

Toshiba Inverter Multi System R32

Outdoor Unit (2 Rooms)

RAS-2M60S4AVG-ND

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1. Line up

Outdoor Unit

Type	Appearance	Model name
CDU 710H		RAS-2M60S4AVG-ND

Indoor Unit

Type	Appearance	Model name	Capacity Rank
High wall DSK10 Wood		RAS-B25S4KVDG-ND	10
		RAS-B35S4KVDG-ND	13
High wall DSK10 White		RAS-B25S4KVPG-ND	10
		RAS-B35S4KVPG-ND	13
High wall HAORI		RAS-B25N4KVRG-ND	10
		RAS-B35N4KVRG-ND	13
High wall SHORAI White		RAS-B25G3KVSG-ND	10
		RAS-B35G3KVSG-ND	13
		RAS-B50G3KVSG-ND	13

Type	Appearance	Model name	Capacity Rank
High wall SHORAI Black		RAS-B25G3KVSGB-ND	10
		RAS-B35G3KVSGB-ND	13
High wall SEIYA		RAS-B25E2KVG-ND	10
		RAS-B35E2KVG-ND	13
Console		RAS-B25G3FVG-ND	10
		RAS-B35G3FVG-ND	13

2. Specifications

Model	Outdoor unit		RAS-2M60S4AVG-ND
	Indoor unit		RAS-B35G3KVSG-ND
	Indoor unit		RAS-B35G3KVSG-ND
Power supply			1 ph,50 Hz 220 - 240V
Electrical characteristic	Cooling	Capacity (kW)	6.00
		Capacity range	1.00 to 7.00
		Running current (A)	1.78 - 10.98
		Power consumption (W)	1680
		Power factor (%)	96
		EER	3.57
		SEER	7.00
		Pdesign (kW)	6.00
		Sound pressure level (dB)	47
		Sound power level (dB)	60
		Air flow (m ³ /hr)	2600
	Heating	Capacity (kW)	7.40
		Capacity range	1.00 to 8.70
		Running current (A)	1.59 - 12.60
		Power consumption (kW)	1980
		Power factor (%)	96
		COP	3.74
		SCOP (Average / Colder)	(4.60 / 3.67)
		Pdesign (kW)	6.50
		Sound pressure level (dB)	50
		Sound power level (dB)	63
		Air flow (m ³ /hr)	2700
	Maximum current		15.50
	Outdoor unit	Height (mm)	710
		Width (mm)	900
		Depth (mm)	320
		Weight (kg)	59
Refrigerant			R32
Refrigerant amount			1.84 (R32)
Connecting pipe	Gas side / Liquid side (A unit)		ø 6.35 / ø 9.52
	Gas side / Liquid side (B unit)		ø 6.35 / ø 9.52
	Max. length per unit (m)	25	
	Max. length total (m)	50	
	Chargeless pipe length (m)	30	
	Max. height difference (m)	15	
Operating range		Cooling	Outdoor : -15 to 46 °C
		Heating	Outdoor : -25 to 24 °C

Cooling capacity Inside air temperature outside air temperature 35°C (Db) / 24°C (Wb).

Heating capacity Inside air temperature outside air temperature 7°C (Db) / 6°C (Wb).

The specification may be subject to change without notice for purpose of improvement.

2-1. Combination Table

Combination of indoor units

Outdoor unit : RAS-2M60S4AVG-ND

Operation mode : Cooling Power supply voltage : 220V

Operating status	Indoor unit			Unit capacity (kW)		Cooling capacity (kW)			Power consumption (W)			Operating current (A)			EER	SEER	Energy Grade
	A	B	ΣkBTU	A	B	Min	Rate	Max	Min	Rate	Max	Min	Rate	Max	Rate		
1 unit	10	—	10	2.80	—	0.8	2.8	3.5	270	690	1300	1.60	3.52	6.25	4.06	5.40	A+
	13	—	13	3.50	—	0.8	3.5	4.5	270	870	1700	1.60	4.23	8.10	4.02	6.20	A++
	18	—	18	5.00	—	0.9	5.0	6.5	260	980	2180	1.54	4.75	10.32	5.10	7.20	A++
2 units	10	10	20	2.80	2.80	0.9	5.6	7.0	320	1690	2310	1.88	8.05	10.93	3.31	6.50	A++
	13	10	23	2.67	3.33	1.0	6.0	7.0	320	1600	2350	1.88	7.64	11.11	3.75	6.50	A++
	18	10	28	2.15	3.85	1.0	6.0	7.0	320	1680	2350	1.88	8.01	11.11	3.57	6.90	A++
	13	13	26	3.00	3.00	1.0	6.0	7.0	320	1680	2350	1.88	8.01	11.11	3.57	7.00	A++
	18	13	31	2.47	3.53	1.0	6.0	7.0	310	1650	2350	1.82	7.87	11.11	3.64	7.00	A++
	18	18	36	3.00	3.00	1.1	6.0	7.0	310	1630	2350	1.82	7.78	11.11	3.68	7.10	A++

Operation mode : Cooling Power supply voltage : 230V

Operating status	Indoor unit			Unit capacity (kW)		Cooling capacity (kW)			Power consumption (W)			Operating current (A)			EER	SEER	Energy Grade
	A	B	ΣkBTU	A	B	Min	Rate	Max	Min	Rate	Max	Min	Rate	Max	Rate		
1 unit	10	—	10	2.80	—	0.8	2.8	3.5	270	690	1300	1.53	3.36	5.97	4.06	5.40	A+
	13	—	13	3.50	—	0.8	3.5	4.5	270	870	1700	1.53	4.05	7.75	4.02	6.20	A++
	18	—	18	5.00	—	0.9	5.0	6.5	260	980	2180	1.47	4.54	9.87	5.10	7.20	A++
2 units	10	10	20	2.80	2.80	0.9	5.6	7.0	320	1690	2310	1.80	7.70	10.45	3.31	6.50	A++
	13	10	23	2.67	3.33	1.0	6.0	7.0	320	1600	2350	1.80	7.30	10.63	3.75	6.50	A++
	18	10	28	2.15	3.85	1.0	6.0	7.0	320	1680	2350	1.80	7.66	10.63	3.57	6.90	A++
	13	13	26	3.00	3.00	1.0	6.0	7.0	320	1680	2350	1.80	7.66	10.63	3.57	7.00	A++
	18	13	31	2.47	3.53	1.0	6.0	7.0	310	1650	2350	1.75	7.53	10.63	3.64	7.00	A++
	18	18	36	3.00	3.00	1.1	6.0	7.0	310	1630	2350	1.75	7.44	10.63	3.68	7.10	A++

Operation mode : Cooling Power supply voltage : 240V

Operating status	Indoor unit			Unit capacity (kW)		Cooling capacity (kW)			Power consumption (W)			Operating current (A)			EER	SEER	Energy Grade
	A	B	ΣkBTU	A	B	Min	Rate	Max	Min	Rate	Max	Min	Rate	Max	Rate		
1 unit	10	—	10	2.80	—	0.8	2.8	3.5	270	690	1300	1.46	3.22	5.73	4.06	5.40	A+
	13	—	13	3.50	—	0.8	3.5	4.5	270	870	1700	1.46	3.88	7.42	4.02	6.20	A++
	18	—	18	5.00	—	0.9	5.0	6.5	260	980	2180	1.41	4.35	9.46	5.10	7.20	A++
2 units	10	10	20	2.80	2.80	0.9	5.6	7.0	320	1690	2310	1.72	7.38	10.02	3.31	6.50	A++
	13	10	23	2.67	3.33	1.0	6.0	7.0	320	1600	2350	1.72	7.00	10.19	3.75	6.50	A++
	18	10	28	2.15	3.85	1.0	6.0	7.0	320	1680	2350	1.72	7.34	10.19	3.57	6.90	A++
	13	13	26	3.00	3.00	1.0	6.0	7.0	320	1680	2350	1.72	7.34	10.19	3.57	7.00	A++
	18	13	31	2.47	3.53	1.0	6.0	7.0	310	1650	2350	1.67	7.21	10.19	3.64	7.00	A++
	18	18	36	3.00	3.00	1.1	6.0	7.0	310	1630	2350	1.67	7.13	10.19	3.68	7.10	A++

Outdoor unit : RAS-2M60S4AVG-ND

Operation mode : Heating Power supply voltage : 220V

Operating status	Indoor unit			Unit capacity (kW)		Heating capacity (kW)			Power consumption (W)			Operating current (A)			COP	SCOP		Energy Grade	
	A	B	ΣkBTU	A	B	Min	Rate	Max	Min	Rate	Max	Min	Rate	Max	Rate	Average	Cold	Average	Cold
1 unit	10	—	10	3.20	—	0.7	3.2	7.2	200	1000	2470	1.19	4.84	11.67	3.20	3.70	3.00	A	C
	13	—	13	4.20	—	0.8	4.2	7.6	200	1300	2610	1.19	6.25	12.33	3.23	3.80	3.10	A	B
	18	—	18	6.00	—	0.9	6.0	8.7	200	1850	2920	1.19	8.79	13.81	3.24	4.10	3.30	A+	B
2 units	10	10	20	3.20	3.20	0.9	6.4	8.7	200	1710	2760	1.19	8.15	13.04	3.74	4.50	3.40	A+	A
	13	10	23	4.20	3.20	0.9	7.4	8.7	200	1980	2680	1.19	9.39	12.66	3.74	4.60	3.50	A++	A
	18	10	28	4.83	2.57	1.0	7.4	8.7	200	1960	2630	1.19	9.30	12.43	3.78	4.70	3.70	A++	A
	13	13	26	3.70	3.70	1.0	7.4	8.7	200	1980	2700	1.19	9.39	12.76	3.74	4.60	3.60	A++	A
	18	13	31	4.35	3.05	1.0	7.4	8.7	200	1850	2610	1.19	8.79	12.33	4.00	4.70	3.70	A++	A
	18	18	36	3.70	3.70	1.1	7.4	8.7	200	1850	2520	1.19	8.79	11.91	4.00	4.70	3.80	A++	A

