22599	5477	18833	4514	15066	3551	11300	2587	7533	1624	6188	1280					

Combination <Rated condition>

Indoor: RAV-HM801FT-EN/ES×3, RAV-HM561FT-EN/ES×4
Outdoor: RAV-GM2243AT8(J)P-E

Operation range	Cooling		Heating	
	Q	P	Q	P
MINIMUM	W 4600	1300	4600	1250
RATING	W 20000	6890	22400	6810

Cooling

Outdoor Temperature DB (°C)	Parts Load (%)																			
	100		90		80		70		60		50		40		30		20		10	
	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P
20	23850	5409	21465	4839	19080	4269	16695	3699	14310	3129	11925	2559	9540	1989	7155	1419	5486	1021	5486	1021
21	23593	5507	21234	4927	18875	4347	16515	3767	14156	3186	11797	2606	9437	2026	7078	1445	5426	1039	5426	1039
22	23337	5606	21003	5015	18669	4425	16336	3834	14002	3243	11668	2653	9335	2062	7001	1471	5367	1058	5367	1058
23	23080	5705	20772	5104	18464	4503	16156	3902	13848	3300	11540	2699	9232	2098	6924	1497	5308	1076	5308	1076
24	22823	5804	20541	5192	18259	4581	15976	3969	13694	3358	11412	2746	9129	2135	6847	1523	5249	1095	5249	1095
25	22567	5902	20310	5281	18053	4659	15797	4037	13540	3415	11283	2793	9027	2171	6770	1549	5190	1114	5190	1114
26	22310	6001	20079	5369	17848	4737	15617	4104	13386	3472	11155	2840	8924	2207	6693	1575	5131	1132	5131	1132
27	22053	6100	19848	5457	17643	4814	15437	4172	13232	3529	11027	2886	8821	2244	6616	1601	5072	1151	5072	1151
28	21797	6199	19617	5546	17437	4892	15258	4239	13078	3586	10898	2933	8719	2280	6539	1627	5013	1170	5013	1170
29	21540	6297	19386	5634	17232	4970	15078	4307	12924	3643	10770	2980	8616	2316	6462	1653	4954	1188	4954	1188
30	21283	6396	19155	5722	17027	5048	14898	4374	12770	3700	10642	3026	8513	2353	6385	1679	4895	1207	4895	1207
31	21027	6495	18924	5811	16821	5126	14719	4442	12616	3758	10513	3073	8411	2389	6308	1705	4836	1225	4836	1225
32	20770	6594	18693	5899	16616	5204	14539	4509	12462	3815	10385	3120	8308	2425	6231	1730	4777	1244	4777	1244
33	20513	6692	18462	5987	16411	5282	14359	4577	12308	3872	10257	3167	8205	2462	6154	1756	4718	1263	4718	1263
34	20257	6791	18231	6076	16205	5360	14180	4645	12154	3929	10128	3213	8103	2498	6077	1782	4659	1281	4659	1281
35	20000	6890	18000	6164	16000	5438	14000	4712	12000	3986	10000	3260	8000	2534	6000	1808	4600	1300	4600	1300
36	19743	6989	17769	6252	15795	5516	13820	4780	11846	4043	9872	3307	7897	2570	5923	1834	4541	1319	4541	1319
37	19487	7088	17538	6341	15589	5594	13641	4847	11692	4100	9743	3354	7795	2607	5846	1860	4482	1337	4482	1337
38	19230	7186	17307	6429	15384	5672	13461	4915	11538	4158	9615	3400	7692	2643	5769	1886	4423	1356	4423	1356
39	18431	6764	16588	6052	14745	5339	12902	4626	11059	3913	9216	3201	7373	2488	5529	1775	4239	1276	4239	1276
40	18072	6764	16265	6052	14458	5339	12650	4626	10843	3913	9036	3201	7229	2488	5422	1775	4157	1276	4157	1276
41	17713	6764	15941	6052	14170	5339	12399	4626	10628	3913	8856	3201	7085	2488	5314	1775	4074	1276	4074	1276
42	17353	6764	15618	6052	13883	5339	12147	4626	10412	3913	8677	3201	6941	2488	5206	1775	3991	1276	3991	1276
43	16994	6764	15294	6052	13595	5339	11896	4626	10196	3913	8497	3201	6797	2488	5098	1775	3909	1276	3909	1276
44	15070	5261	13563	4707	12056	4152	10549	3598	9042	3044	7535	2489	6028	1935	4521	1381	3466	993	3466	993
45	14711	5261	13240	4707	11768	4152	10297	3598	8826	3044	7355	2489	5884	1935	4413	1381	3383	993	3383	993
46	14351	5261	12916	4707	11481	4152	10046	3598	8611	3044	7176	2489	5740	1935	4305	1381	3301	993	3301	993

Heating

Outdoor DB (°C)	Parts Load (%)																			
	100		90		80		70		60		50		40		30		20		10	
	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P
-27	6069	2739	5462	2458	4855	2176	4248	1895	3641	1613	3034	1332	2428	1051	1821	769	1246	503	1246	503
-26	6444	2854	5800	2561	5155	2268	4511	1975	3866	1681	3222	1388	2578	1095	1933	801	1323	524	1323	524
-25	6819	2970	6137	2665	5455	2359	4774	2054	4092	1749	3410	1444	2728	1139	2046	834	1400	545	1400	545
-24	7195	3085	6475	2768	5756	2451	5036	2134	4317	1817	3597	1500	2878	1183	2158	866	1477	566	1477	566
-23	7570	3200	6813	2871	6056	2543	5299	2214	4542	1885	3785	1556	3028	1227	2271	899	1555	587	1555	587
-22	7945	3316	7151	2975	6356	2634	5562	2294	4767	1953	3973	1612	3178	1272	2384	931	1632	609	1632	609
-21	8320	3431	7488	3078	6656	2726	5824	2373	4992	2021	4160	1668	3328	1316	2496	963	1709	630	1709	630
-20	8696	3546	7826	3182	6957	2818	6087	2453	5217	2089	4348	1724	3478	1360	2609	996	1786	651	1786	651
-19	9094	3646	8185	3271	7275	2897	6366	2522	5457	2147	4547	1773	3638	1398	2728	1024	1868	669	1868	669
-18	9493	3745	8543	3361	7594	2976	6645	2591	5696	2206	4746	1821	3797	1437	2848	1052	1949	687	1949	687
-17	9891	3845	8902	3450	7913	3055	6924	2660	5935	2265	4946	1870	3957	1475	2967	1080	2031	706	2031	706
-16	10290	3945	9261	3539	8232	3134	7203	2729	6174	2323	5145	1918	4116	1513	3087	1108	2113	724	2113	724
-15	10688	4044	9620	3629	8551	3213	7482	2798	6413	2382	5344	1967	4275	1551	3207	1136	2195	742	2195	742
-14	10994	4168	9895	3739	8795	3311	7696	2883	6596	2455	5497	2027	4398	1598	3298	1170	2258	765	2258	765
-13	11300	4291	10170	3850	9040	3409	7910	2968	6780	2527	5650	2087	4520	1646	3390	1205	2320	788	2320	788
-12	11606	4414	10445	3961	9284	3507	8124	3054	6963	2600	5803	2146	4642	1693	3482	1239	2383	810	2383	810
-11	11911	4537	10720	4071	9529	3605	8338	3139	7147	2673	5956	2206	4764	1740	3573	1274	2446	833	2446	833
-10	12217	4661	10995	4182	9774	3703	8552	3224	7330	2745	6108	2266	4887	1788	3665	1309	2509	855	2509	855
-9	12523	4784	11270	4292	10018	3801	8766	3309	7514	2818	6261	2326	5009	1835	3757	1343	2572	878	2572	878
-8	12828	4907	11546	4403	10263	3899	8980	3395	7697	2890	6414	2386	5131	1882	3849	1378	2634	901	2634	901
-7	13134	5030	11821	4514	10507	3997	9194	3480	7880	2963	6567	2446	5254	1929	3940	1413	2697	923	2697	923
-6	13478	5141	12130	4613	10783	4085	9435	3556	8087	3028	6739	2500	5391	1972	4043	1444	2768	944	2768	944
-5	13822	5252	12440	4712	11058	4173	9676	3633	8293	3093	6911	2554	5529	2014	4147	1475	2839	964	2839	964
-4	14167	5362	12750	4812	11333	4261	9917	3710	8500	3159	7083	2608	5667	2057	4250	1506	2909	984	2909	984
-3	14511	5473	13060	4911	11609	4348	10158	3786	8707	3224	7255	2661	5804	2099	4353	1537	2980	1005	2980	1005
-2	14855	5584	13370	5010	11884	4436	10399	3863	8913	3289	7428	2715	5942	2142	4457	1568	3051	1025	3051	1025
-1	15199	5695	13679	5109	12159	4524	10639	3939	9120	3354	7600	2769	6080	2184	4560	1599	3121	1045	3121	1045
0	15543	5805	13989	5208	12435	4612	10880	4016	9326	3419	7772	2823	6217	2227	4663	1630	3192	1066	3192	1066
1	15888	5916	14299	5309	12710	4700	11121	4092	9533	3485	7944	2877	6355	2269	4766	1661	3263	1086	3263	1086
2	16232	6027	14609	5407	12986	4788	11362	4169	9739	3550	8116	2931	6493	2311	4870	1692	3333	1106	3333	1106
3	16498	6108	14848	5480	13198	4853	11548	4225	9899	3598	8249	2970	6599	2342	4949	1715	3388	1121	3388	1121
4	16764	6189	15087	5553	13411	4917	11735	4281	10058	3645	8382	3009	6705	2374	5029	1738	3443	1136	3443	1136
5	17030	6270	15327	5626	13624	4981	11921	4337	10218	3693	8515	3049	6812	2405	5109	1760	3497	1151	3497	1151
6	21822	6705	19640	6016	17458	5327	15275	4638	13093	3949	10911	3260	8729	2571	6547	1883	4481	1231	4481	1231
7	22400	6810	20160	6110	17920	5411	15680	4711	13440	4011	11200	3312	8960	2612	6720	1912	4600	1250	4600	1250
8	22978	6915	20680	6205	18382	5494	16085	4784	13787	4073	11489	3363	9191	2652	6893	1942	4719	1269	4719	1269
9	23556	7021	21201	6300	18845	5578	16489	4857	14134	4135	11778	3414	9422	2693	7067	1971	4837	1289	4837	1289
10	24134	7126	21721	6394	19307	5662	16894	4930	14481	4198	12067	3465	9654	2733	7240	2001	4956	1308	4956	1308
11	24712	7232	22241	6489	19770	5746	17299	5003	14827	4260	12356	3517	9885	2774	7414	2031	5075	1327	5075	1327
12	25290	7337	22761	6583	20232	5830	17703	5076	15174	4322	12645	3568	10116	2814	7587	2060	5194	1347	5194	1347
13	25868	7443	23282	6678	20695	5913	18108	5149	15521	4384	12934	3619	10347	2855	7761	2090	5312	1366	5312	1366
14	26446	7548	23802	6773	21157	5997	18513	5222	15868	4446	13223	3671	10579	2895	7934	2119	5431	1385	5431	1385
15	27025	7654	24322	6867	21620	6081	18917	5294	16215	4508	13512	3722	10810	2935	8107	2149	5550	1405	5550	1405
16	27603	7759	24842	6962	22082	6165	19322	5367	16562	4570	13801	3773	11041	2976	8281	2179	5668	1424	5668	1424
17	28181	7864	25363	7056	22545	6248	19726	5440	16908	4632	14090	3824	11272	3016	8454	2208	5787	1444	5787	1444
18	28759	7970	25883	7151	23007	6332	20131	5513	17255	4694	14379	3876	11503	3057	8628	2238	5906	1463	5906	1463
19	29337	8075	26403	7246	23469	6416	20536	5586	17602	4757	14668	3927	11735	3097	8801	2268	6025	1482	6025	1482
20	29915	8181	26923	7340	23932	6500	20940	5659	17949	4819	14957	3978	11966	3138	8974	2297	6143	1502	6143	1502
21	30493	8286	27444	7435	24394	6584	21345	5732	18296	4881	15246	4029	12197	3178	9148	2327	6262	1521	6262	1521
22	31071	8392	27964	7529	24857	6667	21750	5805	18643	4943	15535	4081	12428	3219	9321	2356	6381	1540	6381	1540
23	31649	8497	28484	7624	25319	6751	22154	5878	18989	5005	15825	4132	12660	3259	9495	2386	6499	1560	6499	1560
24	32227	8603	29004	7719	25782	6835	22559	5951	19336	5067	16114	4183	12891	3299	9668	2416	6618	1579	6618	1579

Combination <Capacity range (Max)>

Indoor: RAV-HM801FT-EN/ES×3, RAV-HM561FT-EN/ES×4
Outdoor: RAV-GM2243A78(J)P-E

Operation range	Cooling		Heating	
	Q	P	Q	P
MINIMUM	W 4600	1300	4600	1250
RATING	W 20000	6890	22400	6810
MAXIMUM	W 22400	8960	25000	8330

Cooling

Outdoor Temperature DB (°C)	Parts Load (%)															
	100		90		80		70		60		50		40		30	
	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P
20	26801	7085	24120	6323	21440	5560	18760	4798	16080	4036	13400	3274	10720	2512	8040	1749
21	26512	7214	23861	6438	21210	5662	18558	4886	15907	4110	13256	3334	10605	2557	7954	1781
22	26224	7344	23601	6554	20979	5764	18357	4973	15734	4183	13112	3393	10489	2603	7867	1813
23	25935	7473	23342	6669	20748	5865	18155	5061	15561	4257	12968	3453	10374	2649	7781	1845
24	25647	7602	23082	6784	20517	5967	17953	5149	15388	4331	12823	3513	10259	2695	7694	1877
25	25358	7732	22823	6900	20287	6068	17751	5236	15215	4404	12679	3573	10143	2741	7608	1909
26	25070	7861	22563	7015	20056	6170	17549	5324	15042	4478	12535	3632	10028	2787	7521	1941
27	24782	7990	22303	7131	19825	6271	17347	5412	14869	4552	12391	3692	9913	2833	7434	1973
28	24493	8120	22044	7246	19595	6373	17145	5499	14696	4626	12247	3752	9797	2878	7348	2005
29	24205	8249	21784	7362	19364	6474	16943	5587	14523	4699	12102	3812	9682	2924	7261	2037
30	23916	8379	21525	7477	19133	6576	16741	5674	14350	4773	11958	3872	9567	2970	7175	2069
31	23628	8508	21265	7593	18902	6677	16540	5762	14177	4847	11814	3931	9451	3016	7088	2101
32	23339	8637	21006	7708	18672	6779	16338	5850	14004	4920	11670	3991	9336	3062	7002	2133
33	23051	8767	20746	7824	18441	6880	16136	5937	13831	4994	11526	4051	9220	3108	6915	2165
34	22763	8896	20486	7939	18210	6982	15934	6025	13658	5068	11381	4111	9105	3154	6829	2197
35	22400	8960	20160	7996	17920	7032	15680	6068	13440	5104	11200	4140	8960	3176	6720	2212
36	21971	8960	19774	7996	17577	7032	15379	6068	13182	5104	10985	4140	8788	3176	6591	2212
37	21549	8960	19394	7996	17239	7032	15084	6068	12929	5104	10774	4140	8620	3176	6465	2212
38	21134	8960	19021	7996	16908	7032	14794	6068	12681	5104	10567	4140	8454	3176	6340	2212
39	17568	5973	15811	5331	14054	4688	12298	4045	10541	3403	8784	2760	7027	2118	5270	1475
40	17225	5973	15503	5331	13780	4688	12058	4045	10335	3403	8613	2760	6890	2118	5168	1475
41	16883	5973	15194	5331	13506	4688	11818	4045	10130	3403	8441	2760	6753	2118	5065	1475
42	16540	5973	14886	5331	13232	4688	11578	4045	9924	3403	8270	2760	6616	2118	4962	1475
43	16198	5973	14578	5331	12958	4688	11338	4045	9719	3403	8099	2760	6479	2118	4859	1475
44	14364	4646	12928	4146	11491	3646	10055	3146	8618	2647	7182	2147	5746	1647	4309	1147
45	14021	4646	12619	4146	11217	3646	9815	3146	8413	2647	7011	2147	5609	1647	4206	1147
46	13679	4646	12311	4146	10943	3646	9575	3146	8207	2647	6839	2147	5472	1647	4104	1147

