

Super Digital Inverter 4 series

Engineering Data Book

Outdoor Unit

RAV-SP404AT-E

RAV-SP454AT-E

RAV-SP564AT(Z)(ZG)-E

RAV-SP804AT(Z)(ZG)-E

RAV-SP1104AT(Z)(ZG)-E

RAV-SP1404AT(Z)(ZG)-E

RAV-SP404ATP-E

RAV-SP454ATP-E

RAV-SP564AT(J)P-E

RAV-SP804AT(J)P-E

Contents

- 1. Line up**
- 2. Indoor Unit**
 - 2-1. 4-way Cassette Type
 - 2-2. 4-way Cassette Type (P)
 - 2-3. Compact 4-way Cassette Type
 - 2-4. Ducted Type (6 series)
 - 2-5. Slim Duct Type
 - 2-6. Ceiling Type
 - 2-7. Ceiling Type (7 series)
 - 2-8. High Wall Type (6 series)
- 3. Outdoor Unit**
- 4. Option**

1. Line up

1-1. Single Line-up

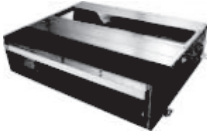
1-2. Twin Line-up

1-1. Single Line-up

Outdoor unit line-up

Model name	RAV-SP404AT-E	RAV-SP454AT-E	RAV-SP564AT-E	RAV-SP804AT-E	RAV-SP1104AT-E	RAV-SP1404AT-E
Appearance						

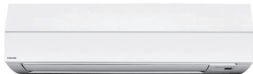
Indoor unit line-up

Capacity type			40	45	56	80	110	140
(HP equivalent)			1.5	1.7	2.0	3.0	4.0	5.0
4-way Cassette	RAV-SM**4UT-E							
	RAV-SM**4UTP-E							
Compact 4-way Cassette (600*600)	RAV-SM**4MUT-E							
Ducted	RAV-SM**6BT-E							
Slim Duct	RAV-SM**4SDT-E							
Under Ceiling	RAV-SM**4CT-E							
	RAV-SM**7CTP-E							
High Wall	RAV-SM**6KRT-E							

Outdoor unit line-up

Model name	RAV-SP404ATP-E	RAV-SP454ATP-E	RAV-SP564AT(J)P-E	RAV-SP804AT(J)P-E
Appearance				

Indoor unit line-up

Capacity type			40	45	56	80
(HP equivalent)			1.5	1.7	2.0	3.0
4-way Cassette	RAV-SM**4UT-E					
	RAV-SM**4UTP-E					
Compact 4-way Cassette (600*600)	RAV-SM**4MUT-E					
Ducted	RAV-SM**6BT-E					
Slim Duct	RAV-SM**4SDT-E					
Under Ceiling	RAV-SM**4CT-E					
	RAV-SM**7CTP-E					
High Wall	RAV-SM**6KRT-E					

1-2. Twin Line-up

Outdoor unit line-up (Twin system)

Model name	RAV-SP804AT-E	RAV-SP1104AT-E	RAV-SP1404AT-E
Appearance			

Indoor unit line-up

Capacity type			40	56	80	
(HP equivalent)			1.5	2.0	3.0	
Indoor unit		unit				Outdoor unit
Compact 4-way Cassette (600*600)	RAV-SM404MUT-E	2				RAV-SP804AT-E
Ducted	RAV-SM406BT-E	2				
Slim Duct	RAV-SM404SDT-E	2				
4-way Cassette	RAV-SM564UT-E	2				RAV-SP1104AT-E
	RAV-SM564UTP-E	2				
Compact 4-way Cassette (600*600)	RAV-SM564MUT-E	2				
Ducted	RAV-SM566BT-E	2				
Slim Duct	RAV-SM564SDT-E	2				
Under Ceiling	RAV-SM564CT-E	2				
	RAV-SM567CTP-E	2				
High wall	RAV-SM564KRT-E	2				
	RAV-SM566KRT-E	2				
4-way Cassette	RAV-SM804UT-E	2				RAV-SP1404AT-E
	RAV-SM804UTP-E	2				
Compact 4-way Cassette (600*600)	RAV-SM804MUT-E	2				
Ducted	RAV-SM806BT-E	2				
Under Ceiling	RAV-SM804CT-E	2				
	RAV-SM807CTP-E	2				
High wall	RAV-SM806KRT-E	2				

Outdoor unit line-up (Twin system)

Model name	RAV-SP804AT(J)P-E
Appearance	

Indoor unit line-up

Capacity type			40	56	80	
(HP equivalent)			1.5	2.0	3.0	
Indoor unit		unit				Outdoor unit
Compact 4-way Cassette (600*600)	RAV-SM404MUT-E	2				RAV-SP804AT(J)P-E
Ducted	RAV-SM406BT-E	2				
Slim Duct	RAV-SM404SDT-E	2				

2. Indoor Unit

2-1. 4-way Cassette Type

2-1-1. Specifications

2-1-2. Dimension

2-1-3. Wiring diagrams

2-1-4. Sensible capacity table

2-1-5. Part load performance

2-1-6. Air throw distance chart

2-1-7. Sound characteristics (NC curve)

2-1-1. Specifications

<Single type>

Model	Indoor unit		RAV-SM	564UT-E	804UT-E	1104UT-E	1404UT-E	
	Outdoor unit		RAV-SP	564AT(Z) (ZG)-E	804AT(Z) (ZG)-E	1104AT(Z) (ZG)-E	1404AT(Z) (ZG)-E	
Cooling capacity				(kW)	5.3 (1.2 – 5.6)	7.1 (1.9 – 8.0)	10.0 (2.6 – 12.0)	12.5 (2.6 – 14.0)
Heating capacity				(kW)	5.6 (0.9 – 8.1)	8.0 (1.3 – 11.3)	11.2 (2.4 – 13.0)	14.0 (2.4 – 16.5)
Power supply					1 phase 230V (220 – 240V) 50Hz			
Electrical characteristics	Cooling	Running current	(A)	6.82 – 6.25	8.72 – 7.99	10.36 – 9.49	14.66 – 13.44	
		Power consumption	(kW)	1.47	1.86	2.21	3.16	
		Power factor	(%)	98	97	97	98	
		EER		3.61	3.82	4.52	3.96	
		Energy efficiency class *		A	A	A	A	
	Heating	Running current	(A)	5.61 – 5.14	8.95 – 8.20	10.96 – 10.05	14.89 – 13.65	
		Power consumption	(kW)	1.21	1.91	2.34	3.21	
		Power factor	(%)	98	97	97	98	
		COP		4.63	4.19	4.79	4.36	
		Energy efficiency class *		A	A	A	A	
	Maximum current		(A)	13.30	20.30	20.50	20.50	
Appearance	Main unit			Zinc hot dipping steel plate				
	Ceiling panel (Sold separately)	Model		RBC-U31PG (W, WS)-E, RBC-U31PGS (W, WS)-E				
		Panel color		W: Moon-white (2.5GY 9.0/0.5), WS: Stripe-white (2.5GY 9.0/0.5, (Gray: 8B 3/0.3))				
Outer dimension	Main unit	Height	(mm)	256	256	319	319	
		Width	(mm)	840	840	840	840	
		Depth	(mm)	840	840	840	840	
	Ceiling panel (Sold separately)	Height	(mm)	30	30	30	30	
		Width	(mm)	950	950	950	950	
		Depth	(mm)	950	950	950	950	
Total weight	Main unit		(kg)	20	20	24	24	
	Ceiling panel (Sold separately)		(kg)	4.2	4.2	4.2	4.2	
Heat exchanger				Finned tube				
Fan unit	Fan			Turbo fan				
	Standard air flow	H/M/L	(m³/min.)	17.5/14.5/13.0	20.5/16.0/13.5	33.5/24.0/19.5	35.0/24.0/20.5	
	Motor			(W)	14	20	68	72
Air filter				Standard filter attached (Long life filter)				
Controller (Sold separately)				RBC-AMT32E, AMS41E, AS21E2, AX31U (W, WS)-E, TCB-AX21E2				
Sound pressure level		H/M/L	(dB•A)	32/29/28	35/31/28	43/38/33	44/38/34	
Sound power level		H/M/L	(dB•A)	47/44/43	50/46/43	58/53/48	59/53/49	
Connecting pipe		Gas side	(mm)	12.7	15.9	15.9	15.9	
		Liquid side	(mm)	6.4	9.5	9.5	9.5	
		Drain port	(mm)	VP25				

* : IEC standard

*1 : The cooling capacities and electrical characteristics are measured under the conditions specified by JIS B 8615 based on the reference piping. The reference piping consists of 5 m of main piping and 2.5 m of branch piping connected with 0 meter height.

*2 : The sound level are measured in an anechoic chamber in accordance with JIS B 8616. Normally, the values measured in the actual operating environment become larger than the indicated values due to the effects of external sound.

Note :

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

<Twin type>

Model	Indoor unit 1		RAV-SM	564UT-E	804UT-E
	Indoor unit 2		RAV-SM	564UT-E	804UT-E
	Outdoor unit		RAV-SP	1104AT(Z)(ZG)-E	1404AT(Z)(ZG)-E
Cooling capacity			(kW)	10.0 (2.6 – 12.0)	12.5 (2.6 – 14.0)
Heating capacity			(kW)	11.2 (2.4 – 13.0)	14.0 (2.4 – 16.5)
Indoor unit					
Power supply			1 phase 230V (220 – 240V) 50Hz		
Electrical characteristics	Cooling	Running current (A)		10.36 – 9.49	14.66 – 13.44
		Power consumption (kW)		2.21	3.16
		Power factor (%)		97	98
		EER		4.52	3.96
		Energy efficiency class *		A	A
	Heating	Running current (A)		10.96 – 10.05	14.89 – 13.65
		Power consumption (kW)		2.34	3.21
		Power factor (%)		97	98
		COP		4.79	4.36
		Energy efficiency class *		A	A
Fan unit	Fan		Turbo fan		
	Standard air flow	H/M/L (m³/min.)	17.5/14.5/13.0	20.5/16.0/13.5	
	Motor (W)		14	20	
Sound pressure level		H/M/L (dB•A)	32/29/28	35/31/28	
Sound power level		H/M/L (dB•A)	47/44/43	50/46/43	
Outdoor unit					
Power supply			1 phase 230V (220 – 240V) 50Hz		
Refrigerant pipe	Standard length (m)		7.5	7.5	
	Min. length (m)		3	3	
	Max. total length (m)		50	50	
	Refrigerant charging amount (Charge-less up to 30m)		40g/m (31m to 50m)		
	Height difference	Outdoor lower (m)	30	30	
		Outdoor higher (m)	30	30	
Fan unit	Fan		Propeller fan		
	Standard air flow (m³/min.)		101	103	
	Motor (W)		100 + 100	100 + 100	
Connecting pipe	Gas side	Main (mm)	15.9	15.9	
		Sub (mm)	12.7	15.9	
	Liquid side	Main (mm)	9.5	9.5	
		Sub (mm)	6.4	9.5	
Sound pressure level		Cooling/Heating (dB•A)	49/50	51/52	
Sound power level		Cooling/Heating (dB•A)	66/67	68/69	

*: IEC standard

<Single type>

Model	Indoor unit		RAV-SM	564UT-E	804UT-E
	Outdoor unit		RAV-SP	564AT(J)P-E	804AT(J)P-E
Cooling capacity			(kW)	5.3 (1.2 – 5.6)	7.1 (1.9 – 8.0)
Heating capacity			(kW)	5.6 (0.9 – 8.1)	8.0 (1.3 – 11.3)
Power supply			1 phase 230V (220 – 240V) 50Hz		
Electrical characteristics	Cooling	Running current	(A)	6.82 – 6.25	8.72 – 7.99
		Power consumption	(kW)	1.47	1.86
		Power factor	(%)	98	97
		EER		3.61	3.82
		Energy efficiency class *		A	A
	Heating	Running current	(A)	5.61 – 5.14	8.95 – 8.20
		Power consumption	(kW)	1.21	1.91
		Power factor	(%)	98	97
		COP		4.63	4.19
		Energy efficiency class *		A	A
Maximum current		(A)	13.30	20.30	
Appearance	Main unit		Zinc hot dipping steel plate		
	Ceiling panel (Sold separately)	Model	RBC-U31PG (W, WS)-E, RBC-U31PGS (W, WS)-E		
		Panel color	W: Moon-white (2.5GY 9.0/0.5), WS: Stripe-white (2.5GY 9.0/0.5, (Gray: 8B 3/0.3))		
Outer dimension	Main unit	Height	(mm)	256	256
		Width	(mm)	840	840
		Depth	(mm)	840	840
	Ceiling panel (Sold separately)	Height	(mm)	30	30
		Width	(mm)	950	950
		Depth	(mm)	950	950
Total weight	Main unit		(kg)	20	20
	Ceiling panel (Sold separately)		(kg)	4.2	4.2
Heat exchanger			Finned tube		
Fan unit	Fan		Turbo fan		
	Standard air flow	H/M/L	(m³/min.)	17.5/14.5/13.0	20.5/16.0/13.5
	Motor		(W)	14	20
Air filter			Standard filter attached (Long life filter)		
Controller (Sold separately)			RBC-AMT32E, AMS41E, AS21E2, AX31U (W, WS)-E, TCB-AX21E2		
Sound pressure level		H/M/L	(dB•A)	32/29/28	35/31/28
Sound power level		H/M/L	(dB•A)	47/44/43	50/46/43
Connecting pipe		Gas side	(mm)	12.7	15.9
		Liquid side	(mm)	6.4	9.5
		Drain port	(mm)	VP25	

*: IEC standard

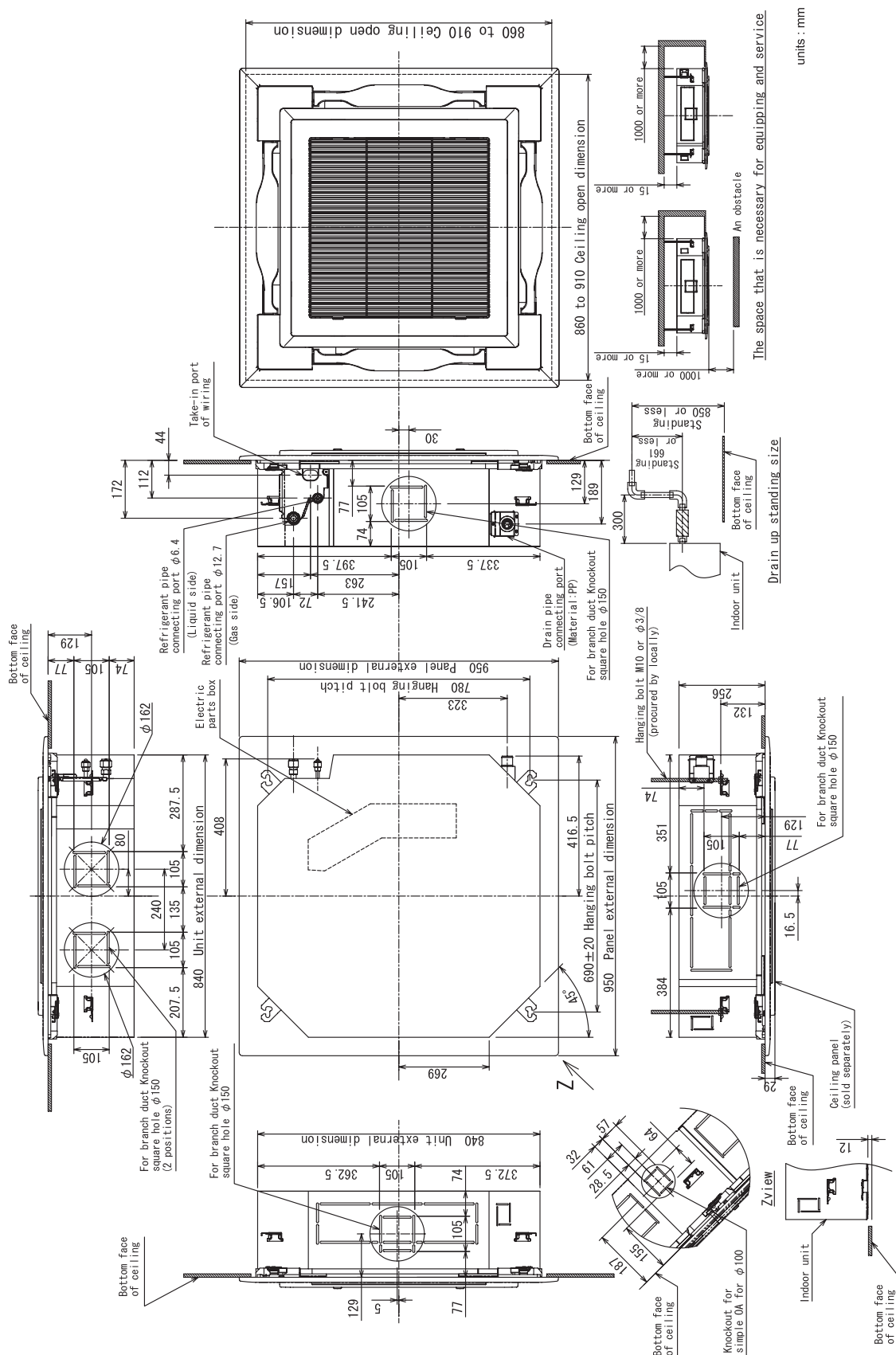
*1 : The cooling capacities and electrical characteristics are measured under the conditions specified by JIS B 8615 based on the reference piping. The reference piping consists of 5 m of main piping and 2.5 m of branch piping connected with 0 meter height.

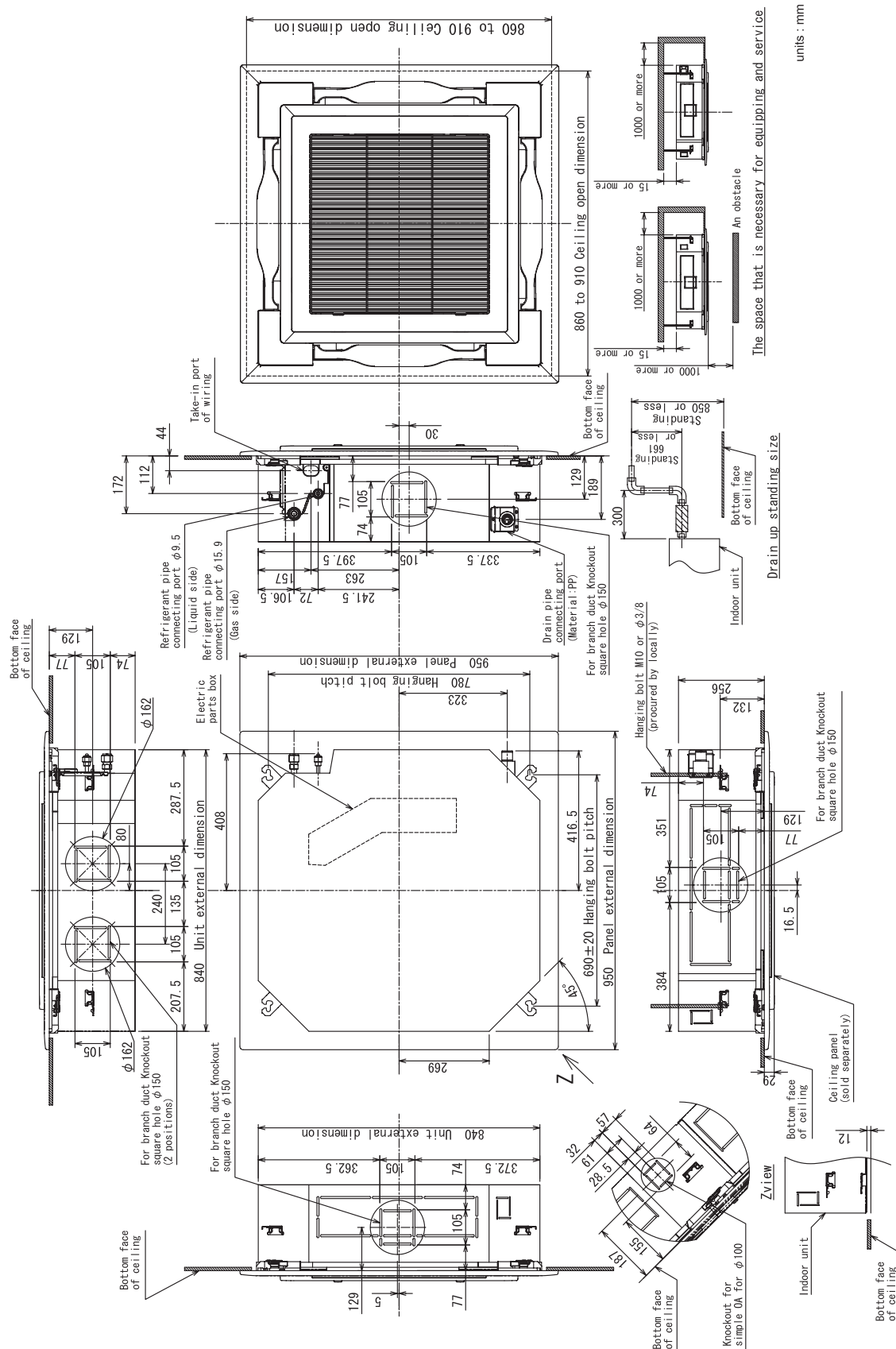
*2 : The sound level are measured in an anechoic chamber in accordance with JIS B 8616. Normally, the values measured in the actual operating environment become larger than the indicated values due to the effects of external sound.

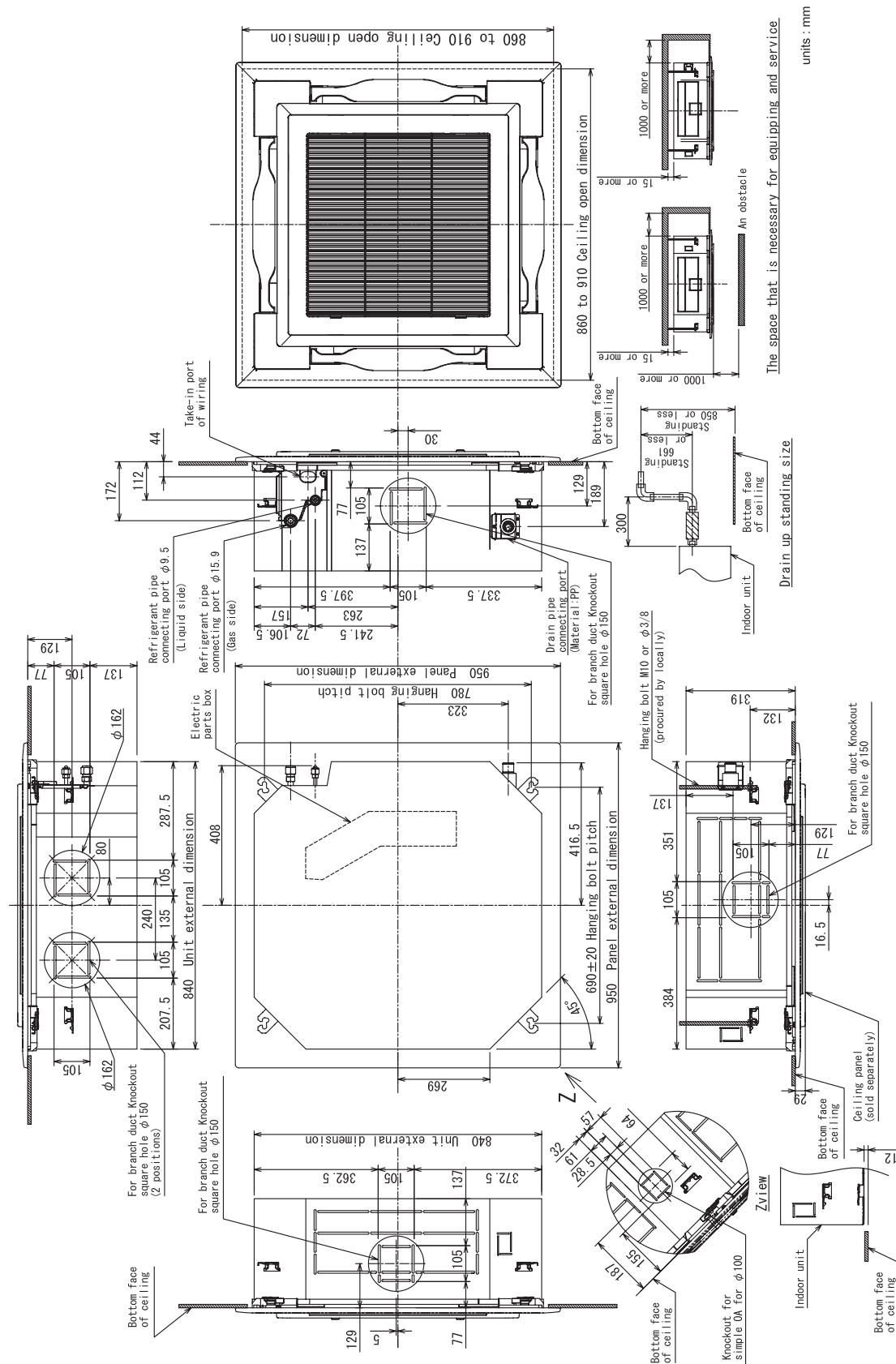
Note :

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

2-1-2. Dimension

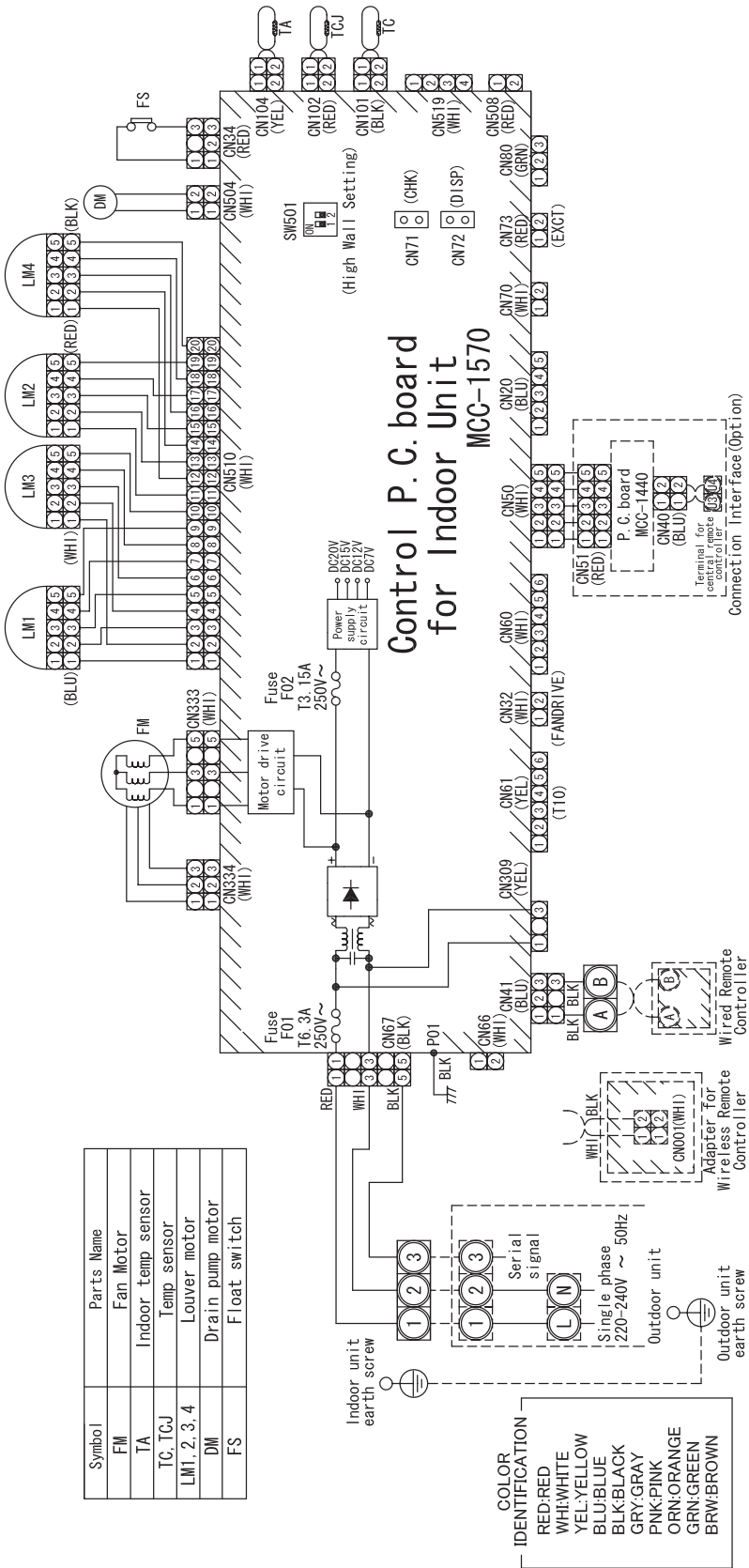
RAV-SM564UT-E

RAV-SM804UT-E

RAV-SM1104UT-E/RAV-SM1404UT-E

2-1-3. Wiring diagrams

RAV-SM564UT-E/RAV-SM804UT-E/RAV-SM1104UT-E/RAV-SM1404UT-E



2-1-4. Sensible capacity table

Super Digital Inverter 4 Series Sensible Heat Capacity : RAV-SM***UT-E

unit size	outdoor air temp. CDB	indoor air temp.																	
		14.0CWB 20.0CDB		15.0CWB 21.5CDB		16.0CWB 23.0CDB		17.0CWB 24.5CDB		18.0CWB 26.0CDB		19.0CWB 27.0CDB		20.0CWB 28.0CDB		22.0CWB 30.0CDB		24.0CWB 32.0CDB	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
564	10.0	5.0	3.5	5.2	3.7	5.5	3.9	5.7	4.0	5.9	4.1	6.1	4.3	6.2	4.4	6.6	4.6	6.9	4.8
	12.0	4.9	3.5	5.2	3.7	5.5	3.8	5.7	4.0	5.8	4.1	6.0	4.2	6.2	4.4	6.6	4.6	6.9	4.8
	14.0	4.9	3.5	5.2	3.6	5.4	3.8	5.6	3.9	5.8	4.1	6.0	4.2	6.2	4.3	6.5	4.6	6.8	4.8
	16.0	4.9	3.4	5.1	3.6	5.4	3.8	5.6	3.9	5.8	4.1	5.9	4.2	6.1	4.3	6.5	4.5	6.8	4.8
	18.0	4.8	3.4	5.1	3.6	5.3	3.8	5.5	3.9	5.7	4.0	5.9	4.1	6.1	4.3	6.4	4.5	6.7	4.7
	20.0	4.8	3.4	5.1	3.5	5.3	3.7	5.5	3.9	5.7	4.0	5.8	4.1	6.0	4.2	6.4	4.5	6.7	4.7
	21.0	4.8	3.4	5.0	3.5	5.3	3.7	5.5	3.8	5.7	4.0	5.8	4.1	6.0	4.2	6.3	4.5	6.6	4.7
	23.0	4.7	3.3	5.0	3.5	5.2	3.7	5.4	3.8	5.6	3.9	5.8	4.0	5.9	4.2	6.3	4.4	6.6	4.6
	25.0	4.7	3.3	4.9	3.5	5.2	3.6	5.4	3.8	5.5	3.9	5.7	4.0	5.9	4.1	6.2	4.4	6.5	4.6
	27.0	4.6	3.2	4.9	3.4	5.1	3.6	5.3	3.7	5.5	3.8	5.6	4.0	5.8	4.1	6.1	4.3	6.4	4.5
	29.0	4.6	3.2	4.8	3.4	5.0	3.5	5.2	3.7	5.4	3.8	5.6	3.9	5.7	4.0	6.1	4.3	6.3	4.4
	31.0	4.5	3.2	4.7	3.3	5.0	3.5	5.1	3.6	5.3	3.7	5.5	3.8	5.6	4.0	6.0	4.2	6.2	4.4
	33.0	4.4	3.1	4.7	3.3	4.9	3.4	5.1	3.6	5.2	3.7	5.4	3.8	5.5	3.9	5.9	4.1	6.1	4.3
	35.0	4.4	3.1	4.6	3.2	4.8	3.4	5.0	3.5	5.1	3.6	5.3	3.7	5.5	3.8	5.8	4.1	6.0	4.2
	37.0	4.3	3.0	4.5	3.2	4.7	3.3	4.9	3.4	5.1	3.5	5.2	3.7	5.3	3.8	5.7	4.0	5.9	4.2
	39.0	4.2	2.9	4.4	3.1	4.6	3.2	4.8	3.4	4.9	3.5	5.1	3.6	5.2	3.7	5.5	3.9	5.8	4.1

unit size	outdoor air temp. CDB	indoor air temp.																	
		14.0CWB 20.0CDB		15.0CWB 21.5CDB		16.0CWB 23.0CDB		17.0CWB 24.5CDB		18.0CWB 26.0CDB		19.0CWB 27.0CDB		20.0CWB 28.0CDB		22.0CWB 30.0CDB		24.0CWB 32.0CDB	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
804	10.0	6.7	4.4	7.0	4.6	7.4	4.9	7.6	5.0	7.9	5.2	8.1	5.4	8.3	5.5	8.8	5.9	9.2	6.1
	12.0	6.6	4.4	7.0	4.6	7.3	4.8	7.6	5.0	7.8	5.2	8.1	5.3	8.3	5.5	8.8	5.8	9.2	6.1
	14.0	6.6	4.4	6.9	4.6	7.3	4.8	7.5	5.0	7.8	5.2	8.0	5.3	8.2	5.5	8.7	5.8	9.1	6.0
	16.0	6.5	4.3	6.9	4.6	7.2	4.8	7.5	5.0	7.7	5.1	8.0	5.3	8.2	5.4	8.7	5.7	9.1	6.0
	18.0	6.5	4.3	6.8	4.5	7.2	4.7	7.4	4.9	7.7	5.1	7.9	5.2	8.1	5.4	8.6	5.7	9.0	6.0
	20.0	6.4	4.3	6.8	4.5	7.1	4.7	7.4	4.9	7.6	5.0	7.8	5.2	8.1	5.3	8.5	5.7	8.9	5.9
	21.0	6.4	4.2	6.7	4.5	7.1	4.7	7.3	4.9	7.6	5.0	7.8	5.2	8.0	5.3	8.5	5.6	8.9	5.9
	23.0	6.3	4.2	6.7	4.4	7.0	4.6	7.2	4.8	7.5	5.0	7.7	5.1	7.9	5.3	8.4	5.6	8.8	5.8
	25.0	6.3	4.2	6.6	4.4	6.9	4.6	7.2	4.7	7.4	4.9	7.6	5.1	7.9	5.2	8.3	5.5	8.7	5.8
	27.0	6.2	4.1	6.5	4.3	6.8	4.5	7.1	4.7	7.3	4.9	7.5	5.0	7.8	5.1	8.2	5.4	8.6	5.7
	29.0	6.1	4.0	6.4	4.3	6.7	4.5	7.0	4.6	7.2	4.8	7.4	4.9	7.7	5.1	8.1	5.4	8.5	5.6
	31.0	6.0	4.0	6.3	4.2	6.7	4.4	6.9	4.6	7.1	4.7	7.3	4.9	7.5	5.0	8.0	5.3	8.4	5.5
	33.0	5.9	3.9	6.2	4.1	6.5	4.3	6.8	4.5	7.0	4.6	7.2	4.8	7.4	4.9	7.9	5.2	8.2	5.4
	35.0	5.8	3.9	6.1	4.1	6.4	4.3	6.7	4.4	6.9	4.6	7.1	4.7	7.3	4.8	7.7	5.1	8.1	5.4
	37.0	5.7	3.8	6.0	4.0	6.3	4.2	6.5	4.3	6.8	4.5	7.0	4.6	7.2	4.7	7.6	5.0	7.9	5.3
	39.0	5.6	3.7	5.9	3.9	6.2	4.1	6.4	4.2	6.6	4.4	6.8	4.5	7.0	4.6	7.4	4.9	7.8	5.1

unit size	outdoor air temp. CDB	indoor air temp.																	
		14.0CWB 20.0CDB		15.0CWB 21.5CDB		16.0CWB 23.0CDB		17.0CWB 24.5CDB		18.0CWB 26.0CDB		19.0CWB 27.0CDB		20.0CWB 28.0CDB		22.0CWB 30.0CDB		24.0CWB 32.0CDB	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
1104	10.0	9.4	7.5	9.9	7.9	10.4	8.3	10.7	8.6	11.1	8.9	11.4	9.1	11.8	9.4	12.5	10.0	13.0	10.4
	12.0	9.3	7.5	9.8	7.9	10.3	8.2	10.7	8.5	11.0	8.8	11.4	9.1	11.7	9.3	12.4	9.9	12.9	10.4
	14.0	9.3	7.4	9.8	7.8	10.2	8.2	10.6	8.5	11.0	8.8	11.3	9.0	11.6	9.3	12.3	9.8	12.9	10.3
	16.0	9.2	7.4	9.7	7.8	10.2	8.1	10.5	8.4	10.9	8.7	11.2	9.0	11.5	9.2	12.2	9.8	12.8	10.2
	18.0	9.1	7.3	9.6	7.7	10.1	8.1	10.4	8.4	10.8	8.6	11.1	8.9	11.4	9.2	12.1	9.7	12.7	10.1
	20.0	9.1	7.2	9.5	7.6	10.0	8.0	10.4	8.3	10.7	8.6	11.0	8.8	11.3	9.1	12.0	9.6	12.6	10.1
	21.0	9.0	7.2	9.5	7.6	10.0	8.0	10.3	8.3	10.7	8.5	11.0	8.8	11.3	9.0	12.0	9.6	12.5	10.0
	23.0	8.9	7.1	9.4	7.5	9.9	7.9	10.2	8.2	10.6	8.4	10.9	8.7	11.2	8.9	11.8	9.5	12.4	9.9
	25.0	8.8	7.1	9.3	7.4	9.8	7.8	10.1	8.1	10.4	8.4	10.8	8.6	11.1	8.8	11.7	9.4	12.2	9.8
	27.0	8.7	7.0	9.2	7.3	9.6	7.7	10.0	8.0	10.3	8.3	10.6	8.5	10.9	8.7	11.6	9.3	12.1	9.7
	29.0	8.6	6.9	9.1	7.2	9.5	7.6	9.8	7.9	10.2	8.1	10.5	8.4	10.8	8.6	11.4	9.1	11.9	9.6
	31.0	8.5	6.8	8.9	7.1	9.4	7.5	9.7	7.8	10.0	8.0	10.3	8.3	10.6	8.5	11.3	9.0	11.8	9.4
	33.0	8.4	6.7	8.8	7.0	9.2	7.4	9.6	7.6	9.9	7.9	10.2	8.1	10.5	8.4	11.1	8.9	11.6	9.3
	35.0	8.2	6.6	8.6	6.9	9.1	7.3	9.4	7.5	9.7	7.8	10.0	8.0	10.3	8.2	10.9	8.7	11.4	9.1
	37.0	8.1	6.4	8.5	6.8	8.9	7.1	9.2	7.4	9.5	7.6	9.8	7.8	10.1	8.1	10.7	8.5	11.2	8.9
	39.0	7.9	6.3	8.3	6.6	8.7	7.0	9.0	7.2	9.3	7.5	9.6	7.7	9.9	7.9	10.5	8.4	10.9	8.8

unit size	outdoor air temp. CDB	indoor air temp.																	
		14.0CWB 20.0CDB		15.0CWB 21.5CDB		16.0CWB 23.0CDB		17.0CWB 24.5CDB		18.0CWB 26.0CDB		19.0CWB 27.0CDB		20.0CWB 28.0CDB		22.0CWB 30.0CDB		24.0CWB 32.0CDB	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
1404	10.0	11.7	9.4	12.3	9.9	13.0	10.4	13.4	10.7	13.9	11.1	14.3	11.4	14.7	11.8	15.6	12.5	16.3	13.0
	12.0	11.7	9.3	12.3	9.8	12.9	10.3	13.3	10.7	13.8	11.0	14.2	11.4	14.6	11.7	15.5	12.4	16.2	12.9
	14.0	11.6	9.3	12.2	9.8	12.8	10.2	13.3	10.6	13.7	11.0	14.1	11.3	14.5	11.6	15.4	12.3	16.1	12.9
	16.0	11.5	9.2	12.1	9.7	12.7	10.2	13.2	10.5	13.6	10.9	14.0	11.2	14.4	11.5	15.3	12.2	16.0	12.8
	18.0	11.4	9.1	12.0	9.6	12.6	10.1	13.1	10.4	13.5	10.8	13.9	11.1	14.3	11.4	15.1	12.1	15.8	12.7
	20.0	11.3	9.1	11.9	9.5	12.5	10.0	12.9	10.4	13.4	10.7	13.8	11.0	14.2	11.3	15.0	12.0	15.7	12.6
	21.0	11.3	9.0	11.9	9.5	12.4	10.0	12.9	10.3	13.3	10.7	13.7	11.0	14.1	11.3	15.0	12.0	15.6	12.5
	23.0	11.2	8.9	11.7	9.4	12.3	9.9	12.8	10.2	13.2	10.6	13.6	10.9	14.0	11.2	14.8	11.8	15.5	12.4
	25.0	11.0	8.8	11.6	9.3	12.2	9.8	12.6	10.1	13.1	10.4	13.4	10.8	13.8	11.1	14.6	11.7	15.3	12.2
	27.0	10.9	8.7	11.5	9.2	12.0	9.6	12.5	10.0	12.9	10.3	13.3	10.6	13.7	10.9	14.5	11.6	15.1	12.1
	29.0	10.8	8.6	11.3	9.1	11.9	9.5	12.3	9.8	12.7	10.2	13.1	10.5	13.5	10.8	14.3	11.4	14.9	11.9
	31.0	10.6	8.5	11.2	8.9	11.7	9.4	12.1	9.7	12.5	10.0	12.9	10.3	13.3	10.6	14.1	11.3	14.7	11.8
	33.0	10.4	8.4	11.0	8.8	11.5	9.2	11.9	9.6	12.3	9.9	12.7	10.2	13.1	10.5	13.8	11.1	14.5	11.6
	35.0	10.3	8.2	10.8	8.6	11.3	9.1	11.7	9.4	12.1	9.7	12.5	9.6	12.9	10.3	13.6	10.9	14.2	11.4
	37.0	10.1	8.1	10.6	8.5	11.1	8.9	11.5	9.2	11.9	9.5	12.3	9.8	12.6	10.1	13.4	10.7	14.0	11.2
39.0	9.9	7.9	10.4	8.3	10.9	8.7	11.3	9.0	11.7	9.3	12.0	9.6	12.4	9.9	13.1	10.5	13.7	10.9	

2-1-5. Part load performance

Combination

Indoor unit : RAV-SM564UT-E

Outdoor unit : RAV-SP564AT-E, RAV-SP564ATP-E

	Cooling		Heating	
	Capacity Q (W)	Power consumption W (W)	Capacity Q (W)	Power consumption W (W)
MINIMUM	1200	200	900	150
RATING	5300	1470	5600	1200

Q: Capacity in W

W: Power Consumption in W

Cooling

Outdoor temperature (°C)		Load (%)									
		100	90	80	70	60	50	40	30	20	10
40	Q	5010	4510	4010	3510	3010	2510	2010	1500	1140	1140
	W	1580	1310	1070	860	670	510	380	270	210	210
35	Q	5300	4770	4240	3710	3180	2650	2120	1590	1200	1200
	W	1470	1222	997	799	625	477	354	256	200	200
30	Q	5590	5030	4470	3910	3350	2790	2230	1680	1270	1270
	W	1360	1130	930	740	580	440	330	240	190	190
25	Q	5870	5290	4700	4110	3520	2940	2350	1760	1330	1330
	W	1260	1050	850	680	540	410	300	220	170	170
20	Q	6160	5550	4930	4310	3700	3080	2460	1850	1400	1400
	W	1150	960	780	630	490	370	280	200	160	160