Operation mode : Heating Power supply voltage : 230V

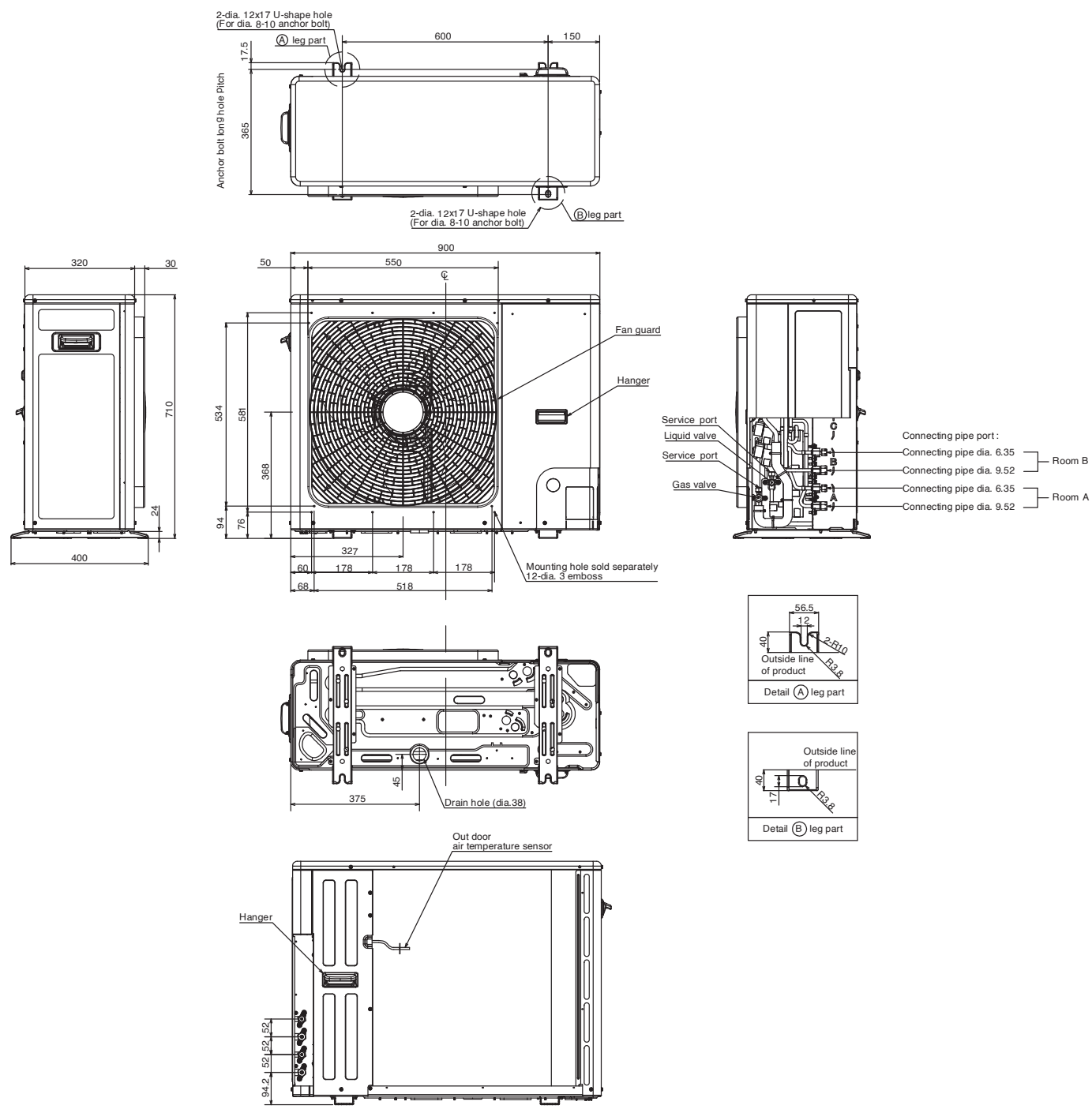
Operating status	Indoor unit			Unit capacity (kW)		Heating capacity (kW)			Power consumption (W)			Operating current (A)			COP	SCOP		Energy Grade	
	A	B	ΣkBTU	A	B	Min	Rate	Max	Min	Rate	Max	Min	Rate	Max	Rate	Average	Cold	Average	Cold
1 unit	10	—	10	3.20	—	0.7	3.2	7.2	200	1000	2470	1.14	4.63	11.17	3.20	3.70	3.00	A	C
	13	—	13	4.20	—	0.8	4.2	7.6	200	1300	2610	1.14	5.97	11.80	3.23	3.80	3.10	A	B
	18	—	18	6.00	—	0.9	6.0	8.7	200	1850	2920	1.14	8.41	13.21	3.24	4.10	3.30	A+	B
2 units	10	10	20	3.20	3.20	0.9	6.4	8.7	200	1710	2760	1.14	7.79	12.48	3.74	4.50	3.40	A+	A
	13	10	23	4.20	3.20	0.9	7.4	8.7	200	1980	2680	1.14	8.99	12.11	3.74	4.60	3.50	A++	A
	18	10	28	4.83	2.57	1.0	7.4	8.7	200	1960	2630	1.14	8.90	11.89	3.78	4.70	3.70	A++	A
	13	13	26	3.70	3.70	1.0	7.4	8.7	200	1980	2700	1.14	8.99	12.20	3.74	4.60	3.60	A++	A
	18	13	31	4.35	3.05	1.0	7.4	8.7	200	1850	2610	1.14	8.41	11.80	4.00	4.70	3.70	A++	A
	18	18	36	3.70	3.70	1.1	7.4	8.7	200	1850	2520	1.14	8.41	11.39	4.00	4.70	3.80	A++	A

Operation mode : Heating Power supply voltage : 240V

Operating status	Indoor unit			Unit capacity (kW)		Heating capacity (kW)			Power consumption (W)			Operating current (A)			COP	SCOP		Energy Grade	
	A	B	ΣkBTU	A	B	Min	Rate	Max	Min	Rate	Max	Min	Rate	Max	Rate	Average	Cold	Average	Cold
1 unit	10	—	10	3.20	—	0.7	3.2	7.2	200	1000	2470	1.09	4.44	10.70	3.20	3.70	3.00	A	C
	13	—	13	4.20	—	0.8	4.2	7.6	200	1300	2610	1.09	5.73	11.31	3.23	3.80	3.10	A	B
	18	—	18	6.00	—	0.9	6.0	8.7	200	1850	2920	1.09	8.06	12.66	3.24	4.10	3.30	A+	B
2 units	10	10	20	3.20	3.20	0.9	6.4	8.7	200	1710	2760	1.09	7.47	11.96	3.74	4.50	3.40	A+	A
	13	10	23	4.20	3.20	0.9	7.4	8.7	200	1980	2680	1.09	8.61	11.61	3.74	4.60	3.50	A++	A
	18	10	28	4.83	2.57	1.0	7.4	8.7	200	1960	2630	1.09	8.53	11.39	3.78	4.70	3.70	A++	A
	13	13	26	3.70	3.70	1.0	7.4	8.7	200	1980	2700	1.09	8.61	11.70	3.74	4.60	3.60	A++	A
	18	13	31	4.35	3.05	1.0	7.4	8.7	200	1850	2610	1.09	8.06	11.31	4.00	4.70	3.70	A++	A
	18	18	36	3.70	3.70	1.1	7.4	8.7	200	1850	2520	1.09	8.06	10.92	4.00	4.70	3.80	A++	A