Heating

Outdoor Temperature DB (°C)	Parts Load (%)															
	100		90		80		70		60		50		40		30	
	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P
-27	6700	3672	6030	3290	5360	2907	4690	2525	4020	2142	3350	1760	2680	1377	2010	995
-26	7114	3827	6403	3428	5691	3030	4980	2631	4269	2232	3557	1834	2846	1435	2134	1037
-25	7529	3981	6776	3567	6023	3152	5270	2737	4517	2323	3764	1908	3011	1493	2259	1078
-24	7943	4136	7149	3705	6354	3274	5560	2844	4766	2413	3971	1982	3177	1551	2383	1120
-23	8357	4291	7521	3844	6686	3397	5850	2950	5014	2503	4179	2056	3343	1609	2507	1162
-22	8771	4445	7894	3982	7017	3519	6140	3056	5263	2593	4386	2130	3509	1667	2631	1204
-21	9186	4600	8267	4121	7349	3642	6430	3162	5511	2683	4593	2204	3674	1725	2756	1246
-20	9600	4754	8640	4259	7680	3764	6720	3269	5760	2774	4800	2278	3840	1783	2880	1288
-19	10040	4888	9036	4379	8032	3870	7028	3361	6024	2851	5020	2342	4016	1833	3012	1324
-18	10480	5022	9432	4498	8384	3975	7336	3452	6288	2929	5240	2406	4192	1883	3144	1360
-17	10920	5155	9828	4618	8736	4081	7644	3544	6552	3007	5460	2470	4368	1933	3276	1396
-16	11360	5289	10224	4738	9088	4187	7952	3636	6816	3085	5680	2534	4544	1983	3408	1433
-15	11800	5422	10620	4857	9440	4293	8260	3728	7080	3163	5900	2598	4720	2034	3540	1469
-14	12138	5587	10924	5005	9710	4423	8496	3841	7283	3259	6069	2678	4855	2096	3641	1514
-13	12475	5753	11228	5153	9980	4554	8733	3955	7485	3356	6238	2757	4990	2158	3743	1558
-12	12813	5918	11531	5302	10250	4685	8969	4069	7688	3452	6406	2836	5125	2219	3844	1603
-11	13150	6083	11835	5450	10520	4816	9205	4182	7890	3549	6575	2915	5260	2281	3945	1648
-10	13488	6248	12139	5598	10790	4947	9441	4296	8093	3645	6744	2994	5395	2343	4046	1693
-9	13825	6414	12443	5746	11060	5078	9678	4410	8295	3742	6913	3073	5530	2405	4148	1737
-8	14163	6579	12746	5894	11330	5208	9914	4523	8498	3838	7081	3153	5665	2467	4249	1782
-7	14500	6744	13050	6042	11600	5339	10150	4637	8700	3934	7250	3232	5800	2529	4350	1827
-6	14880	6893	13392	6175	11904	5457	10416	4739	8928	4021	7440	3303	5952	2585	4464	1867
-5	15260	7041	13734	6308	12208	5574	10682	4841	9156	4108	7630	3374	6104	2641	4578	1907
-4	15640	7189	14076	6441	12512	5692	10948	4943	9384	4194	7820	3445	6256	2696	4692	1948
-3	16020	7338	14418	6574	12816	5809	11214	5045	9612	4281	8010	3516	6408	2752	4806	1988
-2	16400	7486	14760	6706	13120	5927	11480	5147	9840	4367	8200	3587	6560	2808	4920	2028
-1	16780	7635	15102	6839	13424	6044	11746	5249	10068	4454	8390	3659	6712	2863	5034	2068
0	17160	7783	15444	6972	13728	6162	12012	5351	10296	4540	8580	3730	6864	2919	5148	2108
1	17540	7931	15786	7105	14032	6279	12278	5453	10524	4627	8770	3801	7016	2975	5262	2149
2	17920	8080	16128	7238	14336	6397	12544	5555	10752	4713	8960	3872	7168	3030	5376	2189
3	18300	8246	16542	7387	14704	6529	12866	5670	11028	4811	9190	3952	7352	3093	5514	2234
4	18846	8413	16961	7537	15077	6660	13192	5784	11307	4908	9423	4032	7538	3155	5654	2279
5	19317	8580	17385	7686	15454	6792	13522	5899	11590	5005	9658	4111	7727	3218	5795	2324
6	24355	8201	21919	7347	19484	6493	17048	5638	14613	4784	12177	3930	9742	3076	7306	2222
7	25000	8330	22500	7462	20000	6595	17500	5727	15000	4859	12500	3992	10000	3124	7500	2256
8	25645	8459	23081	7578	20516	6697	17952	5816	15387	4935	12823	4054	10258	3172	7694	2291
9	26290	8588	23661	7693	21032	6799	18403	5904	15774	5010	13145	4115	10516	3221	7887	2326
10	26935	8717	24242	7809	21548	6901	18855	5993	16161	5085	13468	4177	10774	3269	8081	2361
11	27581	8846	24823	7925	22065	7003	19306	6082	16548	5160	13790	4239	11032	3318	8274	2396
12	28226	8975	25403	8040	22581	7105	19758	6170	16935	5236	14113	4301	11290	3366	8468	2431
13	28871	9104	25984	8156	23097	7207	20210	6259	17323	5311	14435	4363	11548	3414	8661	2466

Combination <Rated condition>

Indoor: RAV-HM801FT-EN/ES×3, RAV-HM561FT-EN/ES×4
Outdoor: RAV-GM2243AT8(J)P-E

Operation range	Cooling		Heating	
	Q	P	Q	P
MINIMUM	W 4600	1300	W 4600	1250
Night operation 1	W 10000	2100	W 11200	2360

*When outside air temperature is 40°C or more, the night operation does not operate.

Outdoor Temperature DB (°C)	Parts Load (%)															
	100		90		80		70		60		50		40		30	
	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P
20	11925	1649	10733	1532	9540	1416	8348	1300	7155	1183	5963	1067	5486	1021	5486	1021
21	11797	1679	10617	1560	9437	1442	8258	1323	7078	1205	5898	1087	5426	1039	5426	1039
22	11668	1709	10502	1588	9335	1468	8168	1347	7001	1227	5834	1106	5367	1058	5367	1058
23	11540	1739	10386	1616	9232	1493	8078	1371	6924	1248	5770	1125	5308	1076	5308	1076
24	11412	1769	10271	1644	9129	1519	7988	1395	6847	1270	5706	1145	5249	1095	5249	1095
25	11283	1799	10155	1672	9027	1545	7898	1418	6770	1291	5642	1164	5190	1114	5190	1114
26	11155	1829	10040	1700	8924	1571	7809	1442	6693	1313	5578	1184	5131	1132	5131	1132
27	11027	1859	9924	1728	8821	1597	7719	1466	6616	1335	5513	1203	5072	1151	5072	1151
28	10898	1889	9809	1756	8719	1623	7629	1489	6539	1356	5449	1223	5013	1170	5013	1170
29	10770	1919	9693	1784	8616	1649	7539	1513	6462	1378	5385	1242	4954	1188	4954	1188
30	10642	1950	9578	1812	8513	1674	7449	1537	6385	1399	5321	1262	4895	1207	4895	1207
31	10513	1980	9462	1840	8411	1700	7359	1561	6308	1421	5257	1281	4836	1225	4836	1225
32	10385	2010	9347	1868	8308	1726	7270	1584	6231	1443	5193	1301	4777	1244	4777	1244
33	10257	2040	9231	1896	8205	1752	7180	1608	6154	1464	5128	1320	4718	1263	4718	1263
34	10128	2070	9116	1924	8103	1778	7090	1632	6077	1486	5064	1340	4659	1281	4659	1281
35	10000	2100	9000	1952	8000	1804	7000	1656	6000	1507	5000	1359	4600	1300	4600	1300
36	9872	2130	8885	1980	7897	1830	6910	1679	5923	1529	4936	1379	4541	1319	4541	1319
37	9743	2160	8769	2008	7795	1855	6820	1703	5846	1551	4872	1398	4482	1337	4482	1337
38	9615	2190	8654	2036	7692	1881	6731	1727	5769	1572	4808	1418	4423	1356	4423	1356
39	9216	2062	8294	1916	7373	1771	6451	1625	5529	1480	4608	1334	4239	1276	4239	1276
40*	18072	6764	16265	6052	14458	5339	12650	4626	10843	3913	9036	3201	7229	2488	5422	1775
41*	17713	6764	15941	6052	14170	5339	12399	4626	10628	3913	8856	3201	7085	2488	5314	1775
42*	17353	6764	15618	6052	13883	5339	12147	4626	10412	3913	8677	3201	6941	2488	5206	1775
43*	16994	6764	15294	6052	13595	5339	11896	4626	10196	3913	8497	3201	6797	2488	5098	1775
44*	15070	5261	13563	4707	12056	4152	10549	3598	9042	3044	7535	2489	6028	1935	4521	1381
45*	14711	5261	13240	4707	11768	4152	10297	3598	8826	3044	7355	2489	5884	1935	4413	1381
46*	14351	5261	12916	4707	11481	4152	10046	3598	8611	3044	7176	2489	5740	1935	4305	1381

Heating		Parts Load (%)																		
Outdoor Temperature DB (°C)	100		90		80		70		60		50		40		30		20		10	
	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P		
-27	3034	949	2731	873	2428	798	2124	722	1821	646	1517	570	1246	503	1246	503	1246	503	1246	503
-26	3222	989	2900	910	2578	831	2255	752	1933	673	1611	594	1323	524	1323	524	1323	524	1323	524
-25	3410	1029	3069	947	2728	865	2387	783	2046	701	1705	618	1400	545	1400	545	1400	545	1400	545
-24	3597	1069	3238	984	2878	898	2518	813	2158	728	1799	642	1477	566	1477	566	1477	566	1477	566
-23	3785	1109	3406	1021	3028	932	2649	843	2271	755	1892	666	1555	587	1555	587	1555	587	1555	587
-22	3973	1149	3575	1057	3178	966	2781	874	2384	782	1986	690	1632	609	1632	609	1632	609	1632	609
-21	4160	1189	3744	1094	3328	999	2912	904	2496	809	2080	714	1709	630	1709	630	1709	630	1709	630
-20	4348	1229	3913	1131	3478	1033	3043	935	2609	837	2174	738	1786	651	1786	651	1786	651	1786	651
-19	4547	1263	4092	1163	3638	1062	3183	961	2728	860	2274	759	1868	669	1868	669	1868	669	1868	669
-18	4746	1298	4272	1194	3797	1091	3322	987	2848	884	2373	780	1949	687	1949	687	1949	687	1949	687
-17	4946	1332	4451	1226	3957	1120	3462	1013	2967	907	2473	801	2031	706	2031	706	2031	706	2031	706
-16	5145	1367	4630	1258	4116	1149	3601	1040	3087	931	2572	821	2113	724	2113	724	2113	724	2113	724
-15	5344	1402	4810	1290	4275	1178	3741	1066	3207	954	2672	842	2195	742	2195	742	2195	742	2195	742
-14	5497	1444	4947	1329	4398	1214	3848	1098	3298	983	2749	868	2258	765	2258	765	2258	765	2258	765
-13	5650	1487	5085	1368	4520	1250	3955	1131	3390	1012	2825	894	2320	788	2320	788	2320	788	2320	788
-12	5803	1530	5222	1408	4642	1286	4062	1163	3482	1041	2901	919	2383	810	2383	810	2383	810	2383	810
-11	5956	1572	5360	1447	4764	1321	4169	1196	3573	1070	2978	945	2446	833	2446	833	2446	833	2446	833
-10	6108	1615	5498	1486	4887	1357	4276	1228	3665	1099	3054	971	2509	855	2509	855	2509	855	2509	855
-9	6261	1658	5635	1526	5009	1393	4383	1261	3757	1129	3131	996	2572	878	2572	878	2572	878	2572	878
-8	6414	1701	5773	1565	5131	1429	4490	1293	3849	1158	3207	1022	2634	901	2634	901	2634	901	2634	901
-7	6567	1743	5910	1604	5254	1465	4597	1326	3940	1187	3284	1048	2697	923	2697	923	2697	923	2697	923
-6	6739	1782	6065	1639	5391	1497	4717	1355	4043	1213	3370	1071	2768	944	2768	944	2768	944	2768	944
-5	6911	1820	6220	1675	5529	1529	4838	1384	4147	1239	3456	1094	2839	964	2839	964	2839	964	2839	964
-4	7083	1858	6375	1710	5667	1562	4958	1413	4250	1265	3542	1117	2909	984	2909	984	2909	984	2909	984
-3	7255	1897	6530	1745	5804	1594	5079	1443	4353	1291	3628	1140	2980	1005	2980	1005	2980	1005	2980	1005
-2	7428	1935	6685	1781	5942	1626	5199	1472	4457	1317	3714	1163	3051	1025	3051	1025	3051	1025	3051	1025
-1	7600	1973	6840	1816	6080	1658	5320	1501	4560	1343	3800	1186	3121	1045	3121	1045	3121	1045	3121	1045
0	7772	2012	6995	1851	6217	1691	5440	1530	4663	1370	3886	1209	3192	1066	3192	1066	3192	1066	3192	1066
1	7944	2050	7149	1887	6355	1723	5561	1559	4766	1396	3972	1232	3263	1086	3263	1086	3263	1086	3263	1086
2	8116	2088	7304	1922	6493	1755	5681	1588	4870	1422	4058	1255	3333	1106	3333	1106	3333	1106	3333	1106
3	8249	2117	7424	1948	6599	1779	5774	1610	4949	1441	4124	1272	3388	1121	3388	1121	3388	1121	3388	1121
4	8382	2145	7544	1973	6705	1802	5867	1631	5029	1460	4191	1289	3443	1136	3443	1136	3443	1136	3443	1136
5	8515	2173	7663	1999	6812	1826	5960	1652	5109	1479	4257	1306	3497	1151	3497	1151	3497	1151	3497	1151
6	10911	2323	9820	2138	8729	1953	7638	1767	6547	1582	5455	1396	4481	1231	4481	1231	4481	1231	4481	1231
7	11200	2360	10080	2172	8960	1983	7840	1795	6720	1607	5600	1418	4600	1250	4600	1250	4600	1250	4600	1250
8	11489	2397	10340	2205	9191	2014	8042	1823	6893	1631	5745	1440	4719	1269	4719	1269	4719	1269	4719	1269
9	11778	2433	10600	2239	9422	2045	8245	1850	7067	1656	5889	1462	4837	1289	4837	1289	4837	1289	4837	1289
10	12067	2470	10860	2273	9654	2075	8447	1878	7240	1681	6034	1484	4956	1308	4956	1308	4956	1308	4956	1308
11	12356	2506	11121	2306	9885	2106	8649	1906	7414	1706	6178	1506	5075	1327	5075	1327	5075	1327	5075	1327
12	12645	2543	11381	2340	10116	2137	8852	1934	7587	1731	6323	1528	5194	1347	5194	1347	5194	1347	5194	1347
13	12934	2579	11641	2373	10347	2168	9054	1962	7761	1756	6467	1550	5312	1366	5312	1366	5312	1366	5312	1366
14	13223	2616	11901	2407	10579	2198	9256	1989	7934	1781	6612	1572	5431	1385	5431	1385	5431	1385	5431	1385
15	13512	2652	12161	2441	10810	2229	9459	2017	8107	1806	6756	1594	5550	1405	5550	1405	5550	1405	5550	1405
16	13801	2689	12421	2474	11041	2260	9661	2045	8281	1830	6901	1616	5668	1424	5668	1424	5668	1424	5668	1424
17	14090	2725	12681	2508	11272	2290	9863	2073	8454	1855	7045	1638	5787	1444	5787	1444	5787	1444	5787	1444
18	14379	2762	12941	2542	11503	2321	10066	2101	8628	1880	7190	1660	5906	1463	5906	1463	5906	1463	5906	1463
19	14668	2799	13202	2575	11735	2352	10268	2128	8801	1905	7334	1682	6025	1482	6025	1482	6025	1482	6025	1482
20	14957	2835	13462	2609	11966	2382	10470	2156	8974	1930	7479	1704	6143	1502	6143	1502	6143	1502	6143	1502
21	15246	2872	13722	2642	12197	2413	10673	2184	9148	1955	7623	1726	6262	1521	6262	1521	6262	1521	6262	1521
22	15535	2908	13982	2676	12428	2444	10875	2212	9321	1980	7768	1748	6381	1540	6381	1540	6381	1540	6381	1540
23	15825	2945	14242	2710	12660	2475	11077	2240	9495	2005	7912	1770	6499	1560	6499	1560	6499	1560	6499	1560
24	16114	2981	14502	2743	12891	2505	11279	2267	9668	2029	8057	1791	6618	1579	6618	1579	6618	1579	6618	1579

Combination <Rated condition>

Indoor: RAV-HM801FT-EN/ES×3, RAV-HM561FT-EN/ES×4
Outdoor: RAV-GM2243AT8(J)P-E

Operation range	Cooling		Heating	
	Q	P	Q	P
MINIMUM	W 4600	1300	4600	1250
Night operation 2	W 14000	3145	15680	3877

*When outside air temperature is 40°C or more, the night operation does not operate.

Cooling

Outdoor Temperature DB (°C)	Parts Load (%)															
	100		90		80		70		60		50		40		30	
	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P
20	16695	2469	15026	2253	13356	2037	11687	1822	10017	1606	8348	1390	6678	1175	5486	1021
21	16515	2514	14864	2294	13212	2075	11561	1855	9909	1635	8258	1416	6606	1196	5426	1039
22	16336	2559	14702	2335	13069	2112	11435	1888	9801	1665	8168	1441	6534	1217	5367	1058
23	16156	2604	14540	2377	12925	2149	11309	1921	9694	1694	8078	1466	6462	1239	5308	1076
24	15976	2649	14379	2418	12781	2186	11183	1955	9586	1723	7988	1492	6391	1260	5249	1095
25	15797	2694	14217	2459	12637	2223	11058	1988	9478	1753	7898	1517	6319	1282	5190	1114
26	15617	2739	14055	2500	12494	2261	10932	2021	9370	1782	7809	1543	6247	1303	5131	1132
27	15437	2784	13894	2541	12350	2298	10806	2055	9262	1811	7719	1568	6175	1325	5072	1151
28	15258	2829	13732	2582	12206	2335	10680	2088	9155	1841	7629	1593	6103	1346	5013	1170
29	15078	2875	13570	2623	12062	2372	10555	2121	9047	1870	7539	1619	6031	1368	4954	1188
30	14898	2920	13409	2665	11919	2409	10429	2154	8939	1899	7449	1644	5959	1389	4895	1207
31	14719	2965	13247	2706	11775	2447	10303	2188	8831	1929	7359	1670	5887	1410	4836	1225
32	14539	3010	13085	2747	11631	2484	10177	2221	8723	1958	7270	1695	5816	1432	4777	1244
33	14359	3055	12923	2788	11487	2521	10052	2254	8616	1987	7180	1720	5744	1453	4718	1263
34	14180	3100	12762	2829	11344	2558	9926	2287	8508	2017	7090	1746	5672	1475	4659	1281
35	14000	3145	12600	2870	11200	2595	9800	2321	8400	2046	7000	1771	5600	1496	4600	1300
36	13820	3190	12438	2911	11056	2633	9674	2354	8292	2075	6910	1796	5528	1518	4541	1319
37	13641	3235	12277	2952	10913	2670	9548	2387	8184	2104	6820	1822	5456	1539	4482	1337
38	13461	3280	12115	2994	10769	2707	9423	2420	8077	2134	6731	1847	5384	1561	4423	1356
39	12902	3088	11612	2818	10322	2548	9031	2278	7741	2009	6451	1739	5161	1469	4239	1276
40*	18072	6764	16265	6052	14458	5339	12650	4626	10843	3913	9036	3201	7229	2488	5422	1775
41*	17713	6764	15941	6052	14170	5339	12399	4626	10628	3913	8856	3201	7085	2488	5314	1775
42*	17753	6764	15818	6052	13883	5339	12147	4626	10412	3913	8677	3201	6941	2488	5206	1775
43*	16994	6764	15294	6052	13595	5339	11896	4626	10196	3913	8497	3201	6797	2488	5098	1775
44*	15070	5261	13563	4707	12056	4152	10549	3598	9042	3044	7535	2489	6028	1935	4521	1381
45*	14711	5261	13240	4707	11768	4152	10297	3598	8826	3044	7355	2489	5884	1935	4413	1381
46*	14351	5261	12916	4707	11481	4152	10046	3598	8611	3044	7176	2489	5740	1935	4305	1381