Heating

Outdoor temperature (°C)		Load (%)									
		100	90	80	70	60	50	40	30	20	10
15	Q	6750	6080	5400	4730	4050	3380	2700	2030	1350	1090
	W	1330	1150	960	800	650	520	400	290	200	170
10	Q	6130	5520	4910	4290	3680	3070	2450	1840	1230	990
	W	1260	1090	910	760	620	490	380	270	190	160
7	Q	5600	5040	4480	3920	3360	2800	2240	1680	1120	900
	W	1210	1040	870	730	590	470	360	260	180	150
5	Q	5220	4700	4180	3660	3130	2610	2090	1570	1040	840
	W	1170	1010	840	710	570	460	350	250	170	150
2	Q	4680	4210	3750	3280	2810	2340	1870	1400	940	750
	W	1120	960	800	670	540	430	330	240	170	140
0	Q	3660	3290	2930	2560	2190	1830	1460	1100	730	590
	W	990	850	710	600	480	380	290	210	150	120
-5	Q	3660	3290	2930	2560	2190	1830	1460	1100	730	590
	W	990	850	710	600	480	380	290	210	150	120
-7	Q	3440	3090	2750	2410	2060	1720	1380	1030	690	550
	W	960	830	690	580	470	370	290	210	140	120
-10	Q	3150	2830	2520	2200	1890	1570	1260	940	630	510
	W	920	790	660	560	450	360	270	200	140	110
-15	Q	2650	2390	2120	1860	1590	1330	1060	800	530	430
	W	870	750	620	520	420	340	260	190	130	110

Combination

Indoor unit : RAV-SM804UT-E

Outdoor unit : RAV-SP804AT-E, RAV-SP804ATP-E

	Cooling		Heating	
	Capacity Q (W)	Power consumption W (W)	Capacity Q (W)	Power consumption W (W)
MINIMUM	1900	300	1300	250
RATING	7100	1860	8000	1910

Q: Capacity in W
W: Power Consumption in W

Cooling

Outdoor temperature (°C)		Load (%)									
		100	90	80	70	60	50	40	30	20	10
40	Q	6720	6040	5370	4700	4030	3360	2690	2010	1800	1800
	W	1990	1670	1380	1120	890	680	510	360	320	320
35	Q	7100	6390	5680	4970	4260	3550	2840	2130	1900	1900
	W	1860	1561	1290	1045	828	638	474	338	300	300
30	Q	7480	6740	5990	5240	4490	3740	2990	2250	2000	2000
	W	1730	1450	1200	970	770	590	440	310	280	280
25	Q	7870	7080	6300	5510	4720	3930	3150	2360	2110	2110
	W	1590	1340	1110	900	710	550	410	290	260	260
20	Q	8250	7430	6600	5780	4950	4130	3300	2480	2210	2210
	W	1460	1230	1010	820	650	500	370	270	240	240

Heating

Outdoor temperature (°C)		Load (%)									
		100	90	80	70	60	50	40	30	20	10
15	Q	9650	8680	7720	6750	5790	4820	3860	2890	1930	1570
	W	2110	1800	1500	1250	1000	790	610	450	320	280
10	Q	8760	7880	7010	6130	5260	4380	3500	2630	1750	1420
	W	2000	1700	1420	1180	950	750	570	430	300	260
7	Q	8000	7200	6400	5600	4800	4000	3200	2400	1600	1300
	W	1910	1630	1360	1130	910	720	550	410	290	250
5	Q	7460	6720	5970	5220	4480	3730	2990	2240	1490	1210
	W	1850	1580	1320	1090	880	700	530	400	280	240
2	Q	6690	6020	5350	4680	4010	3340	2680	2010	1340	1090
	W	1760	1500	1250	1040	840	660	510	380	270	230
0	Q	5220	4700	4180	3660	3130	2610	2090	1570	1040	850
	W	1560	1330	1110	930	750	590	450	340	240	200
-5	Q	5220	4700	4180	3660	3130	2610	2090	1570	1040	850
	W	1560	1330	1110	930	750	590	450	340	240	200
-7	Q	4910	4420	3930	3440	2950	2460	1960	1470	980	800
	W	1520	1290	1080	900	720	570	440	330	230	200
-10	Q	4500	4050	3600	3150	2700	2250	1800	1350	900	730
	W	1450	1240	1030	860	690	550	420	310	220	190
-15	Q	3790	3410	3030	2650	2280	1900	1520	1140	760	620
	W	1370	1170	980	810	650	520	390	290	210	180

Combination

Indoor unit : RAV-SM1104UT-E

Outdoor unit : RAV-SP1104AT-E

	Cooling		Heating	
	Capacity Q (W)	Power consumption W (W)	Capacity Q (W)	Power consumption W (W)
MINIMUM	2600	640	2400	520
RATING	10000	2210	11200	2340

Q: Capacity in W
W: Power Consumption in W

Cooling

Outdoor temperature (°C)		Load (%)									
		100	90	80	70	60	50	40	30	20	10
40	Q	9510	8560	7610	6660	5710	4760	3800	2850	2470	2470
	W	2370	1970	1620	1320	1060	830	630	440	690	690
35	Q	10000	9000	8000	7000	6000	5000	4000	3000	2600	2600
	W	2210	1832	1507	1229	986	771	583	413	640	640
30	Q	10410	9370	8330	7290	6250	5210	4160	3120	2710	2710
	W	2040	1690	1390	1140	910	710	540	380	590	590
25	Q	10750	9680	8600	7530	6450	5380	4300	3230	2800	2800
	W	1890	1570	1290	1050	840	660	500	350	550	550
20	Q	11030	9930	8820	7720	6620	5520	4410	3310	2870	2870
	W	1760	1460	1200	980	780	610	460	330	510	510

Heating

Outdoor temperature (°C)		Load (%)									
		100	90	80	70	60	50	40	30	20	10
15	Q	13510	12160	10810	9450	8100	6750	5400	4050	2890	2890
	W	2580	2260	1970	1690	1410	1150	900	660	570	570
10	Q	12260	11040	9810	8580	7360	6130	4910	3680	2630	2630
	W	2450	2140	1870	1600	1340	1090	860	630	540	540
7	Q	11200	10080	8960	7840	6720	5600	4480	3360	2400	2400
	W	2340	2050	1790	1530	1280	1040	820	600	520	520
5	Q	10450	9400	8360	7310	6270	5220	4180	3130	2240	2240
	W	2270	1990	1730	1480	1240	1010	790	580	500	500
2	Q	9360	8430	7490	6550	5620	4680	3750	2810	2010	2010
	W	2160	1890	1650	1410	1180	960	760	550	480	480
0	Q	7310	6580	5850	5120	4390	3660	2930	2190	1570	1570
	W	1920	1680	1470	1250	1050	850	670	490	430	430
-5	Q	7310	6580	5850	5120	4390	3660	2930	2190	1570	1570
	W	1920	1680	1470	1250	1050	850	670	490	430	430
-7	Q	6880	6190	5500	4810	4130	3440	2750	2060	1470	1470
	W	1860	1630	1420	1210	1020	830	650	480	410	410
-10	Q	6300	5670	5040	4410	3780	3150	2520	1890	1350	1350
	W	1780	1560	1360	1160	970	790	620	460	400	400
-15	Q	5310	4780	4250	3720	3190	2650	2120	1590	1140	1140
	W	1680	1470	1280	1100	920	750	590	430	370	370

Combination

Indoor unit : RAV-SM1404UT-E

Outdoor unit : RAV-SP1404AT-E

	Cooling		Heating	
	Capacity Q (W)	Power consumption W (W)	Capacity Q (W)	Power consumption W (W)
MINIMUM	2600	640	2400	520
RATING	12500	3160	14000	3210

Q: Capacity in W
W: Power Consumption in W

Cooling

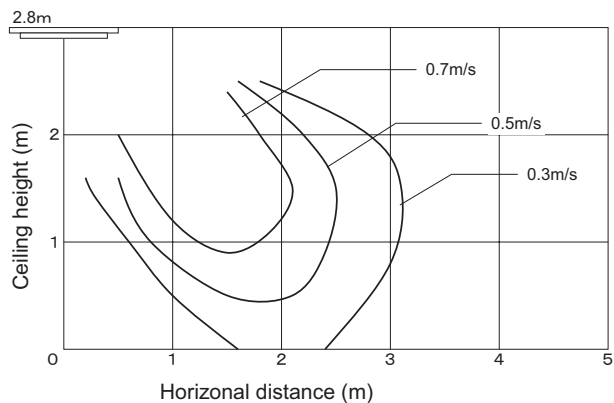
Outdoor temperature (°C)		Load (%)									
		100	90	80	70	60	50	40	30	20	10
40	Q	11890	10700	9510	8320	7130	5940	4760	3570	2470	2470
	W	3390	2810	2310	1890	1510	1180	900	630	690	690
35	Q	12500	11250	10000	8750	7500	6250	5000	3750	2600	2600
	W	3160	2620	2155	1757	1409	1103	834	591	640	640
30	Q	13010	11710	10410	9110	7810	6510	5210	3900	2710	2710
	W	2920	2420	1990	1620	1300	1020	770	550	590	590
25	Q	13440	12090	10750	9410	8060	6720	5380	4030	2800	2800
	W	2710	2250	1850	1510	1210	950	710	510	550	550
20	Q	13790	12410	11030	9650	8270	6890	5520	4140	2870	2870
	W	2510	2080	1710	1400	1120	880	660	470	510	510

Heating

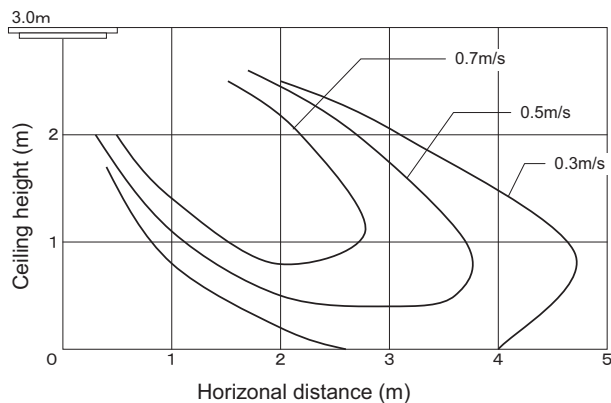
Outdoor temperature (°C)		Load (%)									
		100	90	80	70	60	50	40	30	20	10
15	Q	16880	15190	13510	11820	10130	8440	6750	5060	3380	2890
	W	3540	3110	2700	2300	1930	1580	1240	900	600	570
10	Q	15330	13800	12260	10730	9200	7670	6130	4600	3070	2630
	W	3350	2950	2560	2180	1830	1490	1170	860	560	540
7	Q	14000	12600	11200	9800	8400	7000	5600	4200	2800	2400
	W	3210	2820	2450	2090	1750	1430	1120	820	540	520
5	Q	13060	11760	10450	9140	7840	6530	5220	3920	2610	2240
	W	3110	2730	2370	2030	1700	1390	1090	790	520	500
2	Q	11700	10530	9360	8190	7020	5850	4680	3510	2340	2010
	W	2960	2600	2260	1930	1610	1320	1030	760	500	480
0	Q	9140	8230	7310	6400	5490	4570	3660	2740	1830	1570
	W	2630	2310	2010	1710	1430	1170	920	670	440	430
-5	Q	9140	8230	7310	6400	5490	4570	3660	2740	1830	1570
	W	2630	2310	2010	1710	1430	1170	920	670	440	430
-7	Q	8600	7740	6880	6020	5160	4300	3440	2580	1720	1470
	W	2550	2240	1950	1660	1390	1140	890	650	430	410
-10	Q	7870	7090	6300	5510	4720	3940	3150	2360	1570	1350
	W	2440	2150	1860	1590	1330	1090	850	620	410	400
-15	Q	6640	5970	5310	4650	3980	3320	2650	1990	1330	1140
	W	2300	2020	1760	1500	1260	1030	800	590	390	370

2-1-6. Air throw distance chart

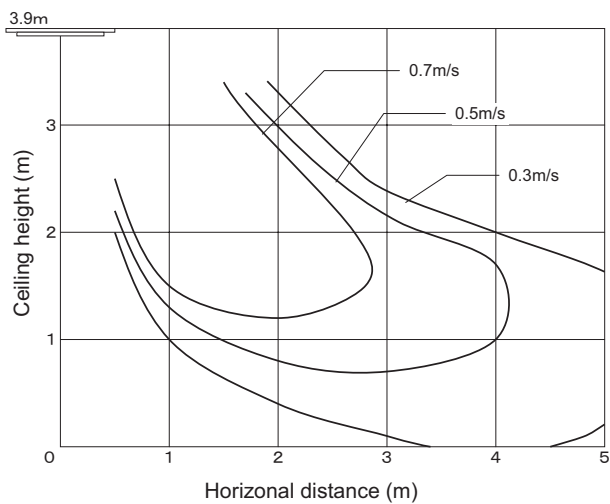
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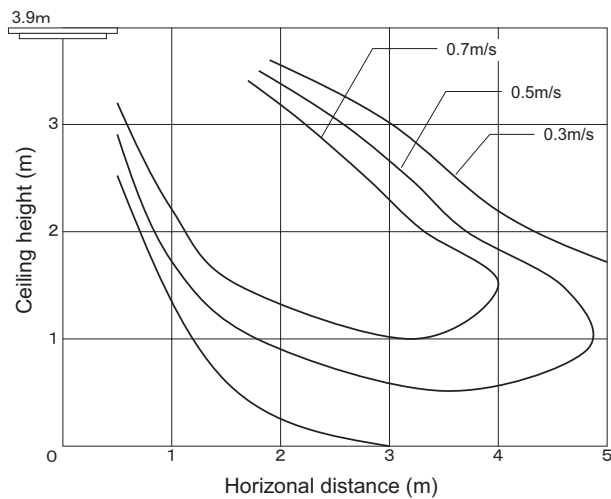
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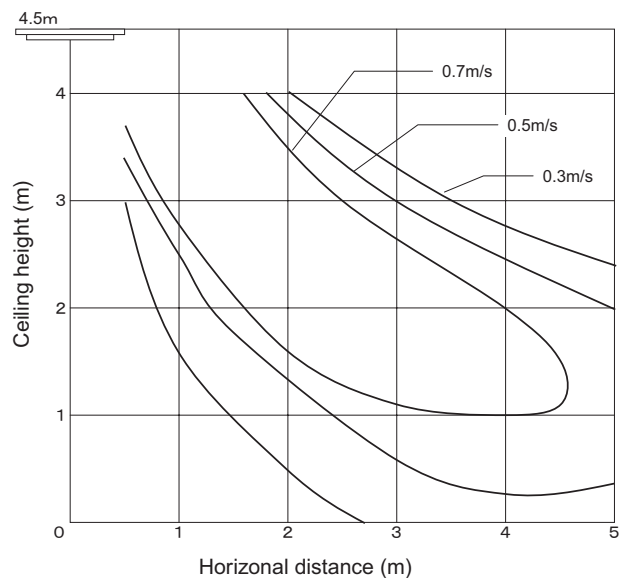
RAV-SM1104UT-E



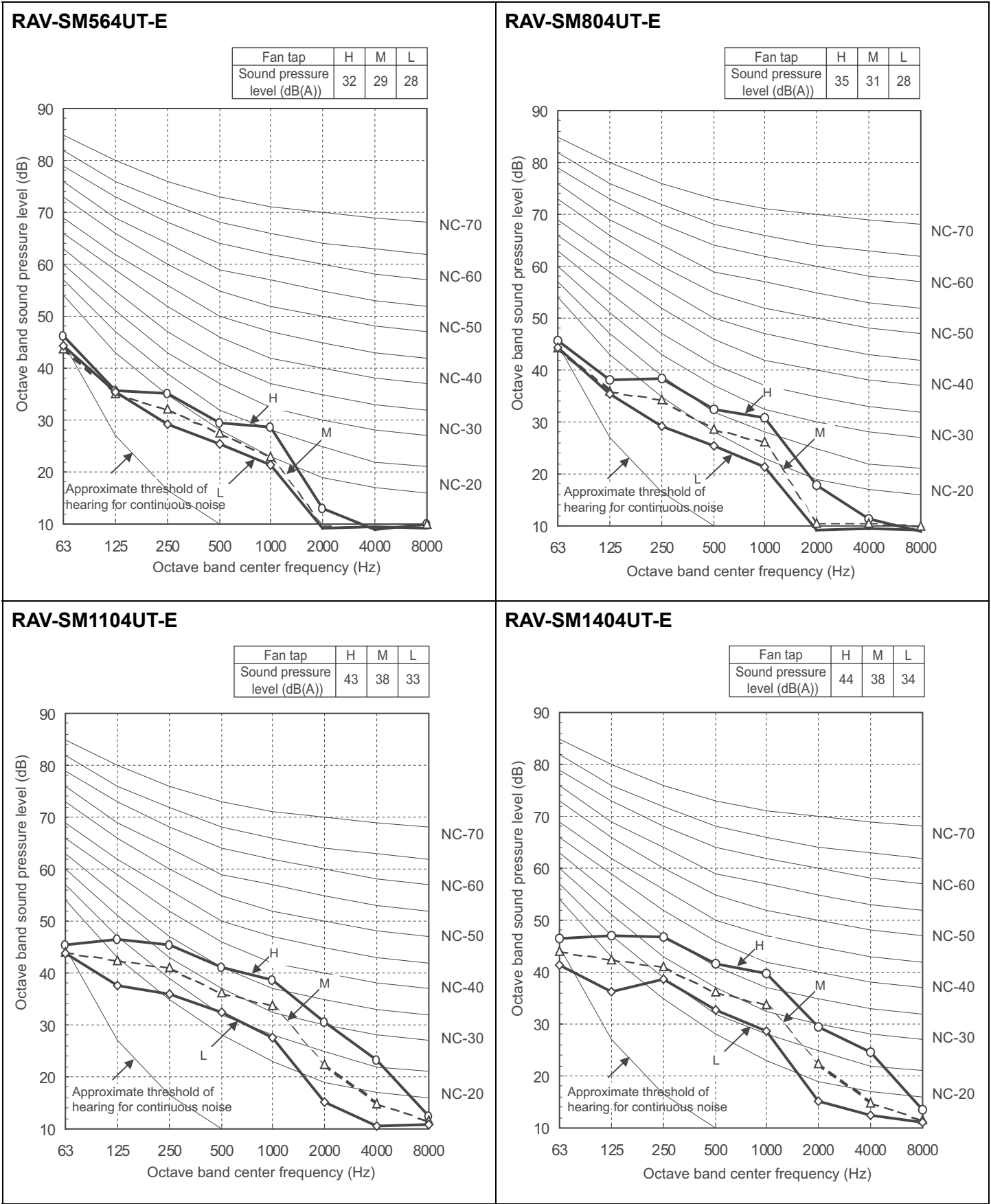
RAV-SM1404UT-E



RAV-SM1104UT-E, RAV-SM1404UT-E (High ceiling)



2-1-7. Sound characteristics (NC curve)



2-2. 4-way Cassette Type (P)

2-2-1. Specifications

2-2-2. Dimension

2-2-3. Wiring diagrams

2-2-4. Sensible capacity table

2-2-5. Part load performance

2-2-6. Air throw distance chart

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

2-2-1. Specifications

<Single type>

Model	Indoor unit		RAV-SM	564UTP-E	804UTP-E	1104UTP-E	1404UTP-E
	Outdoor unit		RAV-SP	564AT(J)P-E	804AT(J)P-E	1104AT(Z)(ZG)-E	1404AT(Z)(ZG)-E
Cooling capacity			(kW)	5.3 (1.2 – 5.6)	7.1 (1.9 – 8.0)	10.0 (2.6 – 12.0)	12.5 (2.6 – 14.0)
Heating capacity			(kW)	5.6 (0.9 – 8.1)	8.0 (1.3 – 11.3)	11.2 (2.4 – 13.0)	14.0 (2.4 – 16.5)
Power supply				1 phase 230V (220 – 240V) 50Hz			
Electrical characteristics	Cooling	Running current	(A)	6.82 – 6.25	8.72 – 7.99	10.36 – 9.49	14.66 – 13.44
		Power consumption	(kW)	1.47	1.86	2.21	3.16
		Power factor	(%)	98	97	97	98
		EER		3.61	3.82	4.52	3.96
		Energy efficiency class *		A	A	A	A
	Heating	Running current	(A)	5.61 – 5.14	8.95 – 8.20	10.96 – 10.05	14.89 – 13.65
		Power consumption	(kW)	1.21	1.91	2.34	3.21
		Power factor	(%)	98	97	97	98
		COP		4.63	4.19	4.79	4.36
		Energy efficiency class *		A	A	A	A
	Maximum current		(A)	13.30	20.30	20.50	20.50
Appearance	Main unit			Zinc hot dipping steel plate			
	Ceiling panel (Sold separately)	Model		RBC-U31PG (W, WS)-E, RBC-U31PGS (W, WS)-E			
		Panel color		W: Moon-white (2.5GY 9.0/0.5), WS: Stripe-white (2.5GY 9.0/0.5, (Gray: 8B 3/0.3))			
Outer dimension	Main unit	Height	(mm)	256	256	319	319
		Width	(mm)	840	840	840	840
		Depth	(mm)	840	840	840	840
	Ceiling panel (Sold separately)	Height	(mm)	30	30	30	30
		Width	(mm)	950	950	950	950
		Depth	(mm)	950	950	950	950
Total weight	Main unit		(kg)	20	20	24	24
	Ceiling panel (Sold separately)		(kg)	4.2	4.2	4.2	4.2
Heat exchanger				Finned tube			
Fan unit	Fan			Turbo fan			
	Standard air flow	H/M/L	(m³/min.)	17.5/14.5/13.0	20.5/16.0/13.5	33.5/24.0/19.5	35.0/24.0/20.5
	Motor		(W)	14	20	68	72
Air filter				Standard filter attached (Long life filter)			
Controller (Sold separately)				RBC-AMT32E, AMS41E, AS21E2, AX31U (W, WS)-E, TCB-AX21E2			
Sound pressure level		H/M/L	(dB•A)	32/29/28	35/31/28	43/38/33	44/38/34
Sound power level		H/M/L	(dB•A)	47/44/43	50/46/43	58/53/48	59/53/49
Connecting pipe		Gas side	(mm)	12.7	15.9	15.9	15.9
		Liquid side	(mm)	6.4	9.5	9.5	9.5
		Drain port	(mm)	VP25			

* : IEC standard

*1 : The cooling capacities and electrical characteristics are measured under the conditions specified by JIS B 8615 based on the reference piping. The reference piping consists of 5 m of main piping and 2.5 m of branch piping connected with 0 meter height.

*2 : The sound level are measured in an anechoic chamber in accordance with JIS B 8616. Normally, the values measured in the actual operating environment become larger than the indicated values due to the effects of external sound.

Note :

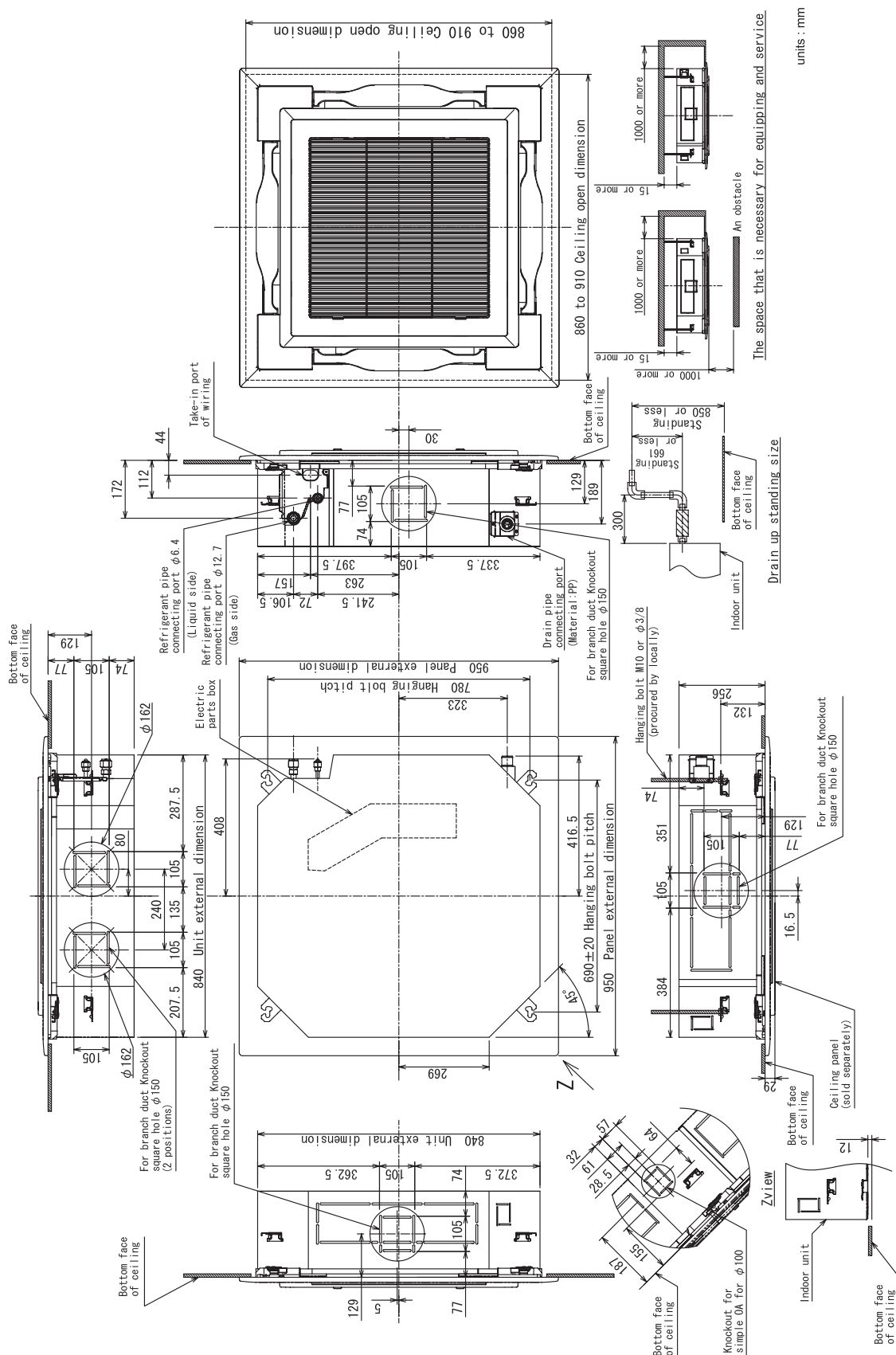
Rated conditions Cooling : Indoor air temperature 27°C DB/19°C WB, Outdoor air temperature 35°C DB
 Heating : Indoor air temperature 20°C DB, Outdoor air temperature 7°C DB/6°C WB

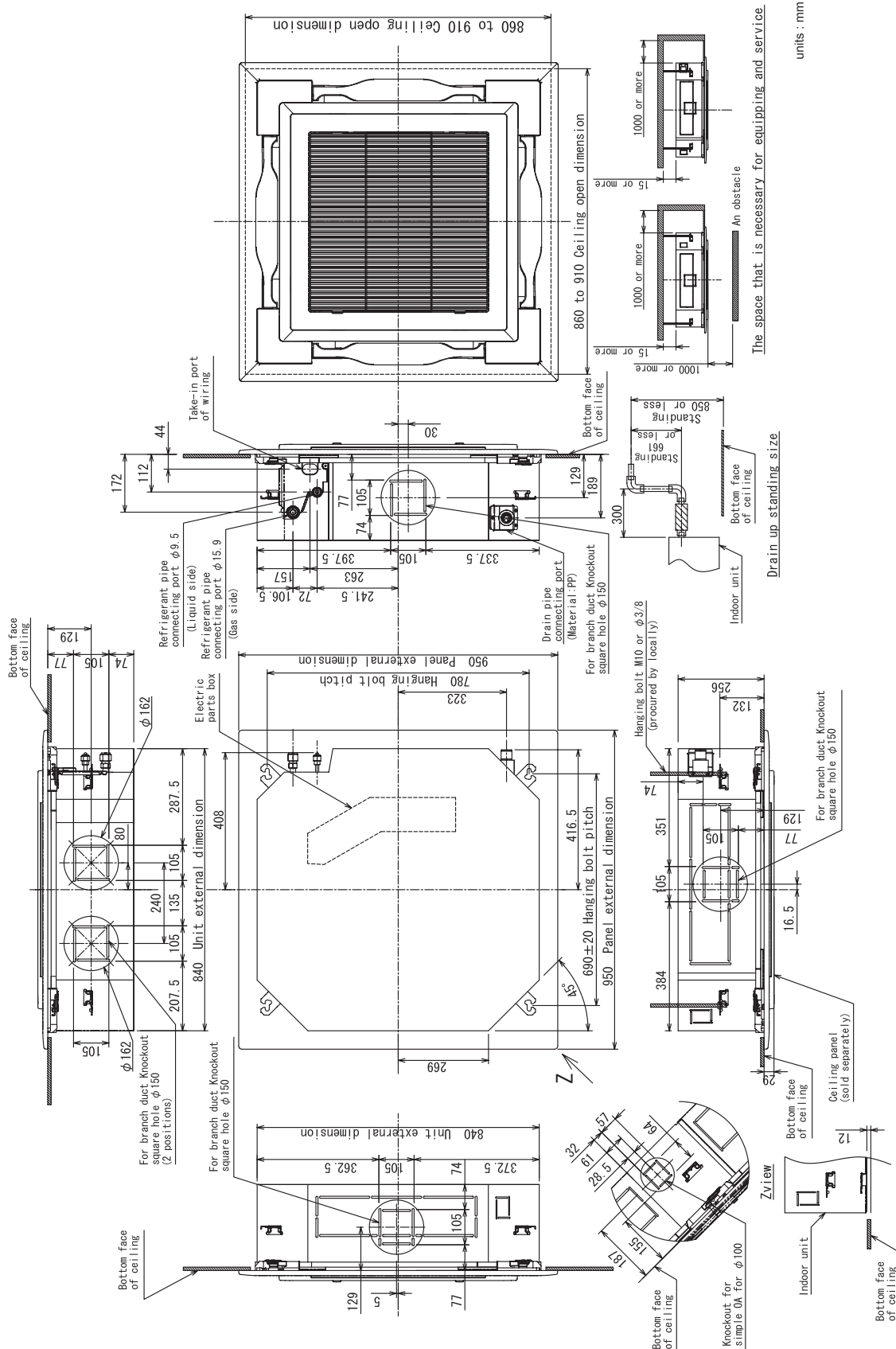
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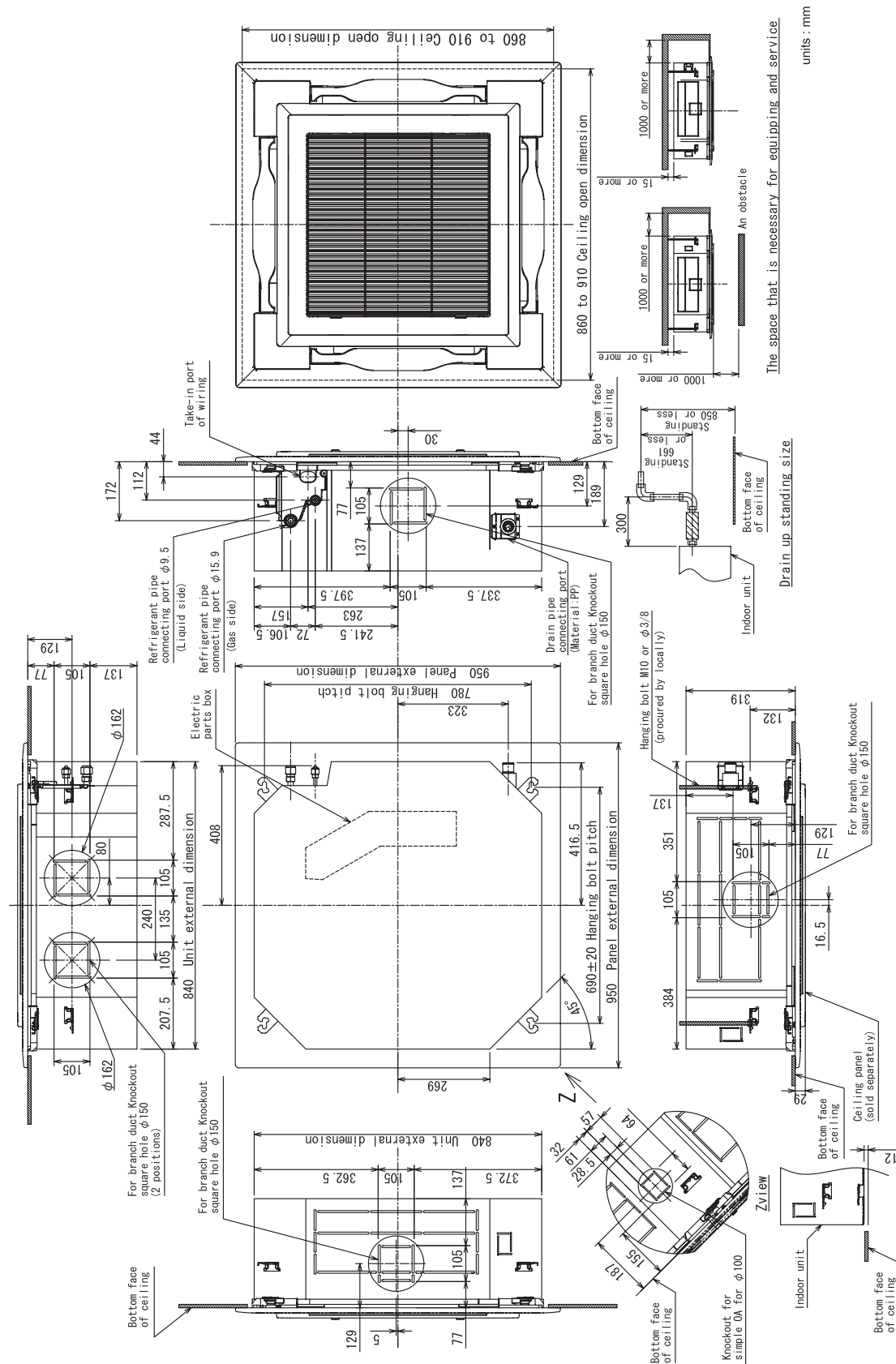
Model	Indoor unit 1		RAV-SM	564UTP-E	804UTP-E
	Indoor unit 2		RAV-SM	564UTP-E	804UTP-E
	Outdoor unit		RAV-SP	1104AT(Z)(ZG)-E	1404AT(Z)(ZG)-E
Cooling capacity			(kW)	10.0 (2.6 – 12.0)	12.5 (2.6 – 14.0)
Heating capacity			(kW)	11.2 (2.4 – 13.0)	14.0 (2.4 – 16.5)
Indoor unit					
Power supply			1 phase 230V (220 – 240V) 50Hz		
Electrical characteristics	Cooling	Running current (A)		10.36 – 9.49	14.66 – 13.44
		Power consumption (kW)		2.21	3.16
		Power factor (%)		97	98
		EER		4.52	3.96
		Energy efficiency class *		A	A
	Heating	Running current (A)		10.96 – 10.05	14.89 – 13.65
		Power consumption (kW)		2.34	3.21
		Power factor (%)		97	98
		COP		4.79	4.36
		Energy efficiency class *		A	A
Fan unit	Fan		Turbo fan		
	Standard air flow	H/M/L (m³/min.)	17.5/14.5/13.0		20.5/16.0/13.5
	Motor (W)		14		20
Sound pressure level		H/M/L (dB•A)	32/29/28		35/31/28
Sound power level		H/M/L (dB•A)	47/44/43		50/46/43
Outdoor unit					
Power supply			1 phase 230V (220 – 240V) 50Hz		
Refrigerant pipe	Standard length (m)		7.5		7.5
	Min. length (m)		3		3
	Max. total length (m)		50		50
	Refrigerant charging amount (Charge-less up to 30m)		40g/m (31m to 50m)		
	Height difference	Outdoor lower (m)	30		30
		Outdoor higher (m)	30		30
Fan unit	Fan		Propeller fan		
	Standard air flow (m³/min.)		101		103
	Motor (W)		100 + 100		100 + 100
Connecting pipe	Gas side	Main (mm)	15.9		15.9
		Sub (mm)	12.7		15.9
	Liquid side	Main (mm)	9.5		9.5
		Sub (mm)	6.4		9.5
Sound pressure level		Cooling/Heating (dB•A)	49/50		51/52
Sound power level		Cooling/Heating (dB•A)	66/67		68/69

*: IEC standard

2-2-2. Dimension

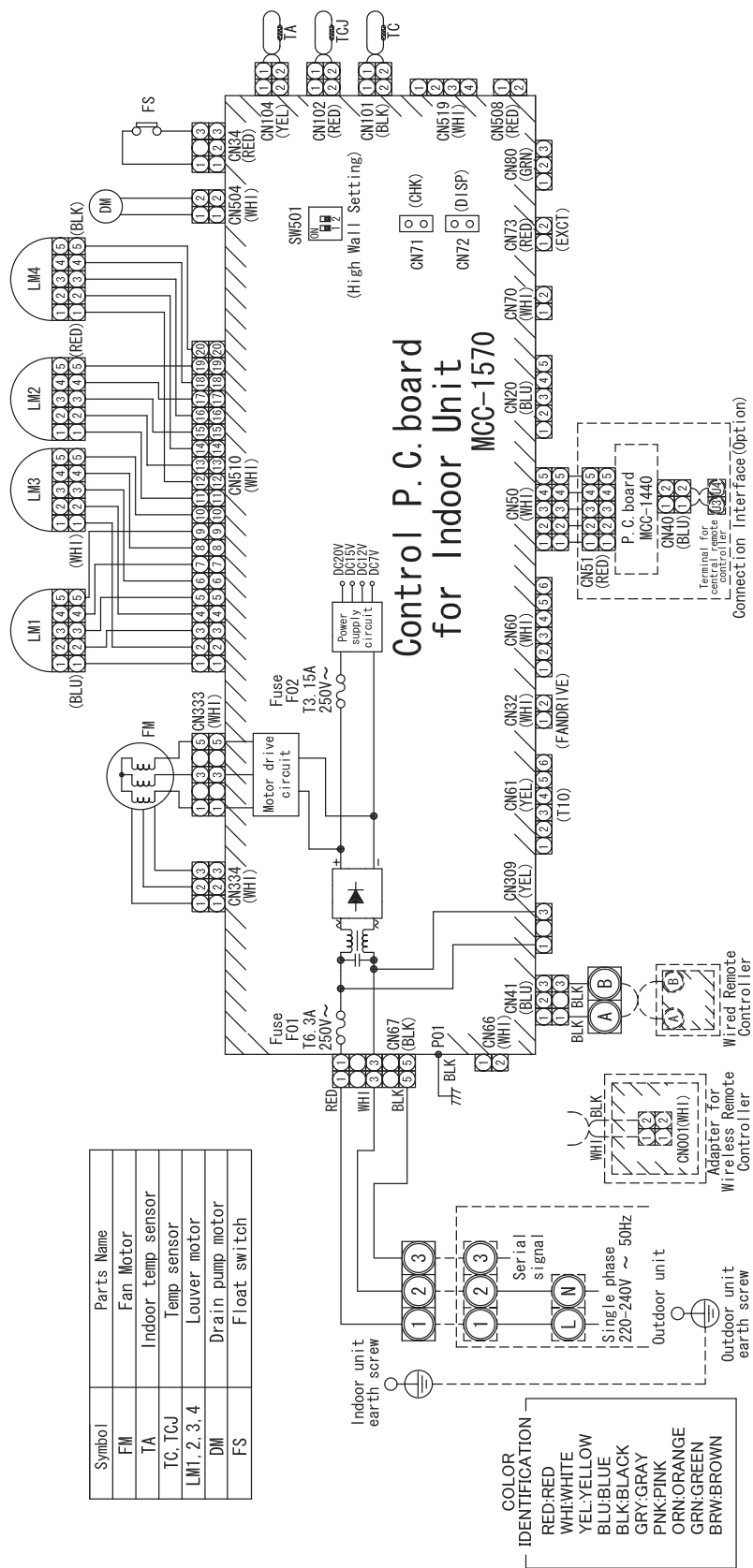
RAV-SM564UTP-E

RAV-SM804UTP-E

RAV-SM1104UTP-E/RAV-SM1404UTP-E

2-2-3. Wiring diagrams

RAV-SM564UTP-E/RAV-SM804UTP-E/RAV-SM1104UTP-E/RAV-SM1404UTP-E



2-2-4. Sensible capacity table

Super Digital Inverter 4 Series Sensible Heat Capacity : RAV-SM***UTP-E

unit size	outdoor air temp. CDB	indoor air temp.																	
		14.0CWB 20.0CDB		15.0CWB 21.5CDB		16.0CWB 23.0CDB		17.0CWB 24.5CDB		18.0CWB 26.0CDB		19.0CWB 27.0CDB		20.0CWB 28.0CDB		22.0CWB 30.0CDB		24.0CWB 32.0CDB	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
564	10.0	5.0	3.5	5.2	3.7	5.5	3.9	5.7	4.0	5.9	4.1	6.1	4.3	6.2	4.4	6.6	4.6	6.9	4.8
	12.0	4.9	3.5	5.2	3.7	5.5	3.8	5.7	4.0	5.8	4.1	6.0	4.2	6.2	4.4	6.6	4.6	6.9	4.8
	14.0	4.9	3.5	5.2	3.6	5.4	3.8	5.6	3.9	5.8	4.1	6.0	4.2	6.2	4.3	6.5	4.6	6.8	4.8
	16.0	4.9	3.4	5.1	3.6	5.4	3.8	5.6	3.9	5.8	4.1	5.9	4.2	6.1	4.3	6.5	4.5	6.8	4.8
	18.0	4.8	3.4	5.1	3.6	5.3	3.8	5.5	3.9	5.7	4.0	5.9	4.1	6.1	4.3	6.4	4.5	6.7	4.7
	20.0	4.8	3.4	5.1	3.5	5.3	3.7	5.5	3.9	5.7	4.0	5.8	4.1	6.0	4.2	6.4	4.5	6.7	4.7
	21.0	4.8	3.4	5.0	3.5	5.3	3.7	5.5	3.8	5.7	4.0	5.8	4.1	6.0	4.2	6.3	4.5	6.6	4.7
	23.0	4.7	3.3	5.0	3.5	5.2	3.7	5.4	3.8	5.6	3.9	5.8	4.0	5.9	4.2	6.3	4.4	6.6	4.6
	25.0	4.7	3.3	4.9	3.5	5.2	3.6	5.4	3.8	5.5	3.9	5.7	4.0	5.9	4.1	6.2	4.4	6.5	4.6
	27.0	4.6	3.2	4.9	3.4	5.1	3.6	5.3	3.7	5.5	3.8	5.6	4.0	5.8	4.1	6.1	4.3	6.4	4.5
	29.0	4.6	3.2	4.8	3.4	5.0	3.5	5.2	3.7	5.4	3.8	5.6	3.9	5.7	4.0	6.1	4.3	6.3	4.4
	31.0	4.5	3.2	4.7	3.3	5.0	3.5	5.1	3.6	5.3	3.7	5.5	3.8	5.6	4.0	6.0	4.2	6.2	4.4
	33.0	4.4	3.1	4.7	3.3	4.9	3.4	5.1	3.6	5.2	3.7	5.4	3.8	5.5	3.9	5.9	4.1	6.1	4.3
	35.0	4.4	3.1	4.6	3.2	4.8	3.4	5.0	3.5	5.1	3.6	5.3	3.7	5.5	3.8	5.8	4.1	6.0	4.2
	37.0	4.3	3.0	4.5	3.2	4.7	3.3	4.9	3.4	5.1	3.5	5.2	3.7	5.3	3.8	5.7	4.0	5.9	4.2
	39.0	4.2	2.9	4.4	3.1	4.6	3.2	4.8	3.4	4.9	3.5	5.1	3.6	5.2	3.7	5.5	3.9	5.8	4.1