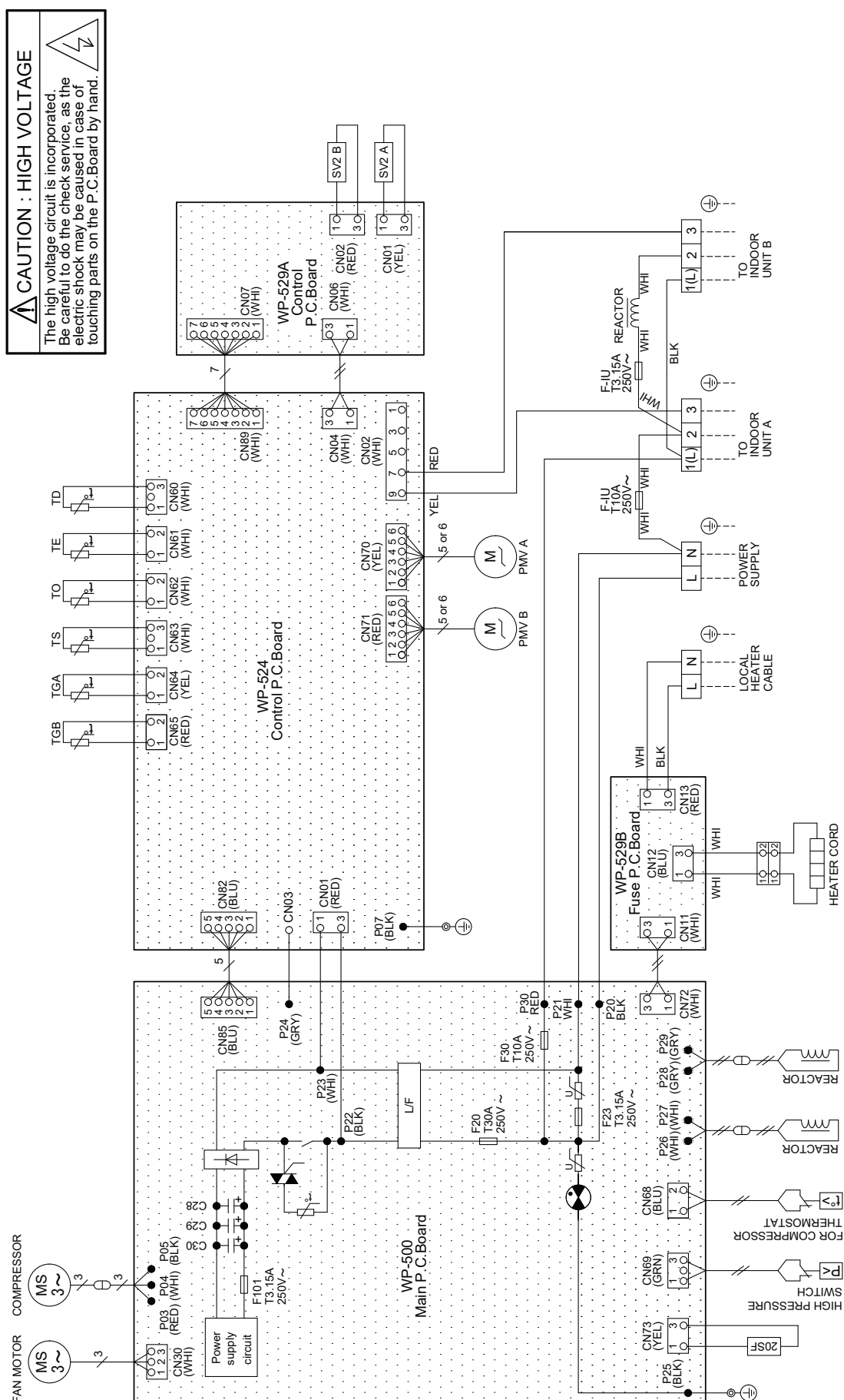
3. Dimension

Outdoor Unit : RAS-2M60S4AVG-ND



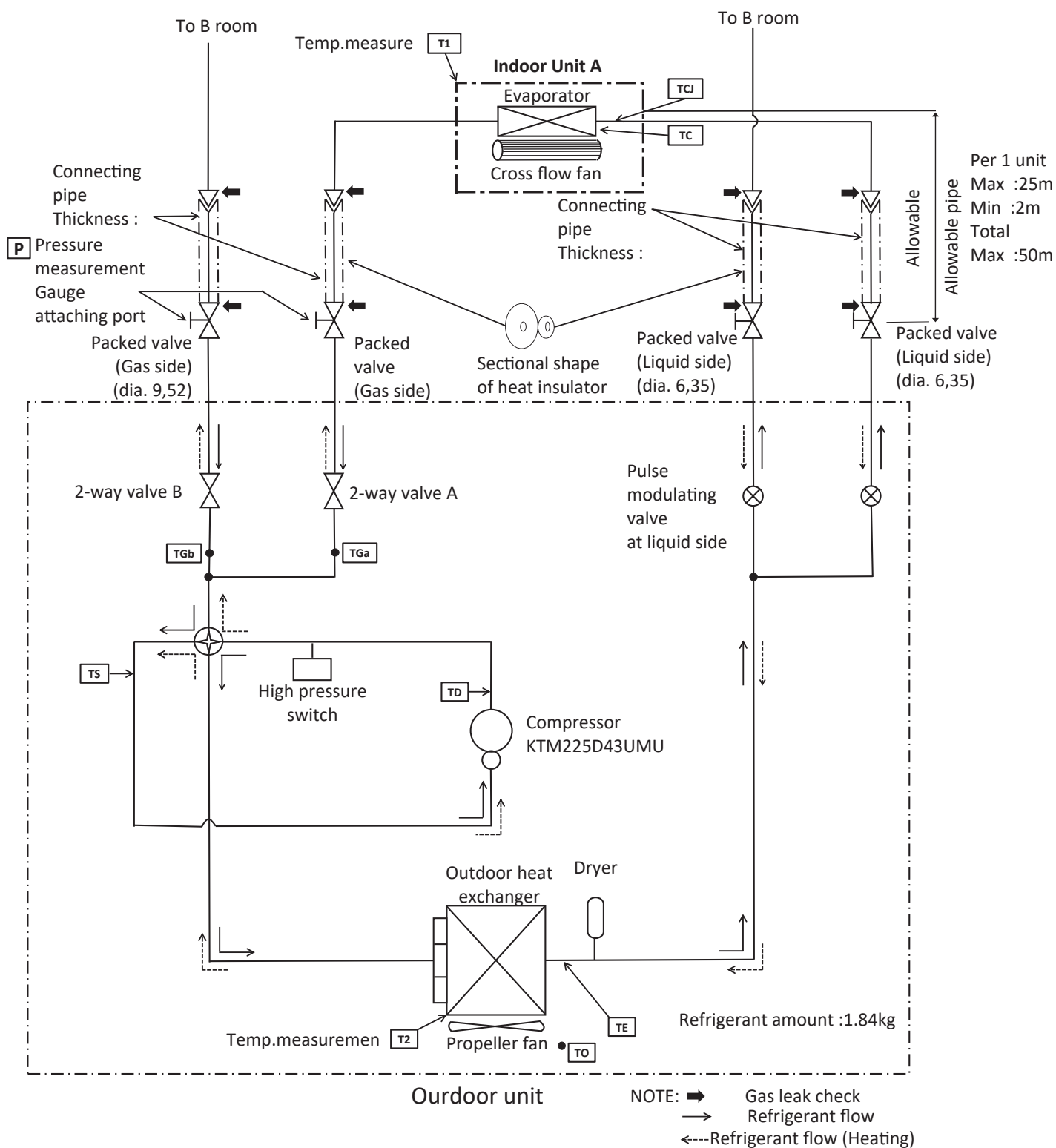
4. Wiring diagrams

Outdoor Unit : RAS-2M60S4AVG-ND



5. Refrigerant Cycle Diagram

Outdoor Unit : RAS-2M60S4AVG-ND



NOTE :

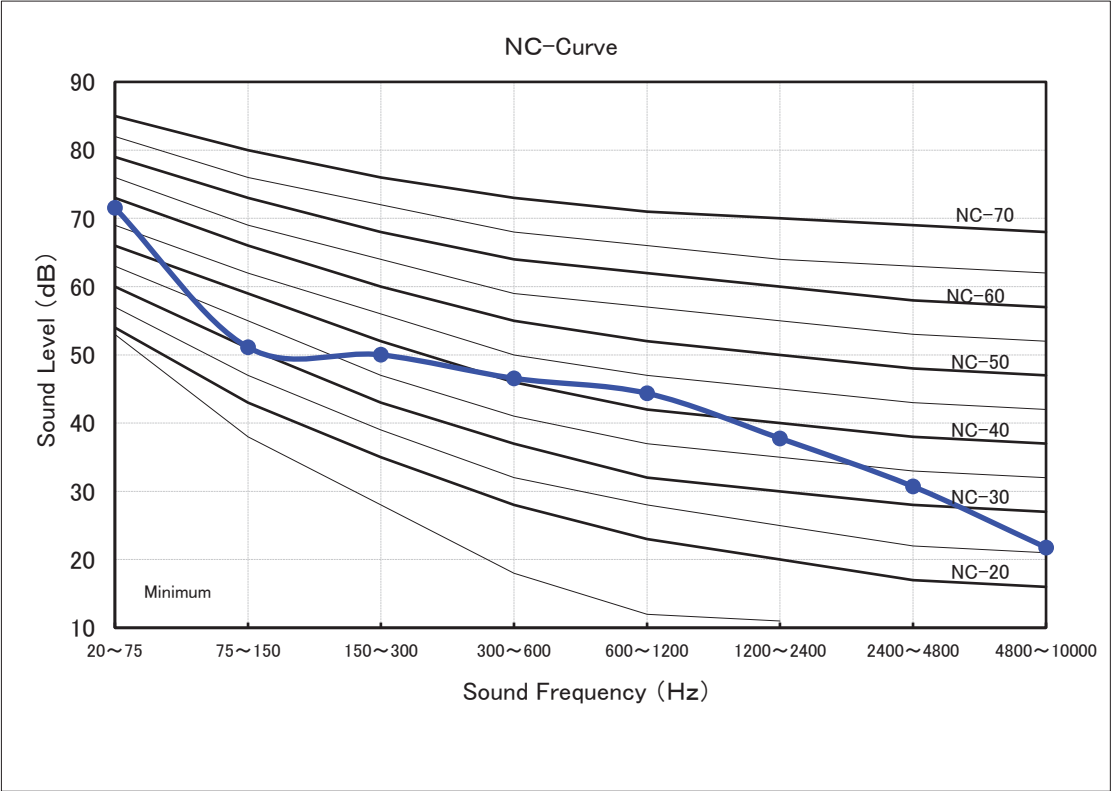
- You need not add refrigerant if the piping length is 30m or less.
- If the length exceeds 31m, add 20g of refrigerant per 1 meter over.
- Connection of only one indoor unit is unavailable. Two indoor units should be connected.

6. Sound Characteristics

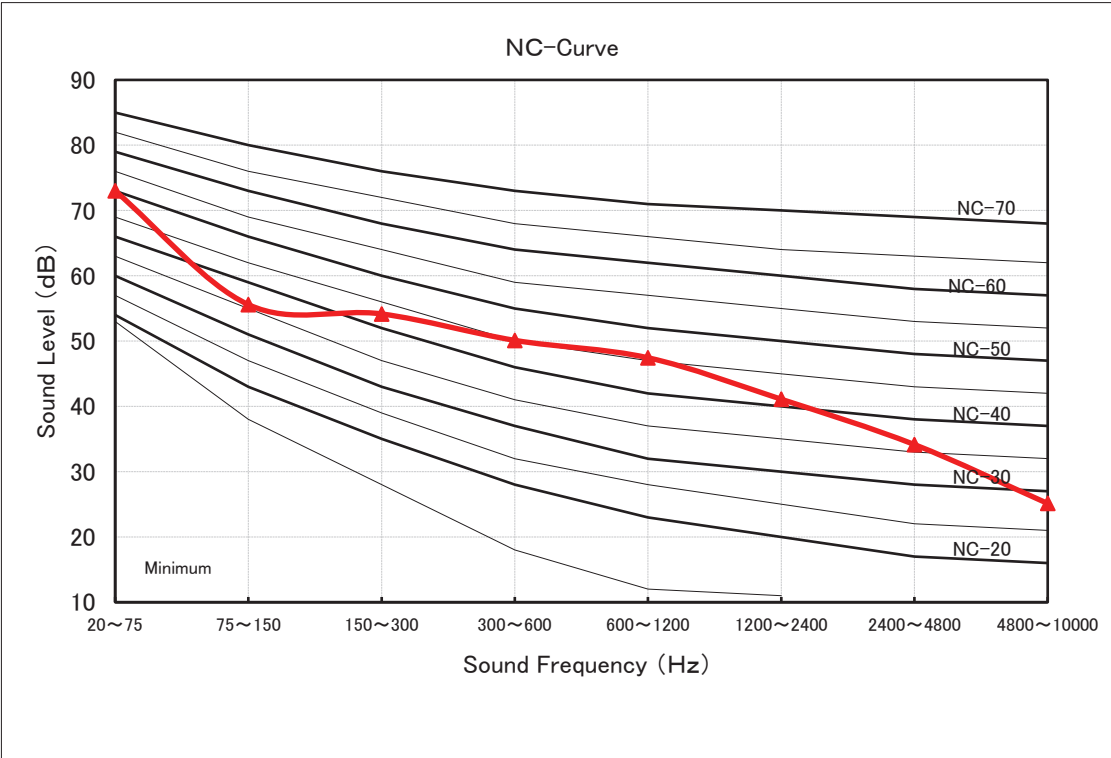
RAS-2M60S4AVG-ND

Measured point	Sound pressure (dB)	
	Cooling	Heating
Horizontal 1.0 m	47	50

Cooling



Heating



7. Capacity table

Model : RAS-2M60S4AVG-ND

Operation mode : Cooling (Rate)

1-Indoor unit operation

TC : Total capacity[kW]

PI : Power input [kW]

Combination (Capacity)	Outdoor air temp.	Indoor air temp. [°C WB]											
		20		23		25		27		29		32	
	[°C DB]	TC [kW]	PI [kW]	TC [kW]	PI [kW]	TC [kW]	PI [kW]	TC [kW]	PI [kW]	TC [kW]	PI [kW]	TC [kW]	PI [kW]
10	46	2.46	0.81	2.62	0.82	2.73	0.84	2.40	0.80	2.95	0.86	3.12	0.88
	43	2.57	0.78	2.74	0.79	2.86	0.81	2.51	0.77	3.09	0.83	3.26	0.85
	40	2.68	0.75	2.86	0.76	2.98	0.77	2.62	0.74	3.22	0.80	3.41	0.82
	35	2.86	0.70	3.06	0.71	3.19	0.72	2.80	0.69	3.45	0.74	3.64	0.76
	30	3.05	0.64	3.25	0.66	3.39	0.67	2.98	0.64	3.67	0.69	3.87	0.70
	25	3.23	0.59	3.45	0.61	3.60	0.62	3.16	0.59	3.89	0.64	4.11	0.65
	20	3.42	0.54	3.65	0.56	3.80	0.57	3.34	0.54	4.11	0.58	4.34	0.59
13	46	3.08	1.02	3.29	1.04	3.43	1.06	3.01	1.01	3.70	1.09	3.91	1.11
	43	3.21	0.98	3.43	1.00	3.57	1.02	3.14	0.97	3.86	1.05	4.08	1.07
	40	3.36	0.94	3.58	0.96	3.73	0.97	3.28	0.93	4.04	1.00	4.26	1.02
	35	3.58	0.88	3.82	0.90	3.98	0.91	3.50	0.87	4.31	0.94	4.55	0.96
	30	3.81	0.82	4.06	0.84	4.23	0.85	3.72	0.81	4.58	0.87	4.84	0.89
	25	4.04	0.76	4.31	0.77	4.50	0.78	3.95	0.75	4.86	0.81	5.14	0.83
	20	4.27	0.69	4.55	0.70	4.75	0.71	4.17	0.68	5.13	0.73	5.42	0.75
18	46	4.39	1.14	4.69	1.16	4.88	1.18	4.29	1.13	5.28	1.22	5.58	1.24
	43	4.59	1.10	4.90	1.12	5.11	1.14	4.49	1.09	5.53	1.17	5.84	1.20
	40	4.79	1.06	5.11	1.08	5.33	1.10	4.68	1.05	5.76	1.13	6.08	1.16
	35	5.11	0.99	5.46	1.01	5.69	1.03	5.00	0.98	6.15	1.06	6.50	1.08
	30	5.44	0.92	5.81	0.94	6.06	0.95	5.32	0.91	6.55	0.98	6.92	1.00
	25	5.77	0.85	6.16	0.87	6.42	0.88	5.64	0.84	6.94	0.91	7.33	0.93
	20	6.10	0.78	6.51	0.79	6.78	0.81	5.96	0.77	7.34	0.83	7.75	0.85

7. Capacity table

Model : RAS-2M60S4AVG-ND

Operation mode : Cooling

1-Indoor unit operation

TC : Total capacity[kW]