Heating

Outdoor Temperature DB (°C)	Parts Load (%)																			
	100		90		80		70		60		50		40		30		20		10	
	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P
-27	4248	1559	3823	1410	3399	1260	2974	1111	2549	961	2124	812	1699	662	1274	513	1246	503	1246	503
-26	4511	1625	4060	1469	3609	1313	3158	1158	2707	1002	2255	846	1804	690	1353	534	1323	524	1323	524
-25	4774	1691	4296	1529	3819	1366	3341	1204	2864	1042	2387	880	1909	718	1432	556	1400	545	1400	545
-24	5036	1756	4533	1588	4029	1419	3525	1251	3022	1083	2518	914	2014	746	1511	577	1477	566	1477	566
-23	5299	1822	4769	1647	4239	1473	3709	1298	3179	1123	2649	948	2120	774	1590	599	1555	587	1555	587
-22	5562	1888	5005	1707	4449	1526	3893	1345	3337	1164	2781	983	2225	802	1668	621	1632	609	1632	609
-21	5824	1953	5242	1766	4659	1579	4077	1391	3495	1204	2912	1017	2330	829	1747	642	1709	630	1709	630
-20	6087	2019	5478	1825	4870	1632	4261	1438	3652	1245	3043	1051	2435	857	1826	664	1786	651	1786	651
-19	6366	2076	5729	1877	5093	1678	4456	1479	3820	1279	3183	1080	2546	881	1910	682	1868	669	1868	669
-18	6645	2132	5980	1928	5316	1723	4651	1519	3987	1314	3322	1110	2658	906	1993	701	1949	687	1949	687
-17	6924	2189	6232	1979	5539	1769	4847	1559	4154	1349	3462	1139	2770	930	2077	720	2031	706	2031	706
-16	7203	2246	6483	2030	5762	1815	5042	1600	4322	1384	3601	1169	2881	954	2161	738	2113	724	2113	724
-15	7482	2302	6734	2082	5986	1861	5237	1640	4489	1419	3741	1199	2993	978	2245	757	2195	742	2195	742
-14	7696	2373	6926	2145	6157	1918	5387	1690	4618	1463	3848	1235	3078	1008	2309	780	2258	765	2258	765
-13	7910	2443	7119	2209	6328	1974	5537	1740	4746	1506	3955	1272	3164	1037	2373	803	2320	788	2320	788
-12	8124	2513	7311	2272	6499	2031	5687	1790	4874	1549	4062	1308	3250	1067	2437	826	2383	810	2383	810
-11	8338	2583	7504	2335	6670	2088	5837	1840	5003	1592	4169	1345	3335	1097	2501	849	2446	833	2446	833
-10	8552	2653	7697	2399	6841	2144	5986	1890	5131	1636	4276	1381	3421	1127	2566	872	2509	855	2509	855
-9	8766	2724	7889	2462	7013	2201	6136	1940	5260	1679	4383	1418	3506	1157	2630	895	2572	878	2572	878
-8	8980	2794	8082	2526	7184	2258	6286	1990	5388	1722	4490	1454	3592	1186	2694	918	2634	901	2634	901
-7	9194	2864	8274	2589	7355	2315	6436	2040	5516	1765	4597	1491	3678	1216	2758	942	2697	923	2697	923
-6	9435	2927	8491	2646	7548	2366	6604	2085	5661	1804	4717	1524	3774	1243	2830	962	2768	944	2768	944
-5	9676	2990	8708	2703	7741	2416	6773	2130	5805	1843	4838	1556	3870	1270	2903	983	2839	964	2839	964
-4	9917	3053	8925	2760	7933	2467	6942	2175	5950	1882	4958	1589	3967	1296	2975	1004	2909	984	2909	984
-3	10158	3116	9142	2817	8126	2518	7110	2220	6095	1921	5079	1622	4063	1323	3047	1024	2980	1005	2980	1005
-2	10399	3179	9359	2874	8319	2569	7279	2264	6239	1960	5199	1655	4159	1350	3120	1045	3051	1025	3051	1025
-1	10639	3242	9576	2931	8512	2620	7448	2309	6384	1998	5320	1688	4256	1377	3192	1066	3121	1045	3121	1045
0	10880	3305	9792	2988	8704	2671	7616	2354	6528	2037	5440	1720	4352	1403	3264	1087	3192	1066	3192	1066
1	11121	3368	10009	3045	8897	2722	7785	2399	6673	2076	5561	1753	4449	1430	3336	1107	3263	1086	3263	1086
2	11362	3431	10226	3102	9090	2773	7954	2444	6817	2115	5681	1786	4545	1457	3409	1128	3333	1106	3333	1106
3	11548	3477	10394	3144	9239	2810	8084	2477	6929	2143	5774	1810	4619	1477	3465	1143	3388	1121	3388	1121
4	11735	3523	10561	3185	9388	2848	8214	2510	7041	2172	5867	1834	4694	1496	3520	1158	3443	1136	3443	1136
5	11921	3569	10729	3227	9537	2885	8344	2543	7152	2200	5960	1858	4768	1516	3576	1174	3497	1151	3497	1151
6	15275	3817	13748	3451	12220	3085	10693	2719	9165	2353	7638	1987	6110	1621	4583	1255	4481	1231	4481	1231
7	15680	3877	14112	3505	12544	3133	10976	2762	9408	2390	7840	2018	6272	1646	4704	1275	4600	1250	4600	1250
8	16085	3937	14476	3560	12868	3182	11259	2804	9651	2427	8042	2049	6434	1672	4825	1294	4719	1269	4719	1269
9	16489	3997	14840	3614	13191	3231	11543	2847	9894	2464	8245	2081	6596	1697	4947	1314	4837	1289	4837	1289
10	16894	4057	15205	3668	13515	3279	11826	2890	10136	2501	8447	2112	6758	1723	5068	1334	4956	1308	4956	1308
11	17299	4117	15569	3722	13839	3328	12109	2933	10379	2538	8649	2143	6919	1748	5190	1354	5075	1327	5075	1327
12	17703	4177	15933	3777	14163	3376	12392	2976	10622	2575	8852	2174	7081	1774	5311	1373	5194	1347	5194	1347
13	18108	4237	16297	3831	14486	3425	12676	3018	10865	2612	9054	2206	7243	1799	5432	1393	5312	1366	5312	1366
14	18513	4297	16661	3885	14810	3473	12959	3061	11108	2649	9256	2237	7405	1825	5554	1413	5431	1385	5431	1385
15	18917	4357	17025	3939	15134	3522	13242	3104	11350	2686	9459	2268	7567	1850	5675	1433	5550	1405	5550	1405
16	19322	4417	17390	3994	15457	3570	13525	3147	11593	2723	9661	2299	7729	1876	5797	1452	5668	1424	5668	1424
17	19726	4477	17754	4048	15781	3619	13809	3189	11836	2760	9863	2331	7891	1901	5918	1472	5787	1444	5787	1444
18	20131	4537	18118	4102	16105	3667	14092	3232	12079	2797	10066	2362	8052	1927	6039	1492	5906	1463	5906	1463
19	20536	4597	18482	4157	16429	3716	14375	3275	12321	2834	10268	2393	8214	1952	6161	1511	6025	1482	6025	1482
20	20940	4657	18846	4211	16752	3764	14658	3318	12564	2871	10470	2424	8376	1978	6282	1531	6143	1502	6143	1502
21	21345	4717	19211	4265	17076	3813	14942	3360	12807	2908	10673	2456	8538	2003	6404	1551	6262	1521	6262	1521
22	21750	4777	19575	4319	17400	3861	15225	3403	13050	2945	10875	2487	8700	2029	6525	1571	6381	1540	6381	1540
23	22154	4837	19939	4374	17723	3910	15508	3446	13293	2982	11077	2518	8862	2054	6646	1590	6499	1560	6499	1560
24	22559	4898	20303	4428	18047	3958	15791	3489	13535	3019	11279	2549	9024	2080	6768	1610	6618	1579	6618	1579

Combination <Rated condition>

Indoor: RAV-HM801FT-EN/ES×3, RAV-HM561FT-EN/ES×4
Outdoor: RAV-GM2243AT8(J)P-E

Operation range		Cooling		Heating	
		Q	P	Q	P
MINIMUM	W	4600	1300	4600	1250
Night operation 3	W	18000	4980	20160	5705

*When outside air temperature is 40°C or more, the night operation does not operate.

Cooling

Outdoor Temperature DB (°C)	Parts Load (%)																			
	100		90		80		70		60		50		40		30		20		10	
	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P
20	21465	3909	19319	3521	17172	3133	15026	2745	12879	2357	10733	1969	8586	1581	6440	1193	5486	1021	5486	1021
21	21234	3981	19111	3586	16987	3190	14864	2795	12740	2400	10617	2005	8494	1610	6370	1215	5426	1039	5426	1039
22	21003	4052	18903	3650	16802	3248	14702	2845	12602	2443	10502	2041	8401	1639	6301	1237	5367	1058	5367	1058
23	20772	4123	18695	3714	16618	3305	14540	2896	12463	2486	10386	2077	8309	1668	6232	1258	5308	1076	5308	1076
24	20541	4195	18487	3778	16433	3362	14379	2946	12325	2529	10271	2113	8216	1696	6162	1280	5249	1095	5249	1095
25	20310	4266	18279	3843	16248	3419	14217	2996	12186	2572	10155	2149	8124	1725	6093	1302	5190	1114	5190	1114
26	20079	4338	18071	3907	16063	3476	14055	3046	12047	2615	10040	2185	8032	1754	6024	1324	5131	1132	5131	1132
27	19848	4409	17863	3971	15878	3534	13894	3096	11909	2658	9924	2221	7939	1783	5954	1345	5072	1151	5072	1151
28	19617	4480	17655	4036	15694	3591	13732	3146	11770	2701	9809	2257	7847	1812	5885	1367	5013	1170	5013	1170
29	19386	4552	17447	4100	15509	3648	13570	3196	11632	2744	9693	2293	7754	1841	5816	1389	4954	1188	4954	1188
30	19155	4623	17240	4164	15324	3705	13409	3246	11493	2787	9578	2329	7662	1870	5747	1411	4895	1207	4895	1207
31	18924	4694	17032	4228	15139	3763	13247	3297	11354	2831	9462	2365	7570	1899	5677	1433	4836	1225	4836	1225
32	18693	4766	16824	4293	14954	3820	13085	3347	11216	2874	9347	2400	7477	1927	5608	1454	4777	1244	4777	1244
33	18462	4837	16616	4357	14770	3877	12923	3397	11077	2917	9231	2436	7385	1956	5539	1476	4718	1263	4718	1263
34	18231	4909	16408	4421	14585	3934	12762	3447	10939	2960	9116	2472	7292	1985	5469	1498	4659	1281	4659	1281
35	18000	4980	16200	4486	14400	3991	12600	3497	10800	3003	9000	2508	7200	2014	5400	1520	4600	1300	4600	1300
36	17769	5051	15992	4550	14215	4049	12438	3547	10661	3046	8885	2544	7108	2043	5331	1541	4541	1319	4541	1319
37	17538	5123	15784	4614	14030	4106	12277	3597	10523	3089	8769	2580	7015	2072	5261	1563	4482	1337	4482	1337
38	17307	5194	15576	4679	13846	4163	12115	3647	10384	3132	8654	2616	6923	2101	5192	1585	4423	1356	4423	1356
39	16588	4889	14929	4404	13271	3919	11612	3433	9953	2948	8294	2463	6635	1977	4976	1492	4239	1276	4239	1276
40*	18072	6764	16265	6052	14458	5339	12650	4626	10843	3913	9036	3201	7229	2488	5422	1775	4157	1276	4157	1276
41*	17713	6764	15941	6052	14170	5339	12399	4626	10628	3913	8856	3201	7085	2488	5314	1775	4074	1276	4074	1276
42*	17353	6764	15618	6052	13883	5339	12147	4626	10412	3913	8677	3201	6941	2488	5206	1775	3991	1276	3991	1276
43*	16994	6764	15294	6052	13595	5339	11896	4626	10196	3913	8497	3201	6797	2488	5098	1775	3909	1276	3909	1276
44*	15070	5261	13563	4707	12056	4152	10549	3598	9042	3044	7535	2489	6028	1935	4521	1381	3466	993	3466	993
45*	14711	5261	13240	4707	11768	4152	10297	3598	8826	3044	7355	2489	5884	1935	4413	1381	3383	993	3383	993
46*	14351	5261	12916	4707	11481	4152	10046	3598	8611	3044	7176	2489	5740	1935	4305	1381	3301	993	3301	993

Heating

Outdoor Temperature DB (°C)	Parts Load (%)																			
	100		90		80		70		60		50		40		30		20		10	
	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P
-27	5462	2295	4916	2062	4370	1830	3823	1598	3277	1366	2731	1134	2185	902	1639	669	1246	503	1246	503
-26	5800	2391	5220	2149	4640	1907	4060	1665	3480	1423	2900	1182	2320	940	1740	698	1323	524	1323	524
-25	6137	2488	5524	2236	4910	1984	4296	1733	3682	1481	3069	1229	2455	978	1841	726	1400	545	1400	545
-24	6475	2584	5828	2323	5180	2061	4533	1800	3885	1538	3238	1277	2590	1016	1943	754	1477	566	1477	566
-23	6813	2681	6132	2410	5450	2138	4769	1867	4088	1596	3406	1325	2725	1053	2044	782	1555	587	1555	587
-22	7151	2778	6436	2497	5720	2216	5005	1935	4290	1653	3575	1372	2860	1091	2145	810	1632	609	1632	609
-21	7488	2874	6740	2583	5991	2293	5242	2002	4493	1711	3744	1420	2995	1129	2247	839	1709	630	1709	630
-20	7826	2971	7043	2670	6261	2370	5478	2069	4696	1769	3913	1468	3130	1167	2348	867	1786	651	1786	651
-19	8185	3054	7366	2745	6548	2436	5729	2127	4911	1818	4092	1509	3274	1200	2455	891	1868	669	1868	669
-18	8543	3138	7689	2820	6835	2503	5980	2185	5126	1868	4272	1550	3417	1233	2563	915	1949	687	1949	687
-17	8902	3221	8012	2895	7122	2569	6232	2243	5341	1918	4451	1592	3561	1266	2671	940	2031	706	2031	706
-16	9261	3305	8335	2970	7409	2636	6483	2302	5557	1967	4630	1633	3704	1299	2778	964	2113	724	2113	724
-15	9620	3388	8658	3045	7696	2702	6734	2360	5772	2017	4810	1674	3848	1331	2886	989	2195	742	2195	742
-14	9895	3491	8905	3138	7916	2785	6926	2432	5937	2078	4947	1725	3958	1372	2968	1019	2258	765	2258	765
-13	10170	3595	9153	3231	8136	2867	7119	2504	6102	2140	5085	1776	4068	1412	3051	1049	2320	788	2320	788
-12	10445	3698	9400	3324	8356	2950	7311	2575	6267	2201	5222	1827	4178	1453	3133	1079	2383	810	2383	810
-11	10720	3801	9648	3417	8576	3032	7504	2647	6432	2263	5360	1878	4288	1494	3216	1109	2446	833	2446	833
-10	10995	3904	9896	3509	8796	3114	7697	2719	6597	2324	5498	1929	4398	1534	3299	1139	2509	855	2509	855
-9	11270	4008	10143	3602	9016	3197	7889	2791	6762	2386	5635	1980	4508	1575	3381	1169	2572	878	2572	878
-8	11546	4111	10391	3695	9236	3279	8082	2863	6927	2447	5773	2031	4618	1615	3464	1199	2634	901	2634	901
-7	11821	4214	10639	3788	9457	3361	8274	2935	7092	2509	5910	2082	4728	1656	3546	1230	2697	923	2697	923
-6	12130	4307	10917	3871	9704	3435	8491	3000	7278	2564	6065	2128	4852	1692	3639	1257	2768	944	2768	944
-5	12440	4400	11196	3954	9952	3509	8708	3064	7464	2619	6220	2174	4976	1729	3732	1284	2839	964	2839	964
-4	12750	4492	11475	4038	10200	3583	8925	3129	7650	2674	6375	2220	5100	1765	3825	1311	2909	984	2909	984
-3	13060	4585	11754	4121	10448	3657	9142	3193	7836	2729	6530	2266	5224	1802	3918	1338	2980	1005	2980	1005
-2	13370	4678	12033	4205	10696	3731	9359	3258	8022	2785	6685	2311	5348	1838	4011	1365	3051	1025	3051	1025
-1	13679	4771	12311	4288	10943	3805	9576	3323	8208	2840	6840	2357	5472	1875	4104	1392	3121	1045	3121	1045
0	13989	4863	12590	4371	11191	3879	9792	3387	8393	2895	6995	2403	5596	1911	4197	1419	3192	1066	3192	1066
1	14299	4956	12869	4455	11439	3953	10009	3452	8579	2950	7149	2449	5720	1947	4290	1446	3263	1086	3263	1086
2	14609	5049	13148	4538	11687	4027	10226	3516	8765	3005	7304	2495	5843	1984	4383	1473	3333	1106	3333	1106
3	14848	5117	13363	4599	11878	4081	10394	3564	8909	3046	7424	2528	5939	2011	4454	1493	3388	1121	3388	1121
4	15087	5184	13579	4660	12107	4135	10561	3611	9052	3086	7544	2562	6035	2037	4526	1513	3443	1136	3443	1136
5	15327	5252	13794	4721	12261	4190	10729	3658	9196	3127	7663	2595	6131	2064	4598	1533	3497	1151	3497	1151
6	19640	5617	17676	5048	15712	4480	13748	3912	11784	3344	9820	2775	7856	2207	5892	1639	3481	1231	4481	1231
7	20160	5705	18144	5128	16128	4551	14112	3973	12096	3396	10080	2819	8064	2242	6048	1665	4600	1250	4600	1250
8	20680	5793	18612	5207	16544	4621	14476	4035	12408	3449	10340	2863	8272	2276	6204	1690	4719	1269	4719	1269
9	21201	5882	19080	5287	16960	4692	14840	4096	12720	3501	10600	2906	8480	2311	6360	1716	4837	1289	4837	1289
10	21721	5970	19549	5366	17377	4762	15205	4158	13032	3554	10860	2950	8688	2346	6516	1742	4956	1308	4956	1308
11	22241	6058	20017	5445	17793	4832	15569	4219	13345	3607	11121	2994	8896	2381	6672	1768	5075	1327	5075	1327
12	22761	6147	20485	5525	18209	4903	15933	4281	13657	3659	11381	3037	9105	2415	6828	1793	5194	1347	5194	1347
13	23282	6235	20953	5604	18625	4973	16297	4343	13969	3712	11641	3081	9313	2450	6984	1819	5312	1366	5312	1366
14	23802	6323	21422	5684	19041	5044	16661	4404	14281	3764	11901	3125	9521	2485	7141	1845	5431	1385	5431	1385
15	24322	6412	21890	5763	19458	5114	17025	4466	14593	3817	12161	3168	9729	2519	7297	1871	5550	1405	5550	1405
16	24842	6500	22358	5842	19874	5185	17390	4527	14905	3869	12421	3212	9937	2554	7453	1897	5668	1424	5668	1424
17	25363	6588	22826	5922	20290	5255	17754	4589	15218	3922	12681	3255	10145	2589	7609	1922	5787	1444	5787	1444
18	25883	6677	23295	6001	20706	5326	18118	4650	15530	3975	12941	3299	10353	2624	7765	1948	5906	1463	5906	1463
19	26403	6765	23763	6081	21122	5396	18482	4712	15842	4027	13202	3343	10561	2658	7921	1974	6025	1482	6025	1482
20	26923	6853	24231	6160	21539	5467	18846	4773	16154	4080	13462	3386	10769	2693	8077	2000	6143	1502	6143	1502
21	27444	6942	24699	6239	21955	5537	19211	4835	16466	4132	13722	3430	10977	2728	8233	2025	6262	1521	6262	1521
22	27964	7030	25167	6319	22371	5608	19575	4896	16778	4185	13982	3474	11186	2762	8389	2051	6381	1540	6381	1540
23	28484	7118	25636	6398	22787	5678	19939	4958	17090	4238	14242	3517	11394	2797	8545	2077	6499	1560	6499	1560
24	29004	7207	26104	6478	23204	5748	20303	5019	17403	4290	14502	3561	11602	2832	8701	2103	6618	1579	6618	1579