unit size	outdoor air temp. CDB	indoor air temp.																	
		14.0CWB 20.0CDB		15.0CWB 21.5CDB		16.0CWB 23.0CDB		17.0CWB 24.5CDB		18.0CWB 26.0CDB		19.0CWB 27.0CDB		20.0CWB 28.0CDB		22.0CWB 30.0CDB		24.0CWB 32.0CDB	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
804	10.0	6.7	4.4	7.0	4.6	7.4	4.9	7.6	5.0	7.9	5.2	8.1	5.4	8.3	5.5	8.8	5.9	9.2	6.1
	12.0	6.6	4.4	7.0	4.6	7.3	4.8	7.6	5.0	7.8	5.2	8.1	5.3	8.3	5.5	8.8	5.8	9.2	6.1
	14.0	6.6	4.4	6.9	4.6	7.3	4.8	7.5	5.0	7.8	5.2	8.0	5.3	8.2	5.5	8.7	5.8	9.1	6.0
	16.0	6.5	4.3	6.9	4.6	7.2	4.8	7.5	5.0	7.7	5.1	8.0	5.3	8.2	5.4	8.7	5.7	9.1	6.0
	18.0	6.5	4.3	6.8	4.5	7.2	4.7	7.4	4.9	7.7	5.1	7.9	5.2	8.1	5.4	8.6	5.7	9.0	6.0
	20.0	6.4	4.3	6.8	4.5	7.1	4.7	7.4	4.9	7.6	5.0	7.8	5.2	8.1	5.3	8.5	5.7	8.9	5.9
	21.0	6.4	4.2	6.7	4.5	7.1	4.7	7.3	4.9	7.6	5.0	7.8	5.2	8.0	5.3	8.5	5.6	8.9	5.9
	23.0	6.3	4.2	6.7	4.4	7.0	4.6	7.2	4.8	7.5	5.0	7.7	5.1	7.9	5.3	8.4	5.6	8.8	5.8
	25.0	6.3	4.2	6.6	4.4	6.9	4.6	7.2	4.7	7.4	4.9	7.6	5.1	7.9	5.2	8.3	5.5	8.7	5.8
	27.0	6.2	4.1	6.5	4.3	6.8	4.5	7.1	4.7	7.3	4.9	7.5	5.0	7.8	5.1	8.2	5.4	8.6	5.7
	29.0	6.1	4.0	6.4	4.3	6.7	4.5	7.0	4.6	7.2	4.8	7.4	4.9	7.7	5.1	8.1	5.4	8.5	5.6
	31.0	6.0	4.0	6.3	4.2	6.7	4.4	6.9	4.6	7.1	4.7	7.3	4.9	7.5	5.0	8.0	5.3	8.4	5.5
	33.0	5.9	3.9	6.2	4.1	6.5	4.3	6.8	4.5	7.0	4.6	7.2	4.8	7.4	4.9	7.9	5.2	8.2	5.4
	35.0	5.8	3.9	6.1	4.1	6.4	4.3	6.7	4.4	6.9	4.6	7.1	4.7	7.3	4.8	7.7	5.1	8.1	5.4
	37.0	5.7	3.8	6.0	4.0	6.3	4.2	6.5	4.3	6.8	4.5	7.0	4.6	7.2	4.7	7.6	5.0	7.9	5.3
	39.0	5.6	3.7	5.9	3.9	6.2	4.1	6.4	4.2	6.6	4.4	6.8	4.5	7.0	4.6	7.4	4.9	7.8	5.1

unit size	outdoor air temp. CDB	indoor air temp.																	
		14.0CWB 20.0CDB		15.0CWB 21.5CDB		16.0CWB 23.0CDB		17.0CWB 24.5CDB		18.0CWB 26.0CDB		19.0CWB 27.0CDB		20.0CWB 28.0CDB		22.0CWB 30.0CDB		24.0CWB 32.0CDB	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
1104	10.0	9.4	7.5	9.9	7.9	10.4	8.3	10.7	8.6	11.1	8.9	11.4	9.1	11.8	9.4	12.5	10.0	13.0	10.4
	12.0	9.3	7.5	9.8	7.9	10.3	8.2	10.7	8.5	11.0	8.8	11.4	9.1	11.7	9.3	12.4	9.9	12.9	10.4
	14.0	9.3	7.4	9.8	7.8	10.2	8.2	10.6	8.5	11.0	8.8	11.3	9.0	11.6	9.3	12.3	9.8	12.9	10.3
	16.0	9.2	7.4	9.7	7.8	10.2	8.1	10.5	8.4	10.9	8.7	11.2	9.0	11.5	9.2	12.2	9.8	12.8	10.2
	18.0	9.1	7.3	9.6	7.7	10.1	8.1	10.4	8.4	10.8	8.6	11.1	8.9	11.4	9.2	12.1	9.7	12.7	10.1
	20.0	9.1	7.2	9.5	7.6	10.0	8.0	10.4	8.3	10.7	8.6	11.0	8.8	11.3	9.1	12.0	9.6	12.6	10.1
	21.0	9.0	7.2	9.5	7.6	10.0	8.0	10.3	8.3	10.7	8.5	11.0	8.8	11.3	9.0	12.0	9.6	12.5	10.0
	23.0	8.9	7.1	9.4	7.5	9.9	7.9	10.2	8.2	10.6	8.4	10.9	8.7	11.2	8.9	11.8	9.5	12.4	9.9
	25.0	8.8	7.1	9.3	7.4	9.8	7.8	10.1	8.1	10.4	8.4	10.8	8.6	11.1	8.8	11.7	9.4	12.2	9.8
	27.0	8.7	7.0	9.2	7.3	9.6	7.7	10.0	8.0	10.3	8.3	10.6	8.5	10.9	8.7	11.6	9.3	12.1	9.7
	29.0	8.6	6.9	9.1	7.2	9.5	7.6	9.8	7.9	10.2	8.1	10.5	8.4	10.8	8.6	11.4	9.1	11.9	9.6
	31.0	8.5	6.8	8.9	7.1	9.4	7.5	9.7	7.8	10.0	8.0	10.3	8.3	10.6	8.5	11.3	9.0	11.8	9.4
	33.0	8.4	6.7	8.8	7.0	9.2	7.4	9.6	7.6	9.9	7.9	10.2	8.1	10.5	8.4	11.1	8.9	11.6	9.3
	35.0	8.2	6.6	8.6	6.9	9.1	7.3	9.4	7.5	9.7	7.8	10.0	8.0	10.3	8.2	10.9	8.7	11.4	9.1
	37.0	8.1	6.4	8.5	6.8	8.9	7.1	9.2	7.4	9.5	7.6	9.8	7.8	10.1	8.1	10.7	8.5	11.2	8.9
	39.0	7.9	6.3	8.3	6.6	8.7	7.0	9.0	7.2	9.3	7.5	9.6	7.7	9.9	7.9	10.5	8.4	10.9	8.8

unit size	outdoor air temp. CDB	indoor air temp.																	
		14.0CWB 20.0CDB		15.0CWB 21.5CDB		16.0CWB 23.0CDB		17.0CWB 24.5CDB		18.0CWB 26.0CDB		19.0CWB 27.0CDB		20.0CWB 28.0CDB		22.0CWB 30.0CDB		24.0CWB 32.0CDB	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
1404	10.0	11.7	9.4	12.3	9.9	13.0	10.4	13.4	10.7	13.9	11.1	14.3	11.4	14.7	11.8	15.6	12.5	16.3	13.0
	12.0	11.7	9.3	12.3	9.8	12.9	10.3	13.3	10.7	13.8	11.0	14.2	11.4	14.6	11.7	15.5	12.4	16.2	12.9
	14.0	11.6	9.3	12.2	9.8	12.8	10.2	13.3	10.6	13.7	11.0	14.1	11.3	14.5	11.6	15.4	12.3	16.1	12.9
	16.0	11.5	9.2	12.1	9.7	12.7	10.2	13.2	10.5	13.6	10.9	14.0	11.2	14.4	11.5	15.3	12.2	16.0	12.8
	18.0	11.4	9.1	12.0	9.6	12.6	10.1	13.1	10.4	13.5	10.8	13.9	11.1	14.3	11.4	15.1	12.1	15.8	12.7
	20.0	11.3	9.1	11.9	9.5	12.5	10.0	12.9	10.4	13.4	10.7	13.8	11.0	14.2	11.3	15.0	12.0	15.7	12.6
	21.0	11.3	9.0	11.9	9.5	12.4	10.0	12.9	10.3	13.3	10.7	13.7	11.0	14.1	11.3	15.0	12.0	15.6	12.5
	23.0	11.2	8.9	11.7	9.4	12.3	9.9	12.8	10.2	13.2	10.6	13.6	10.9	14.0	11.2	14.8	11.8	15.5	12.4
	25.0	11.0	8.8	11.6	9.3	12.2	9.8	12.6	10.1	13.1	10.4	13.4	10.8	13.8	11.1	14.6	11.7	15.3	12.2
	27.0	10.9	8.7	11.5	9.2	12.0	9.6	12.5	10.0	12.9	10.3	13.3	10.6	13.7	10.9	14.5	11.6	15.1	12.1
	29.0	10.8	8.6	11.3	9.1	11.9	9.5	12.3	9.8	12.7	10.2	13.1	10.5	13.5	10.8	14.3	11.4	14.9	11.9
	31.0	10.6	8.5	11.2	8.9	11.7	9.4	12.1	9.7	12.5	10.0	12.9	10.3	13.3	10.6	14.1	11.3	14.7	11.8
	33.0	10.4	8.4	11.0	8.8	11.5	9.2	11.9	9.6	12.3	9.9	12.7	10.2	13.1	10.5	13.8	11.1	14.5	11.6
	35.0	10.3	8.2	10.8	8.6	11.3	9.1	11.7	9.4	12.1	9.7	12.5	9.6	12.9	10.3	13.6	10.9	14.2	11.4
	37.0	10.1	8.1	10.6	8.5	11.1	8.9	11.5	9.2	11.9	9.5	12.3	9.8	12.6	10.1	13.4	10.7	14.0	11.2
39.0	9.9	7.9	10.4	8.3	10.9	8.7	11.3	9.0	11.7	9.3	12.0	9.6	12.4	9.9	13.1	10.5	13.7	10.9	

2-2-5. Part load performance

Combination

Indoor unit : RAV-SM564UTP-E

Outdoor unit : RAV-SP564ATP-E

	Cooling		Heating	
	Capacity Q (W)	Power consumption W (W)	Capacity Q (W)	Power consumption W (W)
MINIMUM	1200	200	900	150
RATING	5300	1470	5600	1200

Q: Capacity in W

W: Power Consumption in W

Cooling

Outdoor temperature (°C)		Load (%)									
		100	90	80	70	60	50	40	30	20	10
40	Q	5010	4510	4010	3510	3010	2510	2010	1500	1140	1140
	W	1580	1310	1070	860	670	510	380	270	210	210
35	Q	5300	4770	4240	3710	3180	2650	2120	1590	1200	1200
	W	1470	1222	997	799	625	477	354	256	200	200
30	Q	5590	5030	4470	3910	3350	2790	2230	1680	1270	1270
	W	1360	1130	930	740	580	440	330	240	190	190
25	Q	5870	5290	4700	4110	3520	2940	2350	1760	1330	1330
	W	1260	1050	850	680	540	410	300	220	170	170
20	Q	6160	5550	4930	4310	3700	3080	2460	1850	1400	1400
	W	1150	960	780	630	490	370	280	200	160	160

Heating

Outdoor temperature (°C)		Load (%)									
		100	90	80	70	60	50	40	30	20	10
15	Q	6750	6080	5400	4730	4050	3380	2700	2030	1350	1090
	W	1330	1150	960	800	650	520	400	290	200	170
10	Q	6130	5520	4910	4290	3680	3070	2450	1840	1230	990
	W	1260	1090	910	760	620	490	380	270	190	160
7	Q	5600	5040	4480	3920	3360	2800	2240	1680	1120	900
	W	1210	1040	870	730	590	470	360	260	180	150
5	Q	5220	4700	4180	3660	3130	2610	2090	1570	1040	840
	W	1170	1010	840	710	570	460	350	250	170	150
2	Q	4680	4210	3750	3280	2810	2340	1870	1400	940	750
	W	1120	960	800	670	540	430	330	240	170	140
0	Q	3660	3290	2930	2560	2190	1830	1460	1100	730	590
	W	990	850	710	600	480	380	290	210	150	120
-5	Q	3660	3290	2930	2560	2190	1830	1460	1100	730	590
	W	990	850	710	600	480	380	290	210	150	120
-7	Q	3440	3090	2750	2410	2060	1720	1380	1030	690	550
	W	960	830	690	580	470	370	290	210	140	120
-10	Q	3150	2830	2520	2200	1890	1570	1260	940	630	510
	W	920	790	660	560	450	360	270	200	140	110
-15	Q	2650	2390	2120	1860	1590	1330	1060	800	530	430
	W	870	750	620	520	420	340	260	190	130	110

Combination

Indoor unit : RAV-SM804UTP-E

Outdoor unit : RAV-SP804ATP-E

	Cooling		Heating	
	Capacity Q (W)	Power consumption W (W)	Capacity Q (W)	Power consumption W (W)
MINIMUM	1900	300	1300	250
RATING	7100	1860	8000	1910

Q: Capacity in W
W: Power Consumption in W

Cooling

Outdoor temperature (°C)		Load (%)									
		100	90	80	70	60	50	40	30	20	10
40	Q	6720	6040	5370	4700	4030	3360	2690	2010	1800	1800
	W	1990	1670	1380	1120	890	680	510	360	320	320
35	Q	7100	6390	5680	4970	4260	3550	2840	2130	1900	1900
	W	1860	1561	1290	1045	828	638	474	338	300	300
30	Q	7480	6740	5990	5240	4490	3740	2990	2250	2000	2000
	W	1730	1450	1200	970	770	590	440	310	280	280
25	Q	7870	7080	6300	5510	4720	3930	3150	2360	2110	2110
	W	1590	1340	1110	900	710	550	410	290	260	260
20	Q	8250	7430	6600	5780	4950	4130	3300	2480	2210	2210
	W	1460	1230	1010	820	650	500	370	270	240	240

Heating

Outdoor temperature (°C)		Load (%)									
		100	90	80	70	60	50	40	30	20	10
15	Q	9650	8680	7720	6750	5790	4820	3860	2890	1930	1570
	W	2110	1800	1500	1250	1000	790	610	450	320	280
10	Q	8760	7880	7010	6130	5260	4380	3500	2630	1750	1420
	W	2000	1700	1420	1180	950	750	570	430	300	260
7	Q	8000	7200	6400	5600	4800	4000	3200	2400	1600	1300
	W	1910	1630	1360	1130	910	720	550	410	290	250
5	Q	7460	6720	5970	5220	4480	3730	2990	2240	1490	1210
	W	1850	1580	1320	1090	880	700	530	400	280	240
2	Q	6690	6020	5350	4680	4010	3340	2680	2010	1340	1090
	W	1760	1500	1250	1040	840	660	510	380	270	230
0	Q	5220	4700	4180	3660	3130	2610	2090	1570	1040	850
	W	1560	1330	1110	930	750	590	450	340	240	200
-5	Q	5220	4700	4180	3660	3130	2610	2090	1570	1040	850
	W	1560	1330	1110	930	750	590	450	340	240	200
-7	Q	4910	4420	3930	3440	2950	2460	1960	1470	980	800
	W	1520	1290	1080	900	720	570	440	330	230	200
-10	Q	4500	4050	3600	3150	2700	2250	1800	1350	900	730
	W	1450	1240	1030	860	690	550	420	310	220	190
-15	Q	3790	3410	3030	2650	2280	1900	1520	1140	760	620
	W	1370	1170	980	810	650	520	390	290	210	180

Combination

Indoor unit : RAV-SM1104UTP-E

Outdoor unit : RAV-SP1104AT-E

	Cooling		Heating	
	Capacity Q (W)	Power consumption W (W)	Capacity Q (W)	Power consumption W (W)
MINIMUM	2600	640	2400	520
RATING	10000	2210	11200	2340

Q: Capacity in W
W: Power Consumption in W

Cooling

Outdoor temperature (°C)		Load (%)									
		100	90	80	70	60	50	40	30	20	10
40	Q	9510	8560	7610	6660	5710	4760	3800	2850	2470	2470
	W	2370	1970	1620	1320	1060	830	630	440	690	690
35	Q	10000	9000	8000	7000	6000	5000	4000	3000	2600	2600
	W	2210	1832	1507	1229	986	771	583	413	640	640
30	Q	10410	9370	8330	7290	6250	5210	4160	3120	2710	2710
	W	2040	1690	1390	1140	910	710	540	380	590	590
25	Q	10750	9680	8600	7530	6450	5380	4300	3230	2800	2800
	W	1890	1570	1290	1050	840	660	500	350	550	550
20	Q	11030	9930	8820	7720	6620	5520	4410	3310	2870	2870
	W	1760	1460	1200	980	780	610	460	330	510	510

Heating

Outdoor temperature (°C)		Load (%)									
		100	90	80	70	60	50	40	30	20	10
15	Q	13510	12160	10810	9450	8100	6750	5400	4050	2890	2890
	W	2580	2260	1970	1690	1410	1150	900	660	570	570
10	Q	12260	11040	9810	8580	7360	6130	4910	3680	2630	2630
	W	2450	2140	1870	1600	1340	1090	860	630	540	540
7	Q	11200	10080	8960	7840	6720	5600	4480	3360	2400	2400
	W	2340	2050	1790	1530	1280	1040	820	600	520	520
5	Q	10450	9400	8360	7310	6270	5220	4180	3130	2240	2240
	W	2270	1990	1730	1480	1240	1010	790	580	500	500
2	Q	9360	8430	7490	6550	5620	4680	3750	2810	2010	2010
	W	2160	1890	1650	1410	1180	960	760	550	480	480
0	Q	7310	6580	5850	5120	4390	3660	2930	2190	1570	1570
	W	1920	1680	1470	1250	1050	850	670	490	430	430
-5	Q	7310	6580	5850	5120	4390	3660	2930	2190	1570	1570
	W	1920	1680	1470	1250	1050	850	670	490	430	430
-7	Q	6880	6190	5500	4810	4130	3440	2750	2060	1470	1470
	W	1860	1630	1420	1210	1020	830	650	480	410	410
-10	Q	6300	5670	5040	4410	3780	3150	2520	1890	1350	1350
	W	1780	1560	1360	1160	970	790	620	460	400	400
-15	Q	5310	4780	4250	3720	3190	2650	2120	1590	1140	1140
	W	1680	1470	1280	1100	920	750	590	430	370	370

Combination

Indoor unit : RAV-SM1404UTP-E

Outdoor unit : RAV-SP1404AT-E

	Cooling		Heating	
	Capacity Q (W)	Power consumption W (W)	Capacity Q (W)	Power consumption W (W)
MINIMUM	2600	640	2400	520
RATING	12500	3160	14000	3210

Q: Capacity in W
W: Power Consumption in W

Cooling

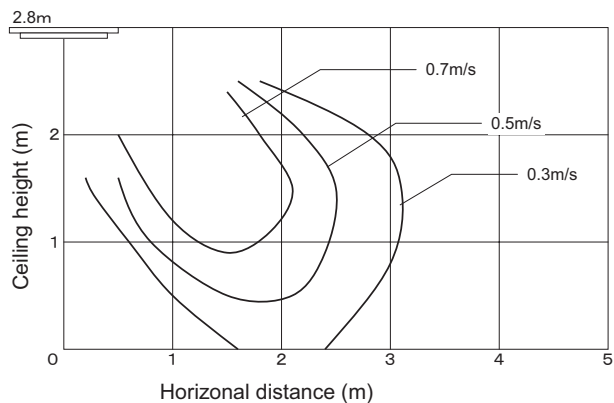
Outdoor temperature (°C)		Load (%)									
		100	90	80	70	60	50	40	30	20	10
40	Q	11890	10700	9510	8320	7130	5940	4760	3570	2470	2470
	W	3390	2810	2310	1890	1510	1180	900	630	690	690
35	Q	12500	11250	10000	8750	7500	6250	5000	3750	2600	2600
	W	3160	2620	2155	1757	1409	1103	834	591	640	640
30	Q	13010	11710	10410	9110	7810	6510	5210	3900	2710	2710
	W	2920	2420	1990	1620	1300	1020	770	550	590	590
25	Q	13440	12090	10750	9410	8060	6720	5380	4030	2800	2800
	W	2710	2250	1850	1510	1210	950	710	510	550	550
20	Q	13790	12410	11030	9650	8270	6890	5520	4140	2870	2870
	W	2510	2080	1710	1400	1120	880	660	470	510	510

Heating

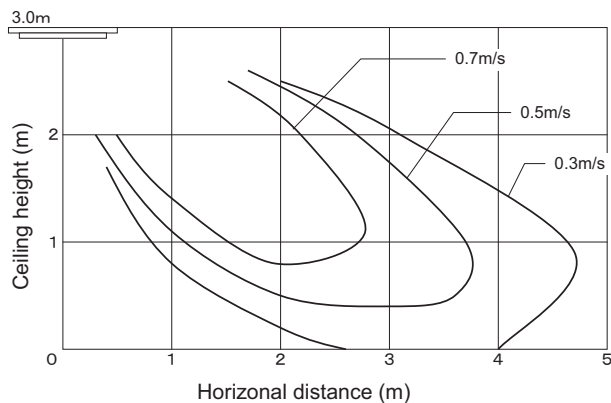
Outdoor temperature (°C)		Load (%)									
		100	90	80	70	60	50	40	30	20	10
15	Q	16880	15190	13510	11820	10130	8440	6750	5060	3380	2890
	W	3540	3110	2700	2300	1930	1580	1240	900	600	570
10	Q	15330	13800	12260	10730	9200	7670	6130	4600	3070	2630
	W	3350	2950	2560	2180	1830	1490	1170	860	560	540
7	Q	14000	12600	11200	9800	8400	7000	5600	4200	2800	2400
	W	3210	2820	2450	2090	1750	1430	1120	820	540	520
5	Q	13060	11760	10450	9140	7840	6530	5220	3920	2610	2240
	W	3110	2730	2370	2030	1700	1390	1090	790	520	500
2	Q	11700	10530	9360	8190	7020	5850	4680	3510	2340	2010
	W	2960	2600	2260	1930	1610	1320	1030	760	500	480
0	Q	9140	8230	7310	6400	5490	4570	3660	2740	1830	1570
	W	2630	2310	2010	1710	1430	1170	920	670	440	430
-5	Q	9140	8230	7310	6400	5490	4570	3660	2740	1830	1570
	W	2630	2310	2010	1710	1430	1170	920	670	440	430
-7	Q	8600	7740	6880	6020	5160	4300	3440	2580	1720	1470
	W	2550	2240	1950	1660	1390	1140	890	650	430	410
-10	Q	7870	7090	6300	5510	4720	3940	3150	2360	1570	1350
	W	2440	2150	1860	1590	1330	1090	850	620	410	400
-15	Q	6640	5970	5310	4650	3980	3320	2650	1990	1330	1140
	W	2300	2020	1760	1500	1260	1030	800	590	390	370

2-2-6. Air throw distance chart

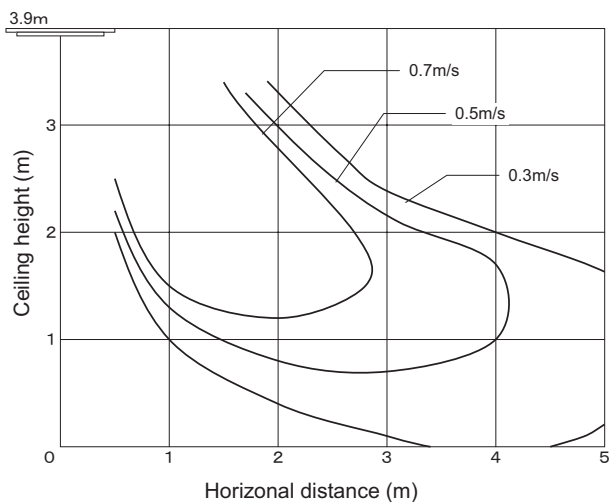
RAV-SM564UTP-E



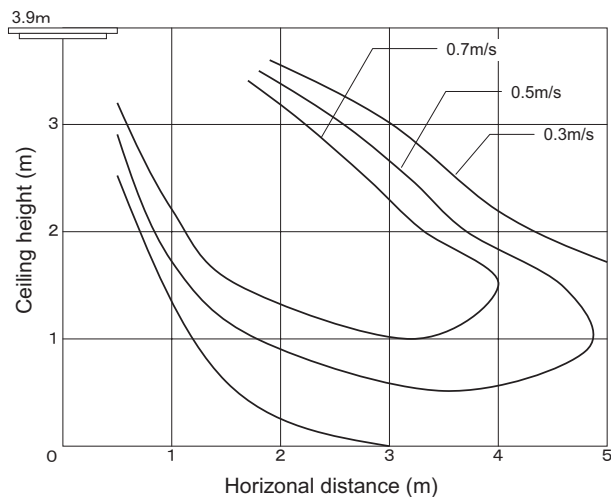
RAV-SM804UTP-E



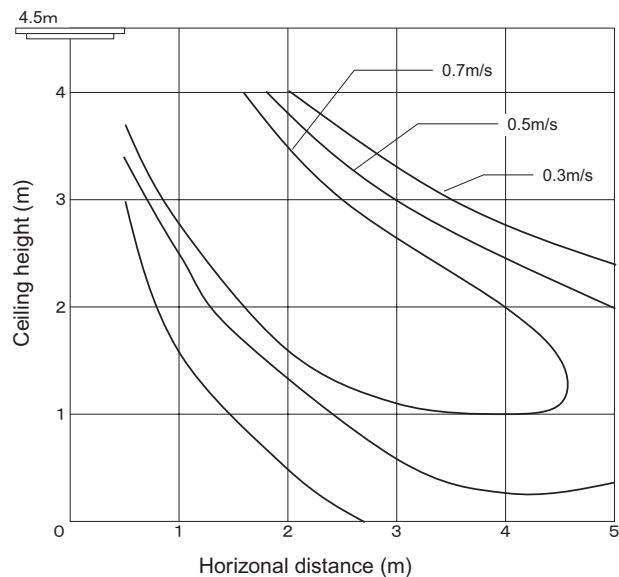
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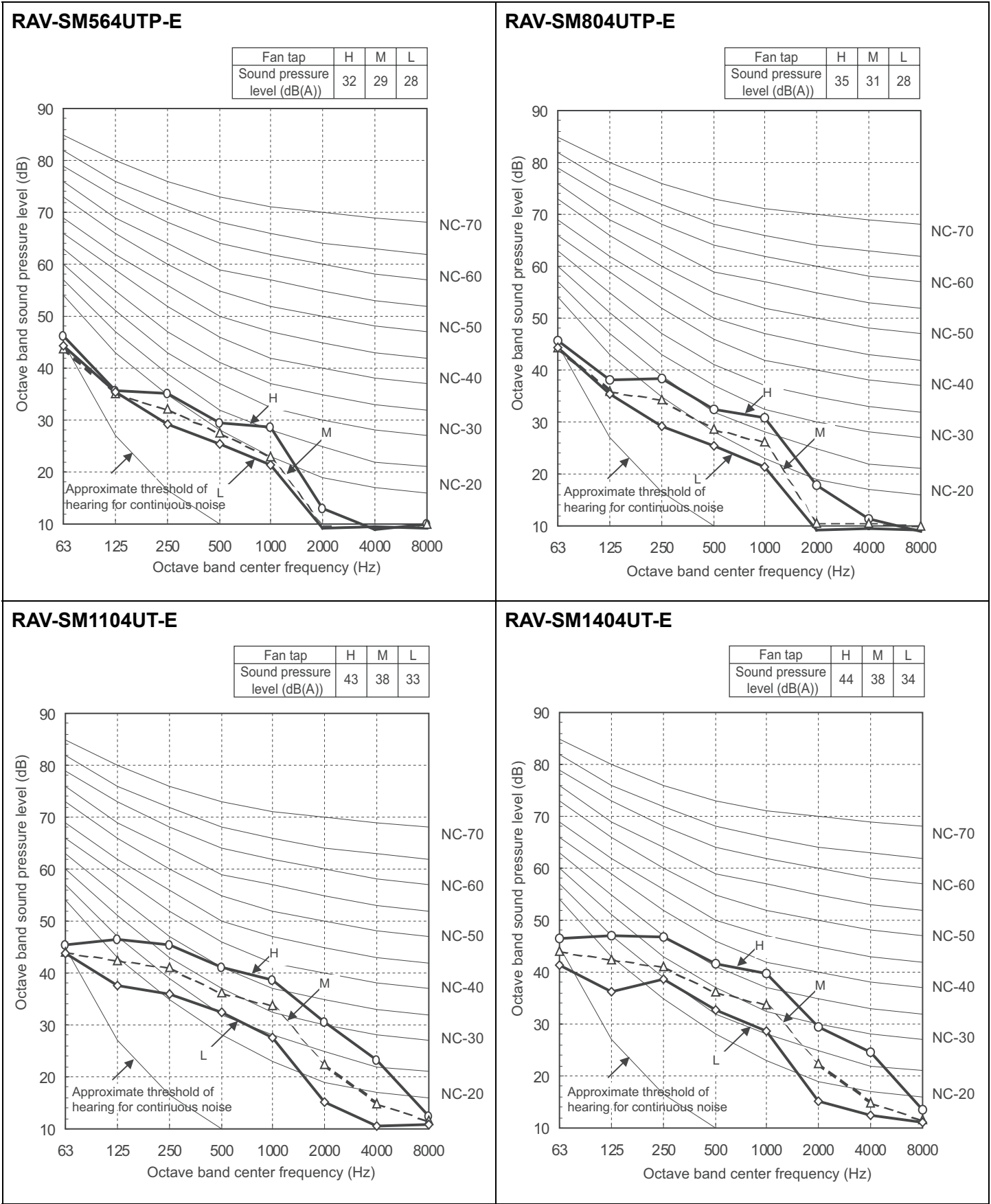
RAV-SM1404UTP-E



**RAV-SM1104UTP-E, RAV-SM1404UTP-E
(High ceiling)**



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



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)

2-3-1. Specifications

<Single type>

Model	Indoor unit		RAV-SM	404MUT-E	454MUT-E	564MUT-E
	Outdoor unit		RAV-SP	404AT-E	454AT-E	564AT(Z)(ZG)-E
Cooling capacity			(kW)	3.6	4.0	5.0
Heating capacity			(kW)	4.0	4.5	5.6
Power supply			1 phase 230V (220 – 240V) 50Hz			
Electrical characteristics	Cooling	Running current	(A)	5.05 – 4.63	5.82 – 5.33	7.24 – 6.63
		Power consumption	(kW)	1.00	1.19	1.56
		Power factor	(%)	90	93	98
		EER		3.60	3.36	3.21
		Energy efficiency class *		A	A	A
	Heating	Running current	(A)	4.79 – 4.39	5.67 – 5.20	7.14 – 6.55
		Power consumption	(kW)	0.97	1.16	1.54
		Power factor	(%)	92	93	98
		COP		4.12	3.88	3.64
		Energy efficiency class *		A	A	A
	Maximum current		(A)	15.00	15.00	13.60
Appearance	Main unit		Zinc hot dipping steel plate			
	Ceiling panel (Sold separately)	Model	RBC-UM11PG (W)-E			
		Panel color	Moon-white (Muncel 2.5GY 9.0/0.5)			
Outer dimension	Main unit	Height	(mm)	268	268	268
		Width	(mm)	575	575	575
		Depth	(mm)	575	575	575
	Ceiling panel (Sold separately)	Height	(mm)	27	27	27
		Width	(mm)	700	700	700
		Depth	(mm)	700	700	700
Total weight	Main unit		(kg)	17	17	17
	Ceiling panel (Sold separately)		(kg)	3	3	3
Heat exchanger			Finned tube			
Fan unit	Fan		Turbo fan			
	Standard air flow	H/M/L	(m³/min.)	11.0/9.2/7.8	11.0/9.2/7.8	13.3/11.2/9.1
	Motor		(W)	60	60	60
Air filter			Long life filter			
Controller (Sold separately)			RBC-AMT32E, AMS41E, AS21E2, TCB-AX21E2			
Sound pressure level		H/M/L	(dB•A)	40/36/31	40/36/31	43/39/34
Sound power level		H/M/L	(dB•A)	55/51/46	55/51/46	58/54/49
Connecting pipe		Gas side	(mm)	12.7	12.7	12.7
		Liquid side	(mm)	6.4	6.4	6.4
		Drain port	(mm)	VP25		

* : IEC standard

*1 : The cooling capacities and electrical characteristics are measured under the conditions specified by JIS B 8615 based on the reference piping. The reference piping consists of 5 m of main piping and 2.5 m of branch piping connected with 0 meter height.

*2 : The sound level are measured in an anechoic chamber in accordance with JIS B 8616. Normally, the values measured in the actual operating environment become larger than the indicated values due to the effects of external sound.

Note :

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

<Twin type>

Model	Indoor unit 1		RAV-SM	404MUT-E	564MUT-E
	Indoor unit 2		RAV-SM	404MUT-E	564MUT-E
	Outdoor unit		RAV-SP	804AT(Z)(ZG)-E	1104AT(Z)(ZG)-E
Cooling capacity			(kW)	7.1	10.0
Heating capacity			(kW)	8.0	11.2
Indoor unit					
Power supply			1 phase 230V (220 – 240V) 50Hz		
Electrical characteristics	Cooling	Running current (A)		10.36 – 9.49	12.51 – 11.47
		Power consumption (kW)		2.21	2.67
		Power factor (%)		97	97
		EER		3.21	3.75
		Energy efficiency class *		A	A
	Heating	Running current (A)		10.12 – 9.28	12.51 – 11.47
		Power consumption (kW)		2.16	2.67
		Power factor (%)		97	97
		COP		3.70	4.19
		Energy efficiency class *		A	A
Fan unit	Fan		Turbo fan		
	Standard air flow	H/M/L (m³/min.)	11.0/9.2/7.8		13.3/11.2/9.1
	Motor (W)		60		60
Sound pressure level		H/M/L (dB•A)	40/36/31		43/39/34
Sound power level		H/M/L (dB•A)	55/51/46		58/54/49
Outdoor unit					
Power supply			1 phase 230V (220 – 240V) 50Hz		
Refrigerant pipe	Standard length (m)		7.5		7.5
	Min. length (m)		5		3
	Max. total length (m)		50		50
	Refrigerant charging amount (Charge-less up to 30m)		40g/m (31m to 50m)		
	Height difference	Outdoor lower (m)	30		30
		Outdoor higher (m)	30		30
Fan unit	Fan		Propeller fan		
	Standard air flow (m³/min.)		50		101
	Motor (W)		63		100 + 100
Connecting pipe	Gas side	Main (mm)	15.9		15.9
		Sub (mm)	12.7		12.7
	Liquid side	Main (mm)	9.5		9.5
		Sub (mm)	6.4		6.4
Sound pressure level		Cooling/Heating (dB•A)	48/49		49/50
Sound power level		Cooling/Heating (dB•A)	64/65		66/67

*: IEC standard

<Single type>

Model	Indoor unit		RAV-SM	404MUT-E	454MUT-E	564MUT-E
	Outdoor unit		RAV-SP	404ATP-E	454ATP-E	564AT(J)P-E
Cooling capacity			(kW)	3.6	4.0	5.0
Heating capacity			(kW)	4.0	4.5	5.6
Power supply			1 phase 230V (220 – 240V) 50Hz			
Electrical characteristics	Cooling	Running current	(A)	5.05 – 4.63	5.82 – 5.33	7.24 – 6.63
		Power consumption	(kW)	1.00	1.19	1.56
		Power factor	(%)	90	93	98
		EER		3.60	3.36	3.21
		Energy efficiency class *		A	A	A
	Heating	Running current	(A)	4.79 – 4.39	5.67 – 5.20	7.14 – 6.55
		Power consumption	(kW)	0.97	1.16	1.54
		Power factor	(%)	92	93	98
		COP		4.12	3.88	3.64
		Energy efficiency class *		A	A	A
Maximum current		(A)	15.00	15.00	13.60	
Appearance	Main unit		Zinc hot dipping steel plate			
	Ceiling panel (Sold separately)	Model	RBC-UM11PG (W)-E			
		Panel color	Moon-white (Muncel 2.5GY 9.0/0.5)			
Outer dimension	Main unit	Height	(mm)	268	268	268
		Width	(mm)	575	575	575
		Depth	(mm)	575	575	575
	Ceiling panel (Sold separately)	Height	(mm)	27	27	27
		Width	(mm)	700	700	700
		Depth	(mm)	700	700	700
Total weight	Main unit		(kg)	17	17	17
	Ceiling panel (Sold separately)		(kg)	3	3	3
Heat exchanger			Finned tube			
Fan unit	Fan		Turbo fan			
	Standard air flow	H/M/L	(m³/min.)	11.0/9.2/7.8	11.0/9.2/7.8	13.3/11.2/9.1
	Motor		(W)	60	60	60
Air filter			Long life filter			
Controller (Sold separately)			RBC-AMT32E, AMS41E, AS21E2, TCB-AX21E2			
Sound pressure level		H/M/L	(dB•A)	40/36/31	40/36/31	43/39/34
Sound power level		H/M/L	(dB•A)	55/51/46	55/51/46	58/54/49
Connecting pipe		Gas side	(mm)	12.7	12.7	12.7
		Liquid side	(mm)	6.4	6.4	6.4
		Drain port	(mm)	VP25		

* : IEC standard

*1 : The cooling capacities and electrical characteristics are measured under the conditions specified by JIS B 8615 based on the reference piping. The reference piping consists of 5 m of main piping and 2.5 m of branch piping connected with 0 meter height.

*2 : The sound level are measured in an anechoic chamber in accordance with JIS B 8616. Normally, the values measured in the actual operating environment become larger than the indicated values due to the effects of external sound.

Note :

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

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

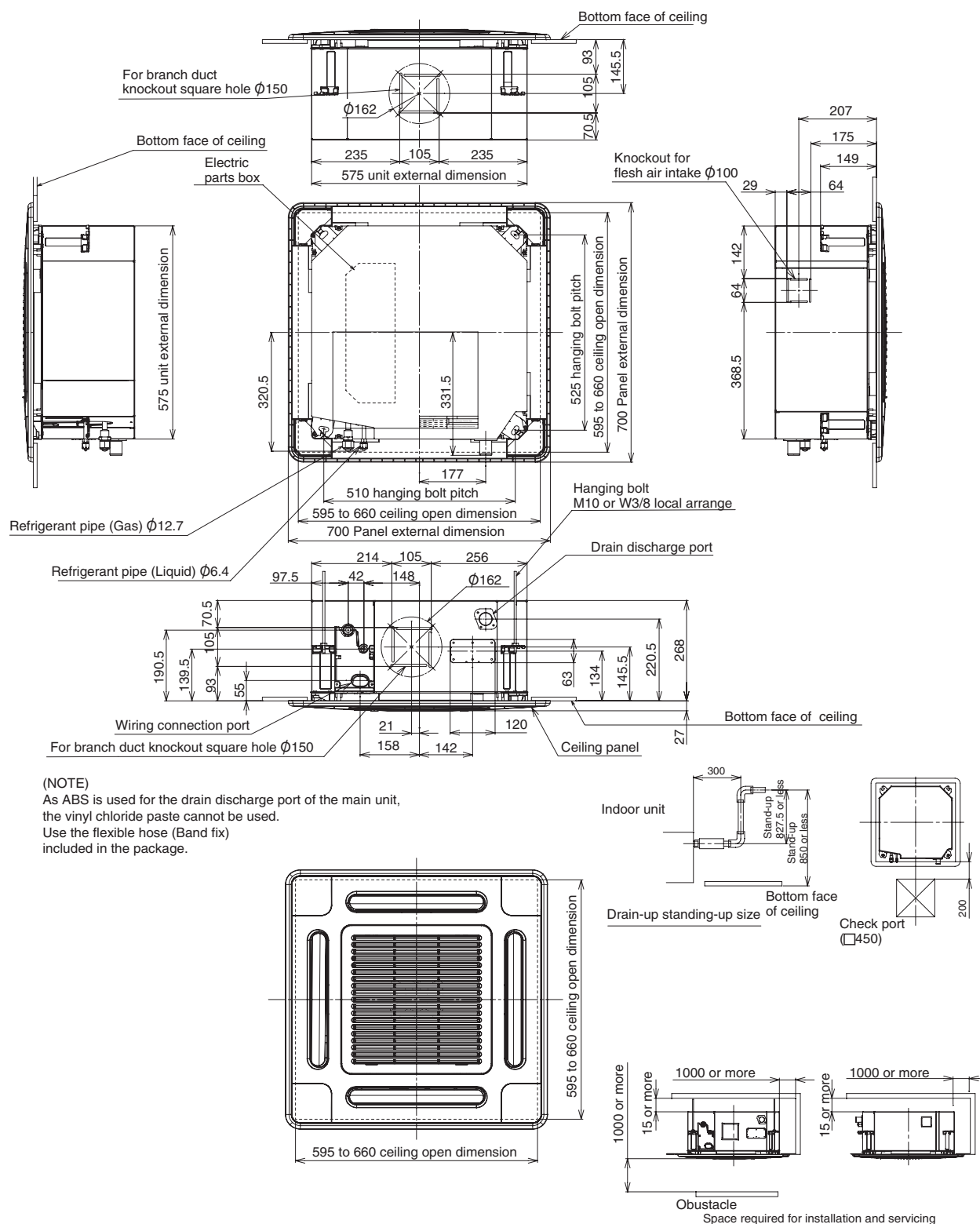
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Model	Indoor unit 1		RAV-SM	404MUT-E
	Indoor unit 2		RAV-SM	404MUT-E
	Outdoor unit		RAV-SP	804AT(J)P-E
Cooling capacity			(kW)	7.1
Heating capacity			(kW)	8.0
Indoor unit				
Power supply			1 phase 230V (220 – 240V) 50Hz	
Electrical characteristics	Cooling	Running current (A)		10.36 – 9.49
		Power consumption (kW)		2.21
		Power factor (%)		97
		EER		3.21
		Energy efficiency class *		A
	Heating	Running current (A)		10.12 – 9.28
		Power consumption (kW)		2.16
		Power factor (%)		97
		COP		3.70
		Energy efficiency class *		A
Fan unit	Fan		Turbo fan	
	Standard air flow	H/M/L (m³/min.)	11.0/9.2/7.8	
	Motor (W)		60	
Sound pressure level		H/M/L (dB•A)	40/36/31	
Sound power level		H/M/L (dB•A)	55/51/46	
Outdoor unit				
Power supply			1 phase 230V (220 – 240V) 50Hz	
Refrigerant pipe	Standard length (m)		7.5	
	Min. length (m)		5	
	Max. total length (m)		50	
	Refrigerant charging amount (Charge-less up to 30m)		40g/m (31m to 50m)	
	Height difference	Outdoor lower (m)	30	
		Outdoor higher (m)	30	
Fan unit	Fan		Propeller fan	
	Standard air flow (m³/min.)		50	
	Motor (W)		63	
Connecting pipe	Gas side	Main (mm)	15.9	
		Sub (mm)	12.7	
	Liquid side	Main (mm)	9.5	
		Sub (mm)	6.4	
Sound pressure level		Cooling/Heating (dB•A)	48/49	
Sound power level		Cooling/Heating (dB•A)	64/65	

* : IEC standard

2-3-2. Dimension

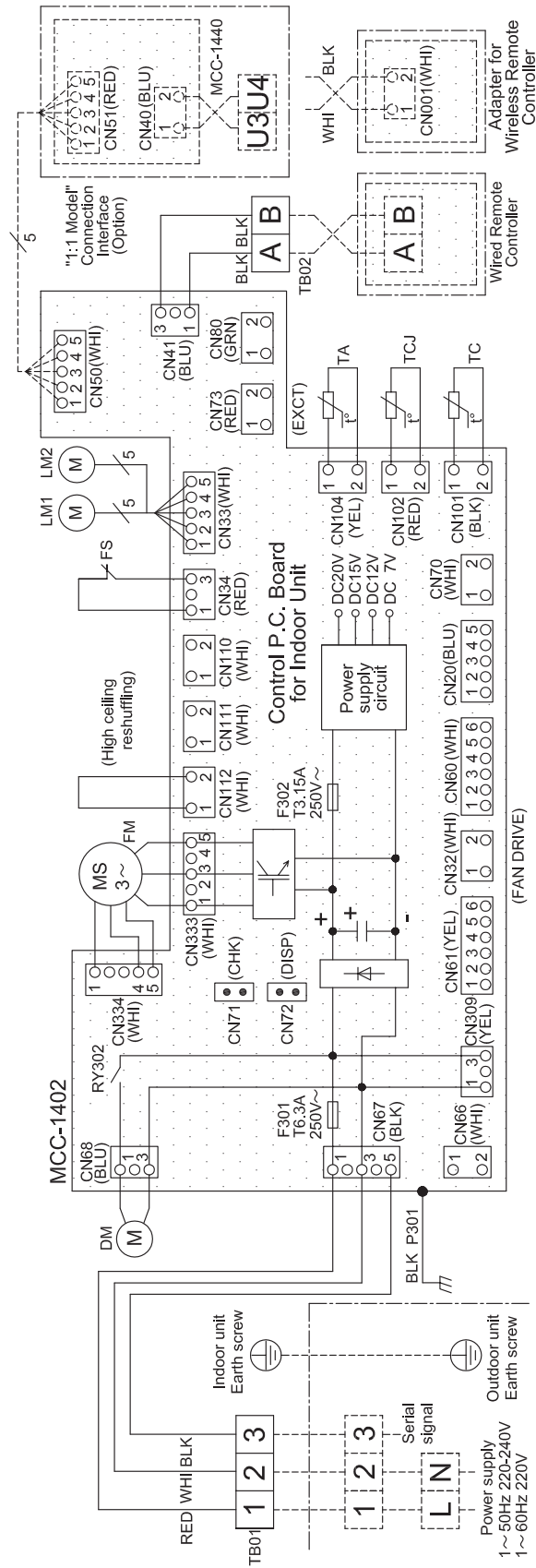
RAV-SM404MUT-E/RAV-SM454MUT-E/RAV-SM564MUT-E



Note: All dimensions are in mm.