PI : Power input [kW]

Combination (Capacity)	Outdoor air temp. [°C DB]	Indoor air temp. [°C WB]											
		20		23		25		27		29		32	
		TC [kW]	PI [kW]	TC [kW]	PI [kW]	TC [kW]	PI [kW]	TC [kW]	PI [kW]	TC [kW]	PI [kW]	TC [kW]	PI [kW]
10	46	3.08	1.51	3.29	1.55	3.43	1.57	3.01	1.50	3.70	1.62	3.91	1.65
	43	3.21	1.46	3.43	1.49	3.57	1.52	3.14	1.45	3.86	1.56	4.08	1.60
	40	3.36	1.40	3.58	1.43	3.73	1.45	3.28	1.39	4.04	1.50	4.26	1.53
	35	3.58	1.31	3.82	1.34	3.98	1.36	3.50	1.30	4.31	1.40	4.55	1.43
	30	3.81	1.22	4.06	1.25	4.23	1.27	3.72	1.21	4.58	1.30	4.84	1.33
	25	4.04	1.12	4.31	1.14	4.50	1.16	3.95	1.11	4.86	1.20	5.14	1.22
	20	4.27	1.03	4.55	1.05	4.75	1.07	4.17	1.02	5.13	1.10	5.42	1.12
13	46	3.95	1.98	4.22	2.03	4.39	2.06	3.86	1.97	4.75	2.12	5.02	2.17
	43	4.13	1.90	4.41	1.95	4.60	1.98	4.04	1.89	4.97	2.04	5.25	2.08
	40	4.31	1.83	4.60	1.88	4.79	1.90	4.21	1.82	5.18	1.96	5.47	2.00
	35	4.60	1.71	4.92	1.75	5.12	1.78	4.50	1.70	5.54	1.83	5.85	1.87
	30	4.90	1.59	5.23	1.63	5.45	1.65	4.79	1.58	5.90	1.70	6.23	1.74
	25	5.20	1.47	5.55	1.51	5.78	1.53	5.08	1.46	6.25	1.57	6.60	1.61
	20	5.49	1.34	5.87	1.37	6.11	1.39	5.37	1.33	6.61	1.43	6.98	1.46
18	46	5.71	2.54	6.09	2.60	6.35	2.64	5.58	2.52	6.87	2.72	7.25	2.78
	43	5.96	2.45	6.37	2.51	6.64	2.54	5.83	2.43	7.18	2.62	7.58	2.68
	40	6.22	2.36	6.64	2.41	6.92	2.45	6.08	2.34	7.48	2.52	7.90	2.58
	35	6.65	2.20	7.10	2.25	7.40	2.28	6.50	2.18	8.00	2.35	8.45	2.40
	30	7.08	2.04	7.56	2.08	7.88	2.11	6.92	2.02	8.52	2.18	9.00	2.22
	25	7.50	1.88	8.01	1.93	8.34	1.96	7.33	1.87	9.02	2.02	9.53	2.06
	20	7.93	1.72	8.46	1.76	8.82	1.79	7.75	1.71	9.54	1.84	10.08	1.88

Model : RAS-2M60S4AVG-ND

Operation mode : Heating

1-Indoor unit Operation

TC : Total capacity[kW]

PI : Power input [kW]

Combination (Capacity)	Outdoor air temp. [°C WB]	Indoor air temp. [°C DB]											
		16		18		20		21		22		24	
		TC [kW]	PI [kW]	TC [kW]	PI [kW]	TC [kW]	PI [kW]	TC [kW]	PI [kW]	TC [kW]	PI [kW]	TC [kW]	PI [kW]
10	15	8.53	2.58	8.44	2.59	8.34	2.62	8.29	2.63	8.25	2.63	8.15	2.64
	10	7.82	2.49	7.73	2.50	7.63	2.53	7.58	2.54	7.53	2.54	7.44	2.55
	7	7.40	2.43	7.30	2.45	7.20	2.47	7.15	2.48	7.10	2.48	7.00	2.49
	0	6.31	2.49	6.21	2.50	6.11	2.53	6.06	2.54	6.01	2.54	5.92	2.55
	-5	6.28	2.92	6.17	2.94	6.06	2.97	6.01	2.98	5.95	2.98	5.84	3.00
	-10	6.04	2.83	5.91	2.85	5.79	2.88	5.73	2.89	5.66	2.89	5.54	2.91
	-15	5.66	2.70	5.52	2.71	5.38	2.74	5.31	2.75	5.24	2.75	5.10	2.77
	-20	4.95	2.58	4.88	2.59	4.80	2.62	4.76	2.63	4.72	2.63	4.65	2.64
	-25	4.38	2.45	4.30	2.47	4.22	2.49	4.18	2.50	4.14	2.50	4.07	2.51
13	15	9.00	2.72	8.90	2.74	8.80	2.77	8.75	2.78	8.70	2.78	8.60	2.80
	10	8.25	2.63	8.15	2.64	8.05	2.67	8.00	2.68	7.95	2.68	7.84	2.69
	7	7.81	2.57	7.70	2.58	7.60	2.61	7.55	2.62	7.49	2.62	7.39	2.63
	0	6.66	2.63	6.55	2.64	6.45	2.67	6.40	2.68	6.35	2.68	6.25	2.69
	-5	6.64	3.08	6.52	3.10	6.40	3.13	6.34	3.14	6.28	3.14	6.17	3.16
	-10	6.38	2.99	6.25	3.01	6.12	3.04	6.05	3.05	5.99	3.05	5.85	3.07
	-15	5.98	2.85	5.83	2.87	5.68	2.90	5.60	2.91	5.53	2.91	5.38	2.93
	-20	5.23	2.72	5.15	2.74	5.07	2.77	5.03	2.78	4.99	2.78	4.91	2.80
	-25	4.61	2.60	4.53	2.61	4.45	2.64	4.41	2.65	4.37	2.65	4.29	2.66
18	15	10.31	3.05	10.20	3.07	10.08	3.10	10.02	3.11	9.97	3.11	9.85	3.13
	10	9.45	2.94	9.34	2.96	9.22	2.99	9.16	3.00	9.10	3.00	8.98	3.02
	7	8.94	2.87	8.82	2.89	8.70	2.92	8.64	2.93	8.58	2.93	8.46	2.95
	0	7.62	2.94	7.50	2.96	7.38	2.99	7.32	3.00	7.26	3.00	7.15	3.02
	-5	7.59	3.45	7.46	3.48	7.32	3.51	7.25	3.52	7.19	3.52	7.05	3.54
	-10	7.30	3.35	7.15	3.38	7.00	3.41	6.92	3.42	6.85	3.42	6.69	3.44
	-15	6.84	3.19	6.67	3.21	6.50	3.24	6.41	3.25	6.33	3.25	6.16	3.27
	-20	5.99	3.04	5.89	3.06	5.80	3.09	5.75	3.10	5.71	3.10	5.62	3.12
	-25	5.29	2.89	5.19	2.91	5.10	2.94	5.05	2.95	5.01	2.95	4.91	2.97

Model : RAS-2M60S4AVG-ND

Operation mode : Heating

2-Indoor units Operation

TC : Total capacity[kW]

PI : Power input [kW]

Combination (Capacity)	Outdoor air temp. [°C WB]	Indoor air temp. [°C DB]											
		16		18		20		21		22		24	
		TC [kW]	PI [kW]	TC [kW]	PI [kW]	TC [kW]	PI [kW]	TC [kW]	PI [kW]	TC [kW]	PI [kW]	TC [kW]	PI [kW]
10+10	15	10.31	2.88	10.20	2.90	10.08	2.93	10.02	2.94	9.97	2.94	9.85	2.96
	10	9.45	2.77	9.34	2.79	9.22	2.82	9.16	2.83	9.10	2.83	8.98	2.85
	7	8.94	2.71	8.82	2.73	8.70	2.76	8.64	2.77	8.58	2.77	8.46	2.79
	0	7.62	2.78	7.50	2.80	7.38	2.83	7.32	2.84	7.26	2.84	7.15	2.86
	-5	7.59	3.27	7.46	3.29	7.32	3.32	7.25	3.33	7.19	3.33	7.05	3.35
	-10	7.30	3.16	7.15	3.18	7.00	3.21	6.92	3.22	6.85	3.22	6.69	3.24
	-15	6.84	3.01	6.67	3.03	6.50	3.06	6.41	3.07	6.33	3.07	6.16	3.09
	-20	5.99	2.87	5.89	2.89	5.80	2.92	5.75	2.93	5.71	2.93	5.62	2.95
	-25	5.29	2.72	5.19	2.74	5.10	2.77	5.05	2.78	5.01	2.78	4.91	2.80
13+10	15	10.31	2.80	10.20	2.82	10.08	2.85	10.02	2.86	9.97	2.86	9.85	2.88
	10	9.45	2.70	9.34	2.71	9.22	2.74	9.16	2.75	9.10	2.75	8.98	2.77
	7	8.94	2.64	8.82	2.65	8.70	2.68	8.64	2.69	8.58	2.69	8.46	2.70
	0	7.62	2.71	7.50	2.72	7.38	2.75	7.32	2.76	7.26	2.76	7.15	2.78
	-5	7.59	3.18	7.46	3.20	7.32	3.23	7.25	3.24	7.19	3.24	7.05	3.26
	-10	7.30	3.07	7.15	3.09	7.00	3.12	6.92	3.13	6.85	3.13	6.69	3.15
	-15	6.84	2.92	6.67	2.94	6.50	2.97	6.41	2.98	6.33	2.98	6.16	3.00
	-20	5.99	2.78	5.89	2.80	5.80	2.83	5.75	2.84	5.71	2.84	5.62	2.86
	-25	5.29	2.64	5.19	2.65	5.10	2.68	5.05	2.69	5.01	2.69	4.91	2.70
18+10	15	10.31	2.74	10.20	2.76	10.08	2.79	10.02	2.80	9.97	2.80	9.85	2.82
	10	9.45	2.65	9.34	2.66	9.22	2.69	9.16	2.70	9.10	2.70	8.98	2.71
	7	8.94	2.59	8.82	2.60	8.70	2.63	8.64	2.64	8.58	2.64	8.46	2.65
	0	7.62	2.66	7.50	2.67	7.38	2.70	7.32	2.71	7.26	2.71	7.15	2.72
	-5	7.59	3.11	7.46	3.13	7.32	3.16	7.25	3.17	7.19	3.17	7.05	3.19
	-10	7.30	3.02	7.15	3.04	7.00	3.07	6.92	3.08	6.85	3.08	6.69	3.10
	-15	6.84	2.87	6.67	2.89	6.50	2.92	6.41	2.93	6.33	2.93	6.16	2.95
	-20	5.99	2.74	5.89	2.76	5.80	2.79	5.75	2.80	5.71	2.80	5.62	2.82
	-25	5.29	2.62	5.19	2.63	5.10	2.66	5.05	2.67	5.01	2.67	4.91	2.68
13+13	15	10.31	2.82	10.20	2.84	10.08	2.87	10.02	2.88	9.97	2.88	9.85	2.90
	10	9.45	2.71	9.34	2.73	9.22	2.76	9.16	2.77	9.10	2.77	8.98	2.79
	7	8.94	2.66	8.82	2.67	8.70	2.70	8.64	2.71	8.58	2.71	8.46	2.72
	0	7.62	2.72	7.50	2.74	7.38	2.77	7.32	2.78	7.26	2.78	7.15	2.80
	-5	7.59	3.20	7.46	3.22	7.32	3.25	7.25	3.26	7.19	3.26	7.05	3.28
	-10	7.30	3.10	7.15	3.12	7.00	3.15	6.92	3.16	6.85	3.16	6.69	3.18
	-15	6.84	2.95	6.67	2.97	6.50	3.00	6.41	3.01	6.33	3.01	6.16	3.03
	-20	5.99	2.81	5.89	2.83	5.80	2.86	5.75	2.87	5.71	2.87	5.62	2.89
	-25	5.29	2.67	5.19	2.68	5.10	2.71	5.05	2.72	5.01	2.72	4.91	2.73
18+13	15	10.31	2.72	10.20	2.74	10.08	2.77	10.02	2.78	9.97	2.78	9.85	2.80
	10	9.45	2.63	9.34	2.64	9.22	2.67	9.16	2.68	9.10	2.68	8.98	2.69
	7	8.94	2.57	8.82	2.58	8.70	2.61	8.64	2.62	8.58	2.62	8.46	2.63
	0	7.62	2.63	7.50	2.64	7.38	2.67	7.32	2.68	7.26	2.68	7.15	2.69
	-5	7.59	3.08	7.46	3.10	7.32	3.13	7.25	3.14	7.19	3.14	7.05	3.16
	-10	7.30	2.99	7.15	3.01	7.00	3.04	6.92	3.05	6.85	3.05	6.69	3.07
	-15	6.84	2.85	6.67	2.87	6.50	2.90	6.41	2.91	6.33	2.91	6.16	2.93
	-20	5.99	2.72	5.89	2.74	5.80	2.77	5.75	2.78	5.71	2.78	5.62	2.80
	-25	5.29	2.60	5.19	2.61	5.10	2.64	5.05	2.65	5.01	2.65	4.91	2.66
18+18	15	10.31	2.64	10.20	2.65	10.08	2.68	10.02	2.69	9.97	2.69	9.85	2.70
	10	9.45	2.54	9.34	2.55	9.22	2.58	9.16	2.59	9.10	2.59	8.98	2.60
	7	8.94	2.48	8.82	2.49	8.70	2.52	8.64	2.53	8.58	2.53	8.46	2.54
	0	7.62	2.55	7.50	2.56	7.38	2.59	7.32	2.60	7.26	2.60	7.15	2.61
	-5	7.59	2.98	7.46	3.00	7.32	3.03	7.25	3.04	7.19	3.04	7.05	3.06
	-10	7.30	2.89	7.15	2.91	7.00	2.94	6.92	2.95	6.85	2.95	6.69	2.97
	-15	6.84	2.75	6.67	2.77	6.50	2.80	6.41	2.81	6.33	2.81	6.16	2.83
	-20	5.99	2.63	5.89	2.64	5.80	2.67	5.75	2.68	5.71	2.68	5.62	2.69
	-25	5.29	2.50	5.19	2.51	5.10	2.54	5.05	2.55	5.01	2.55	4.91	2.56