Combination <Rated condition>

Indoor: RAV-HM801FT-EN/ES×3, RAV-HM801FT-EN/ES×4
Outdoor: RAV-GM2803AT(J)P-E

Operation range	Cooling		Heating	
	Q	P	Q	P
MINIMUM	W 4600	1330	4600	1280
RATING	W 23500	10550	24000	8310

Cooling

Outdoor Temperature DB (°C)	Parts Load (%)																			
	100		90		80		70		60		50		40		30		20		10	
	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P
20	28024	8282	25221	7382	22419	6482	19617	5582	16814	4682	14012	3782	11210	2882	8407	1982	5605	1082	5486	1044
21	27722	8433	24950	7517	22178	6600	19406	5684	16633	4768	13861	3851	11089	2935	8317	2018	5544	1102	5426	1063
22	27421	8584	24679	7651	21936	6719	19194	5786	16452	4853	13710	3920	10968	2987	8226	2055	5484	1122	5367	1082
23	27119	8735	24407	7786	21695	6837	18983	5888	16271	4939	13560	3989	10848	3040	8136	2091	5424	1142	5308	1101
24	26817	8887	24136	7921	21454	6955	18772	5990	16090	5024	13409	4058	10727	3093	8045	2127	5363	1161	5249	1120
25	26516	9038	23864	8056	21213	7074	18561	6092	15910	5109	13258	4127	10606	3145	7955	2163	5303	1181	5190	1139
26	26214	9189	23593	8191	20971	7192	18350	6194	15729	5195	13107	4196	10486	3198	7864	2199	5243	1201	5131	1158
27	25913	9340	23321	8325	20730	7310	18139	6295	15548	5280	12956	4266	10365	3251	7774	2236	5183	1221	5072	1177
28	25611	9491	23050	8460	20489	7429	17928	6397	15367	5366	12806	4335	10244	3303	7683	2272	5122	1240	5013	1197
29	25310	9643	22779	8595	20248	7547	17717	6499	15186	5451	12655	4404	10124	3356	7593	2308	5062	1260	4954	1216
30	25008	9794	22507	8730	20006	7665	17506	6601	15005	5537	12504	4473	10003	3408	7502	2344	5002	1280	4895	1235
31	24706	9945	22236	8864	19765	7784	17294	6703	14824	5622	12353	4542	9883	3461	7412	2380	4941	1300	4836	1254
32	24405	10096	21964	8999	19524	7902	17083	6805	14643	5708	12202	4611	9762	3514	7321	2417	4881	1319	4777	1273
33	24103	10248	21693	9134	19283	8020	16872	6907	14462	5793	12052	4680	9641	3566	7231	2453	4821	1339	4718	1292
34	23802	10399	21421	9269	19041	8139	16661	7009	14281	5879	11901	4749	9521	3619	7140	2489	4760	1359	4659	1311
35	23500	10550	21150	9404	18800	8257	16450	7111	14100	5964	11750	4818	9400	3672	7050	2525	4700	1379	4600	1330
36	23198	10701	20879	9538	18559	8376	16239	7213	13919	6050	11599	4887	9279	3724	6960	2561	4640	1399	4541	1349
37	22897	10852	20607	9673	18317	8494	16028	7315	13738	6135	11448	4956	9159	3777	6869	2598	4579	1418	4482	1368
38	22595	11004	20336	9808	18076	8612	15817	7417	13557	6221	11298	5025	9038	3829	6779	2634	4519	1438	4423	1387
39	19405	7559	17464	6738	15524	5916	13583	5095	11643	4274	9702	3452	7762	2631	5821	1809	3881	988	3798	953
40	18982	7559	17084	6738	15186	5916	13287	5095	11389	4274	9491	3452	7593	2631	5695	1809	3796	988	3716	953
41	18559	7559	16703	6738	14847	5916	12991	5095	11135	4274	9279	3452	7424	2631	5568	1809	3712	988	3633	953
42	18136	7559	16322	6738	14509	5916	12695	5095	10881	4274	9068	3452	7254	2631	5441	1809	3627	988	3550	953
43	17713	7559	15941	6738	14170	5916	12399	5095	10628	4274	8856	3452	7085	2631	5314	1809	3543	988	3467	953
44	15940	5879	14346	5241	12752	4602	11158	3963	9564	3324	7970	2685	6376	2046	4782	1407	3188	768	3120	741
45	15517	5879	13965	5241	12414	4602	10862	3963	9310	3324	7759	2685	6207	2046	4655	1407	3103	768	3037	741
46	15094	5879	13585	5241	12075	4602	10566	3963	9056	3324	7547	2685	6038	2046	4528	1407	3019	768	2955	741

Heating

Outdoor Temperature DB (°C)	Parts Load (%)																			
	100		90		80		70		60		50		40		30		20		10	
	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P
-27	6522	3039	5870	2721	5217	2403	4565	2085	3913	1767	3261	1449	2609	1131	1957	813	1304	495	1250	468
-26	6988	3223	6289	2886	5590	2548	4891	2211	4193	1874	3494	1536	2795	1199	2096	862	1398	525	1339	496
-25	7453	3407	6708	3050	5963	2694	5217	2337	4472	1981	3727	1624	2981	1268	2236	911	1491	554	1429	525
-24	7919	3591	7127	3215	6335	2839	5543	2464	4752	2088	3960	1712	3168	1336	2376	960	1584	584	1518	553
-23	8385	3775	7547	3380	6708	2985	5870	2590	5031	2195	4193	1800	3354	1405	2516	1009	1677	614	1607	581
-22	8851	3959	7966	3545	7081	3130	6196	2716	5311	2302	4425	1887	3540	1473	2655	1059	1770	644	1696	610
-21	9317	4143	8385	3710	7453	3276	6522	2842	5590	2409	4658	1975	3727	1542	2795	1108	1863	674	1786	638
-20	9783	4327	8804	3874	7826	3422	6848	2969	5870	2516	4891	2063	3913	1610	2935	1157	1957	704	1875	667
-19	10109	4449	9098	3983	8087	3518	7076	3052	6065	2586	5054	2121	4043	1655	3033	1190	2022	724	1938	685
-18	10435	4570	9391	4092	8348	3614	7304	3135	6261	2657	5217	2179	4174	1700	3130	1222	2087	744	2000	704
-17	10761	4692	9685	4201	8609	3710	7533	3219	6457	2728	5380	2237	4304	1746	3228	1255	2152	764	2063	723
-16	11087	4814	9978	4310	8870	3806	7761	3302	6652	2798	5543	2295	4435	1791	3326	1287	2217	783	2125	741
-15	11413	4935	10272	4419	9130	3902	7989	3386	6848	2869	5707	2353	4565	1836	3424	1320	2283	803	2188	760
-14	11753	5085	10577	4553	9402	4021	8227	3489	7052	2957	5876	2424	4701	1892	3526	1360	2351	828	2253	783
-13	12092	5236	10883	4688	9674	4140	8465	3592	7255	3044	6046	2496	4837	1948	3628	1400	2418	852	2318	806
-12	12432	5386	11189	4823	9946	4259	8702	3695	7459	3131	6216	2568	4973	2004	3730	1440	2486	877	2383	830
-11	12772	5537	11495	4957	10217	4378	8940	3798	7663	3219	6386	2639	5109	2060	3832	1481	2554	901	2448	853
-10	13111	5687	11800	5092	10489	4497	9178	3902	7867	3306	6556	2711	5245	2116	3933	1521	2622	926	2513	876
-9	13451	5838	12106	5227	10761	4616	9416	4005	8071	3394	6726	2783	5380	2172	4035	1561	2690	950	2578	899
-8	13791	5988	12412	5361	11033	4735	9654	4108	8274	3481	6895	2855	5516	2228	4137	1601	2758	975	2643	922
-7	14130	6138	12717	5496	11304	4854	9891	4211	8478	3569	7065	2926	5652	2284	4239	1641	2826	999	2708	946
-6	14493	6274	13043	5617	11594	4960	10145	4304	8696	3647	7246	2991	5797	2334	4348	1678	2899	1021	2778	966
-5	14855	6409	13370	5738	11884	5067	10399	4396	8913	3726	7428	3055	5942	2384	4457	1714	2971	1043	2847	987
-4	15217	6544	13696	5859	12174	5174	10652	4489	9130	3804	7609	3119	6087	2435	4565	1750	3043	1065	2917	1008
-3	15580	6679	14022	5980	12464	5281	10906	4582	9348	3883	7790	3184	6232	2485	4674	1786	3116	1087	2986	1029
-2	15942	6814	14348	6101	12754	5388	11159	4674	9565	3961	7971	3248	6377	2535	4783	1822	3188	1109	3056	1050
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1	17029	7219	15326	6464	13623	5708	11920	4952	10217	4197	8514	3441	6812	2686	5109	1930	3406	1175	3264	1112
2	17391	7354	15652	6584	13813	5815	12174	5045	10435	4275	8696	3506	6957	2736	5217	1967	3478	1197	3333	1133
3	17676	7453	15909	6673	14141	5893	12373	5113	10606	4333	8838	3553	7070	2773	5303	1993	3535	1213	3388	1148
4	17961	7552	16165	6761	14369	5971	12573	5181	10777	4390	8981	3600	7184	2810	5388	2019	3592	1229	3443	1163
5	18246	7651	16421	6850	14597	6049	12772	5249	10948	4448	9123	3647	7298	2847	5474	2046	3649	1245	3497	1178
6	23381	8181	11043	7325	18705	6469	16366	5613	14028	4756	11690	3900	9352	3044	7014	2188	4676	1332	4481	1260
7	24000	8310	21600	7440	19200	6571	16800	5701	14400	4831	12000	3962	9600	3092	7200	2222	4800	1352	4600	1280
8	24619	8439	22157	7556	19695	6672	17234	5789	14772	4906	12310	4023	9848	3140	7386	2257	4924	1373	4719	1300
9	25239	8567	22715	7671	20191	6774	17667	5877	15143	4981	12619	4084	10095	3188	7572	2291	5048	1394	4837	1320
10	25858	8696	23272	7786	20686	6876	18101	5966	15515	5056	12929	4146	10343	3235	7757	2325	5172	1415	4956	1339
11	26477	8825	23830	7901	21182	6978	18534	6054	15886	5130	13239	4207	10591	3283	7943	2360	5295	1436	5075	1359
12	27097	8953	24387	8016	21677	7079	18968	6142	16258	5205	13548	4268	10839	3331	8129	2394	5419	1457	5194	1379
13	27716	9082	24945	8132	22173	7181	19401	6231	16630	5280	13858	4330	11086	3379	8315	2429	5543	1478	5312	1399
14	28335	9211	25502	8247	22668	7283	19835	6319	17001	5355	14168	4391	11334	3427	8501	2463	5667	1499	5431	1419
15	28955	9339	26059	8362	23164	7385	20268	6407	17373	5430	14477	4452	11582	3475	8686	2497	5791	1520	5550	1439
16	29574	9468	26617	8477	23659	7486	20702	6495	17745	5504	14787	4514	11830	3523	8872	2532	5915	1541	5668	1458
17	24567	5946	22110	5323	19653	4701	17197	4079	14740	3457	12283	2834	9827	2212	7370	1590	4913	968	4709	916
18	24988	5946	22489	5323	19990	4701	17492	4079	14993	3457	12494	2834	9995	2212	7496	1590	4998	968	4789	916
19	25409	5946	22868	5323	20327	4701	17786	4079	15245	3457	12704	2834	10164	2212	7623	1590	5082	968	4870	916
20	25830	5946	23247	5323	20664	4701	18081	4079	15498	3457	12915	2834	10332	2212	7749	1590	5166	968	4951	916
21	26251	5946	23626	5323	21001	4701	18376	4079	15751	3457	13126	2834	10500	2212	7875	1590	5250	968	5031	916
22	26672	5946	24005	5323	21338	4701	18671	4079	16003	3457	13336	2834	10669	2212	8002	1590	5334	968	5112	916
23	27093	5946	24384	5323	21675	4701	18965	4079	16256	3457	13547	2834	10837	2212	8128	1590	5419	968	5193	916
24	27514	5946	24763	5323	22011	4701	19260	4079	16509	3457	13757	2834	11006	2212	8254	1590	5503	968	5274	916

Combination <Capacity range (Max)>

Indoor: RAV-HM801FT-EN/ES×3, RAV-HM801FT-EN/ES×4
Outdoor: RAV-GM2803AT8(J)P-E

Operation range		Cooling		Heating	
		Q	P	Q	P
MINIMUM	W	4600	1330	4600	1280
RATING	W	23500	10550	24000	8310
MAXIMUM	W	25000	10870	28000	9330

Cooling

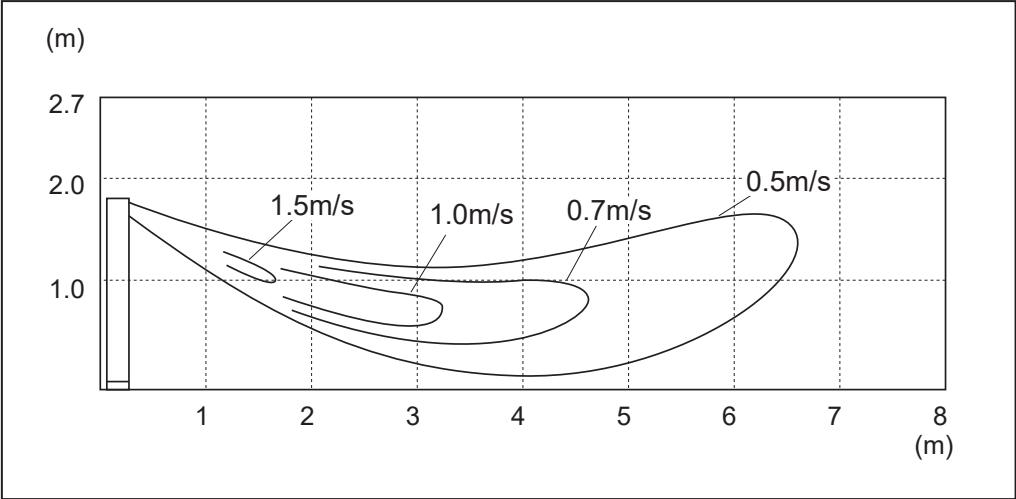
Outdoor Temperature DB (°C)	Parts Load (%)																			
	100		90		80		70		60		50		40		30		20		10	
	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P
20	32126	10276	28914	9171	25701	8065	22488	6960	19276	5855	16063	4750	12850	3645	9638	2539	6425	1434	5911	1257
21	31780	10463	28602	9338	25424	8213	22246	7087	19068	5962	15890	4837	12712	3711	9534	2586	6356	1460	5848	1280
22	31435	10651	28291	9506	25148	8360	22004	7214	18861	6069	15717	4923	12574	3778	9430	2632	6287	1487	5784	1303
23	31089	10839	27980	9673	24871	8507	21762	7341	18653	6176	15544	5010	12436	3844	9327	2678	6218	1513	5720	1326
24	30558	10870	27502	9701	24446	8532	21391	7363	18335	6194	15279	5024	12223	3855	9167	2686	6112	1517	5623	1330
25	30002	10870	27001	9701	24001	8532	21001	7363	18001	6194	15001	5024	12001	3855	9000	2686	6000	1517	5520	1330
26	29457	10870	26511	9701	23565	8532	20620	7363	17674	6194	14728	5024	11783	3855	8837	2686	5891	1517	5420	1330
27	28923	10870	26031	9701	23139	8532	20246	7363	17354	6194	14462	5024	11569	3855	8677	2686	5785	1517	5322	1330
28	28400	10870	25560	9701	22720	8532	19880	7363	17040	6194	14200	5024	11360	3855	8520	2686	5680	1517	5226	1330
29	27888	10870	25099	9701	22310	8532	19521	7363	16733	6194	13944	5024	11155	3855	8366	2686	5578	1517	5131	1330
30	27385	10870	24646	9701	21908	8532	19169	7363	16431	6194	13692	5024	10954	3855	8215	2686	5477	1517	5039	1330
31	26891	10870	24202	9701	21513	8532	18823	7363	16134	6194	13445	5024	10756	3855	8067	2686	5378	1517	4948	1330
32	26406	10870	23765	9701	21125	8532	18484	7363	15843	6194	13203	5024	10562	3855	7922	2686	5281	1517	4859	1330
33	25929	10870	23336	9701	20743	8532	18150	7363	15558	6194	12965	5024	10372	3855	7779	2686	5186	1517	4771	1330
34	25461	10870	22915	9701	20369	8532	17823	7363	15276	6194	12730	5024	10184	3855	7638	2686	5092	1517	4685	1330
35	25000	10870	22500	9701	20000	8532	17500	7363	15000	6194	12500	5024	10000	3855	7500	2686	5000	1517	4600	1330
36	24547	10870	22092	9701	19637	8532	17183	7363	14728	6194	12273	5024	9819	3855	7364	2686	4909	1517	4517	1330
37	24100	10870	21690	9701	19280	8532	16870	7363	14460	6194	12050	5024	9640	3855	7230	2686	4820	1517	4434	1330
38	23661	10870	21295	9701	18929	8532	16563	7363	14197	6194	11830	5024	9464	3855	7098	2686	4732	1517	4354	1330
39	20021	7247	18019	6467	16017	5688	14015	4908	12013	4129	10011	3350	8008	2570	6006	1791	4004	1011	3684	887
40	19585	7247	17626	6467	15668	5688	13709	4908	11751	4129	9792	3350	7834	2570	5875	1791	3917	1011	3604	887
41	19148	7247	17233	6467	15318	5688	13404	4908	11489	4129	9574	3350	7659	2570	5744	1791	3830	1011	3523	887
42	18712	7247	16840	6467	14969	5688	13098	4908	11227	4129	9356	3350	7485	2570	5613	1791	3742	1011	3443	887
43	18275	7247	16448	6467	14620	5688	12793	4908	10965	4129	9138	3350	7310	2570	5483	1791	3655	1011	3363	887
44	16446	5636	14802	5030	13157	4424	11512	3818	9868	3211	8223	2605	6578	1999	4934	1393	3289	787	3026	690
45	16010	5636	14409	5030	12808	4424	11207	3818	9606	3211	8005	2605	6404	1999	4803	1393	3202	787	2946	690
46	15573	5636	14016	5030	12459	4424	10901	3818	9344	3211	7787	2605	6229	1999	4672	1393	3115	787	2865	690