2-3-3. Wiring diagrams

RAV-SM404MUT-E/RAV-SM454MUT-E/RAV-SM564MUT-E



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

COLOR IDENTIFICATION	
RED	: RED
WHI	: WHITE
YEL	: YELLOW
BLU	: BLUE
BLK	: BLACK
GRY	: GRAY
PNK	: PINK
ORN	: ORANGE
BRW	: BROWN
GRN	: GREEN

Symbol	Parts Name
CN**	Connector
DM	Drain Pump Motor
F301,302	Fuse
FM	Fan Motor
FS	Float Switch
LM1,2	Louver Motor
RY302	Drain Control Relay
TA	Indoor temp sensor
TB01,02	Terminal Block
TC,TCJ	Temp sensor

2-3-4. Sensible capacity table

Super Digital Inverter 4 Series Sensible Heat Capacity : RAV-SM***MUT-E

unit size	outdoor air temp. CDB	indoor air temp.																	
		14.0CWB 20.0CDB		15.0CWB 21.5CDB		16.0CWB 23.0CDB		17.0CWB 24.5CDB		18.0CWB 26.0CDB		19.0CWB 27.0CDB		20.0CWB 28.0CDB		22.0CWB 30.0CDB		24.0CWB 32.0CDB	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
404	10.0	3.4	2.7	3.6	2.8	3.7	3.0	3.9	3.1	4.0	3.2	4.1	3.3	4.2	3.4	4.5	3.6	4.7	3.8
	12.0	3.4	2.7	3.5	2.8	3.7	3.0	3.8	3.1	4.0	3.2	4.1	3.3	4.2	3.4	4.5	3.6	4.7	3.7
	14.0	3.3	2.7	3.5	2.8	3.7	2.9	3.8	3.1	3.9	3.2	4.1	3.3	4.2	3.3	4.4	3.5	4.6	3.7
	16.0	3.3	2.7	3.5	2.8	3.7	2.9	3.8	3.0	3.9	3.1	4.0	3.2	4.2	3.3	4.4	3.5	4.6	3.7
	18.0	3.3	2.6	3.5	2.8	3.6	2.9	3.8	3.0	3.9	3.1	4.0	3.2	4.1	3.3	4.4	3.5	4.6	3.6
	20.0	3.3	2.6	3.4	2.7	3.6	2.9	3.7	3.0	3.9	3.1	4.0	3.2	4.1	3.3	4.3	3.5	4.5	3.6
	21.0	3.2	2.6	3.4	2.7	3.6	2.9	3.7	3.0	3.8	3.1	4.0	3.2	4.1	3.3	4.3	3.4	4.5	3.6
	23.0	3.2	2.6	3.4	2.7	3.5	2.8	3.7	2.9	3.8	3.0	3.9	3.1	4.0	3.2	4.3	3.4	4.5	3.6
	25.0	3.2	2.5	3.3	2.7	3.5	2.8	3.6	2.9	3.8	3.0	3.9	3.1	4.0	3.2	4.2	3.4	4.4	3.5
	27.0	3.1	2.5	3.3	2.6	3.5	2.8	3.6	2.9	3.7	3.0	3.8	3.1	3.9	3.1	4.2	3.3	4.4	3.5
	29.0	3.1	2.5	3.3	2.6	3.4	2.7	3.5	2.8	3.7	2.9	3.8	3.0	3.9	3.1	4.1	3.3	4.3	3.4
	31.0	3.1	2.4	3.2	2.6	3.4	2.7	3.5	2.8	3.6	2.9	3.7	3.0	3.8	3.1	4.1	3.2	4.2	3.4
	33.0	3.0	2.4	3.2	2.5	3.3	2.7	3.4	2.8	3.6	2.8	3.7	2.9	3.8	3.0	4.0	3.2	4.2	3.3
	35.0	3.0	2.4	3.1	2.5	3.3	2.6	3.4	2.7	3.5	2.8	3.6	2.9	3.7	3.0	3.9	3.1	4.1	3.3
	37.0	2.9	2.3	3.1	2.4	3.2	2.6	3.3	2.7	3.4	2.7	3.5	2.8	3.6	2.9	3.8	3.1	4.0	3.2
	39.0	2.8	2.3	3.0	2.4	3.1	2.5	3.2	2.6	3.4	2.7	3.5	2.8	3.6	2.8	3.8	3.0	3.9	3.2

unit size	outdoor air temp. CDB	indoor air temp.																	
		14.0CWB 20.0CDB		15.0CWB 21.5CDB		16.0CWB 23.0CDB		17.0CWB 24.5CDB		18.0CWB 26.0CDB		19.0CWB 27.0CDB		20.0CWB 28.0CDB		22.0CWB 30.0CDB		24.0CWB 32.0CDB	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
454	10.0	3.8	2.9	4.0	3.0	4.1	3.2	4.3	3.3	4.4	3.4	4.6	3.5	4.7	3.6	5.0	3.8	5.2	4.0
	12.0	3.7	2.8	3.9	3.0	4.1	3.1	4.3	3.3	4.4	3.4	4.5	3.5	4.7	3.6	4.9	3.8	5.2	4.0
	14.0	3.7	2.8	3.9	3.0	4.1	3.1	4.2	3.2	4.4	3.3	4.5	3.4	4.6	3.5	4.9	3.8	5.1	3.9
	16.0	3.7	2.8	3.9	3.0	4.1	3.1	4.2	3.2	4.4	3.3	4.5	3.4	4.6	3.5	4.9	3.7	5.1	3.9
	18.0	3.7	2.8	3.8	2.9	4.0	3.1	4.2	3.2	4.3	3.3	4.4	3.4	4.6	3.5	4.8	3.7	5.1	3.9
	20.0	3.6	2.8	3.8	2.9	4.0	3.1	4.1	3.2	4.3	3.3	4.4	3.4	4.5	3.5	4.8	3.7	5.0	3.8
	21.0	3.6	2.8	3.8	2.9	4.0	3.0	4.1	3.1	4.3	3.3	4.4	3.4	4.5	3.4	4.8	3.7	5.0	3.8
	23.0	3.6	2.7	3.8	2.9	3.9	3.0	4.1	3.1	4.2	3.2	4.3	3.3	4.5	3.4	4.7	3.6	5.0	3.8
	25.0	3.5	2.7	3.7	2.8	3.9	3.0	4.0	3.1	4.2	3.2	4.3	3.3	4.4	3.4	4.7	3.6	4.9	3.7
	27.0	3.5	2.7	3.7	2.8	3.9	2.9	4.0	3.0	4.1	3.2	4.2	3.2	4.4	3.3	4.6	3.5	4.8	3.7
	29.0	3.4	2.6	3.6	2.8	3.8	2.9	3.9	3.0	4.1	3.1	4.2	3.2	4.3	3.3	4.6	3.5	4.8	3.6
	31.0	3.4	2.6	3.6	2.7	3.7	2.9	3.9	3.0	4.0	3.1	4.1	3.2	4.3	3.2	4.5	3.4	4.7	3.6
	33.0	3.3	2.6	3.5	2.7	3.7	2.8	3.8	2.9	4.0	3.0	4.1	3.1	4.2	3.2	4.4	3.4	4.6	3.5
	35.0	3.3	2.5	3.5	2.6	3.6	2.8	3.8	2.9	3.9	3.0	4.0	3.1	4.1	3.1	4.4	3.3	4.6	3.5
	37.0	3.2	2.5	3.4	2.6	3.6	2.7	3.7	2.8	3.8	2.9	3.9	3.0	4.0	3.1	4.3	3.3	4.5	3.4
	39.0	3.2	2.4	3.3	2.5	3.5	2.7	3.6	2.8	3.7	2.9	3.8	2.9	4.0	3.0	4.2	3.2	4.4	3.3

unit size	outdoor air temp. CDB	indoor air temp.																	
		14.0CWB 20.0CDB		15.0CWB 21.5CDB		16.0CWB 23.0CDB		17.0CWB 24.5CDB		18.0CWB 26.0CDB		19.0CWB 27.0CDB		20.0CWB 28.0CDB		22.0CWB 30.0CDB		24.0CWB 32.0CDB	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
564	10.0	4.7	3.5	4.9	3.7	5.2	3.8	5.4	4.0	5.6	4.1	5.7	4.2	5.9	4.4	6.2	4.6	6.5	4.8
	12.0	4.7	3.5	4.9	3.6	5.2	3.8	5.3	3.9	5.5	4.1	5.7	4.2	5.8	4.3	6.2	4.6	6.5	4.8
	14.0	4.6	3.4	4.9	3.6	5.1	3.8	5.3	3.9	5.5	4.1	5.6	4.2	5.8	4.3	6.1	4.6	6.4	4.8
	16.0	4.6	3.4	4.8	3.6	5.1	3.8	5.3	3.9	5.4	4.0	5.6	4.1	5.8	4.3	6.1	4.5	6.4	4.7
	18.0	4.6	3.4	4.8	3.6	5.0	3.7	5.2	3.9	5.4	4.0	5.6	4.1	5.7	4.2	6.1	4.5	6.3	4.7
	20.0	4.5	3.4	4.8	3.5	5.0	3.7	5.2	3.8	5.4	4.0	5.5	4.1	5.7	4.2	6.0	4.4	6.3	4.6
	21.0	4.5	3.3	4.7	3.5	5.0	3.7	5.2	3.8	5.3	3.9	5.5	4.1	5.6	4.2	6.0	4.4	6.3	4.6
	23.0	4.5	3.3	4.7	3.5	4.9	3.6	5.1	3.8	5.3	3.9	5.4	4.0	5.6	4.1	5.9	4.4	6.2	4.6
	25.0	4.4	3.3	4.6	3.4	4.9	3.6	5.0	3.7	5.2	3.9	5.4	4.0	5.5	4.1	5.9	4.3	6.1	4.5
	27.0	4.4	3.2	4.6	3.4	4.8	3.6	5.0	3.7	5.2	3.8	5.3	3.9	5.5	4.0	5.8	4.3	6.0	4.5
	29.0	4.3	3.2	4.5	3.4	4.8	3.5	4.9	3.6	5.1	3.8	5.2	3.9	5.4	4.0	5.7	4.2	6.0	4.4
	31.0	4.2	3.1	4.5	3.3	4.7	3.5	4.9	3.6	5.0	3.7	5.2	3.8	5.3	3.9	5.6	4.2	5.9	4.4
	33.0	4.2	3.1	4.4	3.3	4.6	3.4	4.8	3.5	4.9	3.7	5.1	3.8	5.2	3.9	5.5	4.1	5.8	4.3
	35.0	4.1	3.0	4.3	3.2	4.5	3.4	4.7	3.5	4.9	3.6	5.0	3.7	5.1	3.8	5.4	4.0	5.7	4.2
	37.0	4.0	3.0	4.2	3.1	4.4	3.3	4.6	3.4	4.8	3.5	4.9	3.6	5.0	3.7	5.3	4.0	5.6	4.1
	39.0	3.9	2.9	4.2	3.1	4.4	3.2	4.5	3.3	4.7	3.5	4.8	3.6	4.9	3.7	5.2	3.9	5.5	4.1

TC:Total Capacity [kW]

SHC:Sensible Heat Capacity [kW]

2-3-5. Part load performance

Combination

Indoor unit : RAV-SM404MUT-E

Outdoor unit : RAV-SP404AT-E, RAV-SP404ATP-E

	Cooling		Heating	
	Capacity Q (W)	Power consumption W (W)	Capacity Q (W)	Power consumption W (W)
MINIMUM	1500	360	1500	360
RATING	3600	1000	4000	970

Q: Capacity in W

W: Power Consumption in W

Cooling

Outdoor temperature (°C)		Load (%)									
		100	90	80	70	60	50	40	30	20	10
40	Q	3420	3080	2740	2400	2050	1710	1430	1430	1430	1430
	W	1070	920	780	660	540	430	390	390	390	390
35	Q	3600	3240	2880	2520	2160	1800	1500	1500	1500	1500
	W	1000	858	729	611	503	403	360	360	360	360
30	Q	3750	3370	3000	2620	2250	1870	1560	1560	1560	1560
	W	920	790	670	560	460	370	330	330	330	330
25	Q	3870	3480	3100	2710	2320	1940	1610	1610	1610	1610
	W	860	740	620	520	430	350	310	310	310	310
20	Q	3970	3570	3180	2780	2380	1990	1650	1650	1650	1650
	W	800	680	580	490	400	320	290	290	290	290

Heating

Outdoor temperature (°C)		Load (%)									
		100	90	80	70	60	50	40	30	20	10
15	Q	4820	4340	3860	3380	2890	2410	1930	1810	1810	1810
	W	1070	950	830	720	610	500	390	400	400	400
10	Q	4380	3940	3500	3070	2630	2190	1750	1640	1640	1640
	W	1010	900	780	680	570	470	370	380	380	380
7	Q	4000	3600	3200	2800	2400	2000	1600	1500	1500	1500
	W	970	860	750	650	550	450	350	360	360	360
5	Q	3730	3360	2990	2610	2240	1870	1490	1400	1400	1400
	W	940	830	730	630	530	440	340	350	350	350
2	Q	3340	3010	2680	2340	2010	1670	1340	1250	1250	1250
	W	890	790	690	600	510	410	320	330	330	330
0	Q	2610	2350	2090	1830	1570	1310	1040	980	980	980
	W	790	700	610	530	450	370	290	290	290	290
-5	Q	2610	2350	2090	1830	1570	1310	1040	980	980	980
	W	790	700	610	530	450	370	290	290	290	290
-7	Q	2460	2210	1960	1720	1470	1230	980	920	920	920
	W	770	680	600	520	440	360	280	290	290	290
-10	Q	2250	2020	1800	1570	1350	1120	900	840	840	840
	W	740	650	570	490	420	340	270	270	270	270
-15	Q	1900	1710	1520	1330	1140	950	760	710	710	710
	W	700	620	540	470	390	320	250	260	260	260

Combination

Indoor unit : RAV-SM454MUT-E

Outdoor unit : RAV-SP454AT-E, RAV-SP454ATP-E

	Cooling		Heating	
	Capacity Q (W)	Power consumption W (W)	Capacity Q (W)	Power consumption W (W)
MINIMUM	1500	360	1500	360
RATING	4000	1190	4500	1160

Q: Capacity in W
W: Power Consumption in W

Cooling

Outdoor temperature (°C)		Load (%)									
		100	90	80	70	60	50	40	30	20	10
40	Q	3800	3420	3040	2660	2280	1900	1520	1430	1430	1430
	W	1280	1060	870	710	570	450	340	390	390	390
35	Q	4000	3600	3200	2800	2400	2000	1600	1500	1500	1500
	W	1190	987	812	662	531	415	314	360	360	360
30	Q	4160	3750	3330	2910	2500	2080	1670	1560	1560	1560
	W	1100	910	750	610	490	380	290	330	330	330
25	Q	4300	3870	3440	3010	2580	2150	1720	1610	1610	1610
	W	1020	850	700	570	450	360	270	310	310	310
20	Q	4410	3970	3530	3090	2650	2210	1760	1650	1650	1650
	W	950	780	650	530	420	330	250	290	290	290

Heating

Outdoor temperature (°C)		Load (%)									
		100	90	80	70	60	50	40	30	20	10
15	Q	5430	4880	4340	3800	3260	2710	2170	1810	1810	1810
	W	1280	1120	980	840	690	570	440	400	400	400
10	Q	4930	4430	3940	3450	2960	2460	1970	1640	1640	1640
	W	1210	1070	930	790	660	540	420	380	380	380
7	Q	4500	4050	3600	3150	2700	2250	1800	1500	1500	1500
	W	1160	1020	890	760	630	520	400	360	360	360
5	Q	4200	3780	3360	2940	2520	2100	1680	1400	1400	1400
	W	1120	990	860	740	610	500	390	350	350	350
2	Q	3760	3390	3010	2630	2260	1880	1500	1250	1250	1250
	W	1070	940	820	700	580	480	370	330	330	330
0	Q	2940	2640	2350	2060	1760	1470	1180	980	980	980
	W	950	840	730	620	520	430	330	290	290	290
-5	Q	2940	2640	2350	2060	1760	1470	1180	980	980	980
	W	950	840	730	620	520	430	330	290	290	290
-7	Q	2760	2490	2210	1930	1660	1380	1110	920	920	920
	W	920	810	710	600	500	410	320	290	290	290
-10	Q	2530	2280	2020	1770	1520	1270	1010	840	840	840
	W	880	780	680	580	480	400	300	270	270	270
-15	Q	2130	1920	1710	1490	1280	1070	850	710	710	710
	W	830	730	640	550	450	370	290	260	260	260

Combination

Indoor unit : RAV-SM564MUT-E

Outdoor unit : RAV-SP564AT-E, RAV-SP564ATP-E

	Cooling		Heating	
	Capacity Q (W)	Power consumption W (W)	Capacity Q (W)	Power consumption W (W)
MINIMUM	1200	210	900	170
RATING	5000	1560	5600	1540

Q: Capacity in W
W: Power Consumption in W

Cooling

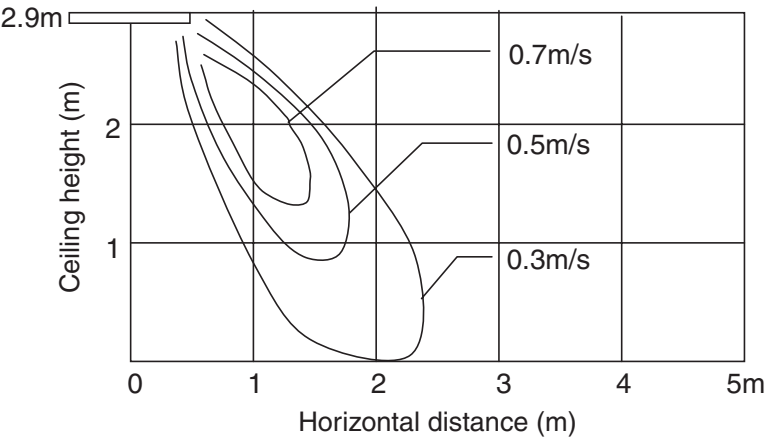
Outdoor temperature (°C)		Load (%)									
		100	90	80	70	60	50	40	30	20	10
40	Q	4730	4260	3780	3310	2840	2360	1890	1420	1140	1140
	W	1670	1450	1240	1040	850	660	490	320	230	230
35	Q	5000	4500	4000	3500	3000	2500	2000	1500	1200	1200
	W	1560	1356	1160	972	792	620	456	300	210	210
30	Q	5270	4740	4220	3690	3160	2640	2110	1580	1270	1270
	W	1450	1260	1080	900	740	580	420	280	190	190
25	Q	5540	4990	4430	3880	3330	2770	2220	1660	1330	1330
	W	1340	1160	990	830	680	530	390	260	180	180
20	Q	5810	5230	4650	4070	3490	2910	2330	1740	1400	1400
	W	1220	1060	910	760	620	490	360	240	160	160

Heating

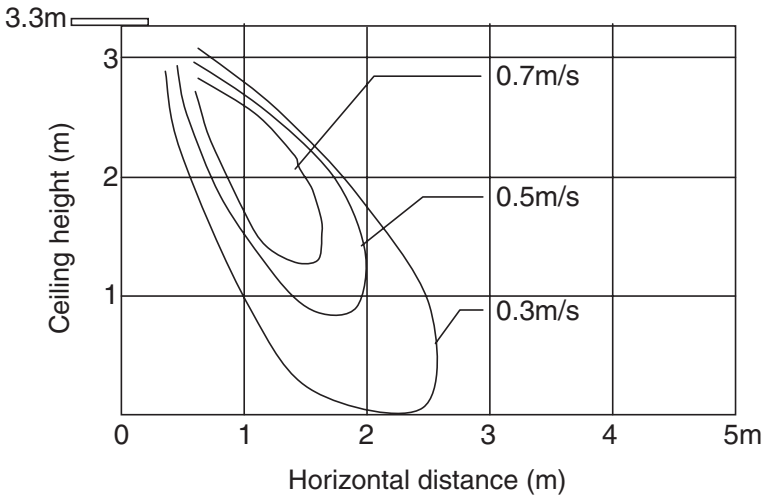
Outdoor temperature (°C)		Load (%)									
		100	90	80	70	60	50	40	30	20	10
15	Q	6750	6080	5400	4730	4050	3380	2700	2030	1350	1090
	W	1700	1480	1260	1050	860	680	530	370	240	190
10	Q	6130	5520	4910	4290	3680	3070	2450	1840	1230	990
	W	1610	1400	1190	990	820	650	500	360	230	180
7	Q	5600	5040	4480	3920	3360	2800	2240	1680	1120	900
	W	1540	1340	1140	950	780	620	480	340	220	170
5	Q	5220	4700	4180	3660	3130	2610	2090	1570	1040	840
	W	1490	1300	1100	920	760	600	470	330	210	160
2	Q	4680	4210	3750	3280	2810	2340	1870	1400	940	750
	W	1420	1240	1050	880	720	570	440	310	200	160
0	Q	3660	3290	2930	2560	2190	1830	1460	1100	730	590
	W	1260	1100	930	780	640	510	390	280	180	140
-5	Q	3660	3290	2930	2560	2190	1830	1460	1100	730	590
	W	1260	1100	930	780	640	510	390	280	180	140
-7	Q	3440	3090	2750	2410	2060	1720	1380	1030	690	550
	W	1220	1060	910	750	620	490	380	270	170	130
-10	Q	3150	2830	2520	2200	1890	1570	1260	940	630	510
	W	1170	1020	870	720	590	470	370	260	170	130
-15	Q	2650	2390	2120	1860	1590	1330	1060	800	530	430
	W	1110	960	820	680	560	440	340	240	160	120

2-3-6. Air throw distance chart

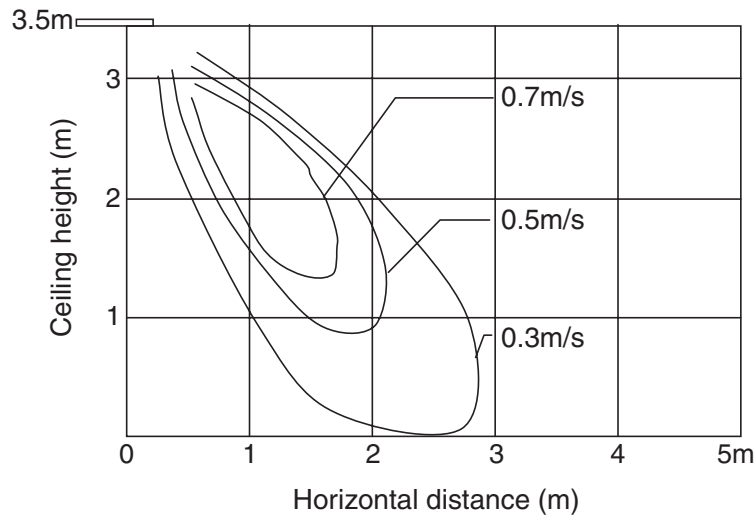
RAV-SM404MUT-E/RAV-SM454MUT-E



RAV-SM564MUT-E



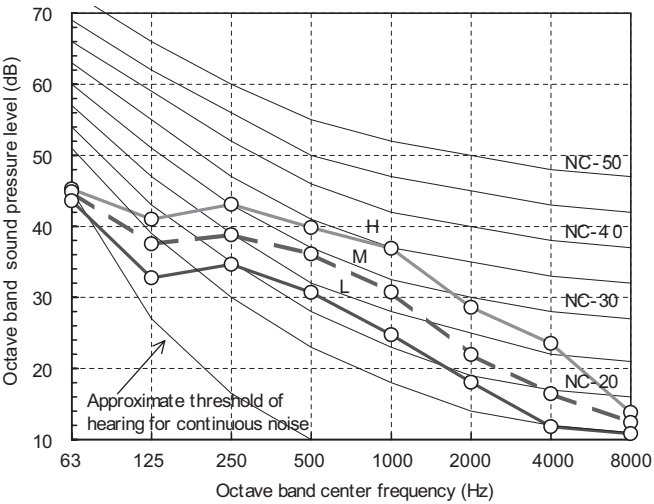
RAV-SM564MUT-E (High ceiling mode)



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

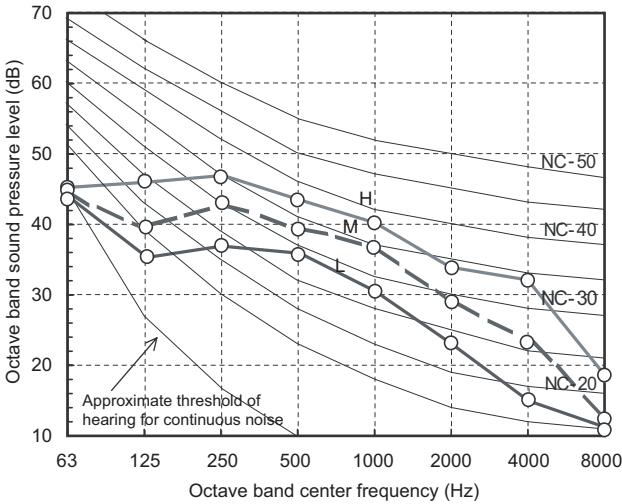
RAV-SM404MUT-E/RAV-SM454MUT-E

Fan tap	H	M	L
Sound pressure level (dB(A))	40	35	30



RAV-SM564MUT-E

Fan tap	H	M	L
Sound pressure level (dB(A))	43	39	34



2-4. Ducted Type (6 series)

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. Fan static characteristics

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

2-4-1. Specifications

<Single type>

Model	Indoor unit		RAV-SM	406BT-E	456BT-E	566BT-E	806BT-E	1106BT-E
	Outdoor unit		RAV-SP	404AT-E	454AT-E	564AT(Z)(ZG)-E	804AT(Z)(ZG)-E	1104AT(Z)(ZG)-E
Cooling capacity			(kW)	3.6 (1.5 – 4.0)	4.0 (1.5 – 4.5)	5.0 (1.2 – 5.6)	7.1 (1.9 – 8.0)	10.0 (2.6 – 12.0)
Heating capacity			(kW)	4.0 (1.5 – 5.0)	4.5 (1.5 – 5.6)	5.6 (0.9 – 7.4)	8.0 (1.3 – 10.6)	11.2 (2.4 – 13.0)
Power supply				1 phase 230V (220 – 240V) 50Hz				
Electrical characteristics	Cooling	Running current	(A)	5.40 – 4.95	6.01 – 5.50	7.23 – 6.62	9.65 – 8.84	12.30 – 11.20
		Power consumption	(kW)	1.07	1.23	1.56	2.06	2.64
		Power factor	(%)	90	93	98	97	98
		EER		3.38	3.24	3.21	3.45	3.79
		Energy efficiency class *		A	A	A	A	A
	Heating	Running current	(A)	5.13 – 4.70	6.06 – 5.55	7.18 – 6.58	10.30 – 9.49	12.90 – 11.80
		Power consumption	(kW)	1.04	1.24	1.55	2.21	2.77
		Power factor	(%)	92	93	98	97	98
		COP		3.84	3.63	3.61	3.62	4.04
		Energy efficiency class *		A	A	A	A	A
Maximum current		(A)	11.2	11.2	13.7	20.7	22.3	
Appearance	Main unit			Zinc hot dipping steel plate				
Outer dimension	Main unit	Height	(mm)	275	275	275	275	275
		Width	(mm)	700	700	700	1000	1400
		Depth	(mm)	750	750	750	750	750
Total weight	Main unit		(kg)	23	23	23	30	40
Heat exchanger				Finned tube				
Fan unit	Fan			Centrifugal fan				
	Standard air flow	H/M/L	(m³/min.)	13.3/10.5/8.0	13.3/10.5/8.0	13.3/10.5/8.0	20.0/15.5/12.0	35.0/27.5/21.0
	Motor		(W)	150	150	150	150	250
	External static pressure	Standard (Upper – Lower)	(Pa)	30 (120 – 30)	30 (120 – 30)	30 (120 – 30)	30 (120 – 30)	50 (120 – 30)
Air filter				Long life filter				
Controller (Sold separately)				RBC-AMT32E, AMS41E, AS21E2				
Connecting pipe		Gas side	(mm)	12.7	12.7	12.7	15.9	15.9
		Liquid side	(mm)	6.4	6.4	6.4	9.5	9.5
		Drain port	(mm)	VP25				
Sound pressure level		H/M/L	(dB•A)	33/29/25	33/29/25	33/29/25	34/30/26	40/36/33
Sound power level		H/M/L	(dB•A)	48/44/40	48/44/40	48/44/40	49/45/41	55/51/48

* : IEC standard

*1 : The cooling capacities and electrical characteristics are measured under the conditions specified by JIS B 8615 based on the reference piping. The reference piping consists of 5 m of main piping and 2.5 m of branch piping connected with 0 meter height.

*2 : The sound level are measured in an anechoic chamber in accordance with JIS B 8616. Normally, the values measured in the actual operating environment become larger than the indicated values due to the effects of external sound.

Note :

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

<Single type>/<Twin type>

Model	Indoor unit 1		RAV-SM	1406BT-E	406BT-E	566BT-E	806BT-E
	Indoor unit 2		RAV-SM	—	406BT-E	566BT-E	806BT-E
	Outdoor unit		RAV-SP	1404AT(Z)(ZG)-E	804AT(Z)(ZG)-E	1104AT(Z)(ZG)-E	1404AT(Z)(ZG)-E
Cooling capacity			(kW)	12.5 (2.6 – 14.0)	7.1 (1.9 – 8.0)	10.0 (2.6 – 12.0)	12.5 (2.6 – 14.0)
Heating capacity			(kW)	14.0 (2.4 – 16.5)	8.0 (1.3 – 10.6)	11.2 (2.4 – 13.0)	14.0 (2.4 – 16.5)
Indoor unit							
Power supply				1 phase 230V (220 – 240V) 50Hz			
Electrical characteristics	Cooling	Running current	(A)	17.70 – 16.20	9.65 – 8.84	12.30 – 11.20	17.70 – 16.20
		Power consumption	(kW)	3.83	2.06	2.64	3.83
		Power factor	(%)	98	97	98	98
		EER		3.26	3.45	3.79	3.26
		Energy efficiency class *		A	A	A	A
	Heating	Running current	(A)	17.00 – 15.50	10.30 – 9.49	12.90 – 11.80	17.00 – 15.50
		Power consumption	(kW)	3.67	2.21	2.77	3.67
		Power factor	(%)	98	97	98	98
		COP		3.81	3.62	4.04	3.81
		Energy efficiency class *		A	A	A	A
Maximum current		(A)	22.6	20.8	22.8	22.8	
Fan unit	Fan		Centrifugal fan				
	Standard air flow	H/M/L (m³/min.)	35.0/27.5/21.0	13.3/10.5/8.0	13.3/10.5/8.0	20.0/15.5/12.0	
	Motor		(W)	250	150	150	150
	External static pressure	Standard (Upper – Lower) (Pa)	50 (120 – 30)	30 (120 – 30)	30 (120 – 30)	30 (120 – 30)	
Sound pressure level		H/M/L (dB•A)	40/36/33	33/29/25	33/29/25	34/30/26	
Sound power level		H/M/L (dB•A)	55/51/48	48/44/40	48/44/40	49/45/41	
Outdoor unit							
Power supply				1 phase 230V (220 – 240V) 50Hz (Power exclusive to outdoor is required.)			
Refrigerant pipe	Standard length		(m)	7.5	7.5	7.5	7.5
	Max. total length		(m)	75.0	75.0	50.0	50.0
	Refrigerant charging amount (Charge-less up to 30m)			40g/m (31m to 50m)			
	Height difference	Outdoor lower	(m)	30	30	30	30
		Outdoor higher	(m)	30	30	30	30
Fan unit	Fan		Propeller fan				
	Standard air flow		(m³/min.)	103	50	101	103
	Motor		(W)	100+100	63	100+100	100+100
Connecting pipe	Gas side	Main	(mm)	15.9	15.9	15.9	15.9
		Sub	(mm)	—	12.7	12.7	15.9
	Liquid side	Main	(mm)	9.5	9.5	9.5	9.5
		Sub	(mm)	—	6.4	6.4	9.5
Sound pressure level		Cooling/Heating (dB•A)	51/52	48/49	49/50	51/52	
Sound power level		Cooling/Heating (dB•A)	68/69	64/65	66/67	68/69	

* : IEC standard

<Single type>

Model	Indoor unit	RAV-SM	406BT-E	456BT-E	566BT-E	806BT-E
	Outdoor unit	RAV-SP	404ATP-E	454ATP-E	564AT(J)P-E	804AT(J)P-E
Cooling capacity		(kW)	3.6 (1.5 – 4.0)	4.0 (1.5 – 4.5)	5.0 (1.2 – 5.6)	7.1 (1.9 – 8.0)
Heating capacity		(kW)	4.0 (1.5 – 5.0)	4.5 (1.5 – 5.6)	5.6 (0.9 – 7.4)	8.0 (1.3 – 10.6)
Power supply			1 phase 230V (220 – 240V) 50Hz			
Electrical characteristics	Cooling	Running current (A)	5.40 – 4.95	6.01 – 5.50	7.23 – 6.62	9.65 – 8.84
		Power consumption (kW)	1.07	1.23	1.56	2.06
		Power factor (%)	90	93	98	97
		EER	3.38	3.24	3.21	3.45
		Energy efficiency class *	A	A	A	A
	Heating	Running current (A)	5.13 – 4.70	6.06 – 5.55	7.18 – 6.58	10.30 – 9.49
		Power consumption (kW)	1.04	1.24	1.55	2.21
		Power factor (%)	92	93	98	97
		COP	3.84	3.63	3.61	3.62
		Energy efficiency class *	A	A	A	A
	Maximum current (A)		11.2	11.2	13.7	20.7
Appearance	Main unit		Zinc hot dipping steel plate			
Outer dimension	Main unit	Height (mm)	275	275	275	275
		Width (mm)	700	700	700	1000
		Depth (mm)	750	750	750	750
Total weight	Main unit	(kg)	23	23	23	30
Heat exchanger			Finned tube			
Fan unit	Fan		Centrifugal fan			
	Standard air flow	H/M/L (m³/min.)	13.3/10.5/8.0	13.3/10.5/8.0	13.3/10.5/8.0	20.0/15.5/12.0
	Motor	(W)	150	150	150	150
	External static pressure	Standard (Upper – Lower) (Pa)	30 (120 – 30)	30 (120 – 30)	30 (120 – 30)	30 (120 – 30)
Air filter			Long life filter			
Controller (Sold separately)			RBC-AMT32E, AMS41E, AS21E2			
Connecting pipe	Gas side	(mm)	12.7	12.7	12.7	15.9
	Liquid side	(mm)	6.4	6.4	6.4	9.5
	Drain port	(mm)	VP25			
Sound pressure level	H/M/L	(dB•A)	33/29/25	33/29/25	33/29/25	34/30/26
Sound power level	H/M/L	(dB•A)	48/44/40	48/44/40	48/44/40	49/45/41

* : IEC standard

*1 : The cooling capacities and electrical characteristics are measured under the conditions specified by JIS B 8615 based on the reference piping. The reference piping consists of 5 m of main piping and 2.5 m of branch piping connected with 0 meter height.

*2 : The sound level are measured in an anechoic chamber in accordance with JIS B 8616. Normally, the values measured in the actual operating environment become larger than the indicated values due to the effects of external sound.

Note :

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

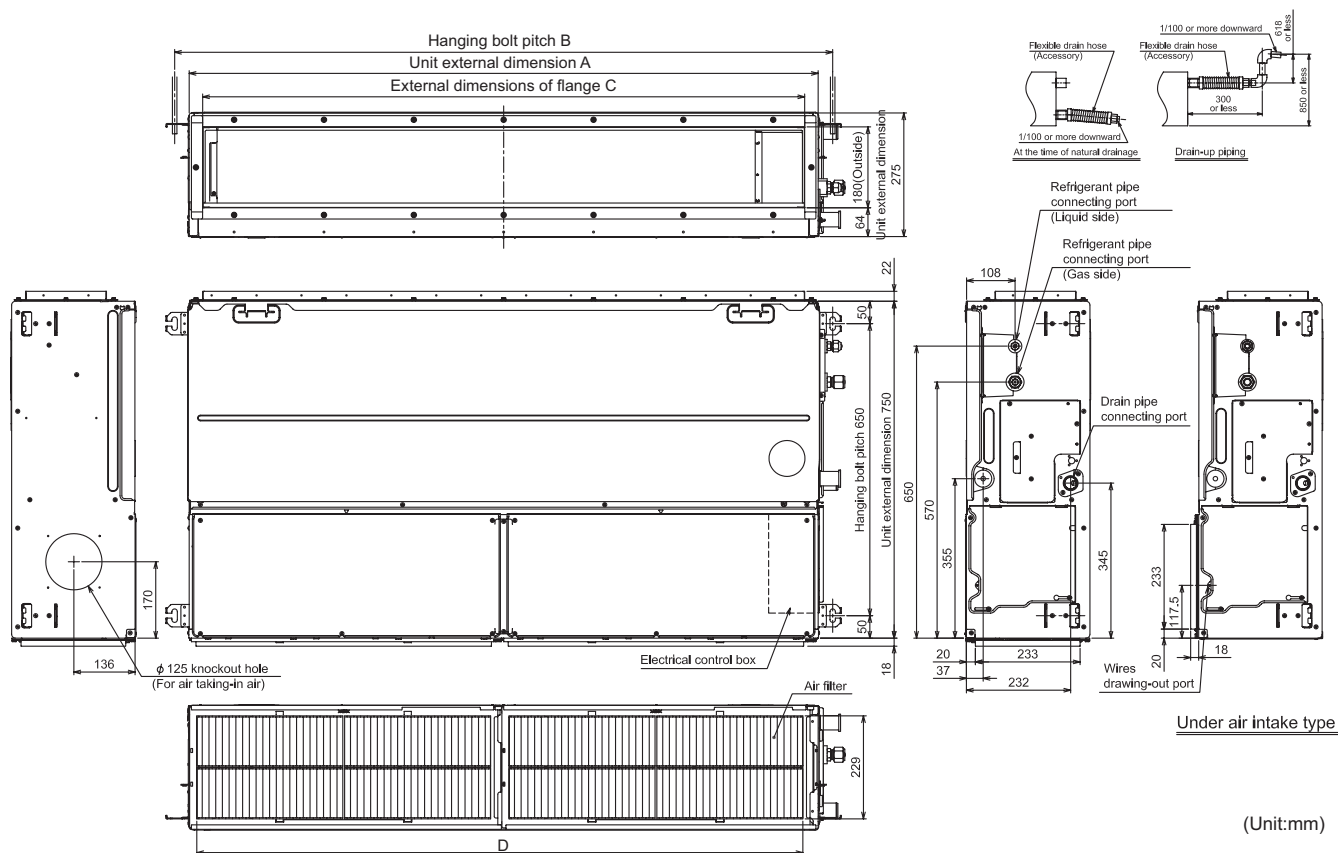
<Twin type>

Model	Indoor unit 1		RAV-SM	406BT-E
	Indoor unit 2		RAV-SM	406BT-E
	Outdoor unit		RAV-SP	804AT(J)P-E
Cooling capacity			(kW)	7.1 (1.9 – 8.0)
Heating capacity			(kW)	8.0 (1.3 – 10.6)
Indoor unit				
Power supply			1 phase 230V (220 – 240V) 50Hz	
Electrical characteristics	Cooling	Running current (A)		9.65 – 8.84
		Power consumption (kW)		2.06
		Power factor (%)		97
		EER		3.45
		Energy efficiency class *		A
	Heating	Running current (A)		10.30 – 9.49
		Power consumption (kW)		2.21
		Power factor (%)		97
		COP		3.62
		Energy efficiency class *		A
Maximum current (A)			20.8	
Fan unit	Fan		Centrifugal fan	
	Standard air flow	H/M/L (m³/min.)	13.3/10.5/8.0	
	Motor (W)		150	
	External static pressure	Standard (Upper – Lower) (Pa)	30 (120 – 30)	
Sound pressure level		H/M/L (dB•A)	33/29/25	
Sound power level		H/M/L (dB•A)	48/44/40	
Outdoor unit				
Power supply			1 phase 230V (220 – 240V) 50Hz (Power exclusive to outdoor is required.)	
Refrigerant pipe	Standard length (m)		7.5	
	Max. total length (m)		75.0	
	Refrigerant charging amount (Charge-less up to 30m)		40g/m (31m to 50m)	
	Height difference	Outdoor lower (m)	30	
		Outdoor higher (m)	30	
Fan unit	Fan		Propeller fan	
	Standard air flow (m³/min.)		50	
	Motor (W)		63	
Connecting pipe	Gas side	Main (mm)	15.9	
		Sub (mm)	12.7	
	Liquid side	Main (mm)	9.5	
		Sub (mm)	6.4	
Sound pressure level		Cooling/Heating (dB•A)	48/49	
Sound power level		Cooling/Heating (dB•A)	64/65	

* : IEC standard

2-4-2. Dimension

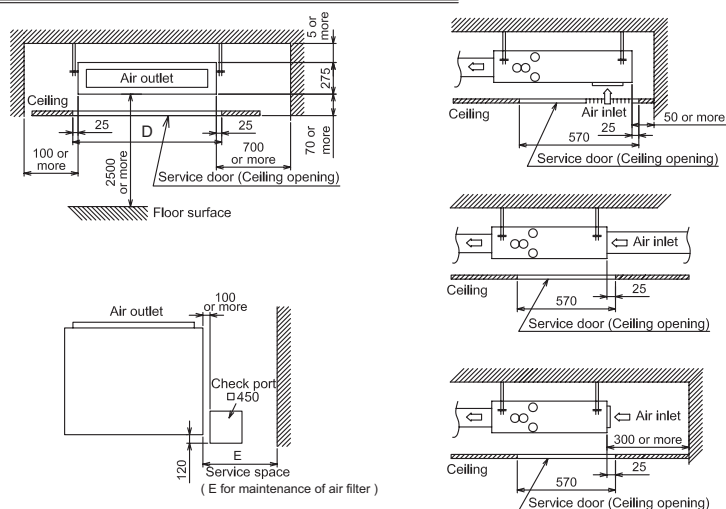
RAV-SM406BT-E, RAV-SM456BT-E, RAV-SM566BT-E, RAV-SM806BT-E, RAV-SM1106BT-E, RAV-SM1406BT-E



Dimension

	A	B	C	D
RAV-SM406BT-E RAV-SM456BT-E RAV-SM566BT-E	700	765	640	750
RAV-SM806BT-E	1000	1065	940	1050
RAV-SM1106BT-E RAV-SM1406BT-E	1400	1465	1340	1450