8. Part Load

Outdoor unit : RAS-2M60S4AVG-ND

1-Indoor unit operation (Type : 10)

Compressor Speed	Cooling		Heating	
	Capacity Q(W)	Power consumption W(W)	Capacity Q(W)	Power consumption W(W)
MINIMUM	800	270	700	200
RATING	2800	690	3200	1000
MAXIMUM	3500	1300	7200	2470

Cooling Maximum

Outdoor temperature(°C)	-	Load(%)									
		100	90	80	70	60	50	40	30	20	10
46	Q	3010	2710	2400	2100	1800	1500	1200	900	690	690
	W	1500	1180	1040	900	760	630	490	350	240	240
43	Q	3140	2830	2510	2200	1880	1570	1260	940	720	720
	W	1450	1140	1000	870	740	600	470	330	230	230
40	Q	3280	2950	2620	2290	1970	1640	1310	980	750	750
	W	1390	1090	960	840	710	580	450	320	230	230
35	Q	3500	3150	2800	2450	2100	1750	1400	1050	800	800
	W	1300	1020	900	780	660	540	420	300	210	210
30	Q	3720	3350	2980	2610	2230	1860	1490	1120	850	850
	W	1210	950	840	720	610	500	390	280	190	190
25	Q	3950	3550	3160	2760	2370	1970	1580	1180	900	900
	W	1110	870	770	670	570	460	360	260	180	180
20	Q	4170	3760	3340	2920	2500	2090	1670	1250	950	950
	W	1020	800	710	610	520	420	330	240	160	160
15	Q	4290	3870	3440	3010	2570	2150	1720	1290	980	980
	W	960	750	670	570	490	390	310	230	150	150
10	Q	4420	3980	3540	3090	2650	2210	1770	1320	1010	1010
	W	900	700	620	540	460	370	290	210	140	140
5	Q	4540	4090	3640	3180	2720	2270	1820	1360	1030	1030
	W	830	650	580	500	420	340	270	200	130	130
0	Q	4080	3680	3270	2860	2450	2050	1640	1220	930	930
	W	1200	940	840	720	610	500	390	280	190	190
-5	Q	4100	3700	3280	2870	2460	2060	1650	1230	940	940
	W	1170	920	820	700	600	490	380	270	190	190
-10	Q	4110	3710	3290	2880	2470	2060	1650	1230	940	940
	W	1130	890	790	680	580	470	370	260	180	180

Heating Maximum

Outdoor temperature(°C)	-	Load(%)									
		100	90	80	70	60	50	40	30	20	10
20	Q	9050	8150	7240	6340	5430	4530	3620	2720	1810	910
	W	2720	2420	2150	1860	1590	1310	1040	750	470	200
15	Q	8340	7500	6670	5840	5000	4170	3340	2500	1670	830
	W	2620	2340	2070	1800	1530	1260	1000	720	460	190
10	Q	7630	6860	6100	5340	4580	3810	3050	2290	1530	760
	W	2530	2250	2000	1730	1470	1220	960	700	440	180
7	Q	7200	6480	5760	5040	4320	3600	2880	2160	1440	720
	W	2470	2200	1950	1690	1440	1190	940	680	430	180
5.5	Q	6160	5540	4930	4310	3700	3080	2460	1850	1230	620
	W	2300	2050	1820	1580	1340	1110	880	630	400	170
5	Q	6160	5540	4930	4310	3700	3080	2460	1850	1230	620
	W	2280	2040	1810	1570	1330	1100	870	630	400	170
2	Q	6130	5510	4900	4290	3680	3060	2450	1840	1220	610
	W	2300	2050	1820	1580	1340	1110	880	630	400	170
0	Q	6110	5500	4890	4270	3660	3050	2440	1830	1220	610
	W	2530	2260	2000	1740	1470	1220	970	690	440	190
-5	Q	6060	5460	4850	4240	3630	3030	2430	1820	1210	600
	W	2970	2640	2350	2040	1730	1430	1140	810	520	220
-7	Q	6040	5440	4830	4230	3620	3020	2420	1810	1210	600
	W	2940	2630	2330	2030	1720	1420	1120	810	520	220
-10	Q	5790	5220	4630	4050	3470	2900	2320	1740	1160	580
	W	2880	2570	2280	1970	1680	1390	1090	800	500	210
-15	Q	5380	4840	4300	3760	3230	2690	2150	1610	1080	540
	W	2740	2440	2160	1880	1600	1320	1040	750	480	200
-20	Q	4800	4320	3840	3360	2880	2400	1920	1440	960	480
	W	2620	2320	2050	1790	1530	1260	990	710	460	190
-25	Q	4220	3800	3380	2950	2530	2110	1690	1270	840	420
	W	2490	2200	1950	1690	1450	1200	940	680	430	180

Outdoor unit : RAS-2M60S4AVG-ND

1-Indoor unit operation (Type : 13)

Compressor Speed	Cooling		Heating	
	Capacity Q(W)	Power consumption W(W)	Capacity Q(W)	Power consumption W(W)
MINIMUM	800	270	800	200
RATING	3500	870	4200	1300
MAXIMUM	4500	1700	7600	2610

Cooling Maximum

Outdoor temperature(°C)	-	Load(%)									
		100	90	80	70	60	50	40	30	20	10
46	Q	3860	3480	3090	2710	2320	1930	1550	1160	770	690
	W	1970	1550	1370	1180	1000	820	640	450	270	230
43	Q	4040	3630	3230	2830	2420	2020	1620	1210	810	720
	W	1890	1490	1320	1140	960	790	610	430	260	220
40	Q	4210	3790	3370	2950	2530	2110	1680	1260	840	750
	W	1820	1440	1260	1090	920	760	590	420	250	210
35	Q	4500	4050	3600	3150	2700	2250	1800	1350	900	800
	W	1700	1340	1180	1020	860	710	550	390	230	200
30	Q	4790	4310	3830	3350	2870	2390	1920	1440	960	850
	W	1580	1240	1100	950	800	660	510	360	210	190
25	Q	5080	4570	4060	3550	3050	2540	2030	1520	1020	900
	W	1460	1150	1010	870	740	610	470	330	200	170
20	Q	5370	4830	4290	3760	3220	2680	2150	1610	1070	950
	W	1330	1050	930	800	680	560	430	310	180	160
15	Q	5530	4970	4420	3870	3310	2760	2210	1660	1100	980
	W	1250	990	870	750	640	530	400	290	170	150
10	Q	5690	5110	4540	3980	3410	2840	2280	1700	1130	1010
	W	1170	920	820	700	600	490	380	270	160	140
5	Q	5850	5260	4670	4090	3500	2920	2340	1750	1160	1030
	W	1090	860	760	650	560	460	350	250	150	130
0	Q	5260	4730	4200	3680	3150	2620	2110	1580	1050	930
	W	1570	1240	1100	940	800	660	510	370	210	190
-5	Q	5280	4750	4220	3700	3160	2630	2120	1590	1060	940
	W	1530	1210	1070	920	780	640	500	360	210	190
-10	Q	5300	4760	4230	3710	3170	2640	2120	1590	1060	940
	W	1480	1170	1040	890	760	620	480	350	200	180

Heating Maximum

Outdoor temperature(°C)	-	Load(%)									
		100	90	80	70	60	50	40	30	20	10
20	Q	9550	8600	7640	6690	5730	4780	3820	2870	1910	1010
	W	2880	2540	2250	1950	1650	1360	1060	760	460	190
15	Q	8800	7920	7040	6160	5280	4400	3520	2640	1760	930
	W	2770	2450	2170	1880	1590	1310	1020	730	450	180
10	Q	8050	7250	6440	5640	4830	4030	3220	2420	1610	850
	W	2670	2360	2090	1810	1540	1260	980	710	430	170
7	Q	7600	6840	6080	5320	4560	3800	3040	2280	1520	800
	W	2610	2310	2040	1770	1500	1230	960	690	420	170
5.5	Q	6500	5850	5200	4550	3900	3250	2600	1950	1300	680
	W	2430	2150	1900	1650	1400	1150	900	640	390	160
5	Q	6500	5850	5200	4550	3900	3250	2600	1950	1300	680
	W	2410	2140	1890	1640	1390	1140	890	640	390	160
2	Q	6470	5820	5170	4520	3880	3230	2590	1940	1290	680
	W	2430	2150	1900	1650	1400	1150	900	640	390	160
0	Q	6450	5800	5160	4510	3870	3220	2580	1930	1290	680
	W	2670	2370	2090	1820	1540	1270	990	700	430	180
-5	Q	6400	5760	5120	4470	3840	3200	2560	1920	1280	670
	W	3130	2770	2450	2130	1810	1480	1160	830	500	210
-7	Q	6380	5740	5100	4460	3830	3190	2550	1910	1280	670
	W	3110	2760	2440	2120	1790	1470	1150	830	500	210
-10	Q	6120	5500	4890	4280	3670	3060	2450	1830	1230	640
	W	3040	2690	2380	2060	1760	1440	1120	810	490	190
-15	Q	5680	5110	4540	3970	3410	2840	2270	1700	1140	600
	W	2900	2560	2260	1960	1670	1370	1070	770	470	190
-20	Q	5070	4560	4060	3550	3040	2530	2030	1520	1010	530
	W	2770	2440	2150	1860	1600	1310	1020	730	450	180
-25	Q	4450	4010	3560	3120	2670	2230	1780	1340	890	470
	W	2640	2310	2040	1760	1520	1250	970	700	430	170