Heating

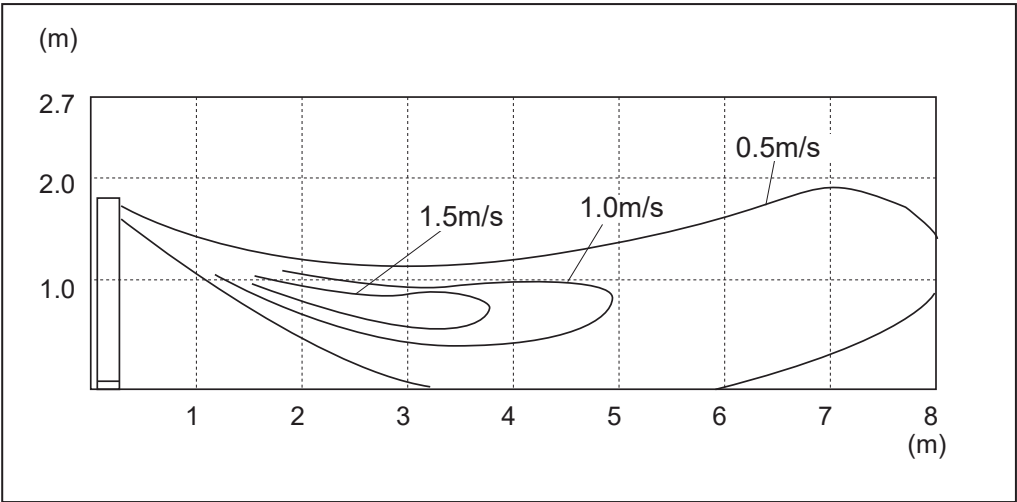
Outdoor Temperature DB (°C)	Parts Load (%)																			
	100		90		80		70		60		50		40		30		20		10	
	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P
-27	9856	6451	8871	5785	7885	5119	6899	4453	5914	3787	4928	3121	3943	2455	2957	1789	1971	1123	1619	885
-26	10560	6842	9504	6136	8448	5429	7392	4723	6336	4017	5808	3310	4224	2604	3168	1897	2112	1191	1735	939
-25	11264	7233	10138	6486	9012	5739	7885	4993	6759	4246	5632	3499	4506	2752	3379	2006	2253	1259	1851	992
-24	11968	7624	10772	6837	9575	6050	8378	5262	7181	4475	5984	3688	4787	2901	3591	2114	2394	1327	1966	1046
-23	12672	8015	11405	7187	10138	6360	8871	5532	7603	4705	6336	3877	5069	3050	3802	2222	2534	1395	2082	1100
-22	13376	8405	12039	7537	10701	6670	9364	5802	8026	4934	6688	4066	5351	3199	4013	2331	2675	1463	2198	1153
-21	14081	8796	12672	7888	11264	6980	9856	6072	8448	5164	7040	4255	5632	3347	4224	2439	2816	1531	2313	1207
-20	14785	9187	13306	8238	11828	7290	10349	6341	8871	5393	7392	4444	5914	3496	4435	2548	2957	1599	2429	1260
-19	15277	9445	13750	8470	12222	7495	10694	6520	9166	5544	7639	4569	6111	3594	4583	2619	3055	1644	2510	1296
-18	15770	9703	14193	8701	12616	7699	11039	6698	9462	5696	7885	4694	6308	3692	4731	2691	3154	1689	2591	1331
-17	16263	9961	14637	8933	13010	7904	11384	6876	9758	5847	8132	4819	6505	3791	4879	2762	3253	1734	2672	1367
-16	16756	10219	15080	9164	13405	8109	11729	7054	10053	5999	8378	4944	6702	3889	5027	2834	3351	1779	2753	1402
-15	17249	10477	15524	9395	13799	8314	12074	7232	10349	6150	8624	5069	6899	3987	5175	2905	3450	1824	2834	1437
-14	17762	10796	15986	9682	14210	8567	12433	7453	10657	6338	8881	5223	7105	4109	5329	2994	3552	1879	2918	1481
-13	18275	11116	16448	9968	14620	8821	12793	7673	10965	6525	9138	5378	7310	4230	5483	3082	3655	1935	3002	1525
-12	18789	11435	16910	10255	15031	9074	13152	7893	11273	6713	9394	5532	7515	4352	5637	3171	3758	1990	3087	1569
-11	19302	11754	17372	10541	15442	9327	13511	8114	11581	6900	9651	5687	7721	4473	5791	3260	3860	2046	3171	1613
-10	19815	12074	17834	10827	15852	9581	13871	8334	11889	7088	9908	5841	7926	4595	5945	3348	3963	2102	3255	1656
-9	20329	12393	18296	11114	16263	9834	14230	8555	12197	7275	10164	5996	8132	4716	6099	3437	4066	2157	3340	1700
-8	20842	12713	18758	11400	16674	10088	14589	8775	12505	7463	10421	6150	8337	4838	6253	3525	4168	2213	3424	1744
-7	21355	13032	19220	11686	17084	10341	14949	8996	12813	7650	10678	6305	8542	4959	6407	3614	4271	2268	3508	1788
-6	21903	13319	19713	11944	17522	10569	15332	9193	13142	7818	10952	6443	8761	5068	6571	3693	4381	2318	3598	1827
-5	22451	13605	20206	12201	17960	10796	15715	9391	13470	7987	11225	6582	8980	5177	6735	3773	4490	2368	3688	1867
-4	22998	13892	20698	12458	18399	11024	16099	9589	13799	8155	11499	6721	9199	5287	6899	3852	4600	2418	3778	1906
-3	23546	14179	21191	12715	18837	11251	16482	9787	14127	8323	11773	6860	9418	5396	7064	3932	4709	2468	3868	1945
-2	24093	14466	21684	12972	19275	11479	16865	9985	14456	8492	12047	6998	9637	5505	7228	4011	4819	2518	3958	1985
-1	24641	14752	22177	13229	19713	11706	17249	10183	14785	8660	12320	7137	9856	5614	7392	4091	4928	2568	4048	2024
0	25188	15039	22670	13486	20151	11934	17632	10381	15113	8828	12594	7276	10075	5723	7557	4170	5038	2618	4138	2063
1	25736	15326	23162	13743	20589	12161	18015	10579	15442	8997	12868	7414	10294	5832	7721	4250	5147	2668	4228	2103
2	26284	15612	23655	14001	21027	12389	18399	10777	15770	9165	13142	7553	10513	5941	7885	4329	5257	2718	4318	2142
3	26863	15874	24176	14235	21490	12596	18804	10957	16118	9318	13431	7680	10745	6041	8059	4402	5373	2763	4413	2178
4	27448	16135	24703	14469	21958	12803	19213	11138	16469	9472	13724	7806	10979	6140	8234	4474	5490	2809	4509	2214
5	27422	9330	21980	8367	19538	7404	19096	6440	14653	5477	12211	4514	9769	3551	7327	2587	4884	1624	4012	1280
6	24472	9330	24724	8367	21977	7404	19230	6440	14683	5477	13736	4514	10889	3551	8241	2587	5494	1624	4513	1280
7	28000	9330	25200	8367	22400	7404	19600	6440	16800	5477	14000	4514	11200	3551	8400	2587	5600	1624	4600	1280
8	28524	9330	25672	8367	22819	7404	19967	6440	17115	5477	14262	4514	11410	3551	8557	2587	5705	1624	4686	1280
9	29045	9330	26140	8367	23236	7404	20331	6440	17427	5477	14522	4514	11618	3551	8713	2587	5809	1624	4772	1280
10	29561	9330	26605	8367	23649	7404	20693	6440	17737	5477	14781	4514	11825	3551	8868	2587	5912	1624	4857	1280
11	30075	9330	27067	8367	24060	7404	21052	6440	18045	5477	15037	4514	12030	3551	9022	2587	6015	1624	4941	1280
12	30584	9330	27526	8367	24468	7404	21409	6440	18351	5477	15292	4514	12234	3551	9175	2587	6117	1624	5025	1280
13	31091	9330	27982	8367	24873	7404	21764	6440	18655	5477	15545	4514	12436	3551	9327	2587	6218	1624	5108	1280
14	31594	9330	28435	8367	25276	7404	22116	6440	18957	5477	15797	4514	12638	3551	9478	2587	6319	1624	5191	1280
15	32095	9330	28885	8367	25676	7404	22466	6440	19257	5477	16047	4514	12838	3551	9628	2587	6419	1624	5273	1280
16	32593	9330	29333	8367	26074	7404	22815	6440	19556	5477	16296	4514	13037	3551	9778	2587	6519	1624	5354	1280
17	33631	9330	30268	8367	26904	7404	23541	6440	20178	5477	16815	4514	13452	3551	10089	2587	6726	1624	5525	1280
18	34207	9330	30786	8367	27366	7404	23945	6440	20524	5477	17103	4514	13683	3551	10262	2587	6841	1624	5620	1280
19	34783	9330	31305	8367	27827	7404	24348	6440	20870	5477	17392	4514	13913	3551	10435	2587	6957	1624	5714	1280
20	35360	9330	31824	8367	28288	7404	24752	6440	21216	5477	17680	4514	14144	3551	10608	2587	7072	1624	5809	1280
21	35936	9330	32343	8367	28749	7404	25155	6440	21562	5477	17968	4514	14374	3551	10781	2587	7187	1624	5904	1280
22	36513	9330	32861	8367	29210	7404	25559	6440	21908	5477	18256	4514	14605	3551	10954	2587	7303	1624	5998	1280
23	37089	9330	33380	8367	29671	7404	25962	6440	22253	5477	18544	4514	14836	3551	11127	2587	7418	1624	6093	1280
24	37665	9330	33899	8367	30132	7404	26366	6440	22599	5477	18833	4514	15066	3551	11300	2587	7533	1624	6188	1280

2-8.6 . Air throw distance chart

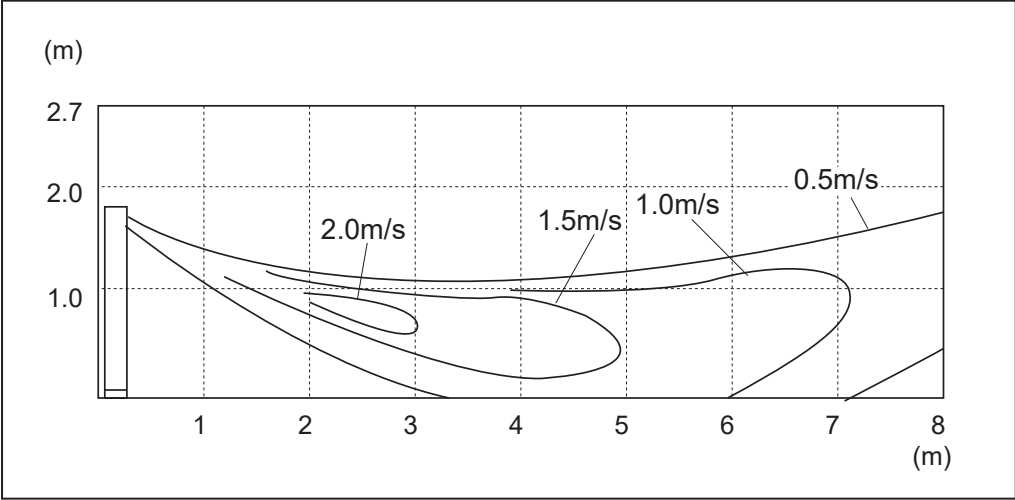
RAV-HM561FT-E / TR



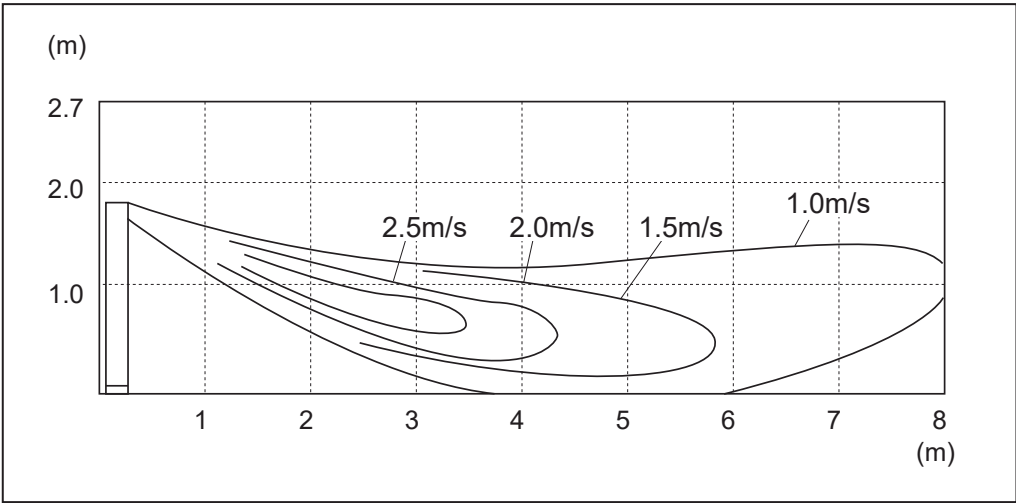
RAV-HM801FT-E / TR



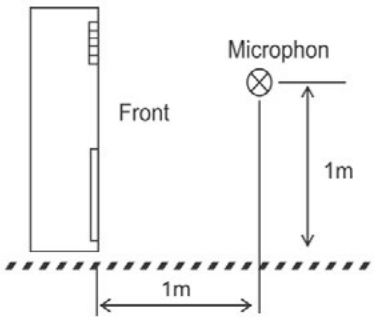
RAV-HM1101FT-E / TR



RAV-HM1401FT-E / TR

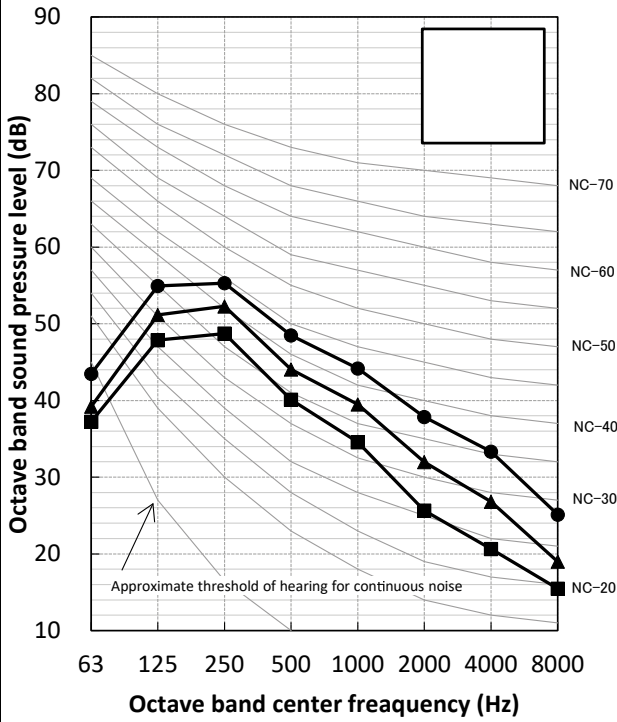


2-8.7 Sound characteristics (NC curve)



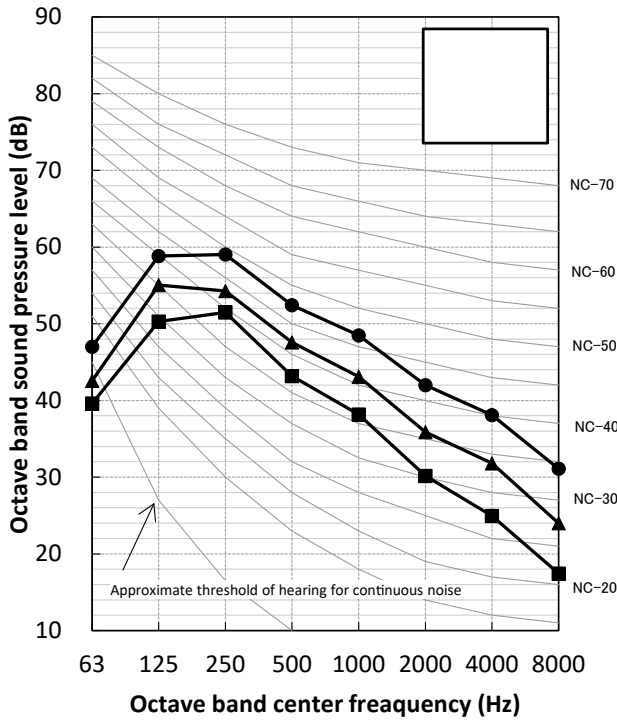
RAV-HM561 FT-E, TR

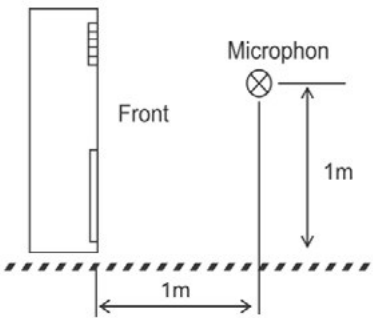
Fan tap	H	M	L
Sound pressure (dBA)	46	42	38



RAV-HM801 FT-E , TR

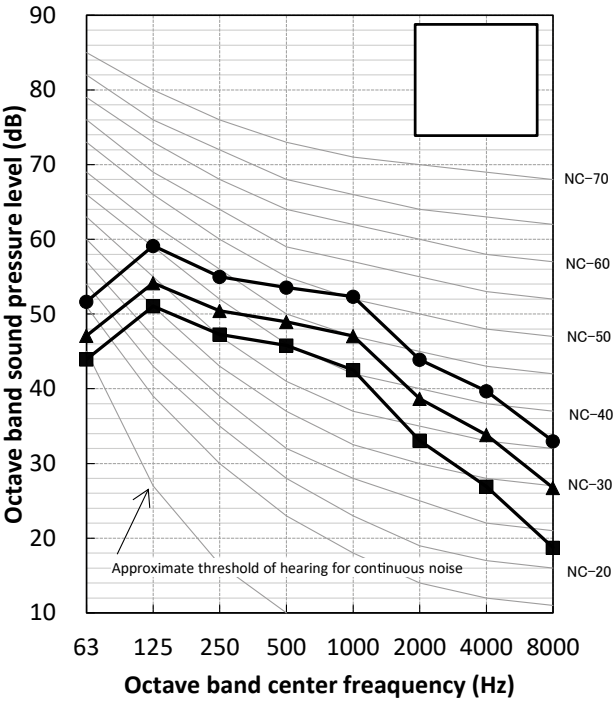
Fan tap	H	M	L
Sound pressure (dBA)	50	45	41