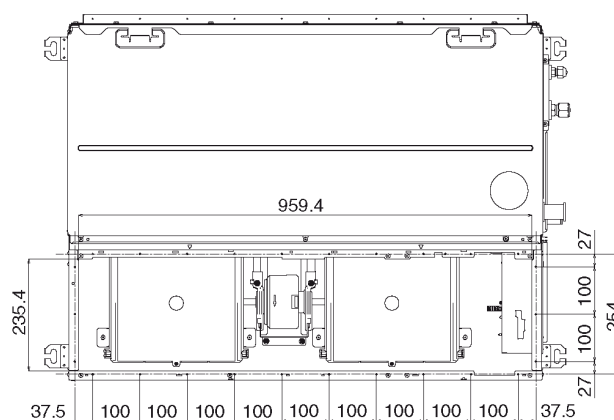
Space required for installation and servicing



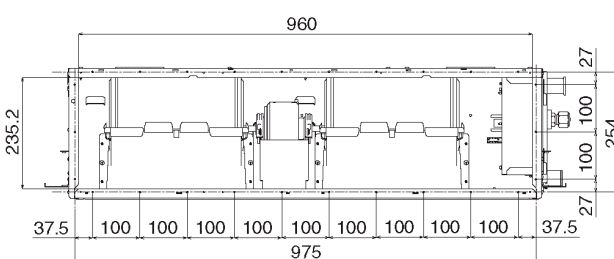
	E
RAV-SM406BT-E RAV-SM456BT-E RAV-SM566BT-E	700
RAV-SM806BT-E	500
RAV-SM1106BT-E RAV-SM1406BT-E	700

RAV-SM806BT-E

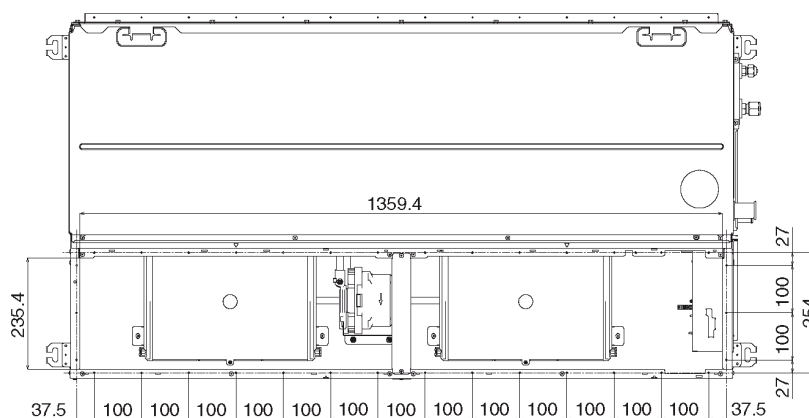
<Under air intake>



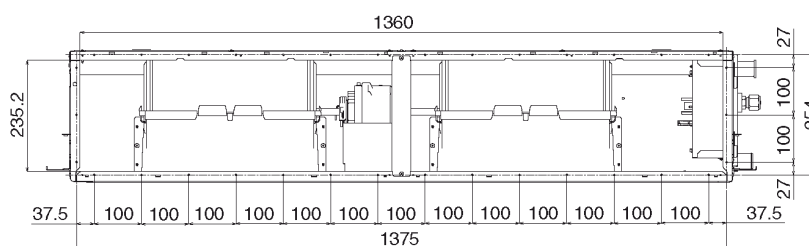
<Back air intake>

**RAV-SM1106BT-E, RAV-SM1406BT-E**

<Under air intake>



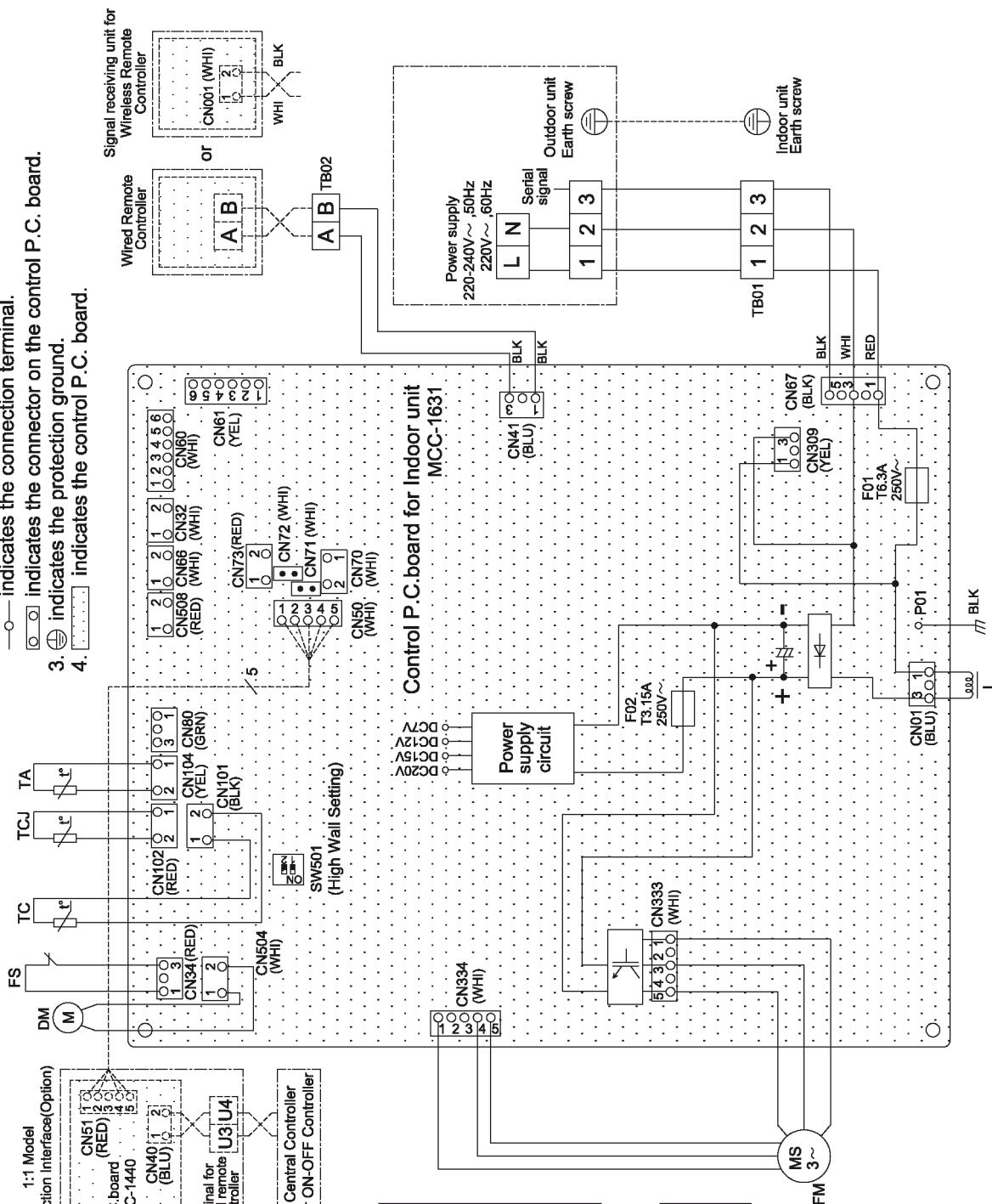
<Back air intake>



2-4-3. Wiring diagrams

RAV-SM406BT-E, RAV-SM456BT-E, RAV-SM566BT-E, RAV-SM806BT-E, RAV-SM1106BT-E, RAV-SM1406BT-E

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



Symbol	Parts name
CN**	Connector
DM	Drain pump Motor
F01,02	Fuse
FM	Fan Motor
FS	Float Switch
L	Reactor
TA	Indoor temp.sensor
TB01,TB02	Terminal Block
TC,TCJ	Temp.sensor

Color Indication

RED : RED BLU : BLUE
WHI : WHITE BLK : BLACK
YEL : YELLOW GRN : GREEN

2-4-4. Sensible capacity table

Super Digital Inverter 4 Series Sensible Heat Capacity : RAV-SM***BT-E

unit size	outdoor air temp. CDB	indoor air temp.																	
		14.0CWB 20.0CDB		15.0CWB 21.5CDB		16.0CWB 23.0CDB		17.0CWB 24.5CDB		18.0CWB 26.0CDB		19.0CWB 27.0CDB		20.0CWB 28.0CDB		22.0CWB 30.0CDB		24.0CWB 32.0CDB	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
406	10.0	3.4	2.9	3.6	3.1	3.7	3.2	3.9	3.3	4.0	3.4	4.1	3.6	4.2	3.7	4.5	3.9	4.7	4.0
	12.0	3.4	2.9	3.5	3.1	3.7	3.2	3.8	3.3	4.0	3.4	4.1	3.6	4.2	3.7	4.5	3.8	4.7	4.0
	14.0	3.3	2.9	3.5	3.0	3.7	3.2	3.8	3.3	3.9	3.4	4.1	3.4	4.2	3.6	4.4	3.8	4.6	4.0
	16.0	3.3	2.9	3.5	3.0	3.7	3.1	3.8	3.2	3.9	3.3	4.0	3.4	4.2	3.6	4.4	3.8	4.6	3.9
	18.0	3.3	2.9	3.5	3.0	3.6	3.1	3.8	3.2	3.9	3.3	4.0	3.4	4.1	3.6	4.4	3.8	4.6	3.9
	20.0	3.3	2.8	3.4	3.0	3.6	3.1	3.7	3.2	3.9	3.3	4.0	3.4	4.1	3.6	4.3	3.7	4.5	3.9
	21.0	3.2	2.8	3.4	3.0	3.6	3.1	3.7	3.2	3.8	3.3	4.0	3.4	4.1	3.6	4.3	3.7	4.5	3.9
	23.0	3.2	2.8	3.4	2.9	3.5	3.1	3.7	3.1	3.8	3.3	3.9	3.3	4.0	3.4	4.3	3.7	4.5	3.8
	25.0	3.2	2.8	3.3	2.9	3.5	3.0	3.6	3.1	3.8	3.2	3.9	3.3	4.0	3.4	4.2	3.7	4.4	3.8
	27.0	3.1	2.8	3.3	2.9	3.5	3.0	3.6	3.1	3.7	3.2	3.8	3.3	3.9	3.4	4.2	3.6	4.4	3.8
	29.0	3.1	2.6	3.0	2.8	3.4	3.0	3.5	3.0	3.7	3.1	3.8	3.2	3.9	3.3	4.1	3.6	4.3	3.7
	31.0	3.1	2.6	3.2	2.8	3.4	2.9	3.5	3.0	3.6	3.1	3.7	3.2	3.8	3.3	4.1	3.4	4.2	3.7
	33.0	3.0	2.6	3.2	2.8	3.3	2.9	3.4	2.9	3.6	3.1	3.7	3.1	3.8	3.2	4.0	3.4	4.2	3.6
	35.0	3.0	2.5	3.1	2.6	3.3	2.9	3.4	2.9	3.5	3.0	3.6	3.1	3.7	3.2	3.9	3.3	4.1	3.6
	37.0	2.9	2.5	3.1	2.6	3.2	2.8	3.3	2.9	3.4	3.0	3.5	3.0	3.6	3.1	3.8	3.3	4.0	3.4
	39.0	2.8	2.4	3.0	2.5	3.1	2.8	3.2	2.8	3.4	2.9	3.5	3.0	3.6	3.1	3.8	3.2	3.9	3.4

unit size	outdoor air temp. CDB	indoor air temp.																	
		14.0CWB 20.0CDB		15.0CWB 21.5CDB		16.0CWB 23.0CDB		17.0CWB 24.5CDB		18.0CWB 26.0CDB		19.0CWB 27.0CDB		20.0CWB 28.0CDB		22.0CWB 30.0CDB		24.0CWB 32.0CDB	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
456	10.0	3.8	3.1	4.0	3.3	4.1	3.4	4.3	3.5	4.4	3.6	4.6	3.8	4.7	3.9	5.0	4.1	5.2	4.3
	12.0	3.7	3.1	3.9	3.2	4.1	3.4	4.3	3.5	4.4	3.6	4.5	3.8	4.7	3.9	4.9	4.1	5.2	4.2
	14.0	3.7	3.1	3.9	3.2	4.1	3.4	4.2	3.5	4.4	3.6	4.5	3.4	4.6	3.9	4.9	4.1	5.1	4.2
	16.0	3.7	3.1	3.9	3.2	4.1	3.3	4.2	3.4	4.4	3.5	4.5	3.6	4.6	3.8	4.9	4.0	5.1	4.2
	18.0	3.7	3.0	3.8	3.2	4.0	3.3	4.2	3.4	4.3	3.5	4.4	3.6	4.6	3.8	4.8	4.0	5.1	4.2
	20.0	3.6	3.0	3.8	3.2	4.0	3.3	4.1	3.4	4.3	3.5	4.4	3.6	4.5	3.8	4.8	4.0	5.0	4.1
	21.0	3.6	3.0	3.8	3.1	4.0	3.3	4.1	3.4	4.3	3.5	4.4	3.6	4.5	3.8	4.8	4.0	5.0	4.1
	23.0	3.6	3.0	3.8	3.1	3.9	3.2	4.1	3.3	4.2	3.4	4.3	3.5	4.5	3.6	4.7	3.9	5.0	4.1
	25.0	3.5	3.0	3.7	3.1	3.9	3.2	4.0	3.3	4.2	3.4	4.3	3.5	4.4	3.6	4.7	3.9	4.9	4.0
	27.0	3.5	2.8	3.7	3.1	3.9	3.2	4.0	3.3	4.1	3.4	4.2	3.5	4.4	3.6	4.6	3.8	4.8	4.0
	29.0	3.4	2.8	3.6	3.0	3.8	3.1	3.9	3.2	4.1	3.3	4.2	3.4	4.3	3.5	4.6	3.8	4.8	3.9
	31.0	3.4	2.8	3.6	3.0	3.7	3.1	3.9	3.2	4.0	3.3	4.1	3.4	4.3	3.5	4.5	3.6	4.7	3.9
	33.0	3.3	2.7	3.5	2.8	3.7	3.1	3.8	3.2	4.0	3.3	4.1	3.3	4.2	3.4	4.4	3.6	4.6	3.8
	35.0	3.3	2.7	3.5	2.8	3.6	3.0	3.8	3.1	3.9	3.2	4.0	3.3	4.1	3.4	4.4	3.5	4.6	3.8
	37.0	3.2	2.6	3.4	2.7	3.6	3.0	3.7	3.1	3.8	3.2	3.9	3.2	4.0	3.3	4.3	3.5	4.5	3.6
	39.0	3.2	2.6	3.3	2.7	3.5	2.8	3.6	3.0	3.7	3.1	3.8	3.2	4.0	3.3	4.2	3.4	4.4	3.6

unit size	outdoor air temp. CDB	indoor air temp.																	
		14.0CWB 20.0CDB		15.0CWB 21.5CDB		16.0CWB 23.0CDB		17.0CWB 24.5CDB		18.0CWB 26.0CDB		19.0CWB 27.0CDB		20.0CWB 28.0CDB		22.0CWB 30.0CDB		24.0CWB 32.0CDB	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
566	10.0	4.7	3.6	4.9	3.8	5.2	3.9	5.4	4.1	5.6	4.2	5.7	4.3	5.9	4.5	6.2	4.7	6.5	4.9
	12.0	4.7	3.6	4.9	3.7	5.2	3.9	5.3	4.0	5.5	4.2	5.7	4.3	5.8	4.4	6.2	4.7	6.5	4.9
	14.0	4.6	3.5	4.9	3.7	5.1	3.9	5.3	4.0	5.5	4.2	5.6	4.3	5.8	4.4	6.1	4.7	6.4	4.9
	16.0	4.6	3.5	4.8	3.7	5.1	3.9	5.3	4.0	5.4	4.1	5.6	4.2	5.8	4.4	6.1	4.6	6.4	4.8
	18.0	4.6	3.5	4.8	3.7	5.0	3.8	5.2	4.0	5.4	4.1	5.6	4.2	5.7	4.3	6.1	4.6	6.3	4.8
	20.0	4.5	3.5	4.8	3.6	5.0	3.8	5.2	3.9	5.4	4.1	5.5	4.2	5.7	4.3	6.0	4.5	6.3	4.7
	21.0	4.5	3.4	4.7	3.6	5.0	3.8	5.2	3.9	5.3	4.0	5.5	4.2	5.6	4.3	6.0	4.5	6.3	4.7
	23.0	4.5	3.4	4.7	3.6	4.9	3.7	5.1	3.9	5.3	4.0	5.4	4.1	5.6	4.2	5.9	4.5	6.2	4.7
	25.0	4.4	3.4	4.6	3.5	4.9	3.7	5.0	3.8	5.2	4.0	5.4	4.1	5.5	4.2	5.9	4.4	6.1	4.6
	27.0	4.4	3.3	4.6	3.5	4.8	3.7	5.0	3.8	5.2	3.9	5.3	4.0	5.5	4.1	5.8	4.4	6.0	4.6
	29.0	4.3	3.3	4.5	3.5	4.8	3.6	4.9	3.7	5.1	3.9	5.2	4.0	5.4	4.1	5.7	4.3	6.0	4.5
	31.0	4.2	3.2	4.5	3.4	4.7	3.6	4.9	3.7	5.0	3.8	5.2	3.9	5.3	4.0	5.6	4.3	5.9	4.5
	33.0	4.2	3.2	4.4	3.4	4.6	3.5	4.8	3.6	4.9	3.8	5.1	3.9	5.2	4.0	5.5	4.2	5.8	4.4
	35.0	4.1	3.1	4.3	3.3	4.5	3.5	4.7	3.6	4.9	3.7	5.0	3.8	5.1	3.9	5.4	4.1	5.7	4.3
	37.0	4.0	3.1	4.2	3.2	4.4	3.4	4.6	3.5	4.8	3.6	4.9	3.7	5.0	3.8	5.3	4.1	5.6	4.2
	39.0	3.9	3.0	4.2	3.2	4.4	3.3	4.5	3.4	4.7	3.6	4.8	3.7	4.9	3.8	5.2	4.0	5.5	4.2

unit size	outdoor air temp. CDB	indoor air temp.																	
		14.0CWB 20.0CDB		15.0CWB 21.5CDB		16.0CWB 23.0CDB		17.0CWB 24.5CDB		18.0CWB 26.0CDB		19.0CWB 27.0CDB		20.0CWB 28.0CDB		22.0CWB 30.0CDB		24.0CWB 32.0CDB	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
806	10.0	6.7	5.1	7.0	5.3	7.4	5.6	7.6	5.8	7.9	6.0	8.1	6.2	8.3	6.3	8.8	6.7	9.2	7.0
	12.0	6.6	5.0	7.0	5.3	7.3	5.6	7.6	5.8	7.8	6.0	8.1	6.1	8.3	6.3	8.8	6.7	9.2	7.0
	14.0	6.6	5.0	6.9	5.3	7.3	5.5	7.5	5.7	7.8	5.9	8.0	6.1	8.2	6.3	8.7	6.6	9.1	6.9
	16.0	6.5	5.0	6.9	5.2	7.2	5.5	7.5	5.7	7.7	5.9	8.0	6.1	8.2	6.2	8.7	6.6	9.1	6.9
	18.0	6.5	4.9	6.8	5.2	7.2	5.4	7.4	5.6	7.7	5.8	7.9	6.0	8.1	6.2	8.6	6.5	9.0	6.8
	20.0	6.4	4.9	6.8	5.1	7.1	5.4	7.4	5.6	7.6	5.8	7.8	6.0	8.1	6.1	8.5	6.5	8.9	6.8
	21.0	6.4	4.9	6.7	5.1	7.1	5.4	7.3	5.6	7.6	5.8	7.8	5.9	8.0	6.1	8.5	6.5	8.9	6.8
	23.0	6.3	4.8	6.7	5.1	7.0	5.3	7.2	5.5	7.5	5.7	7.7	5.9	7.9	6.0	8.4	6.4	8.8	6.7
	25.0	6.3	4.8	6.6	5.0	6.9	5.3	7.2	5.5	7.4	5.6	7.6	5.8	7.9	6.0	8.3	6.3	8.7	6.6
	27.0	6.2	4.7	6.5	5.0	6.8	5.2	7.1	5.4	7.3	5.6	7.5	5.7	7.8	5.9	8.2	6.2	8.6	6.5
	29.0	6.1	4.6	6.4	4.9	6.7	5.1	7.0	5.3	7.2	5.5	7.4	5.7	7.7	5.8	8.1	6.2	8.5	6.4
	31.0	6.0	4.6	6.3	4.8	6.7	5.1	6.9	5.2	7.1	5.4	7.3	5.6	7.5	5.7	8.0	6.1	8.4	6.4
	33.0	5.9	4.5	6.2	4.7	6.5	5.0	6.8	5.2	7.0	5.3	7.2	5.5	7.4	5.6	7.9	6.0	8.2	6.3
	35.0	5.8	4.4	6.1	4.7	6.4	4.9	6.7	5.1	6.9	5.2	7.1	5.4	7.3	5.6	7.7	5.9	8.1	6.2
	37.0	5.7	4.4	6.0	4.6	6.3	4.8	6.5	5.0	6.8	5.1	7.0	5.3	7.2	5.4	7.6	5.8	7.9	6.0
39.0	5.6	4.3	5.9	4.5	6.2	4.7	6.4	4.9	6.6	5.0	6.8	5.2	7.0	5.3	7.4	5.7	7.8	5.9	

Super Digital Inverter 4 Series Sensible Heat Capacity : RAV-SM***BT-E

unit size	outdoor air temp. CDB	indoor air temp.																	
		14.0CWB 20.0CDB		15.0CWB 21.5CDB		16.0CWB 23.0CDB		17.0CWB 24.5CDB		18.0CWB 26.0CDB		19.0CWB 27.0CDB		20.0CWB 28.0CDB		22.0CWB 30.0CDB		24.0CWB 32.0CDB	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
1106	10.0	9.4	8.3	9.9	8.6	10.4	8.9	10.8	9.1	11.1	9.4	11.4	9.4	11.8	9.4	12.5	9.2	13.0	9.0
	12.0	9.3	8.2	9.8	8.5	10.3	8.8	10.7	9.1	11.0	9.4	11.4	9.4	11.7	9.4	12.4	9.2	12.9	9.0
	14.0	9.3	8.2	9.8	8.5	10.2	8.8	10.6	9.0	11.0	9.2	11.3	9.2	11.6	9.2	12.3	9.1	12.9	9.0
	16.0	9.2	8.1	9.7	8.4	10.2	8.7	10.6	9.0	10.9	9.2	11.2	9.2	11.5	9.1	12.2	9.1	12.8	8.9
	18.0	9.1	8.1	9.6	8.3	10.1	8.5	10.5	8.8	10.8	9.1	11.1	9.1	11.4	9.1	12.1	9.0	12.7	8.8
	20.0	9.1	8.0	9.6	8.3	10.0	8.5	10.4	8.8	10.7	9.1	11.0	9.0	11.3	9.0	12.0	8.9	12.6	8.8
	21.0	9.0	8.0	9.5	8.3	10.0	8.5	10.4	8.8	10.7	9.0	11.0	9.0	11.3	9.0	12.0	8.9	12.5	8.7
	23.0	8.9	7.9	9.4	8.1	9.9	8.4	10.3	8.7	10.6	8.9	10.9	8.9	11.2	8.9	11.8	8.8	12.4	8.7
	25.0	8.8	7.9	9.3	8.1	9.8	8.3	10.1	8.6	10.4	8.9	10.8	8.8	11.1	8.8	11.7	8.7	12.2	8.5
	27.0	8.7	7.7	9.2	8.0	9.6	8.2	10.0	8.5	10.3	8.8	10.6	8.7	10.9	8.7	11.6	8.5	12.1	8.4
	29.0	8.6	7.6	9.1	7.9	9.5	8.1	9.9	8.4	10.2	8.7	10.5	8.5	10.8	8.5	11.4	8.4	11.9	8.3
	31.0	8.5	7.5	9.0	7.7	9.4	8.0	9.7	8.3	10.0	8.5	10.3	8.4	10.6	8.4	11.3	8.3	11.8	8.2
	33.0	8.4	7.4	8.8	7.6	9.2	7.9	9.6	8.1	9.9	8.3	10.2	8.3	10.5	8.3	11.1	8.2	11.6	8.1
	35.0	8.2	7.3	8.7	7.5	9.1	7.7	9.4	8.0	9.7	8.2	10.0	8.2	10.3	8.2	10.9	8.1	11.4	8.0
	37.0	8.1	7.2	8.5	7.4	8.9	7.6	9.2	7.9	9.5	8.1	9.8	8.1	10.1	8.1	10.7	8.0	11.2	7.7
	39.0	7.9	6.9	8.3	7.2	8.7	7.4	9.0	7.6	9.3	7.9	9.6	7.9	9.9	7.9	10.5	7.7	10.9	6.9

unit size	outdoor air temp. CDB	indoor air temp.																	
		14.0CWB 20.0CDB		15.0CWB 21.5CDB		16.0CWB 23.0CDB		17.0CWB 24.5CDB		18.0CWB 26.0CDB		19.0CWB 27.0CDB		20.0CWB 28.0CDB		22.0CWB 30.0CDB		24.0CWB 32.0CDB	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
1406	10.0	11.7	9.4	12.4	9.7	13.0	10.1	13.5	10.4	13.9	10.7	14.3	10.6	14.7	10.6	15.6	10.5	16.3	10.3
	12.0	11.7	9.4	12.3	9.7	12.9	9.9	13.4	10.3	13.8	10.6	14.2	10.6	14.6	10.6	15.5	10.4	16.2	10.2
	14.0	11.6	9.3	12.2	9.6	12.8	9.9	13.3	10.2	13.7	10.5	14.1	10.5	14.5	10.5	15.4	10.4	16.1	10.2
	16.0	11.5	9.2	12.1	9.5	12.7	9.8	13.2	10.2	13.6	10.5	14.0	10.4	14.4	10.4	15.3	10.3	16.0	10.1
	18.0	11.4	9.2	12.0	9.5	12.6	9.7	13.1	10.1	13.5	10.4	13.9	10.4	14.3	10.4	15.1	10.2	15.8	9.9
	20.0	11.3	9.1	11.9	9.4	12.5	9.6	13.0	9.9	13.4	10.3	13.8	10.3	14.2	10.3	15.0	10.2	15.7	9.9
	21.0	11.3	9.1	11.9	9.4	12.4	9.6	12.9	9.9	13.3	10.3	13.7	10.2	14.1	10.2	15.0	10.1	15.6	9.8
	23.0	11.2	9.0	11.8	9.2	12.3	9.5	12.8	9.8	13.2	10.2	13.6	10.1	14.0	10.1	14.8	9.9	15.5	9.7
	25.0	11.0	8.9	11.6	9.1	12.2	9.4	12.7	9.7	13.1	10.1	13.4	9.9	13.8	9.9	14.6	9.8	15.3	9.6
	27.0	10.9	8.8	11.5	9.0	12.0	9.3	12.5	9.6	12.9	9.9	13.3	9.8	13.7	9.8	14.5	9.7	15.1	9.5
	29.0	10.8	8.7	11.4	8.9	11.9	9.2	12.3	9.5	12.7	9.7	13.1	9.7	13.5	9.7	14.3	9.6	14.9	9.4
	31.0	10.6	8.5	11.2	8.8	11.7	9.1	12.1	9.4	12.5	9.6	12.9	9.6	13.3	9.6	14.1	9.5	14.7	9.3
	33.0	10.4	8.3	11.0	8.6	11.5	8.9	11.9	9.2	12.3	9.5	12.7	9.4	13.1	9.4	13.8	9.3	14.5	9.2
	35.0	10.3	8.2	10.8	8.5	11.3	8.8	11.7	9.0	12.1	9.3	12.5	9.3	12.9	9.3	13.6	9.2	14.2	9.0
	37.0	10.1	8.1	10.6	8.4	11.1	8.7	11.5	8.9	11.9	9.2	12.3	9.1	12.6	9.1	13.4	9.0	14.0	8.9
	39.0	9.9	7.9	10.4	8.2	10.9	8.4	11.3	8.7	11.7	9.0	12.0	9.0	12.4	9.0	13.1	8.9	13.7	8.7

TC: Total Capacity [kW]

SHC: Sensible Heat Capacity [kW]

2-4-5. Part load performance

Combination

Indoor unit : RAV-SM406BT-E

Outdoor unit : RAV-SP404AT-E, RAV-SP404ATP-E

	Cooling		Heating	
	Capacity Q (W)	Power consumption W (W)	Capacity Q (W)	Power consumption W (W)
MINIMUM	1500	360	1500	360
RATING	3600	1070	4000	1040

Q: Capacity in W

W: Power Consumption in W

Cooling

Outdoor temperature (°C)		Load (%)									
		100	90	80	70	60	50	40	30	20	10
40	Q	3420	3080	2740	2400	2050	1710	1430	1430	1430	1430
	W	1150	990	840	710	580	470	390	390	390	390
35	Q	3600	3240	2880	2520	2160	1800	1500	1500	1500	1500
	W	1070	920	780	650	540	430	360	360	360	360
30	Q	3750	3370	3000	2620	2250	1870	1560	1560	1560	1560
	W	990	850	720	600	500	390	330	330	330	330
25	Q	3870	3480	3100	2710	2320	1940	1610	1610	1610	1610
	W	910	790	660	560	460	370	310	310	310	310
20	Q	3970	3570	3180	2780	2380	1990	1650	1650	1650	1650
	W	850	730	620	520	430	340	290	290	290	290

Heating

Outdoor temperature (°C)		Load (%)									
		100	90	80	70	60	50	40	30	20	10
15	Q	4820	4340	3860	3380	2890	2410	1930	1810	1810	1810
	W	1140	1020	890	770	640	530	430	400	400	400
10	Q	4380	3940	3500	3070	2630	2190	1750	1640	1640	1640
	W	1090	970	850	730	610	500	410	380	380	380
7	Q	4000	3600	3200	2800	2400	2000	1600	1500	1500	1500
	W	1040	930	810	700	580	480	380	360	360	360
5	Q	3730	3360	2990	2610	2240	1870	1490	1400	1400	1400
	W	1010	890	790	680	560	470	370	350	350	350
2	Q	3340	3010	2680	2340	2010	1670	1340	1250	1250	1250
	W	960	850	750	640	540	440	350	330	330	330
0	Q	2610	2350	2090	1830	1570	1310	1040	980	980	980
	W	850	760	670	570	480	400	310	300	300	300
-5	Q	2610	2350	2090	1830	1570	1310	1040	980	980	980
	W	850	760	670	570	480	400	310	300	300	300
-7	Q	2460	2210	1960	1720	1470	1230	980	920	920	920
	W	820	740	640	550	460	380	300	280	280	280
-10	Q	2250	2020	1800	1570	1350	1120	900	840	840	840
	W	790	710	610	530	450	360	290	270	270	270
-15	Q	1900	1710	1520	1330	1140	950	760	710	710	710
	W	750	670	580	500	420	340	280	260	260	260

Combination

Indoor unit : RAV-SM456BT-E

Outdoor unit : RAV-SP454AT-E, RAV-SP454ATP-E

	Cooling		Heating	
	Capacity Q (W)	Power consumption W (W)	Capacity Q (W)	Power consumption W (W)
MINIMUM	1500	360	1500	360
RATING	4000	1230	4500	1240

Q: Capacity in W
W: Power Consumption in W

Cooling

Outdoor temperature (°C)		Load (%)									
		100	90	80	70	60	50	40	30	20	10
40	Q	3800	3420	3040	2660	2280	1900	1520	1430	1430	1430
	W	1320	1100	900	740	580	460	420	390	390	390
35	Q	4000	3600	3200	2800	2400	2000	1600	1500	1500	1500
	W	1230	1020	840	680	550	430	390	360	360	360
30	Q	4160	3750	3330	2910	2500	2080	1670	1560	1560	1560
	W	1140	940	780	640	500	400	360	330	330	330
25	Q	4300	3870	3440	3010	2580	2150	1720	1610	1610	1610
	W	1060	870	720	580	470	370	340	320	320	320
20	Q	4410	3970	3530	3090	2650	2210	1760	1650	1650	1650
	W	970	810	670	540	440	340	310	290	290	290

Heating

Outdoor temperature (°C)		Load (%)									
		100	90	80	70	60	50	40	30	20	10
15	Q	5430	4880	4340	3800	3260	2710	2170	1810	1810	1810
	W	1370	1200	1050	890	740	600	470	400	400	400
10	Q	4930	4430	3940	3450	2960	2460	1970	1640	1640	1640
	W	1290	1140	990	840	710	570	450	380	380	380
7	Q	4500	4050	3600	3150	2700	2250	1800	1500	1500	1500
	W	1240	1090	950	810	680	550	430	360	360	360
5	Q	4200	3780	3360	2940	2520	2100	1680	1400	1400	1400
	W	1200	1060	920	790	660	530	420	350	350	350
2	Q	3760	3390	3010	2630	2260	1880	1500	1250	1250	1250
	W	1140	1000	870	740	630	510	400	330	330	330
0	Q	2940	2640	2350	2060	1760	1470	1180	980	980	980
	W	1010	890	780	660	560	450	360	290	290	290
-5	Q	2940	2640	2350	2060	1760	1470	1180	980	980	980
	W	1010	890	780	660	560	450	360	290	290	290
-7	Q	2760	2490	2210	1930	1660	1380	1110	920	920	920
	W	980	860	750	650	540	430	350	280	280	280
-10	Q	2530	2280	2020	1770	1520	1270	1010	840	840	840
	W	950	830	720	610	520	420	320	280	280	280
-15	Q	2130	1920	1710	1490	1280	1070	850	710	710	710
	W	890	780	680	580	490	400	310	260	260	260

Combination

Indoor unit : RAV-SM566BT-E

Outdoor unit : RAV-SP564AT-E, RAV-SP564ATP-E

	Cooling		Heating	
	Capacity Q (W)	Power consumption W (W)	Capacity Q (W)	Power consumption W (W)
MINIMUM	1200	210	900	170
RATING	5000	1560	5600	1550

Q: Capacity in W
W: Power Consumption in W

Cooling

Outdoor temperature (°C)		Load (%)									
		100	90	80	70	60	50	40	30	20	10
40	Q	4730	4260	3780	3310	2840	2360	1890	1420	1140	1140
	W	1670	1500	1330	1160	970	770	570	360	230	230
35	Q	5000	4500	4000	3500	3000	2500	2000	1500	1200	1200
	W	1560	1400	1240	1080	900	720	530	330	210	210
30	Q	5270	4740	4220	3690	3160	2640	2110	1580	1270	1270
	W	1450	1300	1150	1000	840	670	490	310	190	190
25	Q	5540	4990	4430	3880	3330	2770	2220	1660	1330	1330
	W	1340	1200	1070	920	770	620	450	280	180	180
20	Q	5810	5230	4650	4070	3490	2910	2330	1740	1400	1400
	W	1220	1090	970	850	710	570	420	260	160	160

Heating

Outdoor temperature (°C)		Load (%)									
		100	90	80	70	60	50	40	30	20	10
15	Q	6750	6080	5400	4730	4050	3380	2700	2030	1350	1090
	W	1710	1500	1300	1110	940	750	570	410	250	190
10	Q	6130	5520	4910	4290	3680	3070	2450	1840	1230	990
	W	1620	1420	1230	1060	890	710	540	390	240	180
7	Q	5600	5040	4480	3920	3360	2800	2240	1680	1120	900
	W	1550	1360	1180	1010	850	680	520	370	230	170
5	Q	5220	4700	4180	3660	3130	2610	2090	1570	1040	840
	W	1500	1320	1140	980	820	660	500	360	220	160
2	Q	4680	4210	3750	3280	2810	2340	1870	1400	940	750
	W	1430	1250	1090	930	780	630	480	340	210	160
0	Q	3660	3290	2930	2560	2190	1830	1460	1100	730	590
	W	1270	1110	970	830	700	560	430	300	190	140
-5	Q	3660	3290	2930	2560	2190	1830	1460	1100	730	590
	W	1270	1110	970	830	700	560	430	300	190	140
-7	Q	3440	3090	2750	2410	2060	1720	1380	1030	690	550
	W	1230	1080	940	800	670	540	410	290	180	130
-10	Q	3150	2830	2520	2200	1890	1570	1260	940	630	510
	W	1180	1030	900	770	650	520	400	280	180	130
-15	Q	2650	2390	2120	1860	1590	1330	1060	800	530	430
	W	1110	980	850	720	610	490	370	270	170	120

Combination

Indoor unit : RAV-SM806BT-E

Outdoor unit : RAV-SP804AT-E, RAV-SP804ATP-E

	Cooling		Heating	
	Capacity Q (W)	Power consumption W (W)	Capacity Q (W)	Power consumption W (W)
MINIMUM	1900	300	1300	270
RATING	7100	2060	8000	2210

Q: Capacity in W
W: Power Consumption in W

Cooling

Outdoor temperature (°C)		Load (%)									
		100	90	80	70	60	50	40	30	20	10
40	Q	6720	6040	5370	4700	4030	3360	2690	2010	1800	1800
	W	2210	1870	1570	1280	1020	770	550	350	320	320
35	Q	7100	6390	5680	4970	4260	3550	2840	2130	1900	1900
	W	2060	1750	1460	1190	950	720	520	330	300	300
30	Q	7480	6740	5990	5240	4490	3740	2990	2250	2000	2000
	W	1910	1620	1350	1110	880	670	480	310	280	280
25	Q	7870	7080	6300	5510	4720	3930	3150	2360	2110	2110
	W	1760	1500	1250	1030	810	620	450	290	260	260
20	Q	8250	7430	6600	5780	4950	4130	3300	2480	2110	2210
	W	1610	1370	1150	930	750	570	410	260	240	240

Heating

Outdoor temperature (°C)		Load (%)									
		100	90	80	70	60	50	40	30	20	10
15	Q	9650	8680	7720	6750	5790	4820	3860	2890	1930	1570
	W	2440	2150	1860	1600	1330	1080	840	610	390	370
10	Q	8760	7880	7010	6130	5260	4380	3500	2630	1750	1420
	W	2310	2040	1770	1520	1260	1020	790	570	370	350
7	Q	8000	7200	6400	5600	4800	4000	3200	2400	1600	1300
	W	2210	1950	1690	1450	1210	980	760	550	350	270
5	Q	7460	6720	5970	5220	4480	3730	2990	2240	1490	1210
	W	2140	1890	1640	1410	1170	950	740	530	340	320
2	Q	6690	6020	5350	4680	4010	3340	2680	2010	1340	1090
	W	2040	1800	1560	1340	1120	900	700	510	320	310
0	Q	5220	4700	4180	3660	3130	2610	2090	1570	1040	850
	W	1810	1600	1380	1190	990	800	620	450	290	270
-5	Q	5220	4700	4180	3660	3130	2610	2090	1570	1040	850
	W	1810	1600	1380	1190	990	800	620	450	290	270
-7	Q	4910	4420	3930	3440	2950	2460	1960	1470	980	800
	W	1750	1550	1340	1150	960	780	600	440	280	260
-10	Q	4500	4050	3600	3150	2700	2250	1800	1350	900	730
	W	1680	1480	1290	1100	920	750	580	420	270	260
-15	Q	3790	3410	3030	2650	2280	1900	1520	1140	760	620
	W	1590	1400	1210	1040	870	700	550	390	250	240

Combination

Indoor unit : RAV-SM1106BT-E

Outdoor unit : RAV-SP1104AT-E

	Cooling		Heating	
	Capacity Q (W)	Power consumption W (W)	Capacity Q (W)	Power consumption W (W)
MINIMUM	2600	640	2400	520
RATING	10000	2640	11200	2770

Q: Capacity in W
W: Power Consumption in W

Cooling

Outdoor temperature (°C)		Load (%)									
		100	90	80	70	60	50	40	30	20	10
40	Q	9510	8560	7610	6660	5710	4760	3800	2850	2470	2470
	W	2830	2350	1930	1570	1270	990	750	530	690	690
35	Q	10000	9000	8000	7000	6000	5000	4000	3000	2600	2600
	W	2640	2190	1800	1470	1180	920	700	490	640	640
30	Q	10410	9370	8330	7290	6250	5210	4160	3120	2710	2710
	W	2440	2020	1660	1360	1090	850	650	460	590	590
25	Q	10750	9680	8600	7530	6450	5380	4300	3230	2800	2800
	W	2260	1880	1540	1260	1010	790	600	420	550	550
20	Q	11030	9930	8820	7720	6620	5520	4410	3310	2870	2870
	W	2100	1740	1430	1170	930	740	560	400	510	510

Heating

Outdoor temperature (°C)		Load (%)									
		100	90	80	70	60	50	40	30	20	10
15	Q	13510	12160	10810	9450	8100	6750	5400	4050	2890	2890
	W	3050	2680	2330	2000	1670	1360	1070	780	570	570
10	Q	12260	11040	9810	8580	7360	6130	4910	3680	2630	2630
	W	2890	2540	2200	1890	1580	1290	1010	740	540	540
7	Q	11200	10080	8960	7840	6720	5600	4480	3360	2400	2400
	W	2770	2430	2110	1810	1510	1230	970	710	520	520
5	Q	10450	9400	8360	7310	6270	5220	4180	3130	2240	2240
	W	2680	2350	2040	1750	1460	1190	940	690	500	500
2	Q	9360	8430	7490	6550	5620	4680	3750	2810	2010	2010
	W	2550	2240	1950	1670	1390	1130	890	650	480	480
0	Q	7310	6580	5850	5120	4390	3660	2930	2190	1570	1570
	W	2270	1990	1730	1480	1240	1010	790	580	430	430
-5	Q	7310	6580	5850	5120	4390	3660	2930	2190	1570	1570
	W	2270	1990	1730	1480	1240	1010	790	580	430	430
-7	Q	6880	6190	5500	4810	4130	3440	2750	2060	1470	1470
	W	2200	1930	1680	1440	1200	980	770	560	410	410
-10	Q	6300	5670	5040	4410	3780	3150	2520	1890	1350	1350
	W	2110	1850	1610	1380	1150	940	740	540	400	400
-15	Q	5310	4780	4250	3720	3190	2650	2120	1590	1140	1140
	W	1990	1740	1510	1300	1080	880	700	510	370	370

Combination

Indoor unit : RAV-SM1406BT-E

Outdoor unit : RAV-SP1404AT-E

	Cooling		Heating	
	Capacity Q (W)	Power consumption W (W)	Capacity Q (W)	Power consumption W (W)
MINIMUM	2600	640	2400	520
RATING	12500	3830	14000	3670

Q: Capacity in W
W: Power Consumption in W

Cooling

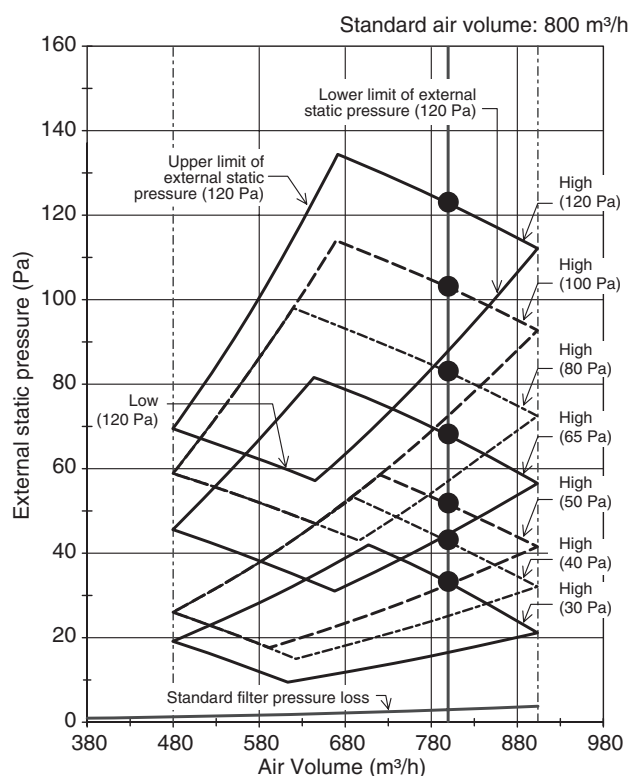
Outdoor temperature (°C)		Load (%)									
		100	90	80	70	60	50	40	30	20	10
40	Q	11890	10700	9510	8320	7130	5940	4670	3570	2470	2470
	W	4110	3410	2800	2280	1830	1430	1080	770	690	690
35	Q	12500	11250	10000	8750	7500	6250	5000	3750	2600	2600
	W	3830	3180	2610	2130	1710	1340	1010	720	640	640
30	Q	13010	11710	10410	9110	7810	6510	5210	3900	2710	2710
	W	3540	2930	2410	1970	1580	1240	930	660	590	590
25	Q	13440	12090	10750	9410	8060	6720	5380	4030	2800	2800
	W	3280	2720	2240	1820	1460	1150	870	610	550	550
20	Q	13790	12410	11030	9650	8270	6890	5520	4140	2870	2870
	W	3040	2520	2080	1690	1360	1060	800	570	510	510