Outdoor unit : RAS-2M60S4AVG-ND

1-Indoor unit operation (Type : 18)

Compressor Speed	Cooling		Heating	
	Capacity Q(W)	Power consumption W(W)	Capacity Q(W)	Power consumption W(W)
MINIMUM	900	260	900	200
RATING	5000	980	6000	1850
MAXIMUM	6500	2180	8700	2920

Cooling Maximum

Outdoor temperature(°C)	-	Load(%)									
		100	90	80	70	60	50	40	30	20	10
46	Q	5580	5020	4470	3910	3350	2790	2230	1670	1120	770
	W	2520	1930	1700	1470	1240	1010	780	540	310	170
43	Q	5830	5250	4670	4080	3500	2920	2330	1750	1170	810
	W	2430	1860	1640	1420	1190	970	750	520	300	170
40	Q	6080	5470	4870	4260	3650	3040	2430	1820	1220	840
	W	2340	1790	1580	1360	1150	930	720	500	290	160
35	Q	6500	5850	5200	4550	3900	3250	2600	1950	1300	900
	W	2180	1670	1470	1270	1070	870	670	470	270	150
30	Q	6920	6230	5530	4840	4150	3460	2770	2080	1380	960
	W	2020	1550	1360	1180	990	810	620	440	250	140
25	Q	7330	6600	5870	5130	4400	3670	2930	2200	1470	1020
	W	1870	1430	1260	1090	920	750	570	400	230	130
20	Q	7750	6980	6200	5430	4650	3880	3100	2330	1550	1070
	W	1710	1310	1150	1000	840	680	530	370	210	120
15	Q	7980	7190	6380	5590	4790	3990	3190	2400	1600	1100
	W	1610	1230	1080	940	790	640	500	350	200	110
10	Q	8210	7390	6570	5750	4920	4110	3280	2470	1640	1130
	W	1500	1150	1010	880	740	600	470	320	180	110
5	Q	8440	7600	6750	5910	5060	4220	3370	2540	1690	1160
	W	1400	1070	940	820	690	560	430	300	170	100
0	Q	7590	6840	6070	5320	4550	3800	3040	2280	1520	1050
	W	2020	1550	1360	1180	990	800	630	440	250	140
-5	Q	7620	6870	6090	5340	4570	3820	3050	2290	1530	1060
	W	1970	1510	1320	1150	960	780	610	430	250	140
-10	Q	7640	6890	6110	5360	4580	3830	3060	2300	1530	1060
	W	1910	1460	1280	1110	930	760	590	420	240	130

Heating Maximum

Outdoor temperature(°C)	-	Load(%)									
		100	90	80	70	60	50	40	30	20	10
20	Q	10940	9840	8750	7660	6560	5470	4370	3280	2190	1130
	W	3220	2830	2490	2160	1830	1500	1170	840	510	190
15	Q	10080	9070	8060	7050	6050	5040	4030	3020	2020	1040
	W	3100	2730	2400	2080	1760	1450	1130	810	490	180
10	Q	9220	8290	7370	6450	5530	4610	3690	2760	1840	950
	W	2990	2630	2310	2010	1700	1390	1080	780	470	170
7	Q	8700	7830	6960	6090	5220	4350	3480	2610	1740	900
	W	2920	2570	2260	1960	1660	1360	1060	760	460	170
5.5	Q	7440	6700	5950	5210	4460	3720	2980	2230	1490	770
	W	2720	2400	2110	1830	1550	1270	990	710	430	160
5	Q	7430	6690	5950	5210	4460	3720	2980	2230	1490	770
	W	2700	2380	2100	1820	1540	1260	980	710	430	160
2	Q	7400	6660	5920	5180	4440	3700	2960	2220	1480	770
	W	2720	2400	2110	1830	1550	1270	990	710	430	160
0	Q	7380	6640	5900	5170	4420	3690	2950	2210	1480	770
	W	2990	2640	2320	2010	1710	1400	1090	780	470	180
-5	Q	7320	6590	5860	5130	4390	3660	2930	2200	1460	760
	W	3510	3100	2720	2360	2000	1640	1280	920	550	210
-7	Q	7300	6570	5840	5110	4380	3650	2920	2190	1460	760
	W	3480	3070	2710	2350	1990	1630	1260	920	550	210
-10	Q	7000	6300	5600	4900	4200	3500	2800	2100	1400	730
	W	3410	3000	2630	2290	1940	1580	1230	890	540	190
-15	Q	6500	5850	5200	4550	3900	3250	2600	1950	1300	670
	W	3240	2850	2510	2180	1840	1510	1180	840	510	190
-20	Q	5800	5220	4640	4060	3480	2900	2320	1740	1160	600
	W	3090	2710	2390	2070	1750	1440	1130	790	490	180
-25	Q	5100	4590	4080	3570	3060	2550	2040	1530	1020	530
	W	2940	2580	2260	1970	1650	1360	1080	740	460	170

Outdoor unit : RAS-2M60S4AVG-ND

2-Indoor units operation (Type : 10+10)

Compressor Speed	Cooling		Heating	
	Capacity Q(W)	Power consumption W(W)	Capacity Q(W)	Power consumption W(W)
MINIMUM	900	320	900	200
RATING	5600	1690	6400	1710
MAXIMUM	7000	2310	8700	2760

Cooling Maximum

Outdoor temperature(°C)	-	Load(%)									
		100	90	80	70	60	50	40	30	20	10
46	Q	6010	5410	4810	4210	3610	3010	2400	1800	1200	770
	W	2670	2330	2070	1820	1550	1300	1040	790	530	350
43	Q	6280	5650	5030	4400	3770	3140	2510	1880	1260	810
	W	2570	2240	2000	1750	1490	1250	1000	760	510	330
40	Q	6550	5900	5240	4590	3930	3280	2620	1970	1310	840
	W	2480	2150	1920	1680	1440	1200	960	730	490	320
35	Q	7000	6300	5600	4900	4200	3500	2800	2100	1400	900
	W	2310	2010	1790	1570	1340	1120	900	680	460	300
30	Q	7450	6700	5960	5210	4470	3720	2980	2230	1490	960
	W	2140	1870	1660	1460	1240	1040	840	630	430	280
25	Q	7900	7110	6320	5530	4740	3950	3160	2370	1580	1020
	W	1980	1720	1530	1340	1150	960	770	580	390	260
20	Q	8350	7510	6680	5840	5010	4170	3340	2500	1670	1070
	W	1810	1580	1410	1230	1050	880	710	530	360	240
15	Q	8600	7730	6880	6010	5160	4290	3440	2570	1720	1100
	W	1700	1480	1320	1150	990	830	670	500	340	230
10	Q	8840	7950	7070	6180	5310	4420	3540	2650	1770	1130
	W	1590	1390	1240	1080	920	770	620	470	320	210
5	Q	9090	8170	7270	6360	5450	4540	3640	2720	1820	1160
	W	1480	1290	1150	1000	860	720	580	430	290	200
0	Q	8180	7360	6540	5720	4910	4080	3270	2450	1640	1050
	W	2140	1860	1660	1450	1240	1040	840	630	420	280
-5	Q	8210	7390	6570	5740	4930	4100	3280	2460	1650	1060
	W	2080	1810	1620	1410	1210	1010	820	610	410	270
-10	Q	8240	7410	6590	5760	4940	4110	3290	2470	1650	1060
	W	2020	1760	1570	1370	1170	980	790	590	400	260

Heating Maximum

Outdoor temperature(°C)	-	Load(%)									
		100	90	80	70	60	50	40	30	20	10
20	Q	10940	9840	8750	7660	6560	5470	4370	3280	2190	1130
	W	3040	2590	2280	1980	1670	1370	1070	760	450	170
15	Q	10080	9070	8060	7050	6050	5040	4030	3020	2020	1040
	W	2930	2500	2200	1910	1620	1320	1030	730	440	160
10	Q	9220	8290	7370	6450	5530	4610	3690	2760	1840	950
	W	2820	2410	2120	1840	1560	1270	990	710	420	150
7	Q	8700	7830	6960	6090	5220	4350	3480	2610	1740	900
	W	2760	2350	2070	1800	1520	1240	970	690	410	150
5.5	Q	7440	6700	5950	5210	4460	3720	2980	2230	1490	770
	W	2570	2190	1930	1680	1420	1160	900	640	380	140
5	Q	7430	6690	5950	5210	4460	3720	2980	2230	1490	770
	W	2550	2180	1920	1670	1410	1150	890	640	380	140
2	Q	7400	6660	5920	5180	4440	3700	2960	2220	1480	770
	W	2570	2190	1930	1680	1420	1160	900	640	380	140
0	Q	7380	6640	5900	5170	4420	3690	2950	2210	1480	770
	W	2830	2410	2120	1850	1560	1280	990	700	420	150
-5	Q	7320	6590	5860	5130	4390	3660	2930	2200	1460	760
	W	3320	2830	2490	2170	1830	1500	1160	830	490	180
-7	Q	7300	6570	5840	5110	4380	3650	2920	2190	1460	760
	W	3290	2810	2480	2150	1820	1480	1150	830	490	180
-10	Q	7000	6300	5600	4900	4200	3500	2800	2100	1400	730
	W	3210	2750	2420	2100	1780	1450	1130	810	480	170
-15	Q	6500	5850	5200	4550	3900	3250	2600	1950	1300	670
	W	3060	2610	2300	2000	1690	1380	1080	770	460	170
-20	Q	5800	5220	4640	4060	3480	2900	2320	1740	1160	600
	W	2920	2490	2190	1910	1610	1320	1040	730	440	160
-25	Q	5100	4590	4080	3570	3060	2550	2040	1530	1020	530
	W	2770	2360	2080	1810	1530	1260	990	700	420	160

Outdoor unit : RAS-2M60S4AVG-ND

2-Indoor units operation (Type : 13+10)

Compressor Speed	Cooling		Heating	
	Capacity Q(W)	Power consumption W(W)	Capacity Q(W)	Power consumption W(W)
MINIMUM	1000	320	900	200
RATING	6000	1600	7400	1980
MAXIMUM	7000	2350	8700	2680