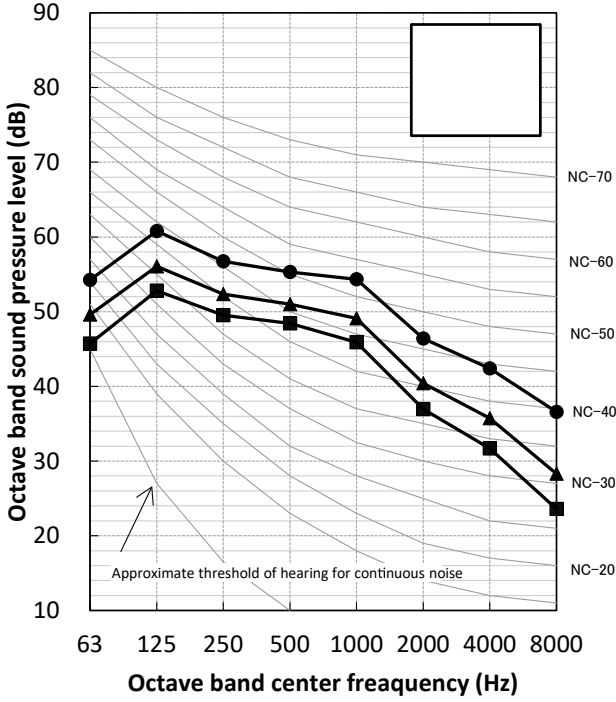
RAV-HM1101 FT-E,TR

Fan tap	H	M	L
Sound pressure (dBA)	51	46	41



RAV-HM1401 FT-E,TR

Fan tap	H	M	L
Sound pressure (dBA)	53	48	45



Outdoor unit Contents

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3.1 Specification

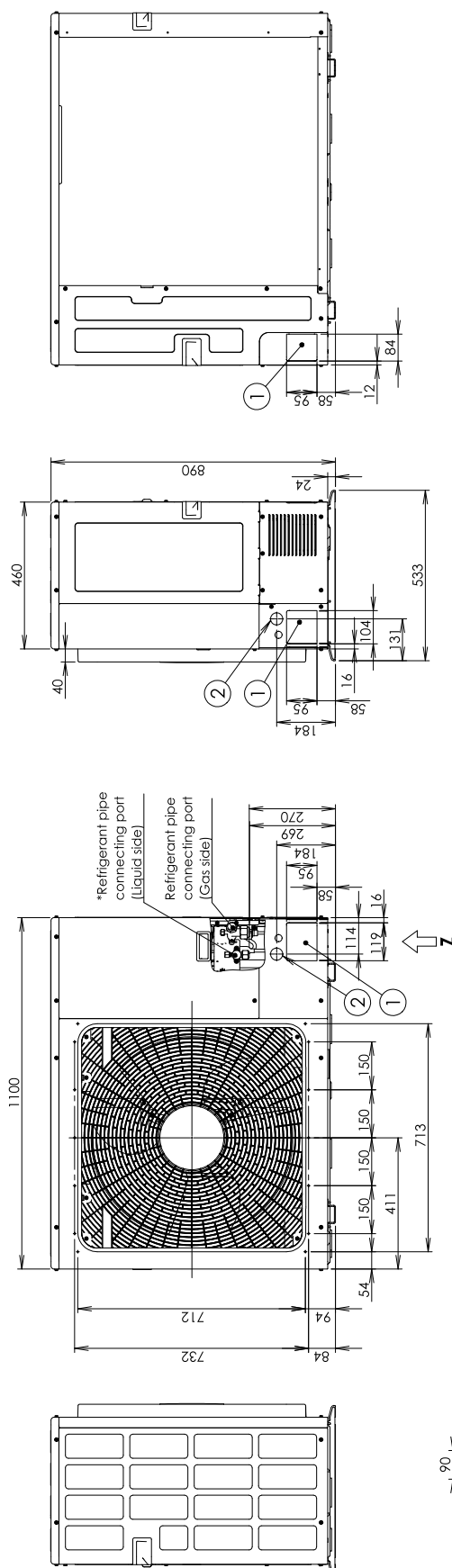
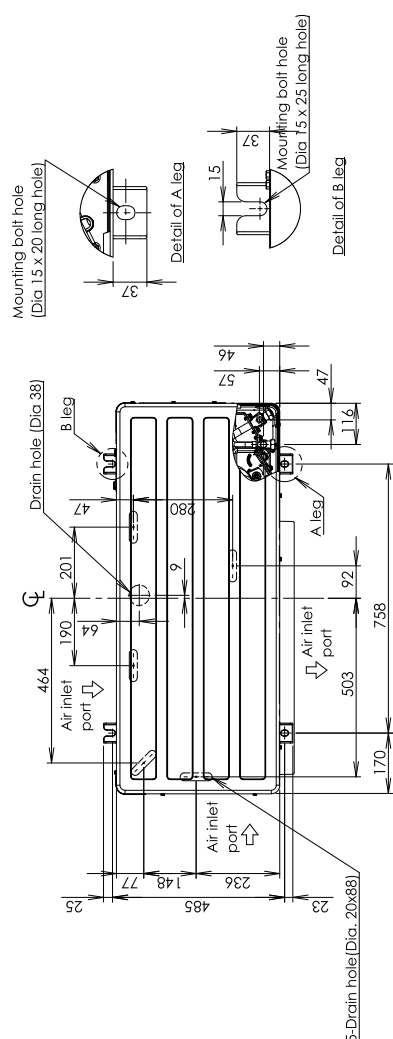
Model	Outdoor unit		RAV-GM	2243AT8(J)P-E 2243AT8(J)P-TR	2803AT8(J)P-E 2803AT8(J)P-TR
Power supply				3 phase 380-415, 50Hz / 380V, 60Hz (Power exclusive to outdoor is required)	
Compressor	Type		Hermetic compressor		
	Motor (kW)		5.6	5.6	
	Pole		8	8	
Refrigerant charged			(kg)	4.6	4.6
Refrigerant control				Pulse motor valve	
Pipe	Max (m)		100	100	
	Min (m)		5	5	
	Height	Outdoor lower	30	30	
	difference	Outdoor Height	30	30	
Outer dimension	Height (m)		890	890	
	Width (m)		1100	1100	
	Depth (m)		460	460	
Appearance				Silky shade (Munsell 1Y8.5/0.5)	
Total weight			(kg)	117	117
Heat exchanger				Finned tube	
Fan unit	Fan		Propeller fan		
	Standard air flow (m³/hr)		6600	7600	
	Motor (W)		600	600	
Connecting pipe (Outdoor unit side)	Gas side (mm)		28.6	28.6	
	Liquid side (mm)		12.7	12.7	
Sound pressure level	Cooling/Heating (dB-A)		58/60	61/63	
Sound power level	Cooling/Heating (dB-A)		75/77	78/80	
Outside air temperature cooling			(°C)	46 to -20°C	
Outside air temperature heating			(°C)	15 to -27°C	

3-2. Dimension

RAV-GM2243AT8(J)P-E/TR

RAV-GM2803AT8(J)P-E/TR

	Name	Note
①	Refrigerant piping hole Indoor/Outdoor unit connecting wire inlet hole	Knockout hole
②	Power supply inlet hole	Dia 38 Knockout hole



(Unit : mm)

7 View

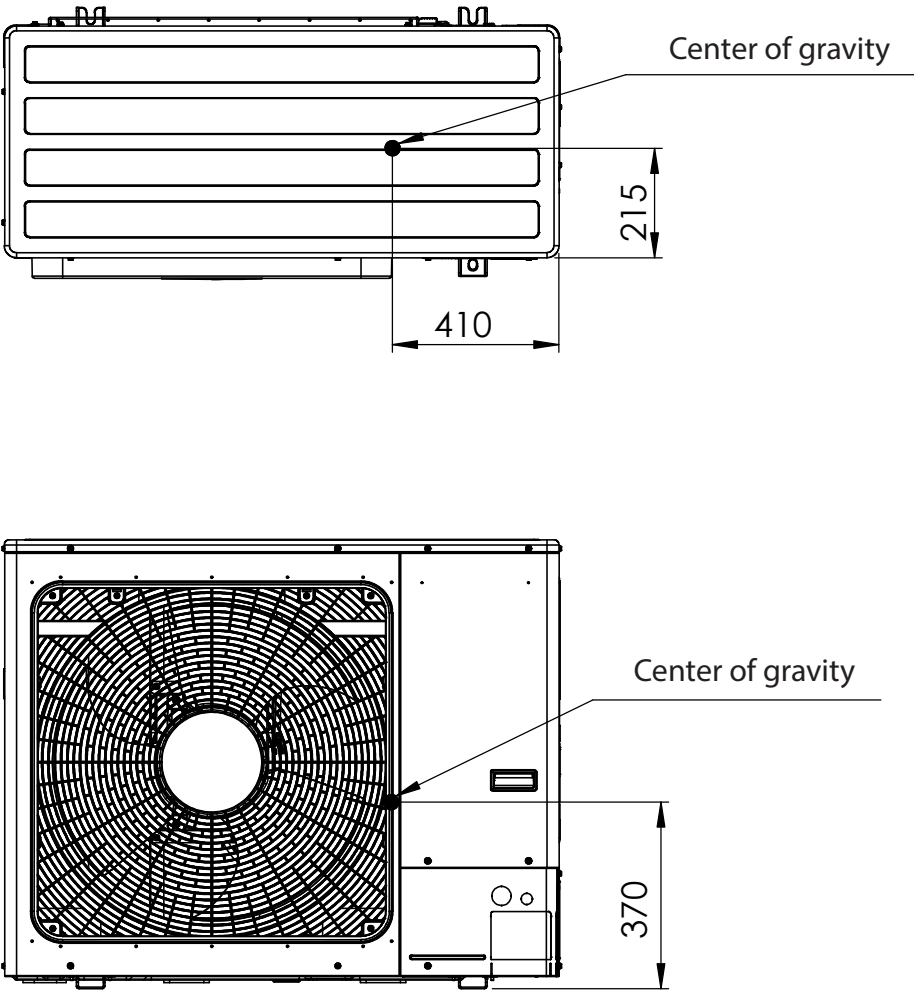
Knockout for downward piping

Z View

3-3. Center of gravity

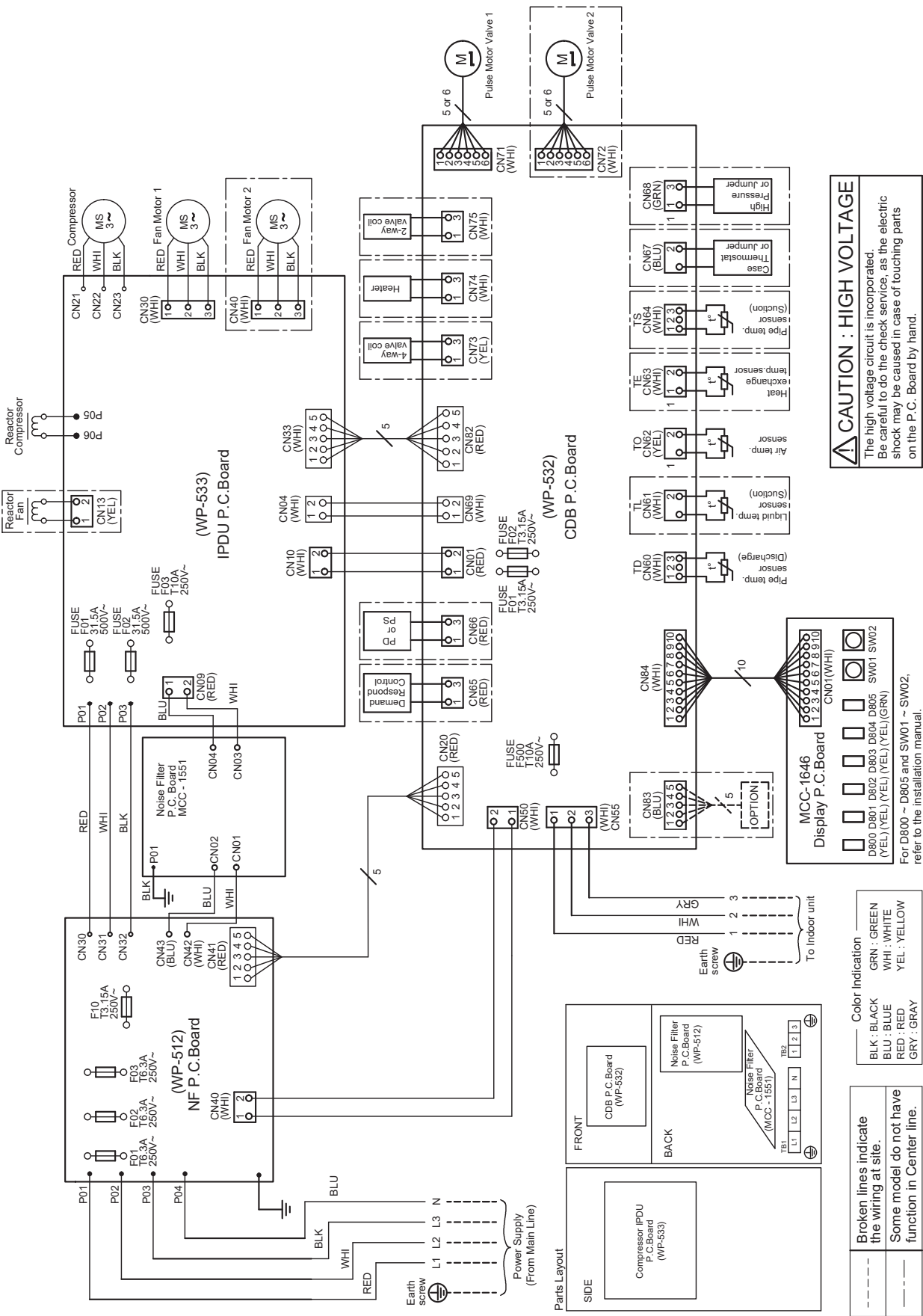
RAV-GM2243AT8(J)P-E/TR
RAV-GM2803AT8(J)P-E/TR

(Unit : mm)



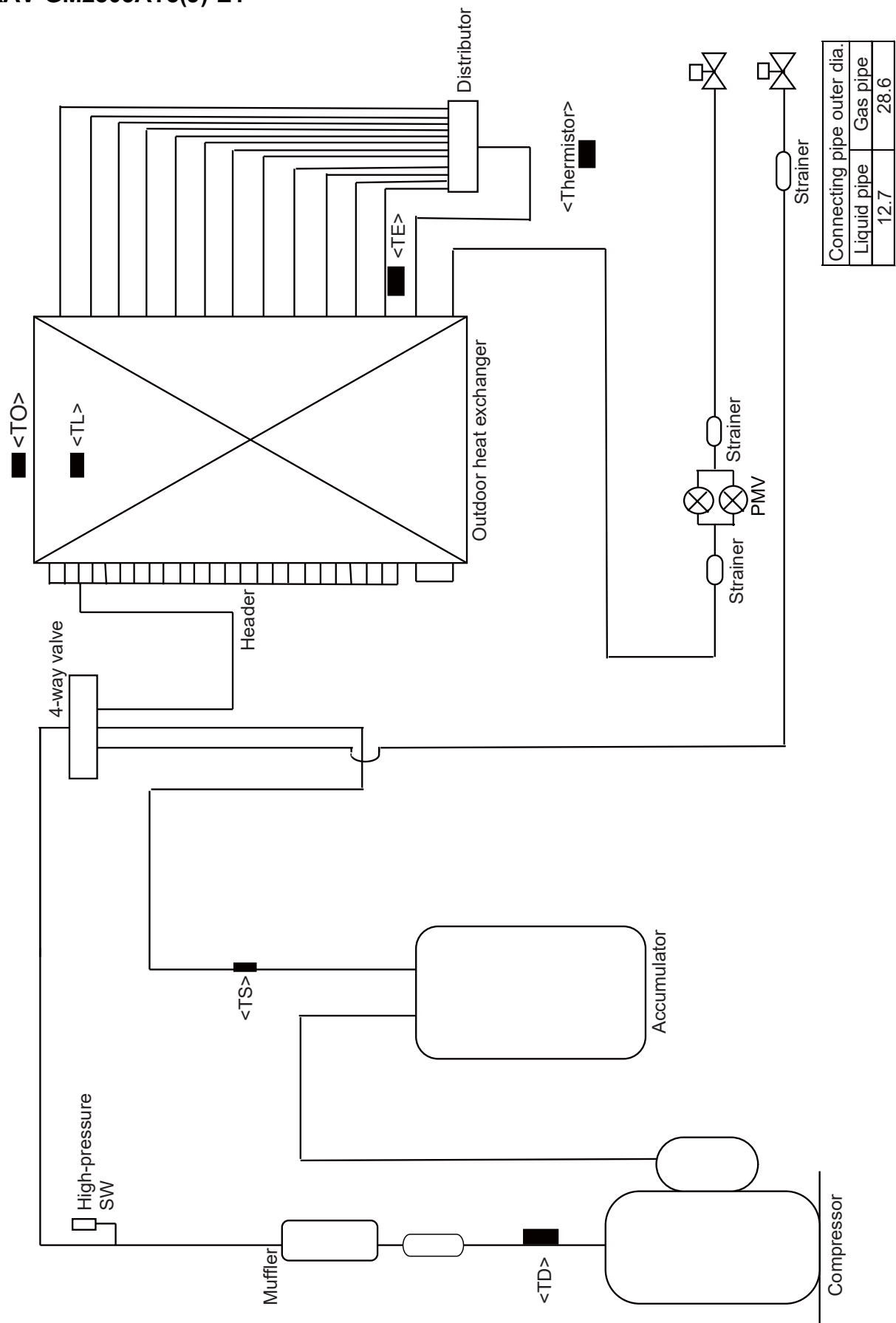
3-4. Wiring Drawing

RAV-GM2243AT8(J)P-E/TR
RAV-GM2803AT8(J)P-E/TR



3-5. Refrigerant Cycle Diagram

RAV-GM2243AT8(J)-E1
RAV-GM2803AT8(J)-E1



Systematic diagram of refrigerating cycle

RAV-GM224 series

		Pressure				Pipe surface temperature (°C)				Comp Hz	Fan	Temp	
		(MPa)		(kg/cm ² G)								In	Out
		Pd	Ps	Pd	Ps	(TD)	(TS)	(TC)	(TE)				
Cooling	Standard	3.22	0.93	32.83	9.44	94.58	10.56	14.00	35.60	52.8	High	27/19	35/24
	Overload	3.58	1.12	36.50	11.38	85.74	19.22	19.00	48.32	37.8	High	32/23	46/28
	Low load	2.12	1.09	21.64	11.09	54.63	7.41	9.00	-6.75	33.0	Low	18/13	-20/--
Heating	Standard	2.82	0.65	28.80	6.60	80.22	0.10	38.00	0.67	68.4	High	20/15	7/6
	Overload	3.33	1.22	33.92	12.47	83.65	13.87	53.00	13.77	33.0	Low	30/-	24/18
	Low load	1.46	0.29	14.91	2.97	81.19	-28.96	22.00	-27.97	102.6	High	5/-	-27/-

This compressor has a 4-pole motor.