Heating

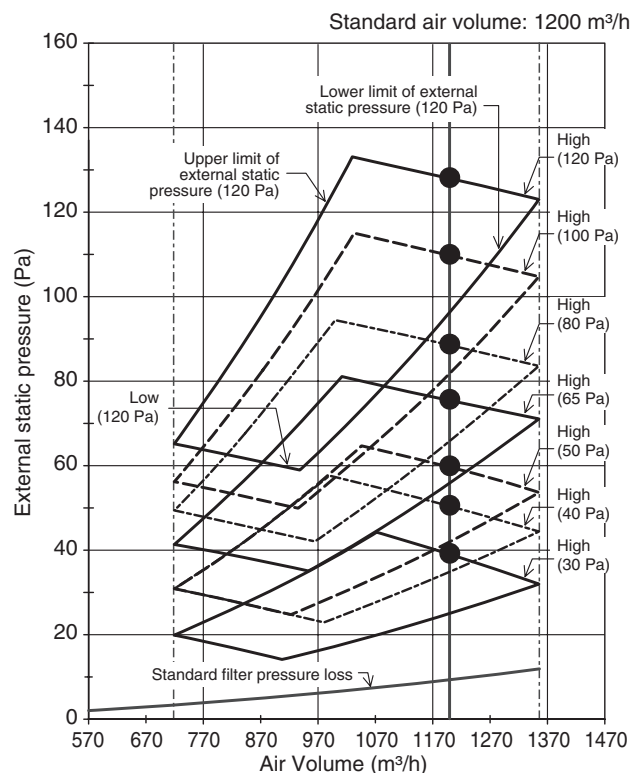
Outdoor temperature (°C)		Load (%)									
		100	90	80	70	60	50	40	30	20	10
15	Q	16880	15190	13510	11820	10130	8440	6750	5060	3380	2890
	W	4050	3550	3090	2640	2210	1810	1410	1030	680	570
10	Q	15330	13800	12260	10730	9200	7670	6130	4600	3070	2630
	W	3830	3360	2930	2500	2090	1710	1330	980	650	540
7	Q	14000	12600	11200	9800	8400	7000	5600	4200	3000	2400
	W	3670	3220	2800	2400	2000	1630	1290	940	690	520
5	Q	14000	11760	10450	9140	7840	6530	5220	3920	2610	2400
	W	3670	3120	2710	2310	1940	1580	1240	900	590	520
2	Q	11700	10530	9360	8190	7020	5850	4680	3510	2340	2010
	W	3380	2970	2580	2210	1840	1510	1180	860	570	480
0	Q	9140	8230	7310	6400	5490	4570	3660	2740	1830	1570
	W	3000	2640	2290	1960	1640	1330	1040	760	510	430
-5	Q	9140	8230	7310	6400	5490	4570	3660	2740	1830	1570
	W	3000	2640	2290	1960	1640	1330	1040	760	510	430
-7	Q	8600	8230	6880	6020	5160	4300	3440	2580	1720	1470
	W	2920	2640	2220	1890	1590	1300	1010	740	480	410
-10	Q	7870	7090	6300	5510	4720	3940	3150	2360	1570	1350
	W	2800	2450	2130	1820	1530	1250	980	710	460	400
-15	Q	6640	5970	5310	4650	3980	3320	2650	1990	1330	1140
	W	2640	2310	2010	1710	1430	1170	910	670	440	370

2-4-6. Fan static characteristics

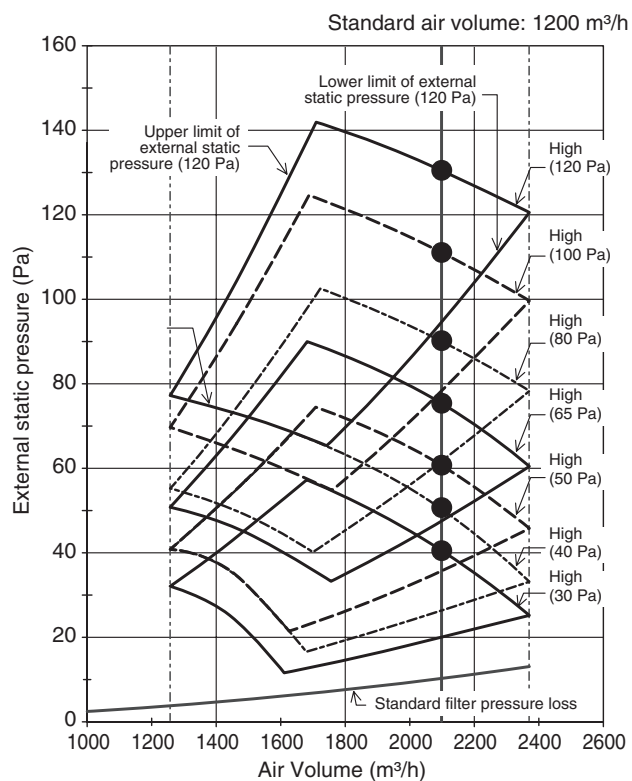
RAV-SM406BT-E, RAV-SM456BT-E,
RAV-SM566BT-E



RAV-SM806BT-E

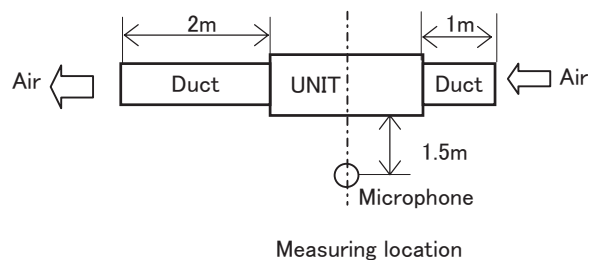


RAV-SM1106BT-E, RAV-SM1406BT-E



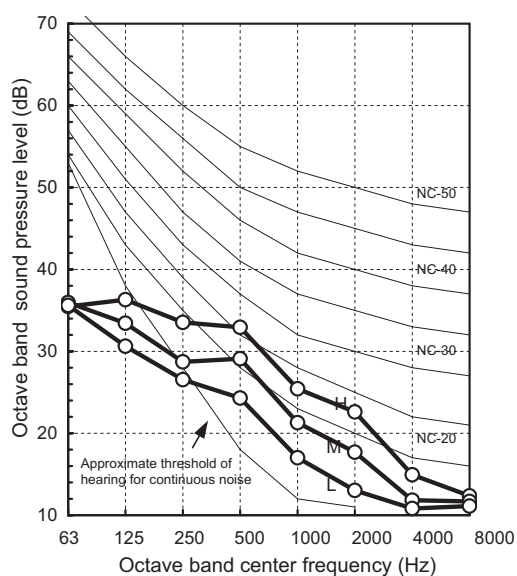
2-4-7. Sound characteristics (NC curve)

RAV-SM406BT-E, RAV-SM456BT-E, RAV-SM566BT-E



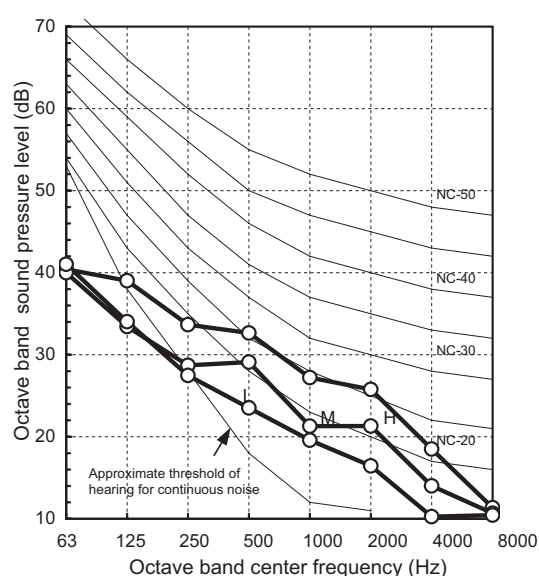
External static pressure 30Pa

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



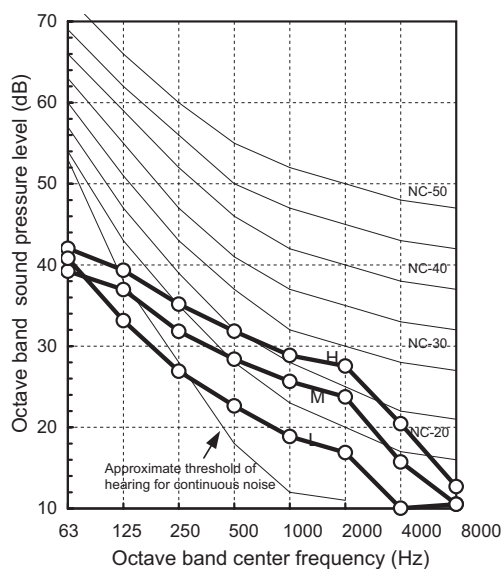
External static pressure 40Pa

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



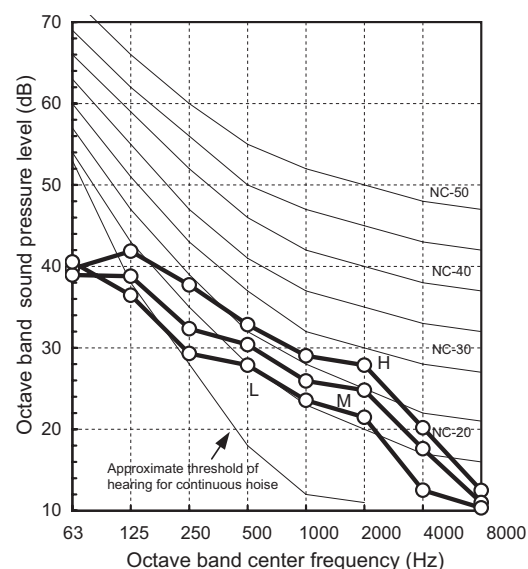
External static pressure 50Pa

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



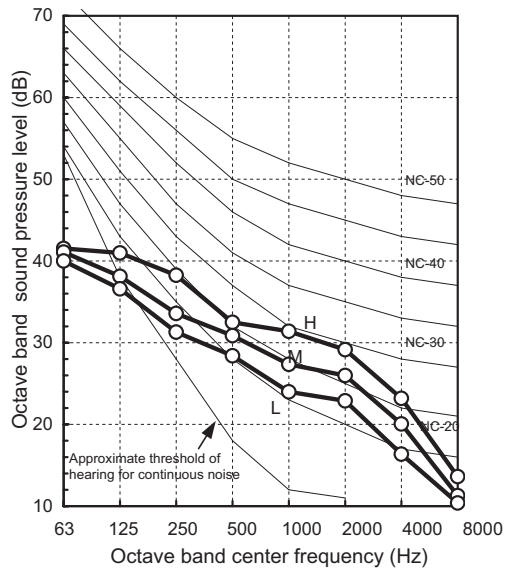
External static pressure 65Pa

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



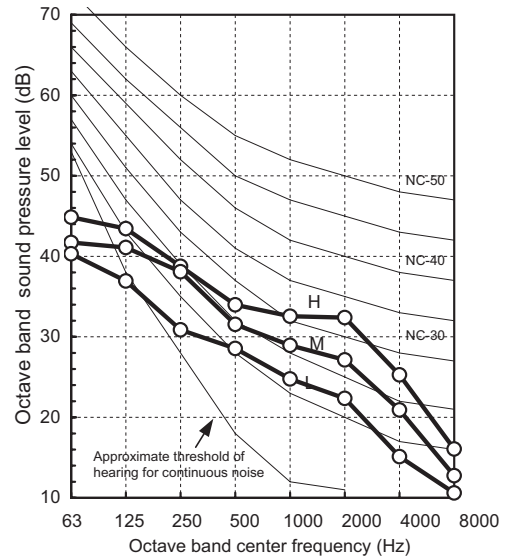
External static pressure 80Pa

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



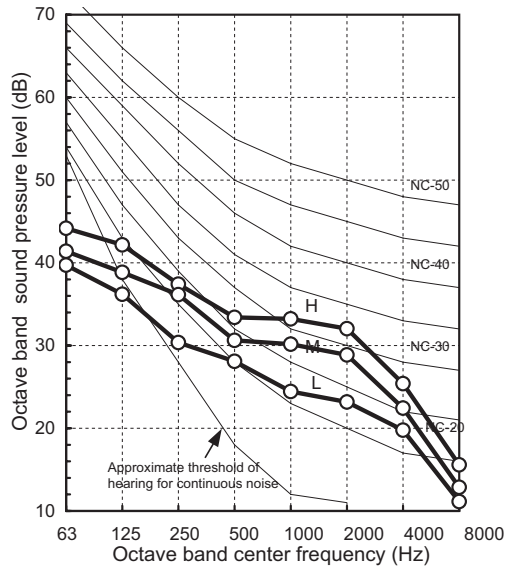
External static pressure 100Pa

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



External static pressure 120Pa

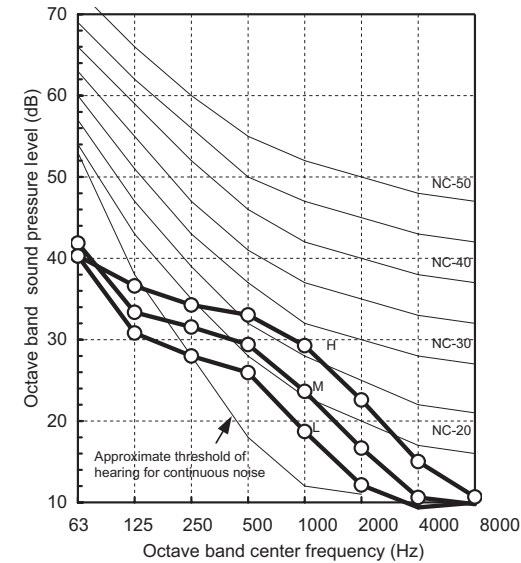
FAN tap	H	M	L
Sound pressure level (dB(A))	39	35	31



RAV-SM806BT-E

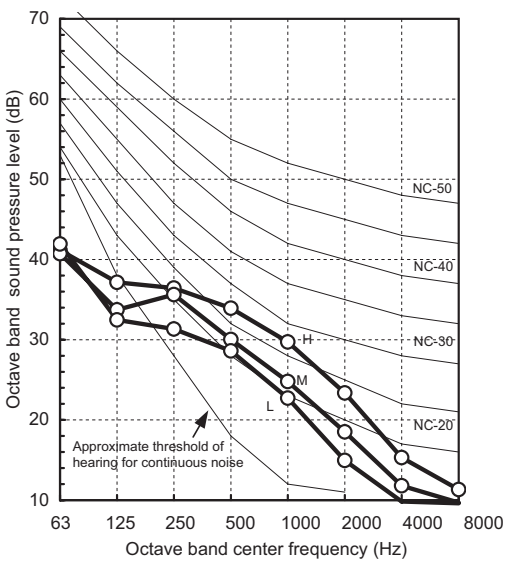
External static pressure 30Pa

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



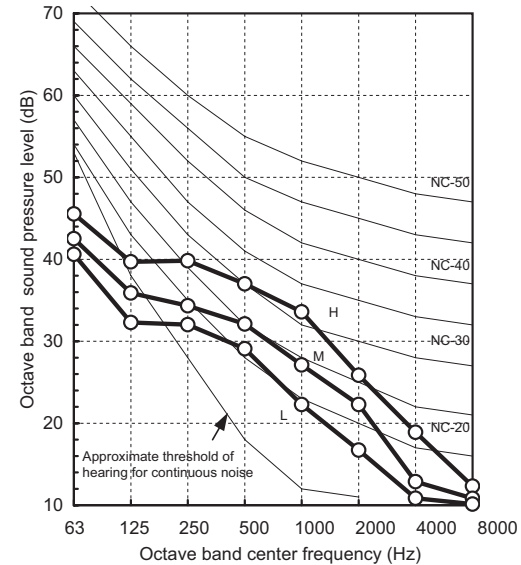
External static pressure 40Pa

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



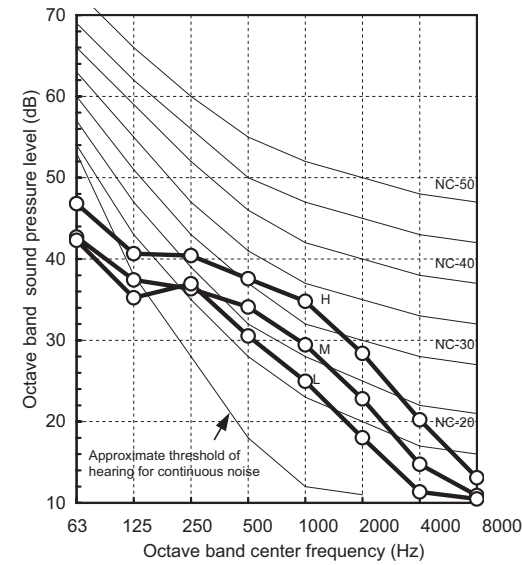
External static pressure 50Pa

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



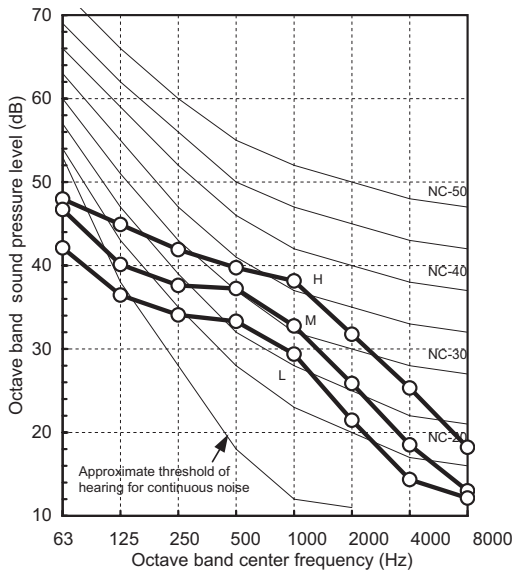
External static pressure 65Pa

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



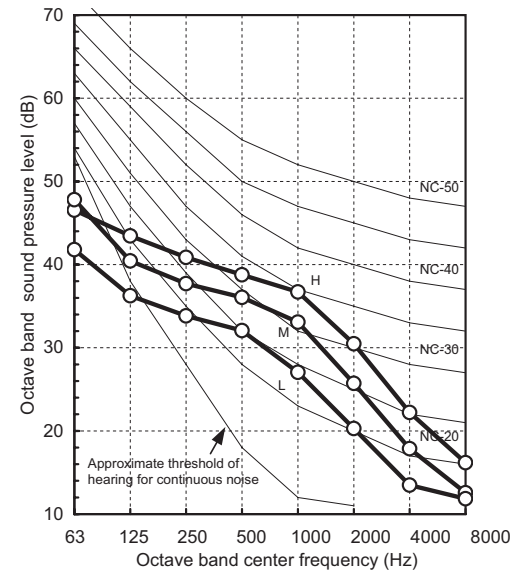
External static pressure 80Pa

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



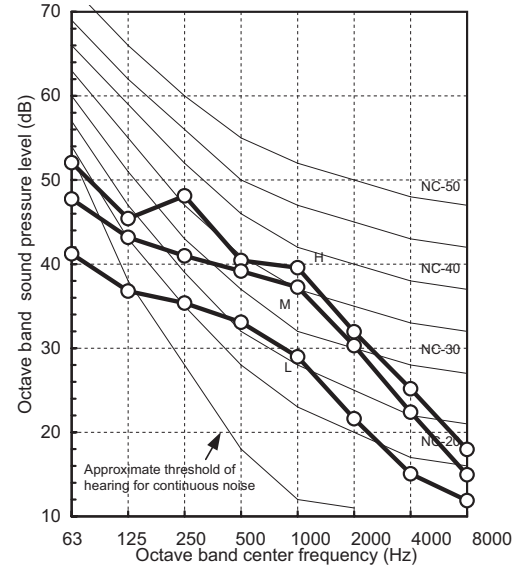
External static pressure 100Pa

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



External static pressure 120Pa

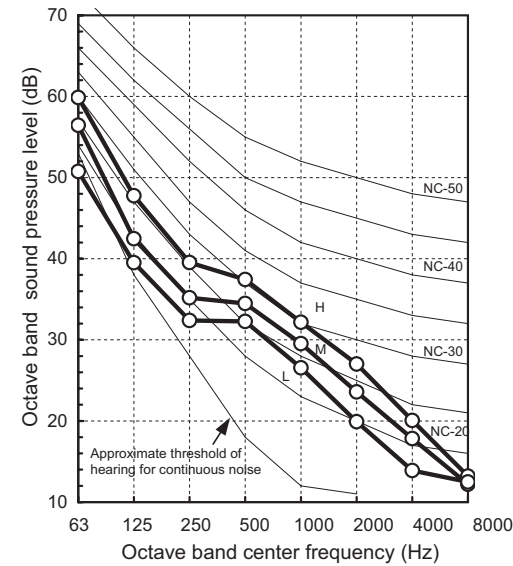
FAN tap	H	M	L
Sound pressure level (dB(A))	44	41	34



RAV-SM1106BT-E, RAV-SM1406BT-E

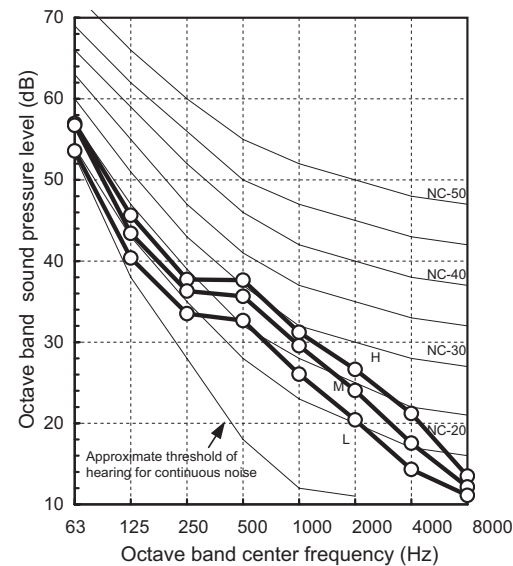
External static pressure 30Pa

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



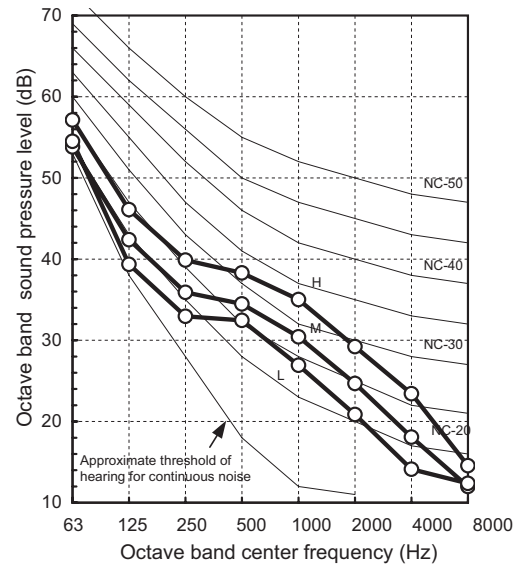
External static pressure 40Pa

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



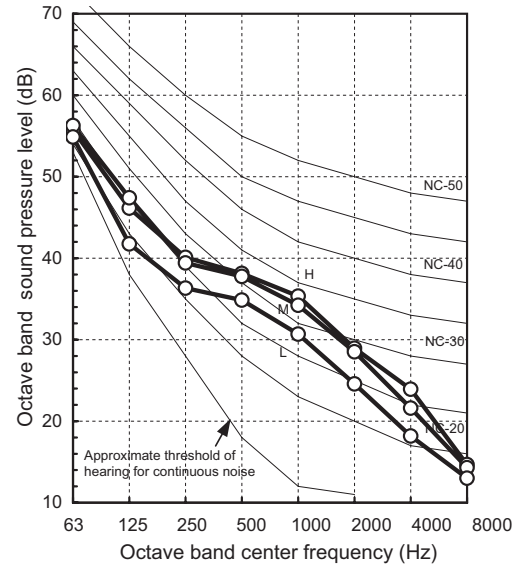
External static pressure 50Pa

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



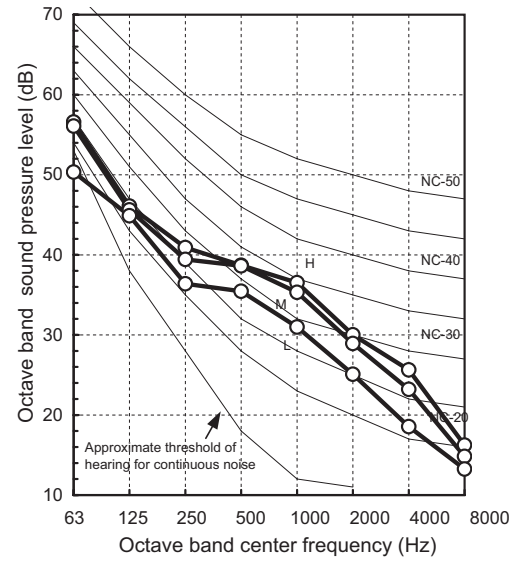
External static pressure 65Pa

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



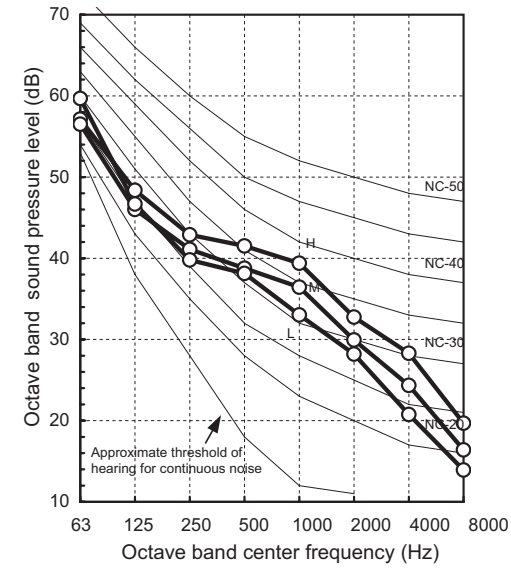
External static pressure 80Pa

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



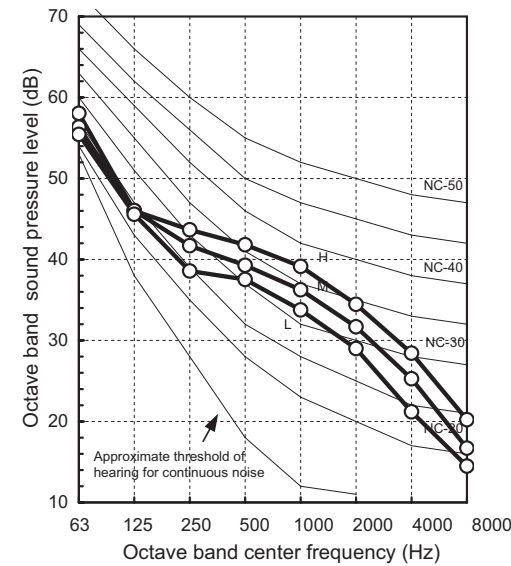
External static pressure 100Pa

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



2-5. Slim Duct 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. Fan static characteristics

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

2-5-1. Specifications

<Single type>

Model	Indoor unit	RAV-SM	404SDT-E	454SDT-E	564SDT-E
	Outdoor unit	RAV-SP	404AT-E	454AT-E	564AT(Z)(ZG)-E
Cooling capacity		(kW)	3.6	4.0	5.0
Heating capacity		(kW)	4.0	4.5	5.6
Power supply			1 phase 230V (220 – 240V) 50Hz		
Electrical characteristics	Cooling	Running current (A)	5.20 – 4.77	5.87 – 5.38	7.24 – 6.63
		Power consumption (kW)	1.03	1.20	1.56
		Power factor (%)	90	93	98
		EER	3.50	3.33	3.21
		Energy efficiency class *	A	A	A
	Heating	Running current (A)	4.94 – 4.53	5.62 – 5.15	6.68 – 6.12
		Power consumption (kW)	1.00	1.15	1.44
		Power factor (%)	92	93	98
		COP	4.00	3.91	3.89
		Energy efficiency class *	A	A	A
	Maximum current	(A)	15.00	15.00	13.60
Appearance	Main unit		Zinc hot dipping steel plate		
Outer dimension	Main unit	Height (mm)	210	210	210
		Width (mm)	845	845	845
		Depth (mm)	645	645	645
Total weight	Main unit	(kg)	22	22	22
Heat exchanger			Finned tube		
Fan unit	Fan		Centrifugal		
	Standard air flow	H/M/L (m³/min.)	11.5/10.0/8.7	11.5/10.0/8.7	13.0/11.3/9.7
	Motor	(W)	60	60	60
Air filter			Standard filter attached (Long life filter)		
Controller (Sold separately)			RBC-AMT32E, AMS41E, AS21E2		
Sound pressure level	Under air inlet	H/M/L (dB•A)	39/36/33	39/36/33	45/40/36
	Back air inlet	H/M/L (dB•A)	30/28/26	30/28/26	33/31/28
Sound power level	Under air inlet	H/M/L (dB•A)	54/51/48	54/51/48	60/55/51
	Back air inlet	H/M/L (dB•A)	45/43/41	45/43/41	48/46/43
Connecting pipe	Gas side	(mm)	12.7	12.7	12.7
	Liquid side	(mm)	6.4	6.4	6.4
	Drain port	(mm)	VP25		

* : IEC standard

*1 : The cooling capacities and electrical characteristics are measured under the conditions specified by JIS B 8615 based on the reference piping. The reference piping consists of 5 m of main piping and 2.5 m of branch piping connected with 0 meter height.

*2 : The sound level are measured in an anechoic chamber in accordance with JIS B 8616. Normally, the values measured in the actual operating environment become larger than the indicated values due to the effects of external sound.

Note :

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

<Twin type>

Model	Indoor unit 1		RAV-SM	404SDT-E	564SDT-E
	Indoor unit 2		RAV-SM	404SDT-E	564SDT-E
	Outdoor unit		RAV-SP	804AT(Z)(ZG)-E	1104AT(Z)(ZG)-E
Cooling capacity			(kW)	7.1	10.0
Heating capacity			(kW)	8.0	11.2
Indoor unit					
Power supply			1 phase 230V (220 – 240V) 50Hz		
Electrical characteristics	Cooling	Running current (A)		10.36 – 9.49	12.98 – 11.90
		Power consumption (kW)		2.21	2.77
		Power factor (%)		97	97
		EER		3.21	3.61
		Energy efficiency class *		A	A
	Heating	Running current (A)		10.12 – 9.28	12.51 – 11.47
		Power consumption (kW)		2.16	2.67
		Power factor (%)		97	97
		COP		3.70	4.19
		Energy efficiency class *		A	A
Fan unit	Fan		Centrifugal		
	Standard air flow	H/M/L (m³/min.)	11.5/10.0/8.7		13.0/11.3/9.7
	Motor (W)		60		60
Sound pressure level	Under air inlet	H/M/L (dB•A)	39/36/33		45/40/36
	Back air inlet	H/M/L (dB•A)	30/28/26		33/31/28
Sound power level	Under air inlet	H/M/L (dB•A)	54/51/48		60/55/51
	Back air inlet	H/M/L (dB•A)	45/43/41		48/46/43
Outdoor unit					
Power supply			1 phase 230V (220 – 240V) 50Hz		
Refrigerant pipe	Standard length (m)		7.5		7.5
	Min. length (m)		5		3
	Max. total length (m)		50		50
	Refrigerant charging amount (Charge-less up to 30m)		40g/m (31m to 50m)		
	Height difference	Outdoor lower (m)	30		30
		Outdoor higher (m)	30		30
Fan unit	Fan		Propeller fan		
	Standard air flow (m³/min.)		50		101
	Motor (W)		63		100 + 100
Connecting pipe	Gas side	Main (mm)	15.9		15.9
		Sub (mm)	12.7		12.7
	Liquid side	Main (mm)	9.5		9.5
		Sub (mm)	6.4		6.4
Sound pressure level		Cooling/Heating (dB•A)	48/49		49/50
Sound power level		Cooling/Heating (dB•A)	64/65		66/67

* : IEC standard

<Single type>

Model	Indoor unit		RAV-SM	404SDT-E	454SDT-E	564SDT-E
	Outdoor unit		RAV-SP	404ATP-E	454ATP-E	564AT(J)P-E
Cooling capacity			(kW)	3.6	4.0	5.0
Heating capacity			(kW)	4.0	4.5	5.6
Power supply			1 phase 230V (220 – 240V) 50Hz			
Electrical characteristics	Cooling	Running current	(A)	5.20 – 4.77	5.87 – 5.38	7.24 – 6.63
		Power consumption	(kW)	1.03	1.20	1.56
		Power factor	(%)	90	93	98
		EER		3.50	3.33	3.21
		Energy efficiency class *		A	A	A
	Heating	Running current	(A)	4.94 – 4.53	5.62 – 5.15	6.68 – 6.12
		Power consumption	(kW)	1.00	1.15	1.44
		Power factor	(%)	92	93	98
		COP		4.00	3.91	3.89
		Energy efficiency class *		A	A	A
Maximum current		(A)	15.00	15.00	13.60	
Appearance	Main unit		Zinc hot dipping steel plate			
Outer dimension	Main unit	Height	(mm)	210	210	210
		Width	(mm)	845	845	845
		Depth	(mm)	645	645	645
Total weight	Main unit		(kg)	22	22	22
Heat exchanger			Finned tube			
Fan unit	Fan		Centrifugal			
	Standard air flow	H/M/L	(m³/min.)	11.5/10.0/8.7	11.5/10.0/8.7	13.0/11.3/9.7
	Motor		(W)	60	60	60
Air filter			Standard filter attached (Long life filter)			
Controller (Sold separately)			RBC-AMT32E, AMS41E, AS21E2			
Sound pressure level	Under air inlet	H/M/L	(dB•A)	39/36/33	39/36/33	45/40/36
	Back air inlet	H/M/L	(dB•A)	30/28/26	30/28/26	33/31/28
Sound power level	Under air inlet	H/M/L	(dB•A)	54/51/48	54/51/48	60/55/51
	Back air inlet	H/M/L	(dB•A)	45/43/41	45/43/41	48/46/43
Connecting pipe		Gas side	(mm)	12.7	12.7	12.7
		Liquid side	(mm)	6.4	6.4	6.4
		Drain port	(mm)	VP25		

* : IEC standard

*1 : The cooling capacities and electrical characteristics are measured under the conditions specified by JIS B 8615 based on the reference piping. The reference piping consists of 5 m of main piping and 2.5 m of branch piping connected with 0 meter height.

*2 : The sound level are measured in an anechoic chamber in accordance with JIS B 8616. Normally, the values measured in the actual operating environment become larger than the indicated values due to the effects of external sound.

Note :

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

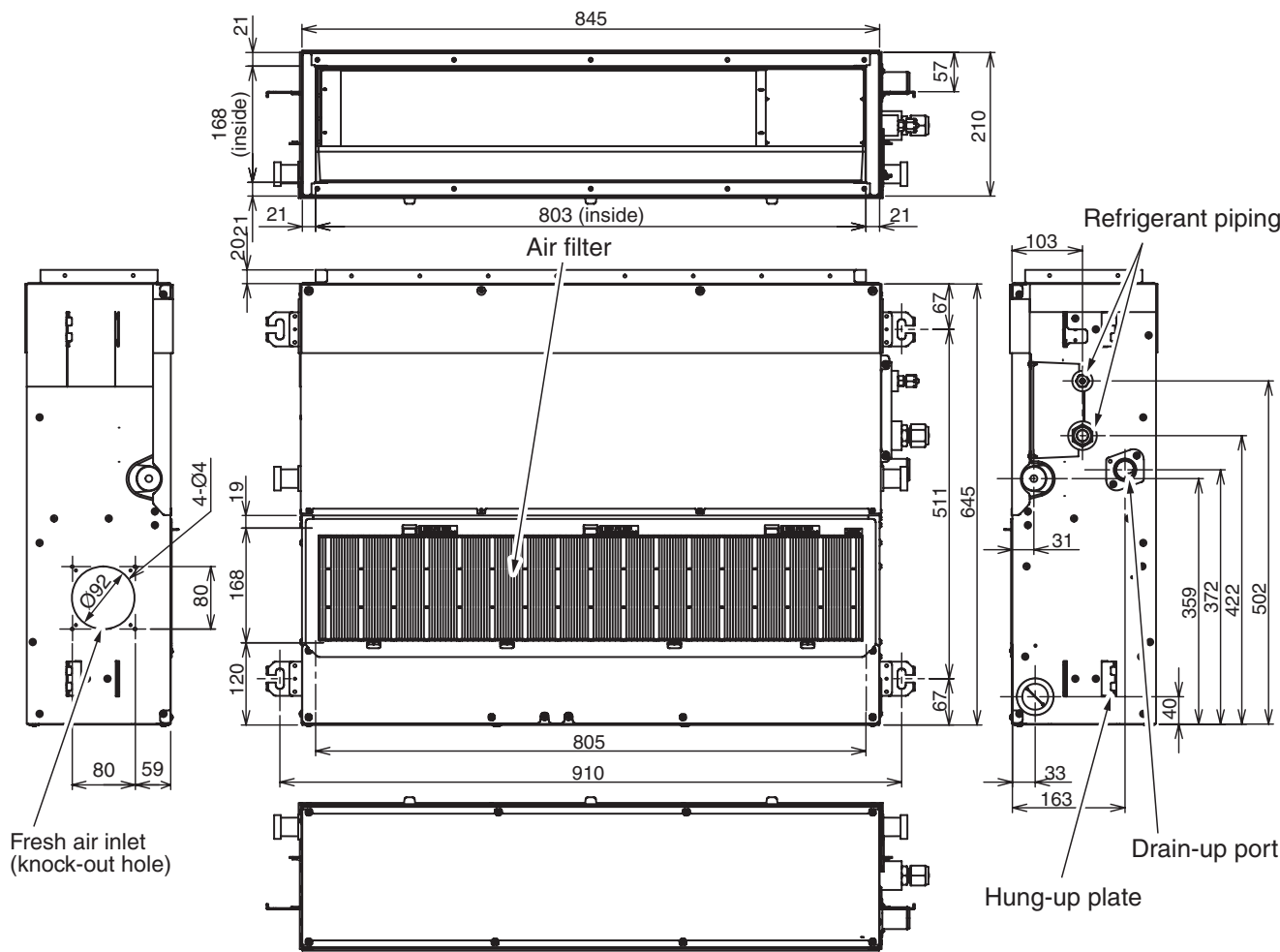
<Twin type>

Model	Indoor unit 1		RAV-SM	404SDT-E
	Indoor unit 2		RAV-SM	404SDT-E
	Outdoor unit		RAV-SP	804AT(J)P-E
Cooling capacity			(kW)	7.1
Heating capacity			(kW)	8.0
Indoor unit				
Power supply			1 phase 230V (220 – 240V) 50Hz	
Electrical characteristics	Cooling	Running current (A)		10.36 – 9.49
		Power consumption (kW)		2.21
		Power factor (%)		97
		EER		3.21
		Energy efficiency class *		A
	Heating	Running current (A)		10.12 – 9.28
		Power consumption (kW)		2.16
		Power factor (%)		97
		COP		3.70
		Energy efficiency class *		A
Fan unit	Fan		Centrifugal	
	Standard air flow	H/M/L (m³/min.)	11.5/10.0/8.7	
	Motor (W)		60	
Sound pressure level	Under air inlet	H/M/L (dB•A)	39/36/33	
	Back air inlet	H/M/L (dB•A)	30/28/26	
Sound power level	Under air inlet	H/M/L (dB•A)	54/51/48	
	Back air inlet	H/M/L (dB•A)	45/43/41	
Outdoor unit				
Power supply			1 phase 230V (220 – 240V) 50Hz	
Refrigerant pipe	Standard length (m)		7.5	
	Min. length (m)		5	
	Max. total length (m)		50	
	Refrigerant charging amount (Charge-less up to 30m)		40g/m (31m to 50m)	
	Height difference	Outdoor lower (m)	30	
		Outdoor higher (m)	30	
Fan unit	Fan		Propeller fan	
	Standard air flow (m³/min.)		50	
	Motor (W)		63	
Connecting pipe	Gas side	Main (mm)	15.9	
		Sub (mm)	12.7	
	Liquid side	Main (mm)	9.5	
		Sub (mm)	6.4	
Sound pressure level		Cooling/Heating (dB•A)	48/49	
Sound power level		Cooling/Heating (dB•A)	64/65	