Cooling Maximum

Outdoor temperature(°C)	-	Load(%)									
		100	90	80	70	60	50	40	30	20	10
46	Q	6010	5410	4810	4210	3610	3010	2400	1800	1200	860
	W	2720	2230	1980	1740	1480	1230	970	720	460	320
43	Q	6280	5650	5030	4400	3770	3140	2510	1880	1260	900
	W	2620	2150	1910	1670	1430	1180	940	690	450	310
40	Q	6550	5900	5240	4590	3930	3280	2620	1970	1310	940
	W	2520	2070	1830	1610	1370	1140	900	660	430	300
35	Q	7000	6300	5600	4900	4200	3500	2800	2100	1400	1000
	W	2350	1930	1710	1500	1280	1060	840	620	400	280
30	Q	7450	6700	5960	5210	4470	3720	2980	2230	1490	1060
	W	2180	1790	1590	1390	1190	980	780	580	370	260
25	Q	7900	7110	6320	5530	4740	3950	3160	2370	1580	1130
	W	2010	1650	1460	1290	1100	910	720	530	340	240
20	Q	8350	7510	6680	5840	5010	4170	3340	2500	1670	1190
	W	1840	1520	1340	1180	1000	830	660	490	310	220
15	Q	8600	7730	6880	6010	5160	4290	3440	2570	1720	1230
	W	1730	1430	1260	1110	940	780	620	460	290	210
10	Q	8840	7950	7070	6180	5310	4420	3540	2650	1770	1260
	W	1610	1330	1180	1040	880	730	580	430	270	190
5	Q	9090	8170	7270	6360	5450	4540	3640	2720	1820	1300
	W	1500	1240	1090	960	820	680	540	400	250	180
0	Q	8180	7360	6540	5720	4910	4080	3270	2450	1640	1170
	W	2170	1790	1580	1390	1180	980	780	580	370	260
-5	Q	8210	7390	6570	5740	4930	4100	3280	2460	1650	1180
	W	2110	1740	1540	1350	1150	960	760	570	360	260
-10	Q	8240	7410	6590	5760	4940	4110	3290	2470	1650	1180
	W	2050	1690	1490	1310	1110	930	740	550	350	250

Heating Maximum

Outdoor temperature(°C)	-	Load(%)									
		100	90	80	70	60	50	40	30	20	10
20	Q	10940	9840	8750	7660	6560	5470	4370	3280	2190	1130
	W	2950	2510	2210	1930	1630	1340	1060	760	470	190
15	Q	10080	9070	8060	7050	6050	5040	4030	3020	2020	1040
	W	2850	2420	2140	1860	1570	1300	1020	730	460	180
10	Q	9220	8290	7370	6450	5530	4610	3690	2760	1840	950
	W	2740	2330	2060	1790	1510	1250	980	710	440	170
7	Q	8700	7830	6960	6090	5220	4350	3480	2610	1740	900
	W	2680	2280	2010	1750	1480	1220	960	690	430	170
5.5	Q	7440	6700	5950	5210	4460	3720	2980	2230	1490	770
	W	2500	2130	1870	1630	1380	1140	900	640	400	160
5	Q	7430	6690	5950	5210	4460	3720	2980	2230	1490	770
	W	2480	2120	1860	1620	1370	1130	890	640	400	160
2	Q	7400	6660	5920	5180	4440	3700	2960	2220	1480	770
	W	2500	2130	1870	1630	1380	1140	900	640	400	160
0	Q	7380	6640	5900	5170	4420	3690	2950	2210	1480	770
	W	2750	2340	2060	1790	1520	1250	990	700	440	180
-5	Q	7320	6590	5860	5130	4390	3660	2930	2200	1460	760
	W	3230	2750	2410	2100	1780	1470	1160	830	520	210
-7	Q	7300	6570	5840	5110	4380	3650	2920	2190	1460	760
	W	3200	2730	2400	2090	1770	1460	1150	830	520	210
-10	Q	7000	6300	5600	4900	4200	3500	2800	2100	1400	730
	W	3120	2660	2350	2040	1720	1430	1120	810	500	190
-15	Q	6500	5850	5200	4550	3900	3250	2600	1950	1300	670
	W	2970	2530	2230	1940	1640	1350	1070	770	480	190
-20	Q	5800	5220	4640	4060	3480	2900	2320	1740	1160	600
	W	2830	2410	2120	1850	1560	1280	1020	730	460	180
-25	Q	5100	4590	4080	3570	3060	2550	2040	1530	1020	530
	W	2680	2280	2020	1750	1480	1210	970	700	430	170

Outdoor unit : RAS-2M60S4AVG-ND

2-Indoor units operation (Type : 18+10)

Compressor Speed	Cooling		Heating	
	Capacity Q(W)	Power consumption W(W)	Capacity Q(W)	Power consumption W(W)
MINIMUM	1000	320	1000	200
RATING	6000	1680	7400	1960
MAXIMUM	7000	2350	8700	2630

Cooling Maximum

Outdoor temperature(°C)	-	Load(%)									
		100	90	80	70	60	50	40	30	20	10
46	Q	6010	5410	4810	4210	3610	3010	2400	1800	1200	860
	W	2720	2280	2030	1760	1500	1250	1000	740	470	340
43	Q	6280	5650	5030	4400	3770	3140	2510	1880	1260	900
	W	2620	2200	1950	1690	1450	1200	960	710	460	320
40	Q	6550	5900	5240	4590	3930	3280	2620	1970	1310	940
	W	2520	2110	1880	1630	1390	1160	920	690	440	310
35	Q	7000	6300	5600	4900	4200	3500	2800	2100	1400	1000
	W	2350	1970	1750	1520	1300	1080	860	640	410	290
30	Q	7450	6700	5960	5210	4470	3720	2980	2230	1490	1060
	W	2180	1830	1620	1410	1210	1000	800	590	380	270
25	Q	7900	7110	6320	5530	4740	3950	3160	2370	1580	1130
	W	2010	1690	1500	1300	1110	930	740	550	350	250
20	Q	8350	7510	6680	5840	5010	4170	3340	2500	1670	1190
	W	1840	1550	1370	1190	1020	850	680	500	320	230
15	Q	8600	7730	6880	6010	5160	4290	3440	2570	1720	1230
	W	1730	1460	1290	1120	960	800	640	470	300	220
10	Q	8840	7950	7070	6180	5310	4420	3540	2650	1770	1260
	W	1610	1360	1200	1040	900	750	600	440	280	200
5	Q	9090	8170	7270	6360	5450	4540	3640	2720	1820	1300
	W	1500	1270	1120	970	830	690	560	410	260	190
0	Q	8180	7360	6540	5720	4910	4080	3270	2450	1640	1170
	W	2170	1830	1620	1400	1200	1000	800	590	380	270
-5	Q	8210	7390	6570	5740	4930	4100	3280	2460	1650	1180
	W	2110	1780	1580	1360	1170	970	780	580	370	260
-10	Q	8240	7410	6590	5760	4940	4110	3290	2470	1650	1180
	W	2050	1730	1530	1320	1130	940	760	560	360	250

Heating Maximum

Outdoor temperature(°C)	-	Load(%)									
		100	90	80	70	60	50	40	30	20	10
20	Q	10940	9840	8750	7660	6560	5470	4370	3280	2190	1260
	W	2900	2470	2180	1880	1600	1310	1010	730	440	190
15	Q	10080	9070	8060	7050	6050	5040	4030	3020	2020	1160
	W	2790	2380	2100	1820	1540	1260	980	700	430	180
10	Q	9220	8290	7370	6450	5530	4610	3690	2760	1840	1060
	W	2690	2290	2030	1750	1480	1220	940	680	410	170
7	Q	8700	7830	6960	6090	5220	4350	3480	2610	1740	1000
	W	2630	2240	1980	1710	1450	1190	920	660	400	170
5.5	Q	7440	6700	5950	5210	4460	3720	2980	2230	1490	860
	W	2450	2090	1850	1590	1350	1110	860	620	370	160
5	Q	7430	6690	5950	5210	4460	3720	2980	2230	1490	860
	W	2430	2080	1840	1580	1340	1100	850	620	370	160
2	Q	7400	6660	5920	5180	4440	3700	2960	2220	1480	850
	W	2450	2090	1850	1590	1350	1110	860	620	370	160
0	Q	7380	6640	5900	5170	4420	3690	2950	2210	1480	850
	W	2700	2300	2040	1750	1490	1220	950	680	410	180
-5	Q	7320	6590	5860	5130	4390	3660	2930	2200	1460	840
	W	3160	2700	2390	2050	1740	1430	1110	800	480	210
-7	Q	7300	6570	5840	5110	4380	3650	2920	2190	1460	840
	W	3130	2680	2370	2040	1730	1420	1100	800	480	210
-10	Q	7000	6300	5600	4900	4200	3500	2800	2100	1400	810
	W	3070	2610	2310	2000	1690	1390	1070	780	470	190
-15	Q	6500	5850	5200	4550	3900	3250	2600	1950	1300	750
	W	2920	2490	2200	1900	1610	1320	1020	730	440	190
-20	Q	5800	5220	4640	4060	3480	2900	2320	1740	1160	670
	W	2790	2370	2090	1810	1540	1260	970	690	420	180
-25	Q	5100	4590	4080	3570	3060	2550	2040	1530	1020	590
	W	2660	2250	1990	1730	1460	1200	920	640	390	170

Outdoor unit : RAS-2M60S4AVG-ND

2-Indoor units operation (Type : 13+13)

Compressor Speed	Cooling		Heating	
	Capacity Q(W)	Power consumption W(W)	Capacity Q(W)	Power consumption W(W)
MINIMUM	1000	320	1000	200
RATING	6000	1680	7400	1980
MAXIMUM	7000	2350	8700	2700

Cooling Maximum

Outdoor temperature(°C)	-	Load(%)									
		100	90	80	70	60	50	40	30	20	10
46	Q	6010	5410	4810	4210	3610	3010	2400	1800	1200	860
	W	2720	2280	2030	1760	1500	1250	1000	740	470	340
43	Q	6280	5650	5030	4400	3770	3140	2510	1880	1260	900
	W	2620	2200	1950	1690	1450	1200	960	710	460	320
40	Q	6550	5900	5240	4590	3930	3280	2620	1970	1310	940
	W	2520	2110	1880	1630	1390	1160	920	690	440	310
35	Q	7000	6300	5600	4900	4200	3500	2800	2100	1400	1000
	W	2350	1970	1750	1520	1300	1080	860	640	410	290
30	Q	7450	6700	5960	5210	4470	3720	2980	2230	1490	1060
	W	2180	1830	1620	1410	1210	1000	800	590	380	270
25	Q	7900	7110	6320	5530	4740	3950	3160	2370	1580	1130
	W	2010	1690	1500	1300	1110	930	740	550	350	250
20	Q	8350	7510	6680	5840	5010	4170	3340	2500	1670	1190
	W	1840	1550	1370	1190	1020	850	680	500	320	230
15	Q	8600	7730	6880	6010	5160	4290	3440	2570	1720	1230
	W	1730	1460	1290	1120	960	800	640	470	300	220
10	Q	8840	7950	7070	6180	5310	4420	3540	2650	1770	1260
	W	1610	1360	1200	1040	900	750	600	440	280	200
5	Q	9090	8170	7270	6360	5450	4540	3640	2720	1820	1300
	W	1500	1270	1120	970	830	690	560	410	260	190
0	Q	8180	7360	6540	5720	4910	4080	3270	2450	1640	1170
	W	2170	1830	1620	1400	1200	1000	800	590	380	270
-5	Q	8210	7390	6570	5740	4930	4100	3280	2460	1650	1180
	W	2110	1780	1580	1360	1170	970	780	580	370	260
-10	Q	8240	7410	6590	5760	4940	4110	3290	2470	1650	1180
	W	2050	1730	1530	1320	1130	940	760	560	360	250