The value of the compressor frequency (Hz) when measured by a clamp meter is twice the compressor revolution number (rps).

This data is cycle data obtained by combining a four-way ceiling cassette simultaneous twin at a target pipe length. Data will change depending on the mounted pipe length or combination with the indoor unit.

RAV-GM280 series

		Pressure				Pipe surface temperature (°C)				Comp Hz	Fan	Temp	
		(MPa)		(kg/cm ² G)									
		Pd	Ps	Pd	Ps	(TD)	(TS)	(TC)	(TE)			In	Out
Cooling	Standard	3.45	0.86	35.17	8.78	90.79	9.29	11.00	36.25	69.0	High	27/19	35/24
	Overload	3.68	1.24	37.53	12.65	84.63	18.19	18.00	46.41	39.0	High	32/23	46/28
	Low load	2.23	0.97	22.77	9.90	56.58	6.82	8.00	-10.22	33.0	Low	18/13	-20/--
Heating	Standard	2.47	0.65	25.22	6.60	65.63	0.38	40.00	1.53	74.4	High	20/15	7/6
	Overload	3.34	1.23	34.01	12.57	85.13	15.98	53.00	12.86	33.0	Low	30/-	24/18
	Low load	1.55	0.31	15.84	3.18	83.49	-29.74	23.00	-27.97	103.8	High	5/-	-27/--

This compressor has a 4-pole motor.

The value of the compressor frequency (Hz) when measured by a clamp meter is twice the compressor revolution number (rps).

This data is cycle data obtained by combining a four-way ceiling cassette simultaneous twin at a target pipe length. Data will change depending on the mounted pipe length or combination with the indoor unit.

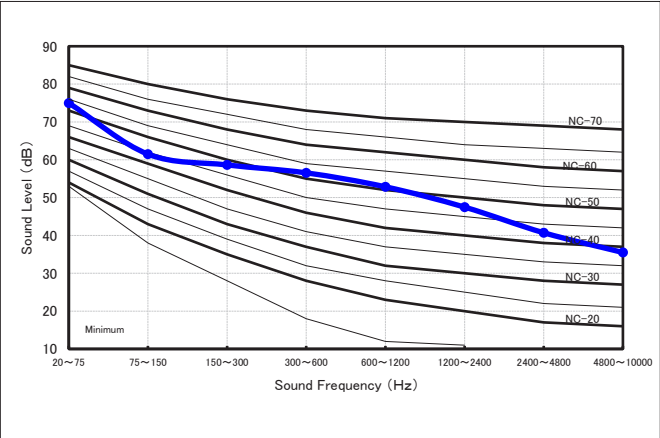
3-6. Sound Data

3-6-1. NC Curve

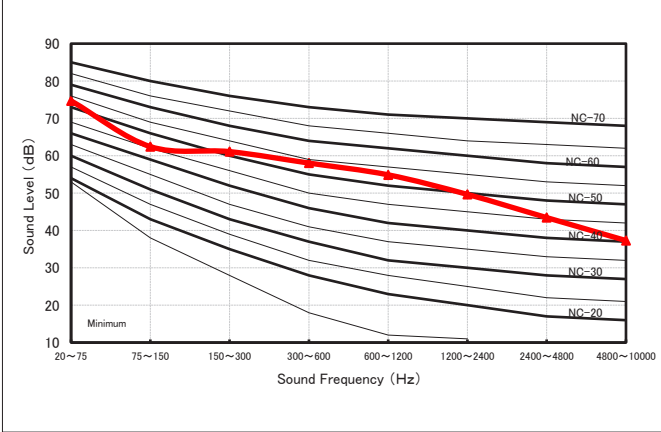
RAV-GM2243AT8(J)P-E/TR

Sound pressure level (dB(A))	Cooling	Heating
	58	60

Cooling



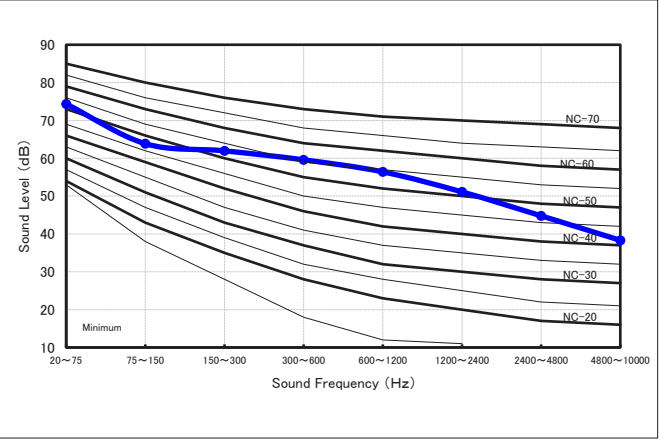
Heating



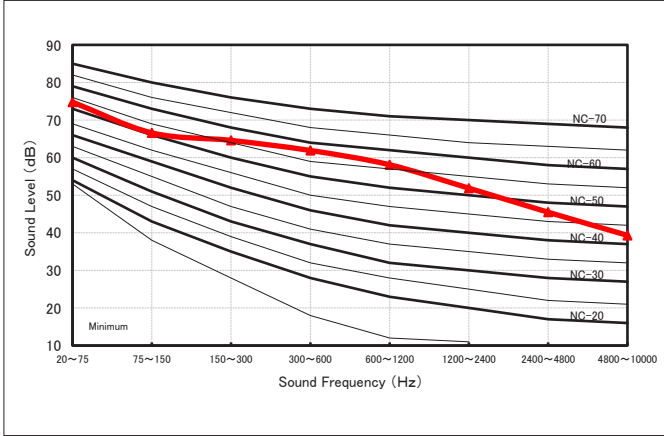
RAV-GM2803AT8(J)P-E/TR

Sound pressure level (dB(A))	Cooling	Heating
	61	63

Cooling

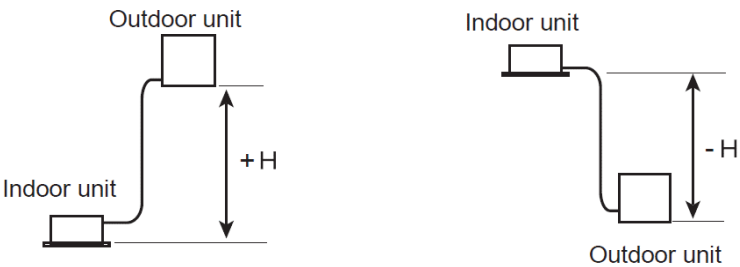


Heating

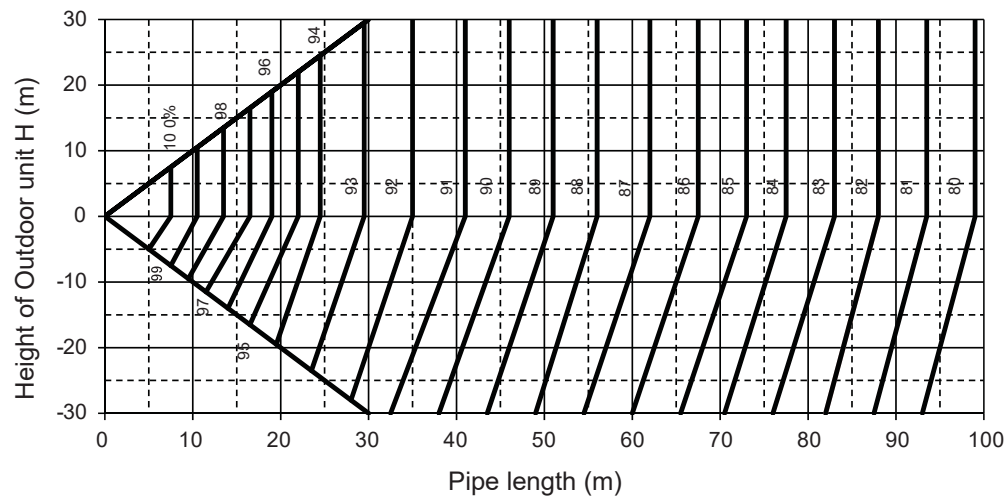


3-7. Pipe Capacity Correction

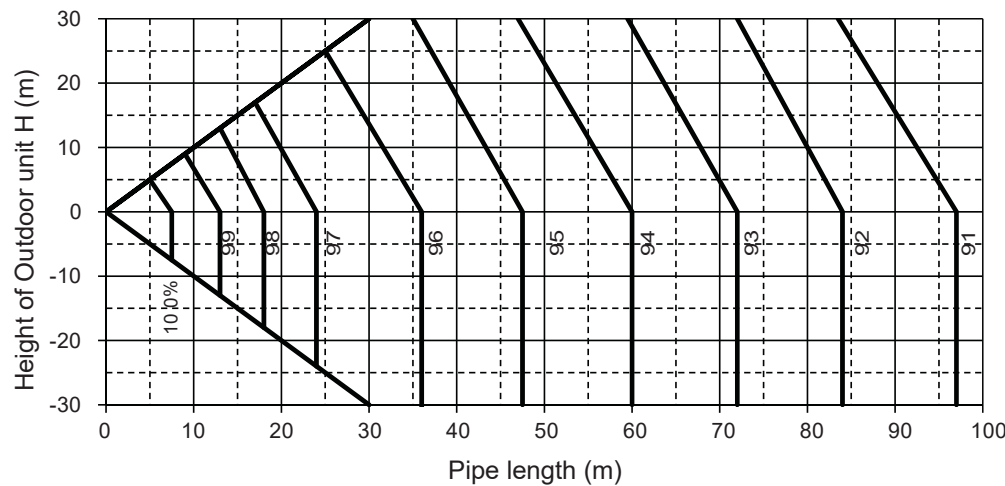
Connecting pipe length and lift difference between indoor units vs. capacity correction value



[Cooling]



[Heating]



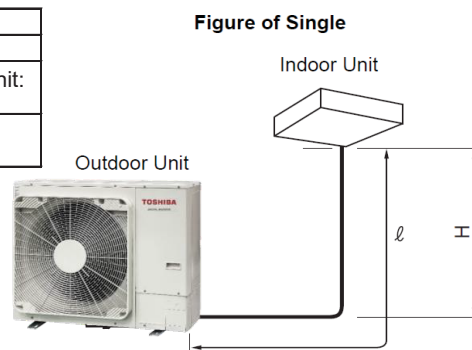
3-8. Refrigerant Pipe Length

Refrigerant Pipe Length

Single system

	Allowable pipe length (m)				
	Total length(m)			Height difference (m)	
	Minimum length	Maximum length	Charge less length	Outdoor unit: Upper	Indoor unit: Upper
GM224	5	100	30	30	30
GM280					

	Pipe diameter (mm)		Number of bent portions
	Gas side	Liquid side	
GM224	ø 28.6	ø 12.7	10 or less
GM280			10 or less



Simultaneous Twin, Triple system

		Allowable pipe length (m)						
		Total length(m)				Height difference (m)		
		Total length • l 1 ≡ 2 • l 1 ≡ 3 • l 1 ≡ 4	Branch pipe length • l 2 • l 3 • l 4	Branch pipe difference • l 3 ≡ 2 • l 4 ≡ 2 • l 4 ≡ 3	Charge less length	Outdoor unit: Upper	Indoor unit: Upper	Indoor-indoor (Δh)
Twin	GM224	Equivalent length:125 Real length :100	20	10	30	30	30	0.5
	GM280							
Triple	GM224	Equivalent length:125 Real length :100	20	10	30	30	30	0.5
	GM280							

		Pipe diameter (mm)				Number of bent portions
		Main pipe (mm)		Branch piping (mm)		
		Gas side	Liquid side	Gas side	Liquid side	
Twin	GM224	ø 28.6	ø 12.7	ø 15.9	ø 9.5	10 or less
	GM280					10 or less
Triple	GM224	ø 28.6	ø 12.7	ø 15.9	ø 9.5	10 or less
	GM280					10 or less

Figure of Simultaneous twin

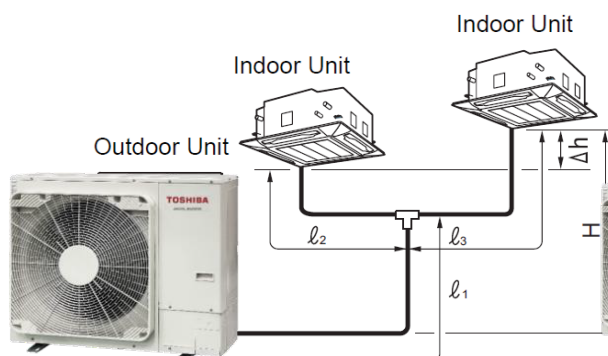
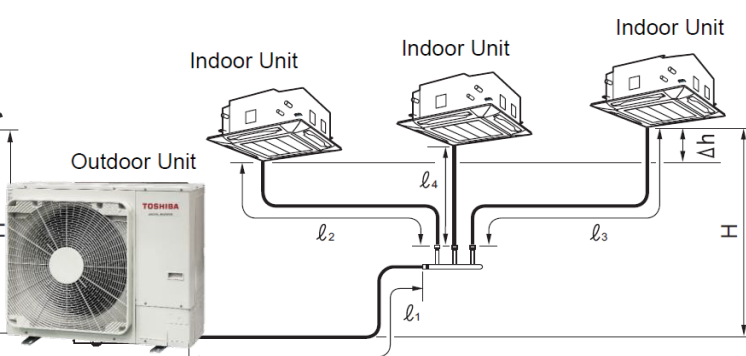


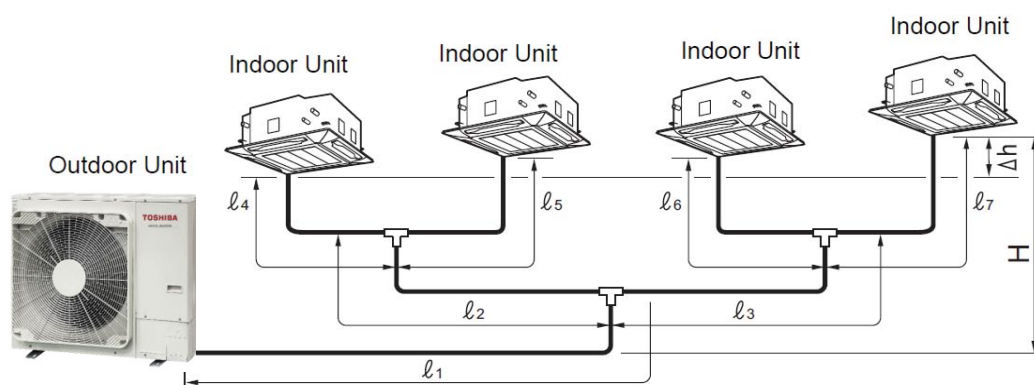
Figure of Simultaneous triple



Simultaneous Double Twin system

	Allowable pipe length (m)						
	Maximum Pipe length(m)				Height difference (m)		
	Total length • $\ell_1 + 2 + \ell_4$ • $\ell_1 + 2 + \ell_5$ • $\ell_1 + 3 + \ell_6$ • $\ell_1 + 3 + \ell_7$	Branch pipe length • ℓ_4 • ℓ_5 • ℓ_6 • ℓ_7	Branch piping • $(\ell_4 + \ell_2) - (\ell_5 + \ell_2)$ • $(\ell_4 + \ell_2) - (\ell_6 + \ell_3)$ • $(\ell_4 + \ell_2) - (\ell_7 + \ell_3)$ • $(\ell_5 + \ell_2) - (\ell_6 + \ell_3)$ • $(\ell_5 + \ell_2) - (\ell_7 + \ell_3)$ • $(\ell_6 + \ell_3) - (\ell_7 + \ell_3)$	Charge less length	Indoor-outdoor H		Indoor-indoor (Δh)
					Outdoor unit: Upper	Indoor unit: Upper	
GM224	Equivalent length:125	15	6	30	30	30	0.5
GM280	Real length :100						0.5

	Pipe diameter (mm)				Number of bent portions
	Main pipe (mm)		Branch piping (mm)		
	Gas side	Liquid side	Gas side	Liquid side	
GM224	φ28.6	φ12.7	ℓ2, ℓ3) φ15.9 ℓ4, ℓ5, ℓ6, ℓ7:) φ12.7	ℓ2, ℓ3) φ9.5 ℓ4, ℓ5, ℓ6, ℓ7:) φ6.4	10 or less
GM280	φ28.6	φ12.7	ℓ4, ℓ5, ℓ6, ℓ7:) φ15.9	ℓ2, ℓ3, ℓ4, ℓ5, ℓ6, ℓ7:) φ9.5	10 or less

Figure of Simultaneous double twin**Additional refrigerant amount**

	Additional refrigerant amount per 1m liquid pipe (kg/m)					
	GM224			GM280		
	Main pipe	Branch pipe	Branch pipe 2	Main pipe	Branch pipe	Branch pipe 2
Single	0.08	-	-	0.08	-	-
Twin	0.08	0.04	-	0.08	0.04	-
Triple	0.08	0.04	-	0.08	0.04	-
Double Twin	0.08	0.04	0.02	0.08	0.04	0.04

3-9. Accessories

1. Branch Kit

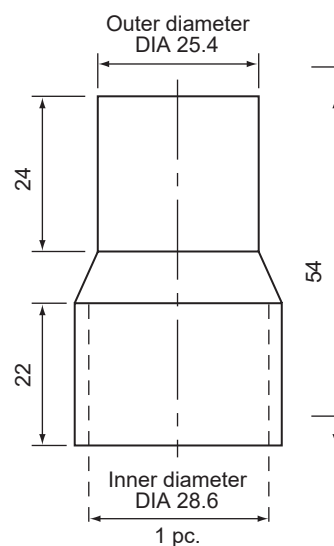
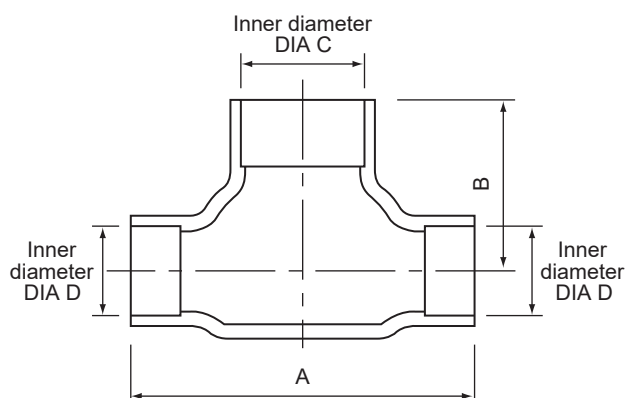
	RAV-GM224 series	Branch kit
Simultaneous twin	HM110 — HM110	RBC-TWP101E
Simultaneous triple	HM80 — HM80 — HM80	RBC-TRP100E
Simultaneous double twin	HM56 — HM56 — HM56 — HM56	RBC-DTWP101E