* : IEC standard

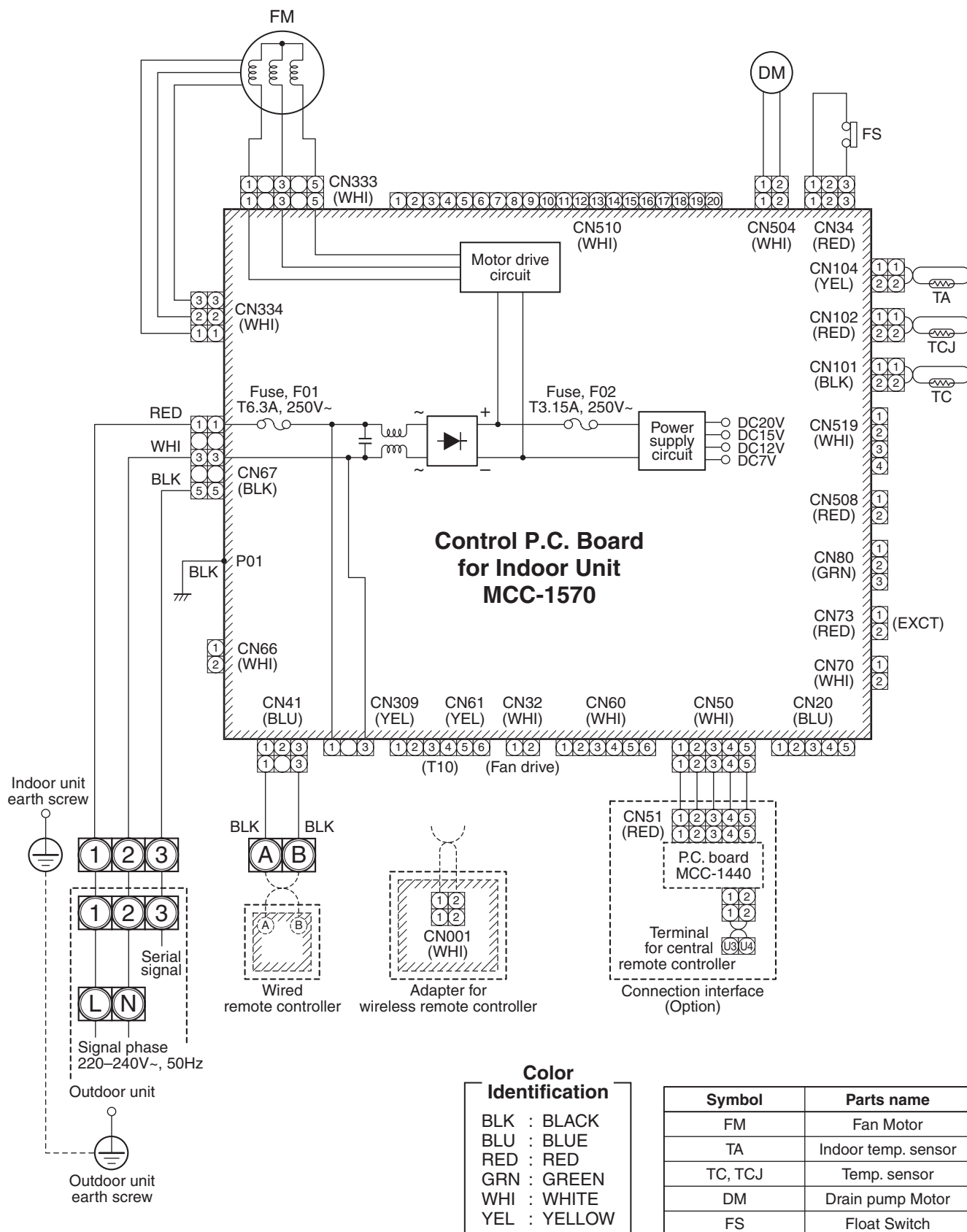
2-5-2. Dimension

RAV-SM404SDT-E, RAV-SM454SDT-E, RAV-SM564SDT-E



2-5-3. Wiring diagrams

RAV-SM404SDT-E, RAV-SM454SDT-E, RAV-SM564SDT-E



2-5-4. Sensible capacity table

Super Digital Inverter 4 Series Sensible Heat Capacity : RAV-SM***SDT-E

unit size	outdoor air temp. CDB	indoor air temp.																	
		14.0CWB 20.0CDB		15.0CWB 21.5CDB		16.0CWB 23.0CDB		17.0CWB 24.5CDB		18.0CWB 26.0CDB		19.0CWB 27.0CDB		20.0CWB 28.0CDB		22.0CWB 30.0CDB		24.0CWB 32.0CDB	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
404	10.0	3.4	2.5	3.6	2.7	3.7	2.8	3.9	2.9	4.0	3.0	4.1	3.1	4.2	3.2	4.5	3.4	4.7	3.5
	12.0	3.4	2.5	3.5	2.7	3.7	2.8	3.8	2.9	4.0	3.0	4.1	3.1	4.2	3.2	4.5	3.3	4.7	3.5
	14.0	3.3	2.5	3.5	2.6	3.7	2.8	3.8	2.9	3.9	3.0	4.1	3.0	4.2	3.1	4.4	3.3	4.6	3.5
	16.0	3.3	2.5	3.5	2.6	3.7	2.7	3.8	2.8	3.9	2.9	4.0	3.0	4.2	3.1	4.4	3.3	4.6	3.4
	18.0	3.3	2.5	3.5	2.6	3.6	2.7	3.8	2.8	3.9	2.9	4.0	3.0	4.1	3.1	4.4	3.3	4.6	3.4
	20.0	3.3	2.4	3.4	2.6	3.6	2.7	3.7	2.8	3.9	2.9	4.0	3.0	4.1	3.1	4.3	3.2	4.5	3.4
	21.0	3.2	2.4	3.4	2.6	3.6	2.7	3.7	2.8	3.8	2.9	4.0	3.0	4.1	3.1	4.3	3.2	4.5	3.4
	23.0	3.2	2.4	3.4	2.5	3.5	2.7	3.7	2.8	3.8	2.9	3.9	2.9	4.0	3.0	4.3	3.2	4.5	3.3
	25.0	3.2	2.4	3.3	2.5	3.5	2.6	3.6	2.7	3.8	2.8	3.9	2.9	4.0	3.0	4.2	3.2	4.4	3.3
	27.0	3.1	2.4	3.3	2.5	3.5	2.6	3.6	2.7	3.7	2.8	3.8	2.9	3.9	3.0	4.2	3.1	4.4	3.3
	29.0	3.1	2.3	3.3	2.4	3.4	2.6	3.5	2.7	3.7	2.7	3.8	2.8	3.9	2.9	4.1	3.1	4.3	3.2
	31.0	3.1	2.3	3.2	2.4	3.4	2.5	3.5	2.6	3.6	2.7	3.7	2.8	3.8	2.9	4.1	3.0	4.2	3.2
	33.0	3.0	2.3	3.2	2.4	3.3	2.5	3.4	2.6	3.6	2.7	3.7	2.7	3.8	2.8	4.0	3.0	4.2	3.1
	35.0	3.0	2.2	3.1	2.3	3.3	2.5	3.4	2.5	3.5	2.6	3.6	2.7	3.7	2.8	3.9	2.9	4.1	3.1
	37.0	2.9	2.2	3.1	2.3	3.2	2.4	3.3	2.5	3.4	2.6	3.5	2.6	3.6	2.7	3.8	2.9	4.0	3.0
	39.0	2.8	2.1	3.0	2.2	3.1	2.4	3.2	2.4	3.4	2.5	3.5	2.6	3.6	2.7	3.8	2.8	3.9	3.0

unit size	outdoor air temp. CDB	indoor air temp.																	
		14.0CWB 20.0CDB		15.0CWB 21.5CDB		16.0CWB 23.0CDB		17.0CWB 24.5CDB		18.0CWB 26.0CDB		19.0CWB 27.0CDB		20.0CWB 28.0CDB		22.0CWB 30.0CDB		24.0CWB 32.0CDB	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
454	10.0	3.8	2.7	4.0	2.9	4.1	3.0	4.3	3.1	4.4	3.2	4.6	3.3	4.7	3.4	5.0	3.6	5.2	3.8
	12.0	3.7	2.7	3.9	2.8	4.1	3.0	4.3	3.1	4.4	3.2	4.5	3.3	4.7	3.4	4.9	3.6	5.2	3.7
	14.0	3.7	2.7	3.9	2.8	4.1	3.0	4.2	3.1	4.4	3.2	4.5	3.3	4.6	3.4	4.9	3.6	5.1	3.7
	16.0	3.7	2.7	3.9	2.8	4.1	2.9	4.2	3.0	4.4	3.1	4.5	3.2	4.6	3.3	4.9	3.5	5.1	3.7
	18.0	3.7	2.6	3.8	2.8	4.0	2.9	4.2	3.0	4.3	3.1	4.4	3.2	4.6	3.3	4.8	3.5	5.1	3.7
	20.0	3.6	2.6	3.8	2.8	4.0	2.9	4.1	3.0	4.3	3.1	4.4	3.2	4.5	3.3	4.8	3.5	5.0	3.6
	21.0	3.6	2.6	3.8	2.7	4.0	2.9	4.1	3.0	4.3	3.1	4.4	3.2	4.5	3.3	4.8	3.5	5.0	3.6
	23.0	3.6	2.6	3.8	2.7	3.9	2.8	4.1	2.9	4.2	3.0	4.3	3.1	4.5	3.2	4.7	3.4	5.0	3.6
	25.0	3.5	2.6	3.7	2.7	3.9	2.8	4.0	2.9	4.2	3.0	4.3	3.1	4.4	3.2	4.7	3.4	4.9	3.5
	27.0	3.5	2.5	3.7	2.7	3.9	2.8	4.0	2.9	4.1	3.0	4.2	3.1	4.4	3.2	4.6	3.3	4.8	3.5
	29.0	3.4	2.5	3.6	2.6	3.8	2.7	3.9	2.8	4.1	2.9	4.2	3.0	4.3	3.1	4.6	3.3	4.8	3.4
	31.0	3.4	2.5	3.6	2.6	3.7	2.7	3.9	2.8	4.0	2.9	4.1	3.0	4.3	3.1	4.5	3.2	4.7	3.4
	33.0	3.3	2.4	3.5	2.5	3.7	2.7	3.8	2.8	4.0	2.9	4.1	2.9	4.2	3.0	4.4	3.2	4.6	3.3
	35.0	3.3	2.4	3.5	2.5	3.6	2.6	3.8	2.7	3.9	2.8	4.0	2.9	4.1	3.0	4.4	3.1	4.6	3.3
	37.0	3.2	2.3	3.4	2.4	3.6	2.6	3.7	2.7	3.8	2.8	3.9	2.8	4.0	2.9	4.3	3.1	4.5	3.2
	39.0	3.2	2.3	3.3	2.4	3.5	2.5	3.6	2.6	3.7	2.7	3.8	2.8	4.0	2.9	4.2	3.0	4.4	3.2

unit size	outdoor air temp. CDB	indoor air temp.																	
		14.0CWB 20.0CDB		15.0CWB 21.5CDB		16.0CWB 23.0CDB		17.0CWB 24.5CDB		18.0CWB 26.0CDB		19.0CWB 27.0CDB		20.0CWB 28.0CDB		22.0CWB 30.0CDB		24.0CWB 32.0CDB	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
564	10.0	4.7	3.5	4.9	3.7	5.2	3.8	5.4	4.0	5.6	4.1	5.7	4.2	5.9	4.4	6.2	4.6	6.5	4.8
	12.0	4.7	3.5	4.9	3.6	5.2	3.8	5.3	3.9	5.5	4.1	5.7	4.2	5.8	4.3	6.2	4.6	6.5	4.8
	14.0	4.6	3.4	4.9	3.6	5.1	3.8	5.3	3.9	5.5	4.1	5.6	4.2	5.8	4.3	6.1	4.6	6.4	4.8
	16.0	4.6	3.4	4.8	3.6	5.1	3.8	5.3	3.9	5.4	4.0	5.6	4.1	5.8	4.3	6.1	4.5	6.4	4.7
	18.0	4.6	3.4	4.8	3.6	5.0	3.7	5.2	3.9	5.4	4.0	5.6	4.1	5.7	4.2	6.1	4.5	6.3	4.7
	20.0	4.5	3.4	4.8	3.5	5.0	3.7	5.2	3.8	5.4	4.0	5.5	4.1	5.7	4.2	6.0	4.4	6.3	4.6
	21.0	4.5	3.3	4.7	3.5	5.0	3.7	5.2	3.8	5.3	3.9	5.5	4.1	5.6	4.2	6.0	4.4	6.3	4.6
	23.0	4.5	3.3	4.7	3.5	4.9	3.6	5.1	3.8	5.3	3.9	5.4	4.0	5.6	4.1	5.9	4.4	6.2	4.6
	25.0	4.4	3.3	4.6	3.4	4.9	3.6	5.0	3.7	5.2	3.9	5.4	4.0	5.5	4.1	5.9	4.3	6.1	4.5
	27.0	4.4	3.2	4.6	3.4	4.8	3.6	5.0	3.7	5.2	3.8	5.3	3.9	5.5	4.0	5.8	4.3	6.0	4.5
	29.0	4.3	3.2	4.5	3.4	4.8	3.5	4.9	3.6	5.1	3.8	5.2	3.9	5.4	4.0	5.7	4.2	6.0	4.4
	31.0	4.2	3.1	4.5	3.3	4.7	3.5	4.9	3.6	5.0	3.7	5.2	3.8	5.3	3.9	5.6	4.2	5.9	4.4
	33.0	4.2	3.1	4.4	3.3	4.6	3.4	4.8	3.5	4.9	3.7	5.1	3.8	5.2	3.9	5.5	4.1	5.8	4.3
	35.0	4.1	3.0	4.3	3.2	4.5	3.4	4.7	3.5	4.9	3.6	5.0	3.7	5.1	3.8	5.4	4.0	5.7	4.2
	37.0	4.0	3.0	4.2	3.1	4.4	3.3	4.6	3.4	4.8	3.5	4.9	3.6	5.0	3.7	5.3	4.0	5.6	4.1
	39.0	3.9	2.9	4.2	3.1	4.4	3.2	4.5	3.3	4.7	3.5	4.8	3.6	4.9	3.7	5.2	3.9	5.5	4.1

TC:Total Capacity [kW]

SHC:Sensible Heat Capacity [kW]

2-5-5. Part load performance

Combination

Indoor unit : RAV-SM404SDT-E

Outdoor unit : RAV-SP404AT-E, RAV-SP404ATP-E

	Cooling		Heating	
	Capacity Q (W)	Power consumption W (W)	Capacity Q (W)	Power consumption W (W)
MINIMUM	1500	370	1500	370
RATING	3600	1030	4000	1000

Q: Capacity in W
W: Power Consumption in W

Cooling

Outdoor temperature (°C)		Load (%)									
		100	90	80	70	60	50	40	30	20	10
40	Q	3420	3080	2740	2400	2050	1710	1430	1430	1430	1430
	W	1110	950	810	680	560	450	400	400	400	400
35	Q	3600	3240	2880	2520	2160	1800	1500	1500	1500	1500
	W	1030	884	751	629	518	415	370	370	370	370
30	Q	3750	3370	3000	2620	2250	1870	1560	1560	1560	1560
	W	950	820	690	580	480	380	340	340	340	340
25	Q	3870	3480	3100	2710	2320	1940	1610	1610	1610	1610
	W	880	760	640	540	440	360	320	320	320	320
20	Q	3970	3570	3180	2780	2380	1990	1650	1650	1650	1650
	W	820	700	600	500	410	330	290	290	290	290

Heating

Outdoor temperature (°C)		Load (%)									
		100	90	80	70	60	50	40	30	20	10
15	Q	4820	4340	3860	3380	2890	2410	1930	1810	1810	1810
	W	1100	980	860	740	620	510	410	410	410	410
10	Q	4380	3940	3500	3070	2630	2190	1750	1640	1640	1640
	W	1050	930	820	700	590	480	390	390	390	390
7	Q	4000	3600	3200	2800	2400	2000	1600	1500	1500	1500
	W	1000	890	780	670	560	460	370	370	370	370
5	Q	3730	3360	2990	2610	2240	1870	1490	1400	1400	1400
	W	970	860	760	650	540	450	360	360	360	360
2	Q	3340	3010	2680	2340	2010	1670	1340	1250	1250	1250
	W	920	820	720	620	520	420	340	340	340	340
0	Q	2610	2350	2090	1830	1570	1310	1040	980	980	980
	W	820	730	640	550	460	380	300	300	300	300
-5	Q	2610	2350	2090	1830	1570	1310	1040	980	980	980
	W	820	730	640	550	460	380	300	300	300	300
-7	Q	2460	2210	1960	1720	1470	1230	980	920	920	920
	W	790	710	620	530	440	370	290	290	290	290
-10	Q	2250	2020	1800	1570	1350	1120	900	840	840	840
	W	760	680	590	510	430	350	280	280	280	280
-15	Q	1900	1710	1520	1330	1140	950	760	710	710	710
	W	720	640	560	480	400	330	270	270	270	270

Combination

Indoor unit : RAV-SM454SDT-E

Outdoor unit : RAV-SP454AT-E, RAV-SP454ATP-E

	Cooling		Heating	
	Capacity Q (W)	Power consumption W (W)	Capacity Q (W)	Power consumption W (W)
MINIMUM	1500	370	1500	370
RATING	4000	1200	4500	1150

Q: Capacity in W
W: Power Consumption in W

Cooling

Outdoor temperature (°C)		Load (%)									
		100	90	80	70	60	50	40	30	20	10
40	Q	3800	3420	3040	2660	2280	1900	1520	1430	1430	1430
	W	1290	1070	880	720	570	450	340	400	400	400
35	Q	4000	3600	3200	2800	2400	2000	1600	1500	1500	1500
	W	1200	995	818	667	535	419	317	370	370	370
30	Q	4160	3750	3330	2910	2500	2080	1670	1560	1560	1560
	W	1110	920	760	620	490	390	290	340	340	340
25	Q	4300	3870	3440	3010	2580	2150	1720	1610	1610	1610
	W	1030	850	700	570	460	360	270	320	320	320
20	Q	4410	3970	3530	3090	2650	2210	1760	1650	1650	1650
	W	950	790	650	530	430	330	250	290	290	290

Heating

Outdoor temperature (°C)		Load (%)									
		100	90	80	70	60	50	40	30	20	10
15	Q	5430	4880	4340	3800	3260	2710	2170	1810	1810	1810
	W	1270	1110	970	830	690	560	440	410	410	410
10	Q	4930	4430	3940	3450	2960	2460	1970	1640	1640	1640
	W	1200	1060	920	780	660	530	420	390	390	390
7	Q	4500	4050	3600	3150	2700	2250	1800	1500	1500	1500
	W	1150	1010	880	750	630	510	400	370	370	370
5	Q	4200	3780	3360	2940	2520	2100	1680	1400	1400	1400
	W	1110	980	850	730	610	490	390	360	360	360
2	Q	3760	3390	3010	2630	2260	1880	1500	1250	1250	1250
	W	1060	930	810	690	580	470	370	340	340	340
0	Q	2940	2640	2350	2060	1760	1470	1180	980	980	980
	W	940	830	720	610	520	420	330	300	300	300
-5	Q	2940	2640	2350	2060	1760	1470	1180	980	980	980
	W	940	830	720	610	520	420	330	300	300	300
-7	Q	2760	2490	2210	1930	1660	1380	1110	920	920	920
	W	910	800	700	600	500	400	320	290	290	290
-10	Q	2530	2280	2020	1770	1520	1270	1010	840	840	840
	W	880	770	670	570	480	390	300	280	280	280
-15	Q	2130	1920	1710	1490	1280	1070	850	710	710	710
	W	830	720	630	540	450	370	290	270	270	270

Combination

Indoor unit : RAV-SM564SDT-E

Outdoor unit : RAV-SP564AT-E, RAV-SP564ATP-E

	Cooling		Heating	
	Capacity Q (W)	Power consumption W (W)	Capacity Q (W)	Power consumption W (W)
MINIMUM	1200	210	900	170
RATING	5000	1560	5600	1440

Q: Capacity in W
W: Power Consumption in W

Cooling

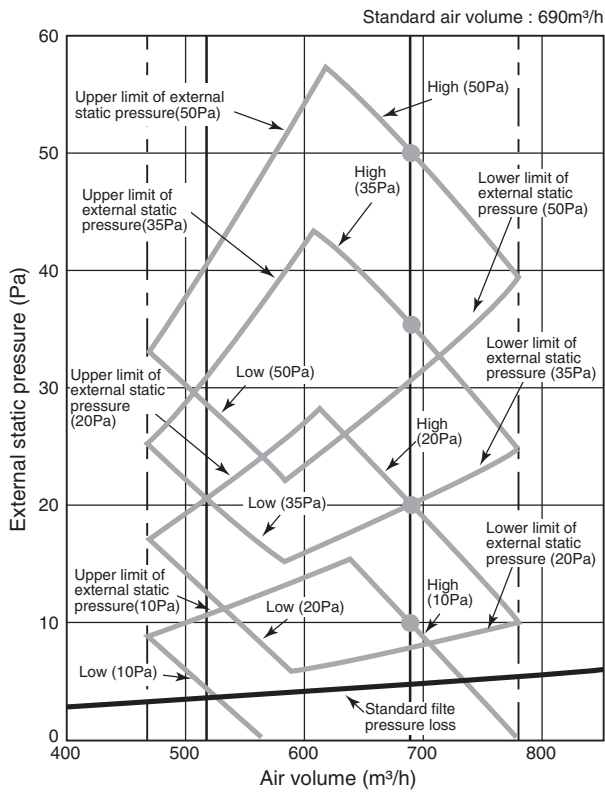
Outdoor temperature (°C)		Load (%)									
		100	90	80	70	60	50	40	30	20	10
40	Q	4730	4260	3780	3310	2840	2360	1890	1420	1140	1140
	W	1670	1450	1240	1040	850	660	490	320	230	230
35	Q	5000	4500	4000	3500	3000	2500	2000	1500	1200	1200
	W	1560	1356	1160	972	792	620	456	300	210	210
30	Q	5270	4740	4220	3690	3160	2640	2110	1580	1270	1270
	W	1450	1260	1080	900	740	580	420	280	190	190
25	Q	5540	4990	4430	3880	3330	2770	2220	1660	1330	1330
	W	1340	1160	990	830	680	530	390	260	180	180
20	Q	5810	5230	4650	4070	3490	2910	2330	1740	1400	1400
	W	1220	1060	910	760	620	490	360	240	160	160

Heating

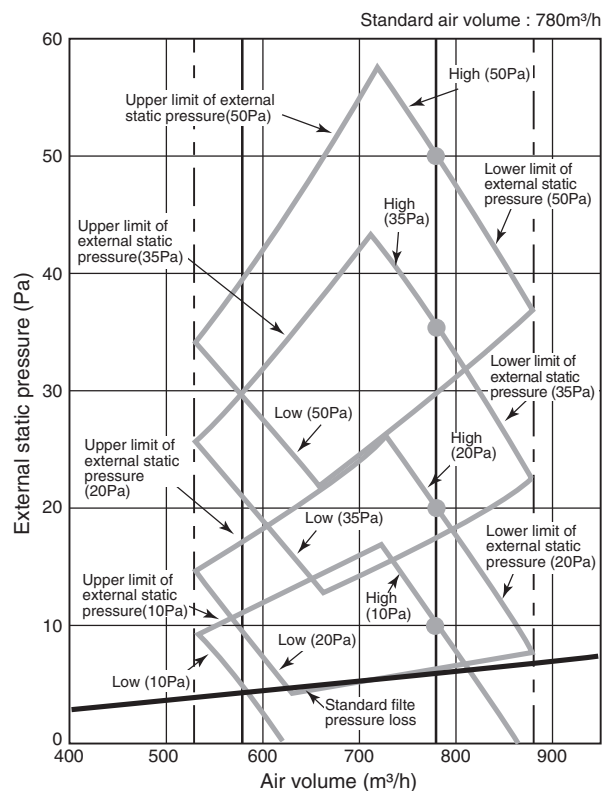
Outdoor temperature (°C)		Load (%)									
		100	90	80	70	60	50	40	30	20	10
15	Q	6750	6080	5400	4730	4050	3380	2700	2030	1350	1090
	W	1590	1390	1200	1030	850	680	530	390	240	190
10	Q	6130	5520	4910	4290	3680	3070	2450	1840	1230	990
	W	1500	1320	1140	970	800	650	500	370	230	180
7	Q	5600	5040	4480	3920	3360	2800	2240	1680	1120	900
	W	1440	1260	1090	930	770	620	480	350	220	170
5	Q	5220	4700	4180	3660	3130	2610	2090	1570	1040	840
	W	1400	1220	1060	900	750	600	470	340	210	160
2	Q	4680	4210	3750	3280	2810	2340	1870	1400	940	750
	W	1330	1160	1000	860	710	570	440	320	200	160
0	Q	3660	3290	2930	2560	2190	1830	1460	1100	730	590
	W	1180	1030	890	760	630	510	390	290	180	140
-5	Q	3660	3290	2930	2560	2190	1830	1460	1100	730	590
	W	1180	1030	890	760	630	510	390	290	180	140
-7	Q	3440	3090	2750	2410	2060	1720	1380	1030	690	550
	W	1140	1000	870	740	610	490	380	280	170	130
-10	Q	3150	2830	2520	2200	1890	1570	1260	940	630	510
	W	1100	960	830	710	590	470	370	270	170	130
-15	Q	2650	2390	2120	1860	1590	1330	1060	800	530	430
	W	1030	900	780	670	550	440	340	250	160	120

2-5-6. Fan static characteristics

RAV-SM404SDT-E, RAV-SM454SDT-E



RAV-SM564SDT-E

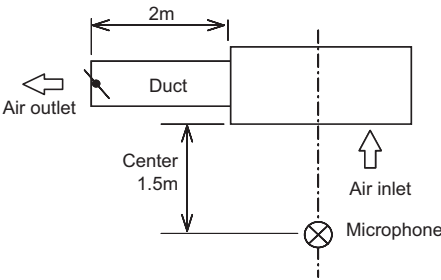


2-5-7. Sound characteristics (NC curve)

RAV-SM404SDT-E, RAV-SM454SDT-E

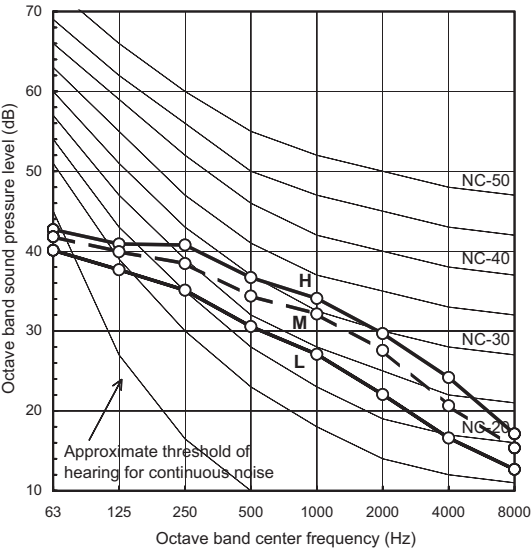
[Measuring location]

Under air intake



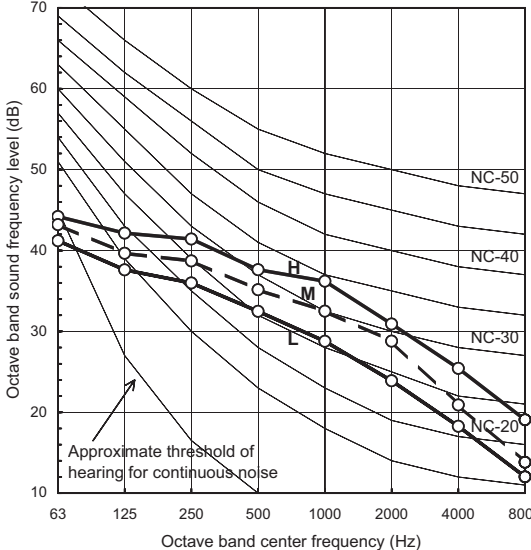
[External static pressure 10Pa]

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



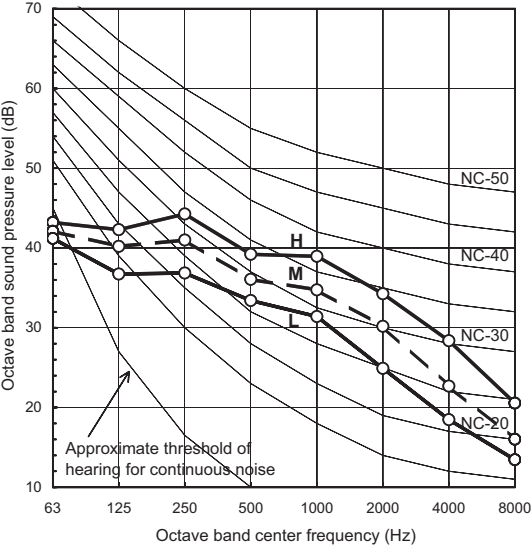
[External static pressure 20Pa]

Fan tap	H	M	L
Sound pressure level (dB(A))	40	37	34



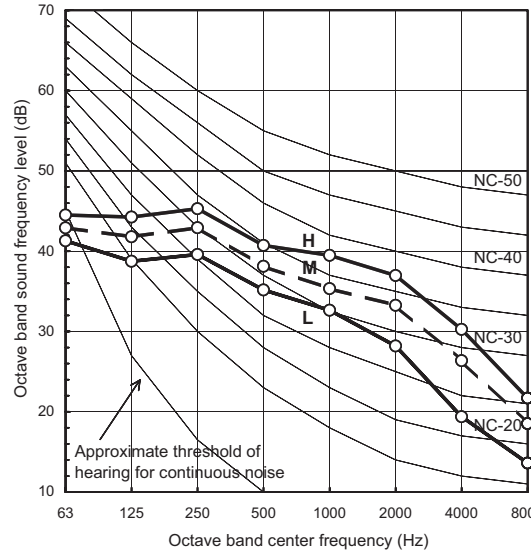
[External static pressure 35Pa]

Fan tap	H	M	L
Sound pressure level (dB(A))	41	38	35



[External static pressure 50Pa]

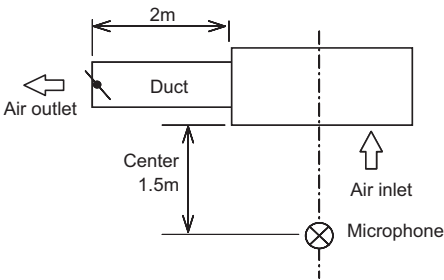
Fan tap	H	M	L
Sound pressure level (dB(A))	43	40	37



RAV-SM564SDT-E

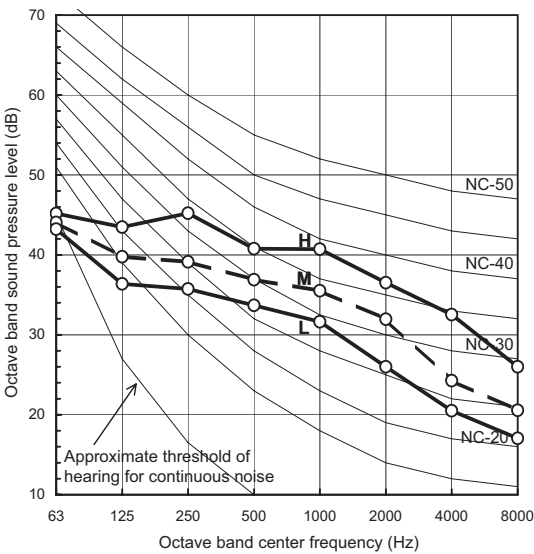
[Measuring location]

Under air intake



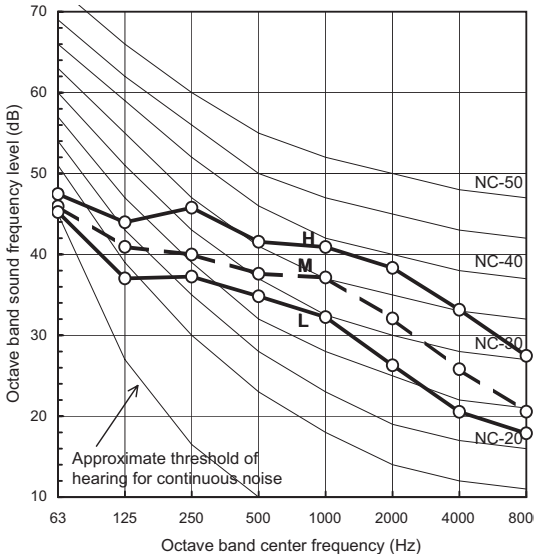
[External static pressure 10Pa]

Fan tap	H	M	L
Sound pressure level (dB(A))	45	40	36



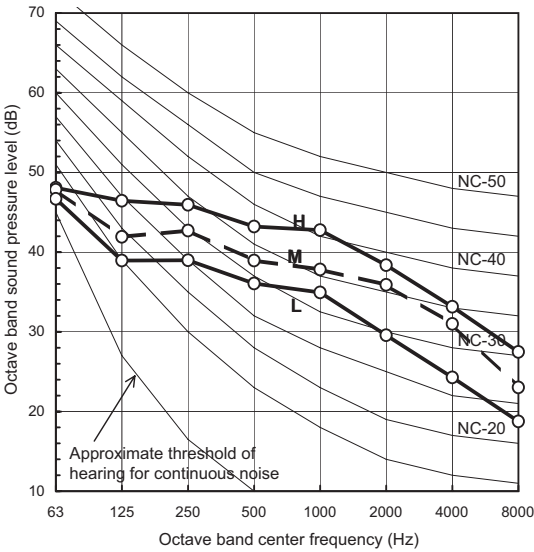
[External static pressure 20Pa]

Fan tap	H	M	L
Sound pressure level (dB(A))	46	41	37



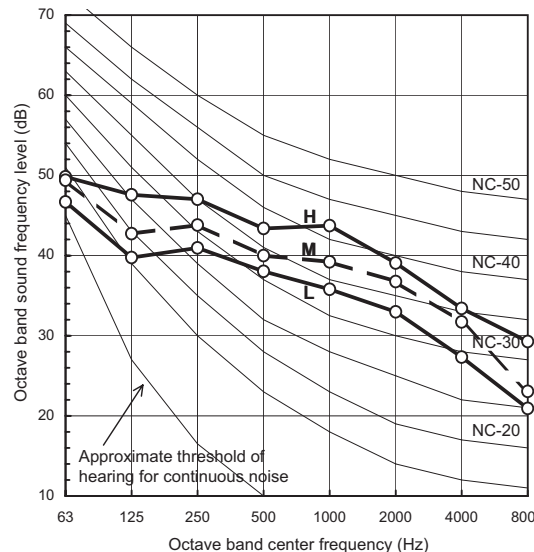
[External static pressure 35Pa]

Fan tap	H	M	L
Sound pressure level (dB(A))	47	43	39



[External static pressure 50Pa]

Fan tap	H	M	L
Sound pressure level (dB(A))	48	44	41



2-6. 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)

2-6-1. Specifications

<Single type>

Model	Indoor unit	RAV-SM	564CT-E	804CT-E	1104CT-E	1404CT-E
	Outdoor unit	RAV-SP	564AT(Z)(ZG)-E	804AT(Z)(ZG)-E	1104AT(Z)(ZG)-E	1404AT(Z)(ZG)-E
Cooling capacity		(kW)	5.0	7.1	10.0	12.5
Heating capacity		(kW)	5.6	8.0	11.2	14.0
Power supply			1 phase 230V (220 – 240V) 50Hz			
Electrical characteristics	Cooling	Running current (A)	7.24 – 6.63	10.36 – 9.49	12.51 – 11.47	17.30 – 15.86
		Power consumption (kW)	1.56	2.21	2.67	3.73
		Power factor (%)	98	97	97	98
		EER	3.21	3.21	3.75	3.35
		Energy efficiency class *	A	A	A	A
	Heating	Running current (A)	6.82 – 6.25	10.12 – 9.28	12.28 – 11.25	16.93 – 15.52
		Power consumption (kW)	1.47	2.16	2.62	3.65
		Power factor (%)	98	97	97	98
		COP	3.81	3.70	4.27	3.84
		Energy efficiency class *	A	A	A	A
	Maximum current (A)		13.5	20.5	21.35	21.35
Appearance	Main unit		Shine white			
Outer dimension	Main unit	Height (mm)	210	210	210	210
		Width (mm)	910	1180	1595	1595
		Depth (mm)	680	680	680	680
Total weight	Main unit	(kg)	21	25	33	33
Heat exchanger			Finned tube			
Fan unit	Fan		Centrifugal			
	Standard air flow	H/M/L (m³/min.)	13.0/11.2/10.0	18.5/16.7/14.6	27.5/24.0/21.2	30.0/26.0/23.1
	Motor	(W)	60	60	120	120
Air filter			Attached main unit			
Controller (Sold separately)			RBC-AMT32E, AMS41E, AS21E2, AX21CE2, TCB-EXS21TLE			
Sound pressure level		H/M/L (dB•A)	36/33/30	38/36/33	41/38/36	43/40/37
Sound power level		H/M/L (dB•A)	51/48/45	53/51/48	56/53/50	58/55/52
Connecting pipe	Gas side	(mm)	12.7	15.9	15.9	15.9
	Liquid side	(mm)	6.4	9.5	9.5	9.5
	Drain port	(mm)	VP20		VP25	

* : IEC standard

*1 : The cooling capacities and electrical characteristics are measured under the conditions specified by JIS B 8615 based on the reference piping. The reference piping consists of 5 m of main piping and 2.5 m of branch piping connected with 0 meter height.

*2 : The sound level are measured in an anechoic chamber in accordance with JIS B 8616. Normally, the values measured in the actual operating environment become larger than the indicated values due to the effects of external sound.

Note :

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

<Twin type>

Model	Indoor unit 1		RAV-SM	564CT-E	804CT-E
	Indoor unit 2		RAV-SM	564CT-E	804CT-E
	Outdoor unit		RAV-SP	1104AT(Z)(ZG)-E	1404AT(Z)(ZG)-E
Cooling capacity			(kW)	10.0	12.5
Heating capacity			(kW)	11.2	14.0
Indoor unit					
Power supply			1 phase 230V (220 – 240V) 50Hz		
Electrical characteristics	Cooling	Running current (A)		12.51 – 11.47	17.30 – 15.89
		Power consumption (kW)		2.67	3.73
		Power factor (%)		97	98
		EER		3.75	3.35
		Energy efficiency class *		A	A
	Heating	Running current (A)		12.28 – 11.25	16.93 – 15.52
		Power consumption (kW)		2.62	3.65
		Power factor (%)		97	98
		COP		4.27	3.84
		Energy efficiency class *		A	A
Fan unit	Fan		Centrifugal		
	Standard air flow	H/M/L (m³/min.)	13.0/11.2/10.0		18.5/16.7/14.6
	Motor (W)		60		60
Sound pressure level		H/M/L (dB•A)	36/33/30		38/36/33
Sound power level		H/M/L (dB•A)	51/48/45		53/51/48
Outdoor unit					
Power supply			1 phase 230V (220 – 240V) 50Hz		
Refrigerant pipe	Standard length (m)		7.5		7.5
	Min. length (m)		3		3
	Max. total length (m)		75		75
	Refrigerant charging amount (Charge-less up to 30m)		40g/m (31m to 50m)		
	Height difference	Outdoor lower (m)	30		30
		Outdoor higher (m)	30		30
Fan unit	Fan		Propeller fan		
	Standard air flow (m³/min.)		101		103
	Motor (W)		100 + 100		100 + 100
Connecting pipe	Gas side	Main (mm)	15.9		15.9
		Sub (mm)	12.7		15.9
	Liquid side	Main (mm)	9.5		9.5
		Sub (mm)	6.4		9.5
Sound pressure level		Cooling/Heating (dB•A)	49/50		51/52
Sound power level		Cooling/Heating (dB•A)	66/67		68/69

*: IEC standard

<Single type>

Model	Indoor unit		RAV-SM	564CT-E	804CT-E
	Outdoor unit		RAV-SP	564AT(J)P-E	804AT(J)P-E
Cooling capacity			(kW)	5.0	7.1
Heating capacity			(kW)	5.6	8.0
Power supply			1 phase 230V (220 – 240V) 50Hz		
Electrical characteristics	Cooling	Running current	(A)	7.24 – 6.63	10.36 – 9.49
		Power consumption	(kW)	1.56	2.21
		Power factor	(%)	98	97
		EER		3.21	3.21
		Energy efficiency class *		A	A
	Heating	Running current	(A)	6.82 – 6.25	10.12 – 9.28
		Power consumption	(kW)	1.47	2.16
		Power factor	(%)	98	97
		COP		3.81	3.70
		Energy efficiency class *		A	A
Maximum current		(A)	13.5	20.5	
Appearance	Main unit		Shine white		
Outer dimension	Main unit	Height	(mm)	210	210
		Width	(mm)	910	1180
		Depth	(mm)	680	680
Total weight	Main unit		(kg)	21	25
Heat exchanger			Finned tube		
Fan unit	Fan		Centrifugal		
	Standard air flow	H/M/L	(m³/min.)	13.0/11.2/10.0	18.5/16.7/14.6
	Motor		(W)	60	60
Air filter			Attached main unit		
Controller (Sold separately)			RBC-AMT32E, AMS41E, AS21E2, AX21CE2, TCB-EXS21TLE		
Sound pressure level		H/M/L	(dB•A)	36/33/30	38/36/33
Sound power level		H/M/L	(dB•A)	51/48/45	53/51/48
Connecting pipe		Gas side	(mm)	12.7	15.9
		Liquid side	(mm)	6.4	9.5
		Drain port	(mm)	VP20	

*: IEC standard

*1 : The cooling capacities and electrical characteristics are measured under the conditions specified by JIS B 8615 based on the reference piping. The reference piping consists of 5 m of main piping and 2.5 m of branch piping connected with 0 meter height.

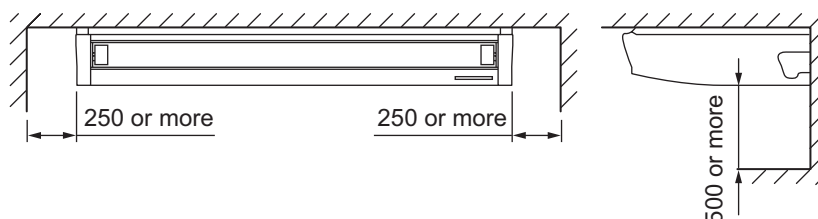
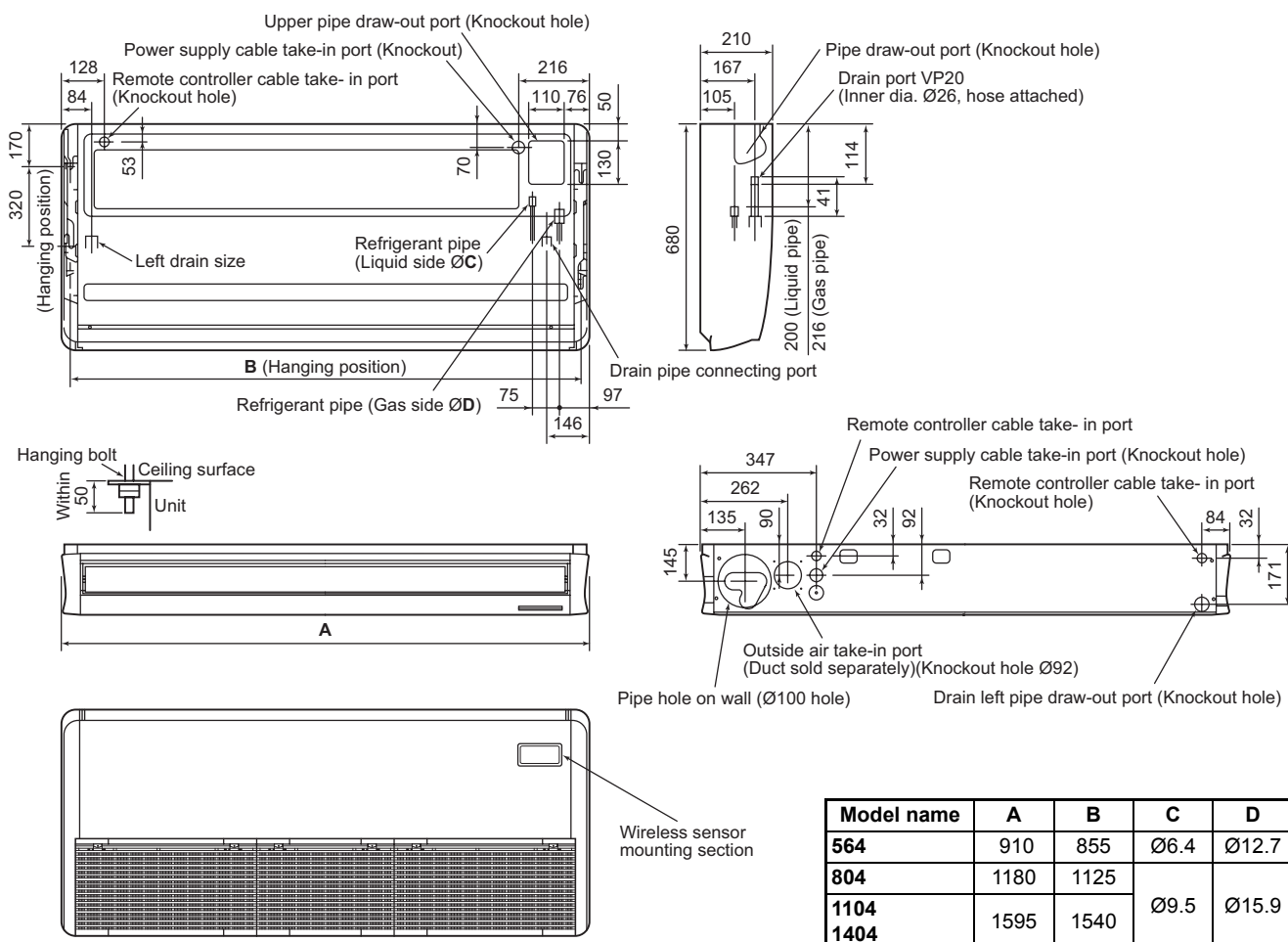
*2 : The sound level are measured in an anechoic chamber in accordance with JIS B 8616. Normally, the values measured in the actual operating environment become larger than the indicated values due to the effects of external sound.