Heating Maximum

Outdoor temperature(°C)	-	Load(%)									
		100	90	80	70	60	50	40	30	20	10
20	Q	10940	9840	8750	7660	6560	5470	4370	3280	2190	1260
	W	2970	2520	2230	1930	1630	1330	1040	740	440	190
15	Q	10080	9070	8060	7050	6050	5040	4030	3020	2020	1160
	W	2870	2430	2150	1860	1570	1290	1000	710	430	180
10	Q	9220	8290	7370	6450	5530	4610	3690	2760	1840	1060
	W	2760	2340	2070	1790	1510	1240	960	690	410	170
7	Q	8700	7830	6960	6090	5220	4350	3480	2610	1740	1000
	W	2700	2290	2020	1750	1480	1210	940	670	400	170
5.5	Q	7440	6700	5950	5210	4460	3720	2980	2230	1490	860
	W	2520	2140	1880	1630	1380	1130	880	620	370	160
5	Q	7430	6690	5950	5210	4460	3720	2980	2230	1490	860
	W	2500	2130	1870	1620	1370	1120	870	620	370	160
2	Q	7400	6660	5920	5180	4440	3700	2960	2220	1480	850
	W	2520	2140	1880	1630	1380	1130	880	620	370	160
0	Q	7380	6640	5900	5170	4420	3690	2950	2210	1480	850
	W	2770	2350	2070	1790	1520	1240	970	680	410	180
-5	Q	7320	6590	5860	5130	4390	3660	2930	2200	1460	840
	W	3250	2760	2430	2100	1780	1460	1140	800	480	210
-7	Q	7300	6570	5840	5110	4380	3650	2920	2190	1460	840
	W	3230	2750	2410	2090	1770	1440	1120	800	480	210
-10	Q	7000	6300	5600	4900	4200	3500	2800	2100	1400	810
	W	3150	2670	2360	2040	1720	1410	1090	790	470	190
-15	Q	6500	5850	5200	4550	3900	3250	2600	1950	1300	750
	W	3000	2540	2240	1940	1640	1340	1040	740	440	190
-20	Q	5800	5220	4640	4060	3480	2900	2320	1740	1160	670
	W	2860	2410	2130	1850	1560	1280	990	700	420	180
-25	Q	5100	4590	4080	3570	3060	2550	2040	1530	1020	590
	W	2710	2280	2030	1750	1480	1220	940	670	390	170

Outdoor unit : RAS-2M60S4AVG-ND

2-Indoor units operation (Type : 18+13)

Compressor Speed	Cooling		Heating	
	Capacity Q(W)	Power consumption W(W)	Capacity Q(W)	Power consumption W(W)
MINIMUM	1000	310	1000	200
RATING	6000	1650	7400	1850
MAXIMUM	7000	2350	8700	2610

Cooling Maximum

Outdoor temperature(°C)	-	Load(%)									
		100	90	80	70	60	50	40	30	20	10
46	Q	6010	5410	4810	4210	3610	3010	2400	1800	1200	860
	W	2720	2260	2000	1750	1490	1240	980	720	460	320
43	Q	6280	5650	5030	4400	3770	3140	2510	1880	1260	900
	W	2620	2170	1930	1680	1440	1190	950	690	450	310
40	Q	6550	5900	5240	4590	3930	3280	2620	1970	1310	940
	W	2520	2090	1850	1620	1380	1150	910	660	430	300
35	Q	7000	6300	5600	4900	4200	3500	2800	2100	1400	1000
	W	2350	1950	1730	1510	1290	1070	850	620	400	280
30	Q	7450	6700	5960	5210	4470	3720	2980	2230	1490	1060
	W	2180	1810	1610	1400	1200	990	790	580	370	260
25	Q	7900	7110	6320	5530	4740	3950	3160	2370	1580	1130
	W	2010	1670	1480	1290	1110	920	730	530	340	240
20	Q	8350	7510	6680	5840	5010	4170	3340	2500	1670	1190
	W	1840	1530	1360	1190	1010	840	670	490	310	220
15	Q	8600	7730	6880	6010	5160	4290	3440	2570	1720	1230
	W	1730	1440	1280	1120	950	790	630	460	290	210
10	Q	8840	7950	7070	6180	5310	4420	3540	2650	1770	1260
	W	1610	1340	1190	1040	890	740	590	430	270	190
5	Q	9090	8170	7270	6360	5450	4540	3640	2720	1820	1300
	W	1500	1250	1110	970	820	690	550	400	250	180
0	Q	8180	7360	6540	5720	4910	4080	3270	2450	1640	1170
	W	2170	1810	1600	1400	1190	990	790	580	370	260
-5	Q	8210	7390	6570	5740	4930	4100	3280	2460	1650	1180
	W	2110	1760	1560	1360	1160	960	770	570	360	260
-10	Q	8240	7410	6590	5760	4940	4110	3290	2470	1650	1180
	W	2050	1710	1510	1320	1120	930	750	550	350	250

Heating Maximum

Outdoor temperature(°C)	-	Load(%)									
		100	90	80	70	60	50	40	30	20	10
20	Q	10940	9840	8750	7660	6560	5470	4370	3280	2190	1260
	W	2880	2400	2130	1840	1550	1270	990	710	420	190
15	Q	10080	9070	8060	7050	6050	5040	4030	3020	2020	1160
	W	2770	2320	2050	1770	1500	1220	960	680	400	180
10	Q	9220	8290	7370	6450	5530	4610	3690	2760	1840	1060
	W	2670	2230	1980	1710	1440	1180	920	660	390	170
7	Q	8700	7830	6960	6090	5220	4350	3480	2610	1740	1000
	W	2610	2180	1930	1670	1410	1150	900	640	380	170
5.5	Q	7440	6700	5950	5210	4460	3720	2980	2230	1490	860
	W	2430	2030	1800	1560	1310	1070	840	600	350	160
5	Q	7430	6690	5950	5210	4460	3720	2980	2230	1490	860
	W	2410	2020	1790	1550	1300	1060	830	600	350	160
2	Q	7400	6660	5920	5180	4440	3700	2960	2220	1480	850
	W	2430	2030	1800	1560	1310	1070	840	600	350	160
0	Q	7380	6640	5900	5170	4420	3690	2950	2210	1480	850
	W	2670	2230	1980	1720	1440	1180	920	660	390	180
-5	Q	7320	6590	5860	5130	4390	3660	2930	2200	1460	840
	W	3130	2620	2320	2010	1690	1380	1080	770	450	210
-7	Q	7300	6570	5840	5110	4380	3650	2920	2190	1460	840
	W	3110	2610	2310	2000	1680	1370	1070	770	450	210
-10	Q	7000	6300	5600	4900	4200	3500	2800	2100	1400	810
	W	3040	2540	2260	1950	1640	1350	1050	750	440	190
-15	Q	6500	5850	5200	4550	3900	3250	2600	1950	1300	750
	W	2900	2420	2140	1850	1570	1280	1000	710	420	190
-20	Q	5800	5220	4640	4060	3480	2900	2320	1740	1160	670
	W	2770	2300	2030	1760	1500	1220	960	670	400	180
-25	Q	5100	4590	4080	3570	3060	2550	2040	1530	1020	590
	W	2640	2180	1930	1660	1430	1170	910	640	380	170

Outdoor unit : RAS-2M60S4AVG-ND

2-Indoor units operation (Type : 18+18)

Compressor Speed	Cooling		Heating	
	Capacity Q(W)	Power consumption W(W)	Capacity Q(W)	Power consumption W(W)
MINIMUM	1100	310	1100	200
RATING	6000	1630	7400	1850
MAXIMUM	7000	2350	8700	2520

Cooling Maximum

Outdoor temperature(°C)	-	Load(%)									
		100	90	80	70	60	50	40	30	20	10
46	Q	6010	5410	4810	4210	3610	3010	2400	1800	1200	940
	W	2720	2250	1990	1720	1470	1200	950	680	430	310
43	Q	6280	5650	5030	4400	3770	3140	2510	1880	1260	990
	W	2620	2160	1920	1660	1420	1160	910	660	410	300
40	Q	6550	5900	5240	4590	3930	3280	2620	1970	1310	1030
	W	2520	2080	1840	1600	1360	1110	880	630	400	290
35	Q	7000	6300	5600	4900	4200	3500	2800	2100	1400	1100
	W	2350	1940	1720	1490	1270	1040	820	590	370	270
30	Q	7450	6700	5960	5210	4470	3720	2980	2230	1490	1170
	W	2180	1800	1600	1380	1180	970	760	550	340	250
25	Q	7900	7110	6320	5530	4740	3950	3160	2370	1580	1240
	W	2010	1660	1470	1280	1090	890	700	510	320	230
20	Q	8350	7510	6680	5840	5010	4170	3340	2500	1670	1310
	W	1840	1520	1350	1170	1000	820	640	460	290	210
15	Q	8600	7730	6880	6010	5160	4290	3440	2570	1720	1350
	W	1730	1430	1270	1100	940	770	600	430	270	200
10	Q	8840	7950	7070	6180	5310	4420	3540	2650	1770	1390
	W	1610	1330	1180	1030	880	720	560	400	250	180
5	Q	9090	8170	7270	6360	5450	4540	3640	2720	1820	1430
	W	1500	1240	1100	960	820	670	520	380	240	170
0	Q	8180	7360	6540	5720	4910	4080	3270	2450	1640	1280
	W	2170	1790	1590	1380	1180	970	760	540	340	250
-5	Q	8210	7390	6570	5740	4930	4100	3280	2460	1650	1290
	W	2110	1740	1550	1340	1150	950	740	530	330	250
-10	Q	8240	7410	6590	5760	4940	4110	3290	2470	1650	1290
	W	2050	1690	1500	1300	1110	920	720	510	320	240

Heating Maximum

Outdoor temperature(°C)	-	Load(%)									
		100	90	80	70	60	50	40	30	20	10
20	Q	10940	9840	8750	7660	6560	5470	4370	3280	2190	1380
	W	2780	2350	2070	1800	1510	1230	960	670	400	190
15	Q	10080	9070	8060	7050	6050	5040	4030	3020	2020	1270
	W	2680	2260	2000	1730	1460	1190	920	650	380	180
10	Q	9220	8290	7370	6450	5530	4610	3690	2760	1840	1170
	W	2580	2180	1920	1670	1400	1150	890	620	370	170
7	Q	8700	7830	6960	6090	5220	4350	3480	2610	1740	1100
	W	2520	2130	1880	1630	1370	1120	870	610	360	170
5.5	Q	7440	6700	5950	5210	4460	3720	2980	2230	1490	940
	W	2350	1990	1750	1520	1280	1040	810	570	340	160
5	Q	7430	6690	5950	5210	4460	3720	2980	2230	1490	940
	W	2330	1980	1740	1510	1270	1030	800	570	340	160
2	Q	7400	6660	5920	5180	4440	3700	2960	2220	1480	930
	W	2350	1990	1750	1520	1280	1040	810	570	340	160
0	Q	7380	6640	5900	5170	4420	3690	2950	2210	1480	930
	W	2590	2190	1930	1670	1410	1140	890	630	370	180
-5	Q	7320	6590	5860	5130	4390	3660	2930	2200	1460	920
	W	3030	2570	2260	1960	1650	1340	1040	740	440	210
-7	Q	7300	6570	5840	5110	4380	3650	2920	2190	1460	920
	W	3010	2550	2240	1950	1640	1330	1030	740	440	210
-10	Q	7000	6300	5600	4900	4200	3500	2800	2100	1400	880
	W	2940	2490	2190	1900	1600	1310	1010	710	420	190
-15	Q	6500	5850	5200	4550	3900	3250	2600	1950	1300	820
	W	2800	2360	2090	1810	1520	1240	970	680	400	190
-20	Q	5800	5220	4640	4060	3480	2900	2320	1740	1160	730
	W	2670	2240	2000	1720	1450	1180	930	640	380	180
-25	Q	5100	4590	4080	3570	3060	2550	2040	1530	1020	640
	W	2540	2120	1900	1640	1370	1130	900	610	350	170

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