	RAV-GM280 series	Branch kit
Simultaneous twin	HM140 — HM140	RBC-TWP101E
Simultaneous triple	HM80 — HM80 — HM80	RBC-TRP100E
Simultaneous double twin	HM80 — HM80 — HM80 — HM80	RBC-DTWP101E

RBC-DTWP101E (Simultaneous Double Twin)

<Branch pipe>

<Joint pipe>



(Units: mm)

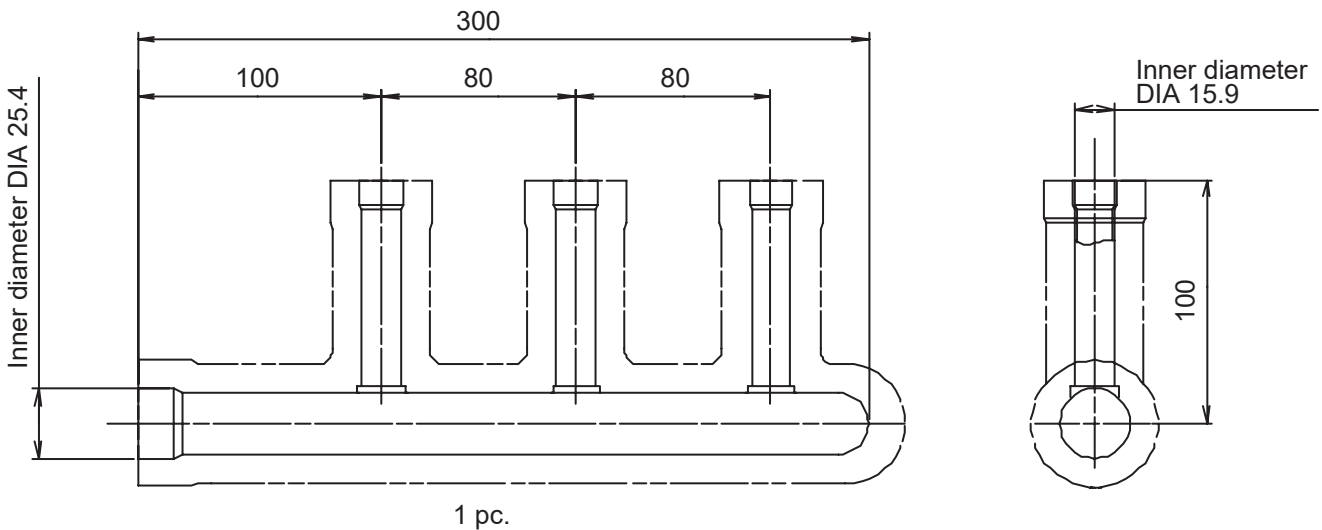
Model		A	B	C	D	Q'ty
RBC-DTWP101E	Gas side	74	37	25.4	15.9	1
		42	23	15.9	15.9	2
		43	23	15.9	12.7	2
	Liquid side	35	18	12.7	9.5	1
		34	14	9.5	9.5	2
		36	14	9.5	6.4	2

RBC-TRP100E (Simultaneous Triple)

<Gas side>

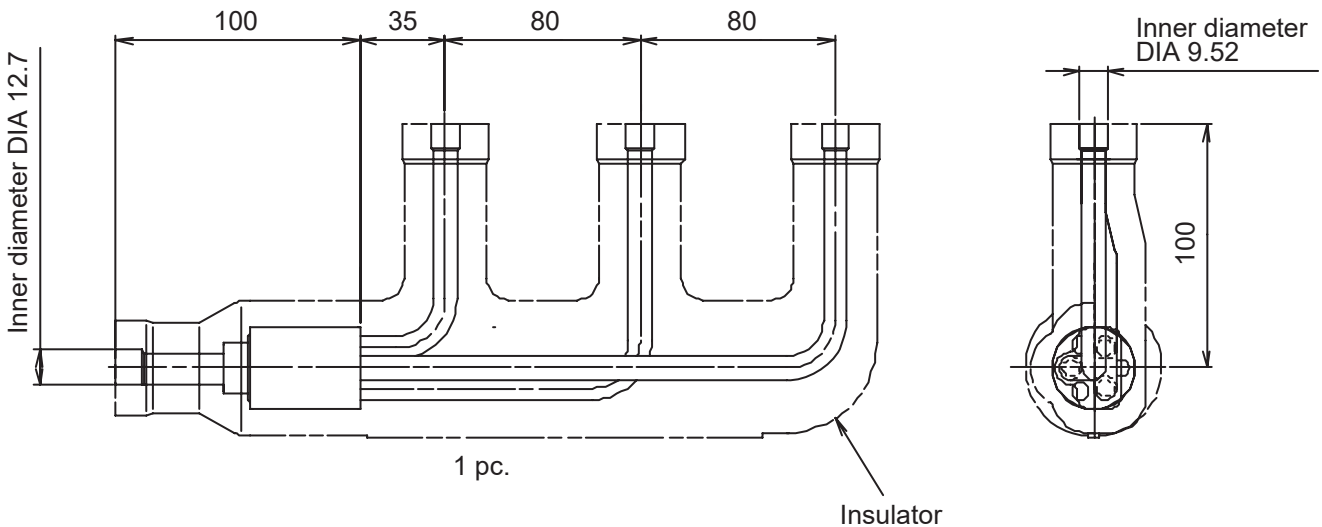
Header assembly

(Units: mm)

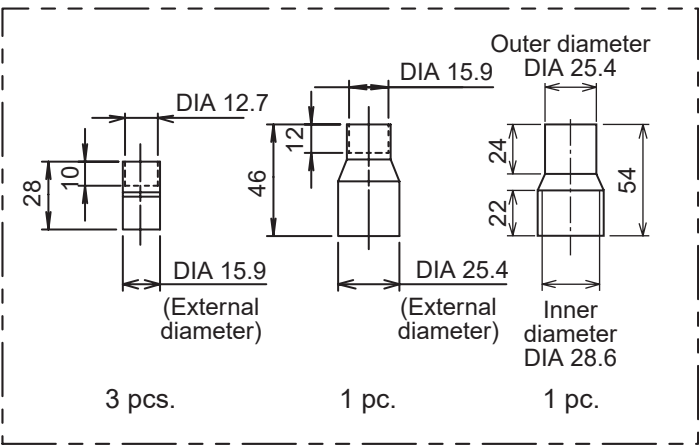


<Liquid side>

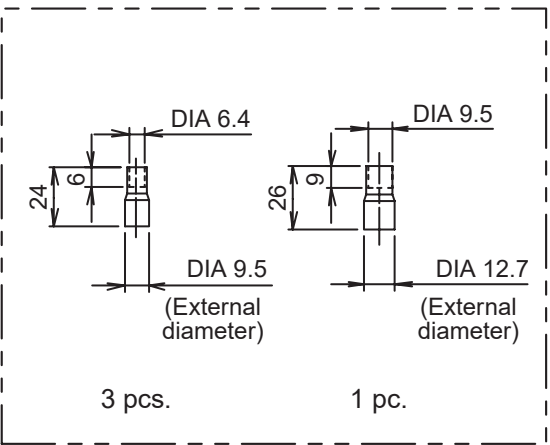
Branch pipe assembly



Gas side socket



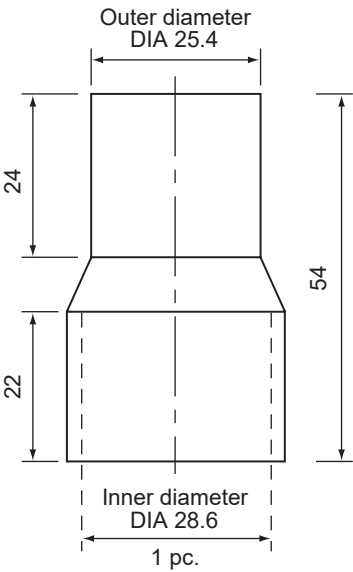
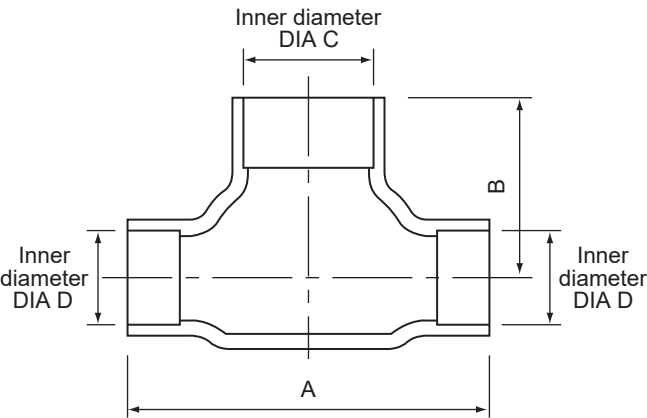
Liquid side socket



RBC-TWP101E (Simultaneous Twin)

<Branch pipe>

<Joint pipe>

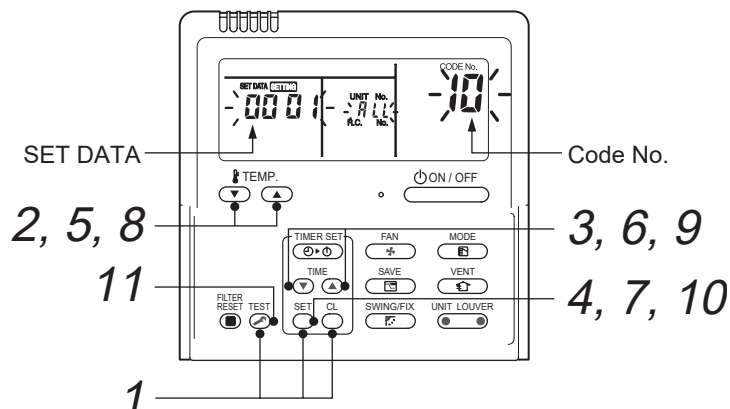


(Units: mm)

Model		A	B	C	D	Q'ty
RBC-TWP101E	Gas side	74	37	25.4	15.9	1
	Liquid side	35	18	12.7	9.5	1

2. Controller

<RBC-AMT ***>



Pair the indoor unit to set and the remote controller one-to-one.

Turn on the power.

- 1 Push and hold the ,  and  buttons at the same time for more than 4 seconds.
LCD starts flashing.

<Line (system) address>

- 2 Push the TEMP.  /  buttons repeatedly to set the CODE No. to 12
- 3 Push the TIME  /  buttons repeatedly to set a system address.
(Match the address with the address on the interface P.C. board of the header outdoor unit in the same refrigerant line.)
- 4 Push  button.
(It is OK if the display turns on.)

<Indoor unit address>

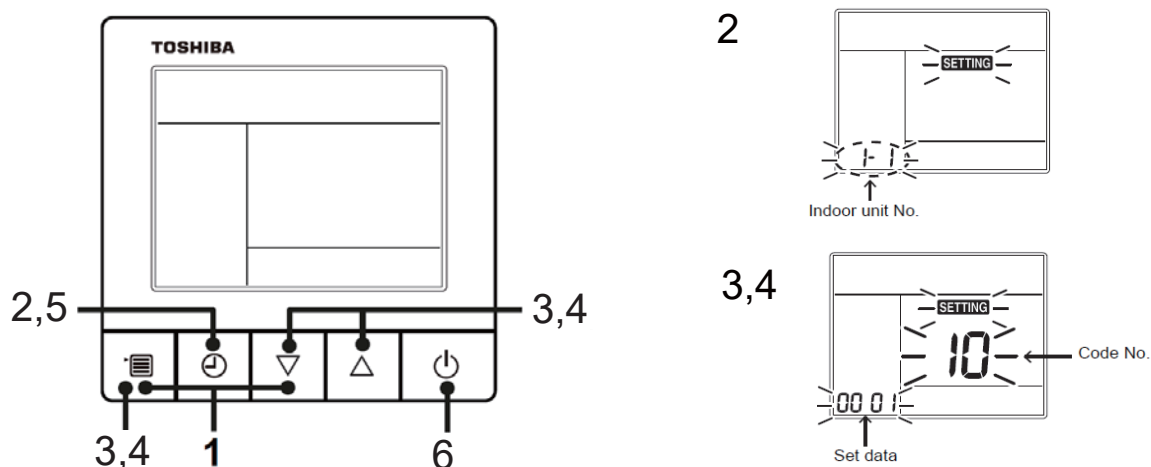
- 5 Push the TEMP.  /  buttons repeatedly to set the CODE No. to 13
- 6 Push the TIME  /  buttons repeatedly to set an indoor unit address.
- 7 Push the  button.
(It is OK if the display turns on.)

<Group address>

- 8 Push the TEMP.  /  buttons repeatedly to set the CODE No. to 14
- 9 Push the TIME  /  buttons repeatedly to set a group address. If the indoor unit is individual, set the address to 0000 ; header unit, 0001 ; follower unit, 0002

Individual	: 0000	}	In case of group control
Header unit	: 0001		
Follower unit	: 0002		
- 10 Push the  button.
(It is OK if the display turns on.)
- 11 Push the  button.
The address setting is complete.
(**SETTING** flashes. You can control the unit after **SETTING** has disappeared.)

<RBC-ASCU11-*>



1 Push and hold the [menu + ▽] buttons at same time for more than 10 seconds.

2 Push the [OFF timer] button to confirm the selected indoor unit.

<Line (system) address>

3 Push the [menu] button until the CODE No. flashes. And using the [▽ or △] buttons, specify the CODE No.12.

4 Push the [menu] button until the SET DATA flashes. And using the [▽ or △] buttons, set a system address.

5 Push the [OFF timer] button to confirm the SET DATA.

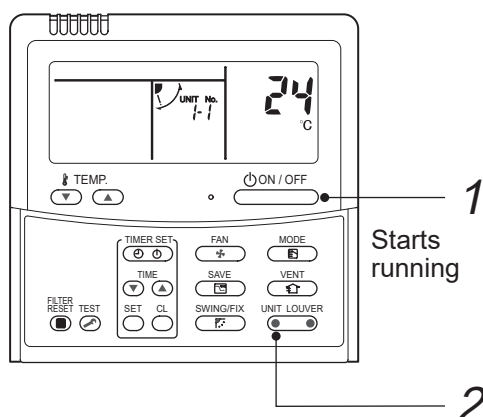
■ Confirming the indoor unit addresses and the position of an indoor unit using the remote controller

◆ Confirming the numbers and positions of indoor units

To know the indoor unit addresses though position of the indoor unit is recognized

▼ When the unit is individual (the indoor unit is paired with a wired remote controller one-to-one), or it is a group-controlled one.

<RBC-AMT***>



(Execute it while the units are running.)

- 1 Push the  button if the units stop.
- 2 Push the  button (left side of the button).

A unit numbers **1-1** is indicated on the LCD (it will disappear after a few seconds). The indicated number shows the system address and indoor unit address of the unit.

When 2 or more indoor units are connected to the remote controller (group-controlled units), a number of other connected units appears each time you push the  button (left side of the button).

<RBC-ASCU11-*>

There is no such function in the remote controller.

Refrigerant R32

This air conditioner adopts a new HFC type refrigerant (R32) which does not deplete the ozone layer.

1. Safety Caution Concerned to Refrigerant R32

Be sure that water, dust, the former refrigerant or the former refrigerating oil is not mixed into the refrigerating cycle of the air conditioner with refrigerant R32 during installation work or service work. If an incorrect work or incorrect service is performed, there is a possibility to cause a serious accident. Use the tools and materials exclusive to R32 to purpose a safe work.

2. Safety and Cautions on Installation/Service

<Safety items>

When gas concentration and ignition energy are happened at the same time, R32 has a slight possibility of burning. Although it will not ignite under normal work environment conditions, be aware that the flame spreads if ignition should occur.

It is necessary to carry out installation/servicing safely while taking the following precautions into consideration.

- 1) Never use refrigerant other than specified refrigerant (R32) in an air conditioner which is designed to operate with the specified refrigerant (R32).
If other refrigerant than R32 is used, it may cause personal injury, etc. by a malfunction, a fire, a rupture.
- 2) Since R32 is heavier than air, it tends to accumulate at the bottom (near the floor).
Ventilate properly for the working environment to prevent its combustion.
Especially in a basement or a closed room where the high risk of the accumulation is ventilate the room with a local exhaust ventilator.
If refrigerant leakage is confirmed in the room or the place where the ventilation is insufficient, do not work until the proper ventilation is performed and the work environment is improved.
- 3) When performing brazing work, be sure to check for leakage refrigerant or residual refrigerant.
If the leakage refrigerant comes into contact with fire, a poisonous gas may occur or it may cause a fire.
Keep adequate ventilation during the work.
- 4) When refrigerant gas leaks during work, execute ventilation. If the leakage refrigerant comes into contact with a fire, a poisonous gas may occur or it may cause a fire.
- 5) In places where installing / repairing air-conditioning equipment, etc., keep the source of ignition such as gas combustion equipment, petroleum combustion equipment, electric heater etc. away. Do not smoke in the place.
- 6) When installing or removing an air conditioner, do not mix air in the refrigerant cycle.
If air or others is mixed with the refrigerant, abnormal high pressure generates in the refrigerating cycle, causing injury due to the breakage.
- 7) After installation work complete, confirm that refrigerant gas is not leaking on the flare connection part or others. If leaked refrigerant comes to contact with a fire, toxic gas may occur, causing a fire.
- 8) Perform the installation work and re-installation according to the installation manual.
Pay attention especially to the area of application. Improper installation may cause refrigeration trouble, water leakage, electric shock, or fire etc.
- 9) Unauthorized modifications to the air conditioner may be dangerous. If a breakdown occurs please call a qualified air conditioner technician or electrician.
Improper repair may result in water leakage, electric shock and fire, etc.
- 10) Carry out the airtight test with nitrogen at a specified pressure. Do not use oxygen or acetylene gas absolutely as it may cause an explosion.
- 11) Always carry a refrigerant leakage detection sensor during the work and work while checking that no refrigerant leaks around working environment.
- 12) If the leakage refrigerant comes into contact with fire, it may cause a fire.
Have a dry powder or CO₂ fire extinguisher adjacent to the charging area.

CARRIER AIR CONDITIONING (THAILAND) CO.,LTD.

144/9 Moo 5, Bangkadi Industrial Park, Tivanon Road, Tambol Bangkadi,
Amphur Muang, Pathumthani 12000, Thailand

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