Note :

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

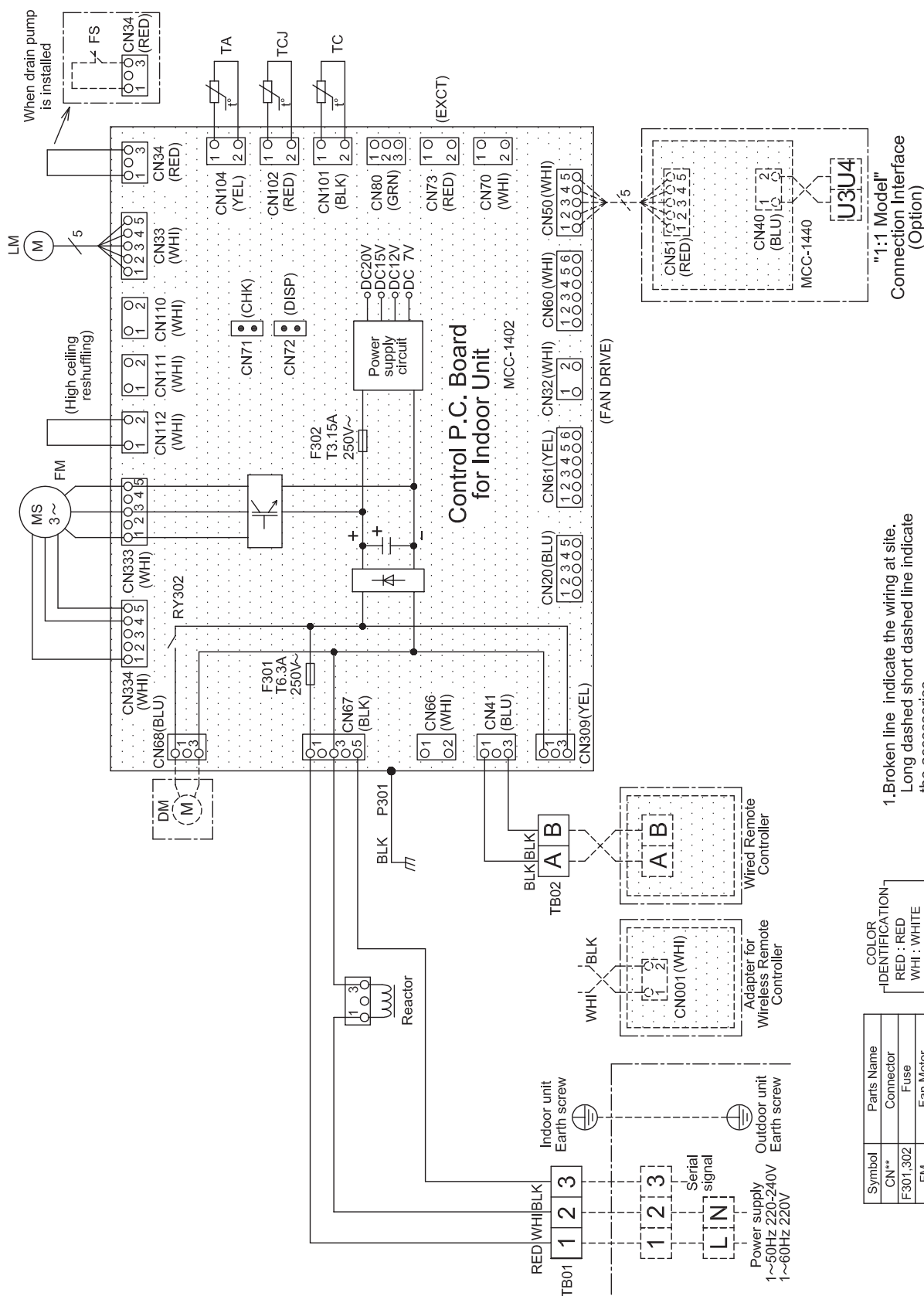
2-6-2. Dimension

RAV-SM564CT-E, RAV-SM804CT-E, RAV-SM1104CT-E, RAV-SM1404CT-E



2-6-3. Wiring diagrams

RAV-SM564CT-E, RAV-SM804CT-E, RAV-SM1104CT-E, RAV-SM1404CT-E



1. Broken line indicates the wiring at site.
Long dashed short dashed line indicates the accessories.
2.  indicates the terminal block.
3.  indicates the connection terminal.
4.  indicates the connector on the control P.C. board.
5.  indicates the protection ground.
6.  indicates the control P.C. board.
7. When installing the drain pump connect the float switch connector to CN34 connector.

Symbol	Parts Name	COLOR IDENTIFICATION
CN**	Connector	RED : RED
F301.302	Fuse	WHI : WHITE
FM	Fan Motor	YEL : YELLOW
LM	Louver Motor	BLU : BLUE
RY302	Drain Control Relay	BLK : BLACK
TA	Indoor temp sensor	GRY : GRAY
TB01.02	Terminal Block	PNK : PINK
TC,TCJ	Temp sensor	ORN : ORANGE
DM	Drain Pump Motor	BRW : BROWN
ES	Floet Switch	GRN : GREEN

Sold Separately

2-6-4. Sensible capacity table

Super Digital Inverter 4 Series Sensible Heat Capacity : RAV-SM***CT-E

unit size	outdoor air temp. CDB	indoor air temp.																	
		14.0CWB 20.0CDB		15.0CWB 21.5CDB		16.0CWB 23.0CDB		17.0CWB 24.5CDB		18.0CWB 26.0CDB		19.0CWB 27.0CDB		20.0CWB 28.0CDB		22.0CWB 30.0CDB		24.0CWB 32.0CDB	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
564	10.0	4.7	2.8	4.9	3.0	5.2	3.1	5.4	3.3	5.6	3.4	5.7	3.5	5.9	3.6	6.2	3.8	6.5	3.9
	12.0	4.7	2.8	4.9	3.0	5.2	3.1	5.3	3.2	5.5	3.3	5.7	3.4	5.8	3.5	6.2	3.7	6.5	3.9
	14.0	4.6	2.8	4.9	3.0	5.1	3.1	5.3	3.2	5.5	3.3	5.6	3.4	5.8	3.5	6.1	3.7	6.4	3.9
	16.0	4.6	2.8	4.8	2.9	5.1	3.1	5.3	3.2	5.4	3.3	5.6	3.4	5.8	3.5	6.1	3.7	6.4	3.9
	18.0	4.6	2.8	4.8	2.9	5.0	3.1	5.2	3.2	5.4	3.3	5.6	3.4	5.7	3.5	6.1	3.7	6.3	3.8
	20.0	4.5	2.7	4.8	2.9	5.0	3.0	5.2	3.1	5.4	3.2	5.5	3.3	5.7	3.4	6.0	3.6	6.3	3.8
	21.0	4.5	2.7	4.7	2.9	5.0	3.0	5.2	3.1	5.3	3.2	5.5	3.3	5.6	3.4	6.0	3.6	6.3	3.8
	23.0	4.5	2.7	4.7	2.8	4.9	3.0	5.1	3.1	5.3	3.2	5.4	3.3	5.6	3.4	5.9	3.6	6.2	3.7
	25.0	4.4	2.7	4.6	2.8	4.9	3.0	5.0	3.1	5.2	3.2	5.4	3.3	5.5	3.3	5.9	3.5	6.1	3.7
	27.0	4.4	2.6	4.6	2.8	4.8	2.9	5.0	3.0	5.2	3.1	5.3	3.2	5.5	3.3	5.8	3.5	6.0	3.7
	29.0	4.3	2.6	4.5	2.7	4.8	2.9	4.9	3.0	5.1	3.1	5.2	3.2	5.4	3.3	5.7	3.5	6.0	3.6
	31.0	4.2	2.6	4.5	2.7	4.7	2.8	4.9	2.9	5.0	3.0	5.2	3.1	5.3	3.2	5.6	3.4	5.9	3.6
	33.0	4.2	2.5	4.4	2.7	4.6	2.8	4.8	2.9	4.9	3.0	5.1	3.1	5.2	3.2	5.5	3.4	5.8	3.5
	35.0	4.1	2.5	4.3	2.6	4.5	2.7	4.7	2.8	4.9	2.9	5.0	3.0	5.1	3.1	5.4	3.3	5.7	3.4
	37.0	4.0	2.4	4.2	2.6	4.4	2.7	4.6	2.8	4.8	2.9	4.9	3.0	5.0	3.1	5.3	3.2	5.6	3.4
	39.0	3.9	2.4	4.2	2.5	4.4	2.6	4.5	2.7	4.7	2.8	4.8	2.9	4.9	3.0	5.2	3.2	5.5	3.3

unit size	outdoor air temp. CDB	indoor air temp.																	
		14.0CWB 20.0CDB		15.0CWB 21.5CDB		16.0CWB 23.0CDB		17.0CWB 24.5CDB		18.0CWB 26.0CDB		19.0CWB 27.0CDB		20.0CWB 28.0CDB		22.0CWB 30.0CDB		24.0CWB 32.0CDB	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
804	10.0	6.7	4.1	7.0	4.3	7.4	4.5	7.6	4.7	7.9	4.9	8.1	5.0	8.3	5.1	8.8	5.4	9.2	5.7
	12.0	6.6	4.1	7.0	4.3	7.3	4.5	7.6	4.7	7.8	4.8	8.1	5.0	8.3	5.1	8.8	5.4	9.2	5.7
	14.0	6.6	4.1	6.9	4.3	7.3	4.5	7.5	4.7	7.8	4.8	8.0	5.0	8.2	5.1	8.7	5.4	9.1	5.6
	16.0	6.5	4.0	6.9	4.3	7.2	4.5	7.5	4.6	7.7	4.8	8.0	4.9	8.2	5.1	8.7	5.4	9.1	5.6
	18.0	6.5	4.0	6.8	4.2	7.2	4.4	7.4	4.6	7.7	4.7	7.9	4.9	8.1	5.0	8.6	5.3	9.0	5.6
	20.0	6.4	4.0	6.8	4.2	7.1	4.4	7.4	4.5	7.6	4.7	7.8	4.8	8.1	5.0	8.5	5.3	8.9	5.5
	21.0	6.4	4.0	6.7	4.2	7.1	4.4	7.3	4.5	7.6	4.7	7.8	4.8	8.0	5.0	8.5	5.2	8.9	5.5
	23.0	6.3	3.9	6.7	4.1	7.0	4.3	7.2	4.5	7.5	4.6	7.7	4.8	7.9	4.9	8.4	5.2	8.8	5.4
	25.0	6.3	3.9	6.6	4.1	6.9	4.3	7.2	4.4	7.4	4.6	7.6	4.7	7.9	4.9	8.3	5.1	8.7	5.4
	27.0	6.2	3.8	6.5	4.0	6.8	4.2	7.1	4.4	7.3	4.5	7.5	4.7	7.8	4.8	8.2	5.1	8.6	5.3
	29.0	6.1	3.8	6.4	4.0	6.7	4.2	7.0	4.3	7.2	4.5	7.4	4.6	7.7	4.7	8.1	5.0	8.5	5.2
	31.0	6.0	3.7	6.3	3.9	6.7	4.1	6.9	4.3	7.1	4.4	7.3	4.5	7.5	4.7	8.0	4.9	8.4	5.2
	33.0	5.9	3.7	6.2	3.9	6.5	4.0	6.8	4.2	7.0	4.3	7.2	4.5	7.4	4.6	7.9	4.9	8.2	5.1
	35.0	5.8	3.6	6.1	3.8	6.4	4.0	6.7	4.1	6.9	4.3	7.1	4.4	7.3	4.5	7.7	4.8	8.1	5.0
	37.0	5.7	3.5	6.0	3.7	6.3	3.9	6.5	4.0	6.8	4.2	7.0	4.3	7.2	4.4	7.6	4.7	7.9	4.9
	39.0	5.6	3.5	5.9	3.6	6.2	3.8	6.4	4.0	6.6	4.1	6.8	4.2	7.0	4.3	7.4	4.6	7.8	4.8

unit size	outdoor air temp. CDB	indoor air temp.																	
		14.0CWB 20.0CDB		15.0CWB 21.5CDB		16.0CWB 23.0CDB		17.0CWB 24.5CDB		18.0CWB 26.0CDB		19.0CWB 27.0CDB		20.0CWB 28.0CDB		22.0CWB 30.0CDB		24.0CWB 32.0CDB	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
1104	10.0	9.4	6.9	9.9	7.2	10.4	7.6	10.7	7.8	11.1	8.1	11.4	8.3	11.8	8.6	12.5	9.1	13.0	9.5
	12.0	9.3	6.8	9.8	7.2	10.3	7.5	10.7	7.8	11.0	8.1	11.4	8.3	11.7	8.5	12.4	9.0	12.9	9.4
	14.0	9.3	6.8	9.8	7.1	10.2	7.5	10.6	7.7	11.0	8.0	11.3	8.2	11.6	8.5	12.3	9.0	12.9	9.4
	16.0	9.2	6.7	9.7	7.1	10.2	7.4	10.5	7.7	10.9	7.9	11.2	8.2	11.5	8.4	12.2	8.9	12.8	9.3
	18.0	9.1	6.7	9.6	7.0	10.1	7.4	10.4	7.6	10.8	7.9	11.1	8.1	11.4	8.3	12.1	8.8	12.7	9.2
	20.0	9.1	6.6	9.5	7.0	10.0	7.3	10.4	7.6	10.7	7.8	11.0	8.1	11.3	8.3	12.0	8.8	12.6	9.2
	21.0	9.0	6.6	9.5	6.9	10.0	7.3	10.3	7.5	10.7	7.8	11.0	8.0	11.3	8.2	12.0	8.7	12.5	9.1
	23.0	8.9	6.5	9.4	6.9	9.9	7.2	10.2	7.5	10.6	7.7	10.9	7.9	11.2	8.2	11.8	8.6	12.4	9.0
	25.0	8.8	6.4	9.3	6.8	9.8	7.1	10.1	7.4	10.4	7.6	10.8	7.8	11.1	8.1	11.7	8.5	12.2	8.9
	27.0	8.7	6.4	9.2	6.7	9.6	7.0	10.0	7.3	10.3	7.5	10.6	7.8	10.9	8.0	11.6	8.4	12.1	8.8
	29.0	8.6	6.3	9.1	6.6	9.5	6.9	9.8	7.2	10.2	7.4	10.5	7.7	10.8	7.9	11.4	8.3	11.9	8.7
	31.0	8.5	6.2	8.9	6.5	9.4	6.8	9.7	7.1	10.0	7.3	10.3	7.5	10.6	7.8	11.3	8.2	11.8	8.6
	33.0	8.4	6.1	8.8	6.4	9.2	6.7	9.6	7.0	9.9	7.2	10.2	7.4	10.5	7.6	11.1	8.1	11.6	8.5
	35.0	8.2	6.0	8.6	6.3	9.1	6.6	9.4	6.9	9.7	7.1	10.0	7.3	10.3	7.5	10.9	8.0	11.4	8.3
	37.0	8.1	5.9	8.5	6.2	8.9	6.5	9.2	6.7	9.5	7.0	9.8	7.2	10.1	7.4	10.7	7.8	11.2	8.2
	39.0	7.9	5.8	8.3	6.1	8.7	6.4	9.0	6.6	9.3	6.8	9.6	7.0	9.9	7.2	10.5	7.6	10.9	8.0

indoor air temp.																			
unit size	outdoor air temp. CDB	14.0CWB 20.0CDB		15.0CWB 21.5CDB		16.0CWB 23.0CDB		17.0CWB 24.5CDB		18.0CWB 26.0CDB		19.0CWB 27.0CDB		20.0CWB 28.0CDB		22.0CWB 30.0CDB		24.0CWB 32.0CDB	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
1404	10.0	11.7	8.6	12.3	9.0	13.0	9.5	13.4	9.8	13.9	10.1	14.3	10.4	14.7	10.7	15.6	11.4	16.3	11.9
	12.0	11.7	8.5	12.3	9.0	12.9	9.4	13.3	9.7	13.8	10.1	14.2	10.4	14.6	10.7	15.5	11.3	16.2	11.8
	14.0	11.6	8.5	12.2	8.9	12.8	9.3	13.3	9.7	13.7	10.0	14.1	10.3	14.5	10.6	15.4	11.2	16.1	11.7
	16.0	11.5	8.4	12.1	8.8	12.7	9.3	13.2	9.6	13.6	9.9	14.0	10.2	14.4	10.5	15.3	11.1	16.0	11.7
	18.0	11.4	8.3	12.0	8.8	12.6	9.2	13.1	9.5	13.5	9.9	13.9	10.1	14.3	10.4	15.1	11.1	15.8	11.6
	20.0	11.3	8.3	11.9	8.7	12.5	9.1	12.9	9.5	13.4	9.8	13.8	10.1	14.2	10.4	15.0	11.0	15.7	11.5
	21.0	11.3	8.2	11.9	8.7	12.4	9.1	12.9	9.4	13.3	9.7	13.7	10.0	14.1	10.3	15.0	10.9	15.6	11.4
	23.0	11.2	8.1	11.7	8.6	12.3	9.0	12.8	9.3	13.2	9.6	13.6	9.9	14.0	10.2	14.8	10.8	15.5	11.3
	25.0	11.0	8.1	11.6	8.5	12.2	8.9	12.6	9.2	13.1	9.5	13.4	9.8	13.8	10.1	14.6	10.7	15.3	11.2
	27.0	10.9	8.0	11.5	8.4	12.0	8.8	12.5	9.1	12.9	9.4	13.3	9.7	13.7	10.0	14.5	10.6	15.1	11.0
	29.0	10.8	7.9	11.3	8.3	11.9	8.7	12.3	9.0	12.7	9.3	13.1	9.6	13.5	9.8	14.3	10.4	14.9	10.9
	31.0	10.6	7.7	11.2	8.1	11.7	8.6	12.1	8.9	12.5	9.2	12.9	9.4	13.3	9.7	14.1	10.3	14.7	10.7
	33.0	10.4	7.6	11.0	8.0	11.5	8.4	11.9	8.7	12.3	9.0	12.7	9.3	13.1	9.5	13.8	10.1	14.5	10.6
	35.0	10.3	7.5	10.8	7.9	11.3	8.3	11.7	8.6	12.1	8.9	12.5	8.9	12.9	9.4	13.6	9.9	14.2	10.4
	37.0	10.1	7.4	10.6	7.7	11.1	8.1	11.5	8.4	11.9	8.7	12.3	9.0	12.6	9.2	13.4	9.8	14.0	10.2
39.0	9.9	7.2	10.4	7.6	10.9	8.0	11.3	8.2	11.7	8.5	12.0	8.8	12.4	9.0	13.1	9.6	13.7	10.0	

2-6-5. Part load performance

Combination

Indoor unit : RAV-SM564CT-E

Outdoor unit : RAV-SP564AT-E, RAV-SP564ATP-E

	Cooling		Heating	
	Capacity Q (W)	Power consumption W (W)	Capacity Q (W)	Power consumption W (W)
MINIMUM	1200	210	900	170
RATING	5000	1560	5600	1470

Q: Capacity in W

W: Power Consumption in W

Cooling

Outdoor temperature (°C)		Load (%)									
		100	90	80	70	60	50	40	30	20	10
40	Q	4730	4260	3780	3310	2840	2360	1890	1420	1140	1140
	W	1670	1440	1230	1020	830	640	470	310	230	230
35	Q	5000	4500	4000	3500	3000	2500	2000	1500	1200	1200
	W	1560	1346	1143	951	770	600	441	293	210	210
30	Q	5270	4740	4220	3690	3160	2640	2110	1580	1270	1270
	W	1450	1250	1060	880	710	560	410	270	190	190
25	Q	5540	4990	4430	3880	3330	2770	2220	1660	1330	1330
	W	1340	1150	980	810	660	510	380	250	180	180
20	Q	5810	5230	4650	4070	3490	2910	2330	1740	1400	1400
	W	1220	1060	900	750	600	470	350	230	160	160

Heating

Outdoor temperature (°C)		Load (%)									
		100	90	80	70	60	50	40	30	20	10
15	Q	6750	6080	5400	4730	4050	3380	2700	2030	1350	1090
	W	1620	1390	1170	970	780	620	470	340	230	190
10	Q	6130	5520	4910	4290	3680	3070	2450	1840	1230	990
	W	1540	1320	1110	920	740	590	450	320	220	180
7	Q	5600	5040	4480	3920	3360	2800	2240	1680	1120	900
	W	1470	1260	1060	880	710	560	430	310	210	170
5	Q	5220	4700	4180	3660	3130	2610	2090	1570	1040	840
	W	1420	1220	1030	850	690	540	420	300	200	160
2	Q	4680	4210	3750	3280	2810	2340	1870	1400	940	750
	W	1360	1160	980	810	650	520	400	290	190	160
0	Q	3660	3290	2930	2560	2190	1830	1460	1100	730	590
	W	1200	1030	870	720	580	460	350	250	170	140
-5	Q	3660	3290	2930	2560	2190	1830	1460	1100	730	590
	W	1200	1030	870	720	580	460	350	250	170	140
-7	Q	3440	3090	2750	2410	2060	1720	1380	1030	690	550
	W	1170	1000	840	700	560	440	340	250	170	130
-10	Q	3150	2830	2520	2200	1890	1570	1260	940	630	510
	W	1120	960	810	670	540	430	330	240	160	130
-15	Q	2650	2390	2120	1860	1590	1330	1060	800	530	430
	W	1050	900	760	630	510	400	310	220	150	120

Combination

Indoor unit : RAV-SM804CT-E

Outdoor unit : RAV-SP804AT-E, RAV-SP804ATP-E

	Cooling		Heating	
	Capacity Q (W)	Power consumption W (W)	Capacity Q (W)	Power consumption W (W)
MINIMUM	1900	300	1300	270
RATING	7100	2210	8000	2160

Q: Capacity in W
W: Power Consumption in W

Cooling

Outdoor temperature (°C)		Load (%)									
		100	90	80	70	60	50	40	30	20	10
40	Q	6720	6040	5370	4700	4030	3360	2690	2010	1800	1800
	W	2370	1990	1650	1340	1050	800	570	380	320	320
35	Q	7100	6390	5680	4970	4260	3550	2840	2130	1900	1900
	W	2210	1861	1540	1247	982	744	535	353	300	300
30	Q	7480	6740	5990	5240	4490	3740	2990	2250	2000	2000
	W	2050	1730	1430	1160	910	690	500	330	280	280
25	Q	7870	7080	6300	5510	4720	3930	3150	2360	2110	2110
	W	1890	1590	1320	1070	840	640	460	300	260	260
20	Q	8250	7430	6600	5780	4950	4130	3300	2480	2210	2210
	W	1730	1460	1210	980	770	580	420	280	240	240

Heating

Outdoor temperature (°C)		Load (%)									
		100	90	80	70	60	50	40	30	20	10
15	Q	9650	8680	7720	6750	5790	4820	3860	2890	1930	1570
	W	2380	2020	1690	1460	1110	870	660	500	340	300
10	Q	8760	7880	7010	6130	5260	4380	3500	2630	1750	1420
	W	2260	1910	1600	1380	1060	830	630	470	320	280
7	Q	8000	7200	6400	5600	4800	4000	3200	2400	1600	1300
	W	2160	1830	1530	1320	1010	790	600	450	310	270
5	Q	7460	6720	5970	5220	4480	3730	2990	2240	1490	1210
	W	2090	1770	1480	1280	980	770	580	440	300	260
2	Q	6690	6020	5350	4680	4010	3340	2680	2010	1340	1090
	W	1990	1690	1410	1220	930	730	550	410	290	250
0	Q	5220	4700	4180	3660	3130	2610	2090	1570	1040	850
	W	1770	1500	1250	1080	830	650	490	370	250	220
-5	Q	5220	4700	4180	3660	3130	2610	2090	1570	1040	850
	W	1770	1500	1250	1080	830	650	490	370	250	220
-7	Q	4910	4420	3930	3440	2950	2460	1960	1470	980	800
	W	1720	1450	1210	1050	800	630	480	360	250	210
-10	Q	4500	4050	3600	3150	2700	2250	1800	1350	900	730
	W	1640	1390	1160	1000	770	600	460	340	240	210
-15	Q	3790	3410	3030	2650	2280	1900	1520	1140	760	620
	W	1550	1310	1100	950	720	570	430	320	220	190

Combination

Indoor unit : RAV-SM1104CT-E

Outdoor unit : RAV-SP1104AT-E

	Cooling		Heating	
	Capacity Q (W)	Power consumption W (W)	Capacity Q (W)	Power consumption W (W)
MINIMUM	2600	640	2400	520
RATING	10000	2670	11200	2620

Q: Capacity in W
W: Power Consumption in W

Cooling

Outdoor temperature (°C)		Load (%)									
		100	90	80	70	60	50	40	30	20	10
40	Q	9510	8560	7610	6660	5710	4760	3800	2850	2470	2470
	W	2860	2380	1950	1590	1280	1000	760	540	690	690
35	Q	10000	9000	8000	7000	6000	5000	4000	3000	2600	2600
	W	2670	2213	1821	1485	1191	932	705	499	640	640
30	Q	10410	9370	8330	7290	6250	5210	4160	3120	2710	2710
	W	2470	2050	1680	1370	1100	860	650	460	590	590
25	Q	10750	9680	8600	7530	6450	5380	4300	3230	2800	2800
	W	2290	1900	1560	1270	1020	800	600	430	550	550
20	Q	11030	9930	8820	7720	6620	5520	4410	3310	2870	2870
	W	2120	1760	1450	1180	950	740	560	400	510	510

Heating

Outdoor temperature (°C)		Load (%)									
		100	90	80	70	60	50	40	30	20	10
15	Q	13510	12160	10810	9450	8100	6750	5400	4050	2890	2890
	W	2890	2540	2210	1890	1580	1290	1000	740	570	570
10	Q	12260	11040	9810	8580	7360	6130	4910	3680	2630	2630
	W	2740	2400	2090	1790	1490	1220	950	700	540	540
7	Q	11200	10080	8960	7840	6720	5600	4480	3360	2400	2400
	W	2620	2300	2000	1710	1430	1170	910	670	520	520
5	Q	10450	9400	8360	7310	6270	5220	4180	3130	2240	2240
	W	2540	2230	1940	1660	1390	1130	880	650	500	500
2	Q	9360	8430	7490	6550	5620	4680	3750	2810	2010	2010
	W	2420	2120	1840	1580	1320	1080	840	620	480	480
0	Q	7310	6580	5850	5120	4390	3660	2930	2190	1570	1570
	W	2150	1880	1640	1400	1170	960	750	550	430	430
-5	Q	7310	6580	5850	5120	4390	3660	2930	2190	1570	1570
	W	2150	1880	1640	1400	1170	960	750	550	430	430
-7	Q	6880	6190	5500	4810	4130	3440	2750	2060	1470	1470
	W	2080	1830	1590	1360	1140	930	720	530	410	410
-10	Q	6300	5670	5040	4410	3780	3150	2520	1890	1350	1350
	W	1990	1750	1520	1300	1090	890	690	510	400	400
-15	Q	5310	4780	4250	3720	3190	2650	2120	1590	1140	1140
	W	1880	1650	1440	1230	1030	840	650	480	370	370

Combination

Indoor unit : RAV-SM1404CT-E

Outdoor unit : RAV-SP1404AT-E

	Cooling		Heating	
	Capacity Q (W)	Power consumption W (W)	Capacity Q (W)	Power consumption W (W)
MINIMUM	2600	640	2400	520
RATING	12500	3730	14000	3650

Q: Capacity in W
W: Power Consumption in W

Cooling

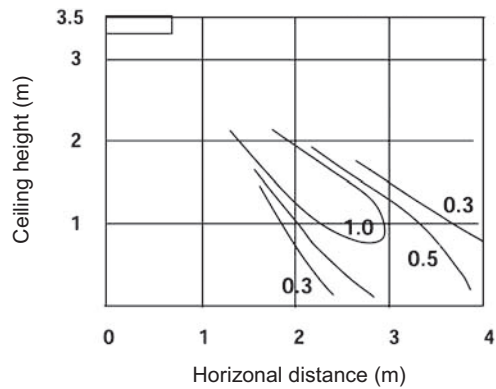
Outdoor temperature (°C)		Load (%)									
		100	90	80	70	60	50	40	30	20	10
40	Q	11890	10700	9510	8320	7130	5940	4760	3570	2470	2470
	W	4000	3320	2730	2230	1790	1400	1060	750	690	690
35	Q	12500	11250	10000	8750	7500	6250	5000	3750	2600	2600
	W	3730	3092	2544	2074	1664	1302	985	698	640	640
30	Q	13010	11710	10410	9110	7810	6510	5210	3900	2710	2710
	W	3450	2860	2350	1920	1540	1200	910	640	590	590
25	Q	13440	12090	10750	9410	8060	6720	5380	4030	2800	2800
	W	3200	2650	2180	1780	1430	1120	840	600	550	550
20	Q	13790	12410	11030	9650	8270	6890	5520	4140	2870	2870
	W	2970	2460	2020	1650	1320	1030	780	550	510	510

Heating

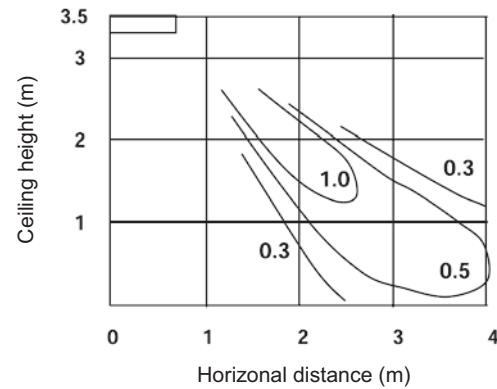
Outdoor temperature (°C)		Load (%)									
		100	90	80	70	60	50	40	30	20	10
15	Q	16880	15190	13510	11820	10130	8440	6750	5060	3380	2890
	W	4020	3530	3070	2620	2190	1790	1400	1030	670	570
10	Q	15330	13800	12260	10730	9200	7670	6130	4600	3070	2630
	W	3810	3340	2910	2490	2080	1690	1330	970	640	540
7	Q	14000	12600	11200	9800	8400	7000	5600	4200	2800	2400
	W	3650	3200	2780	2380	1990	1620	1270	930	610	520
5	Q	13060	11760	10450	9140	7840	6530	5220	3920	2610	2240
	W	3540	3100	2690	2310	1930	1570	1230	900	590	500
2	Q	11700	10530	9360	8190	7020	5850	4680	3510	2340	2010
	W	3370	2950	2560	2190	1830	1490	1170	860	560	480
0	Q	9140	8230	7310	6400	5490	4570	3660	2740	1830	1570
	W	2990	2620	2280	1950	1630	1330	1040	760	500	430
-5	Q	9140	8230	7310	6400	5490	4570	3660	2740	1830	1570
	W	2990	2620	2280	1950	1630	1330	1040	760	500	430
-7	Q	8600	7740	6880	6020	5160	4300	3440	2580	1720	1470
	W	2900	2540	2210	1890	1580	1290	1010	740	480	410
-10	Q	7870	7090	6300	5510	4720	3940	3150	2360	1570	1350
	W	2780	2440	2120	1810	1510	1230	970	710	460	400
-15	Q	6640	5970	5310	4650	3980	3320	2650	1990	1330	1140
	W	2620	2300	1990	1710	1430	1160	910	670	440	370

2-6-6. Air throw distance chart

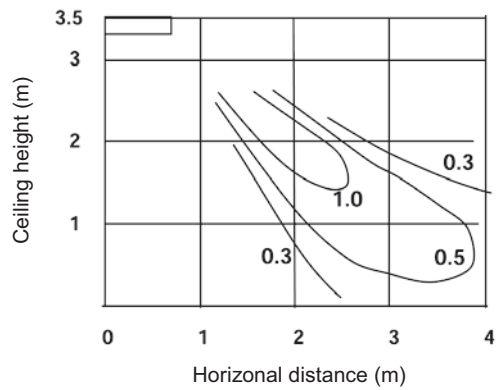
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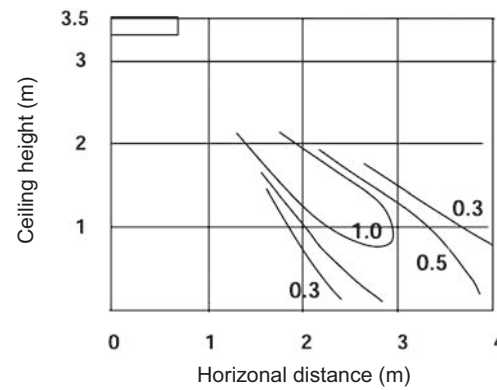
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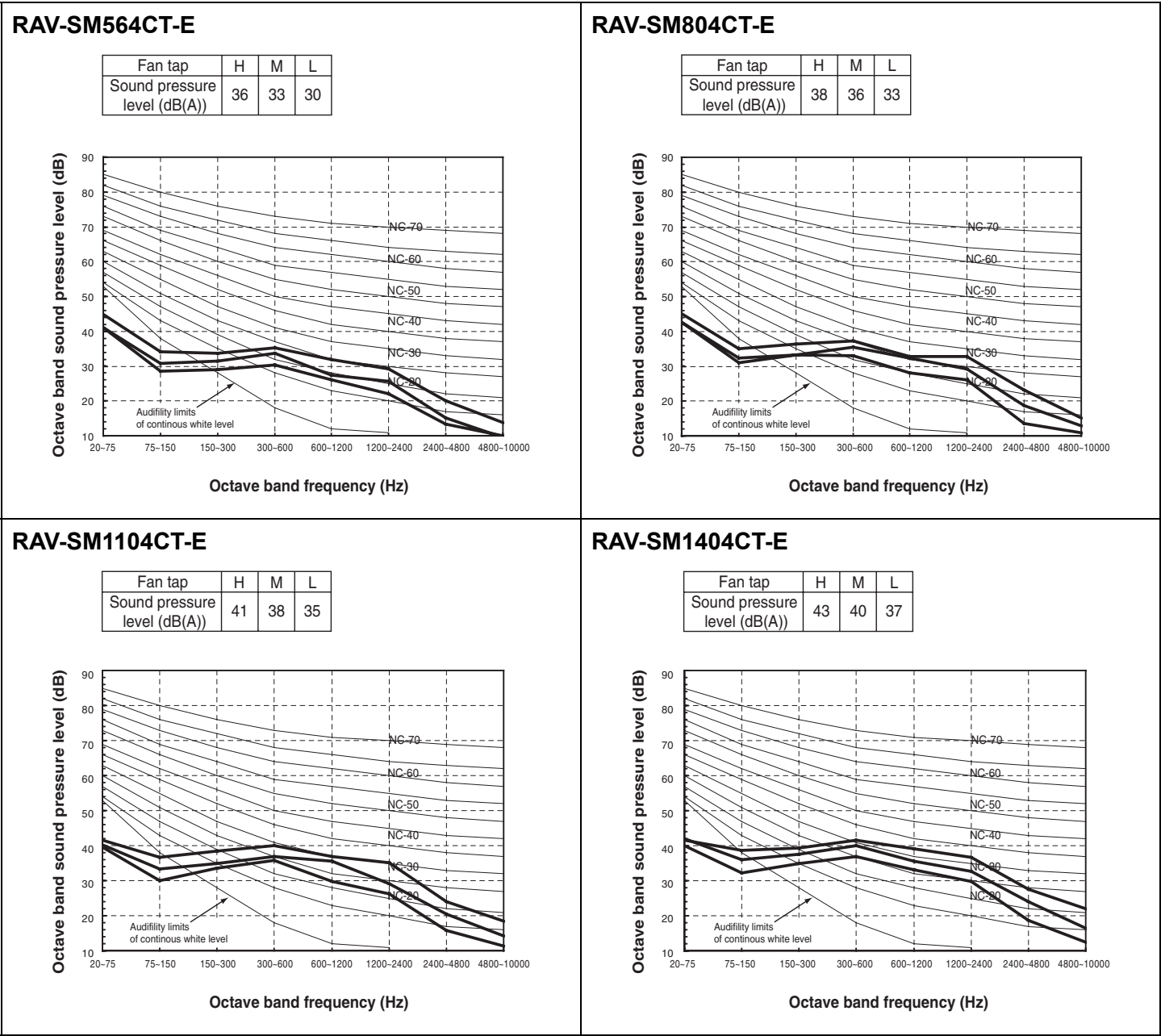
RAV-SM1104CT-E



RAV-SM1404CT-E



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



2-7. Ceiling Type (7 series)

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. Specifications

<Single type>

Model	Indoor unit	RAV-SM	567CTP-E	807CTP-E	1107CTP-E	1407CTP-E
	Outdoor unit	RAV-SP	564AT(J)P-E	804AT(J)P-E	1104AT(Z)(ZG)-E	1404AT(Z)(ZG)-E
Cooling capacity		(kW)	5.0 (1.2 – 5.6)	7.1 (1.9 – 8.0)	10.0 (2.6 – 12.0)	12.5 (2.6 – 14.0)
Heating capacity		(kW)	5.6 (0.9 – 7.4)	8.0 (1.3 – 10.6)	11.2 (2.4 – 13.0)	14.0 (2.4 – 16.5)
Power supply			1 phase 230V (220 – 240V) 50Hz			
Electrical characteristics	Cooling	Running current (A)	6.35 – 5.82	8.72 – 7.99	11.48 – 10.52	18.09 – 16.58
		Power consumption (kW)	1.37	1.86	2.45	3.90
		Power factor (%)	98	97	97	98
		EER	3.65	3.82	4.08	3.21
	Heating	Running current (A)	5.94 – 5.44	9.00 – 8.25	11.20 – 10.27	16.79 – 15.39
		Power consumption (kW)	1.28	1.92	2.39	3.62
		Power factor (%)	98	97	97	98
		COP	4.38	4.17	4.69	3.87
	Maximum current (A)		13.6	20.6	21.6	21.6
Outer dimension	Main unit	Height (mm)	235	235	235	235
		Width (mm)	950	1270	1586	1586
		Depth (mm)	690	690	690	690
Total weight	Main unit	(kg)	23	29	35	35
Heat exchanger			Finned tube			
Fan unit	Fan		Centrifugal fan			
	Standard air flow	H/M/L (m³/min.)	15.0/12.0/9.0	23.5/16.7/12.5	31.0/22.5/17.0	34.0/25.5/20.0
	Motor	(W)	94	94	139	139
Air filter			Long life filter			
Controller	Attached remote controller		None			
Sound pressure level		H/M/L (dB•A)	37/35/28	41/36/29	44/38/32	46/41/35
Sound power level		H/M/L (dB•A)	52/50/43	56/51/44	59/53/47	61/56/50
Connecting pipe	Gas side	(mm)	12.7	15.9	15.9	15.9
	Liquid side	(mm)	6.4	9.5	9.5	9.5
	Drain port	(mm)	VP20			

*1 : The cooling capacities and electrical characteristics are measured under the conditions specified by JIS B 8615 based on the reference piping. The reference piping consists of 5 m of main piping and 2.5 m of branch piping connected with 0 meter height.

*2 : The sound level are measured in an anechoic chamber in accordance with JIS B 8616. Normally, the values measured in the actual operating environment become larger than the indicated values due to the effects of external sound.

Note :

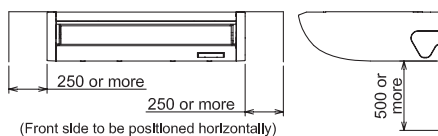
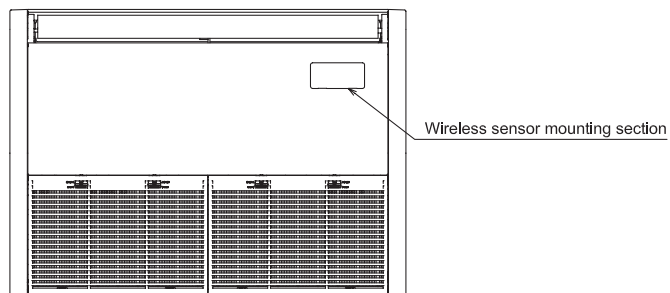
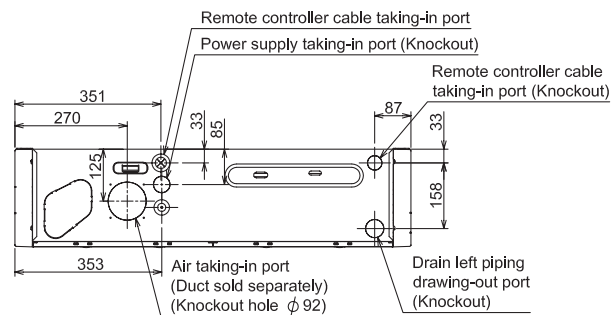
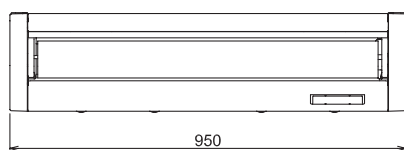
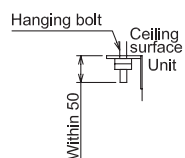
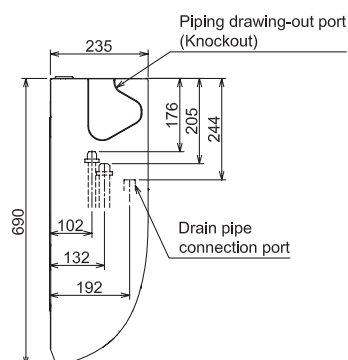
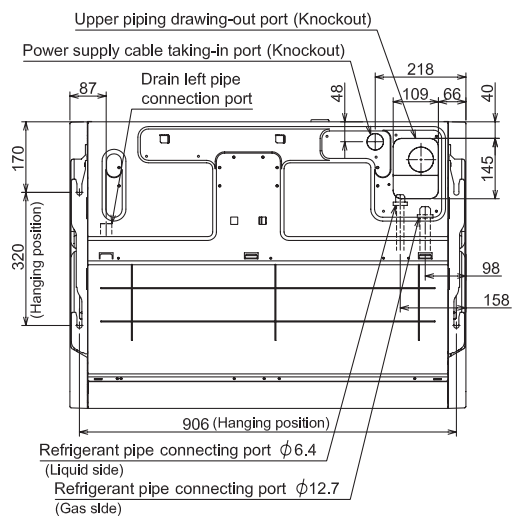
Rated conditions Cooling : Indoor air temperature 27°C DB/19°C WB, Outdoor air temperature 35°C DB
 Heating : Indoor air temperature 20°C DB, Outdoor air temperature 7°C DB/6°C WB

<Twin type>

Model	Indoor unit 1		RAV-SM	567CTP-E	807CTP-E
	Indoor unit 2		RAV-SM	567CTP-E	807CTP-E
	Outdoor unit		RAV-SP	1104AT(Z)(ZG)-E	1404AT(Z)(ZG)-E
Cooling capacity			(kW)	10.0 (2.6 – 12.0)	12.5 (2.6 – 14.0)
Heating capacity			(kW)	11.2 (2.4 – 13.0)	14.0 (2.4 – 16.5)
Indoor unit					
Power supply			1 phase 230V (220 – 240V) 50Hz		
Electrical characteristics	Cooling	Running current (220 – 240V)	(A)	11.48 – 10.52	18.09 – 16.58
		Power consumption	(kW)	2.45	3.90
		Power factor	(%)	97	98
		EER		4.08	3.21
	Heating	Running current (220 – 240V)	(A)	11.20 – 10.27	16.79 – 15.39
		Power consumption	(kW)	2.39	3.62
		Power factor	(%)	97	98
		COP		4.69	3.87
Indoor unit					
Fan unit	Fan		Centrifugal fan		
	Standard air flow	H/M/L	(m³/min.)	15.0/12.0/9.0	23.5/16.7/12.5
	Motor		(W)	94	94
Sound pressure level		H/M/L	(dB•A)	37/35/28	41/36/29
Sound power level		H/M/L	(dB•A)	52/50/43	56/51/44
Outdoor unit					
Fan unit	Fan		Propeller fan		
	Standard air flow		(m³/min.)	101	103
	Motor		(W)	100 + 100	100 + 100
Sound pressure level		Cooling/Heating	(dB•A)	49/50	51/52
Sound power level		Cooling/Heating	(dB•A)	66/67	68/69
Standard pipe length (at rated performance)			(m)	7.5	7.5
Minimum pipe length			(m)	3.0	3.0
Maximum pipe length			(m)	50.0	50.0
Max-height difference			(m)	30.0	30.0
Charge less length			(m)	30.0	30.0
	Additional refrigerant charge			40g/m (31m to 50m)	40g/m (31m to 50m)
Branch-kit				RBC-TWP30E2	RBC-TWP50E2
Connecting pipe	Gas side	Main	(mm)	15.9	15.9
		Sub	(mm)	12.7	15.9
	Liquid side	Main	(mm)	9.5	9.5
		Sub	(mm)	6.4	9.5
	Drain port		(mm)	VP20	
Operation temperature range	Cooling	(CDB)	-15 to 43		
	Heating	(CWB)	-20 to 15		

2-7-2. Dimension

RAV-SM567CTP-E

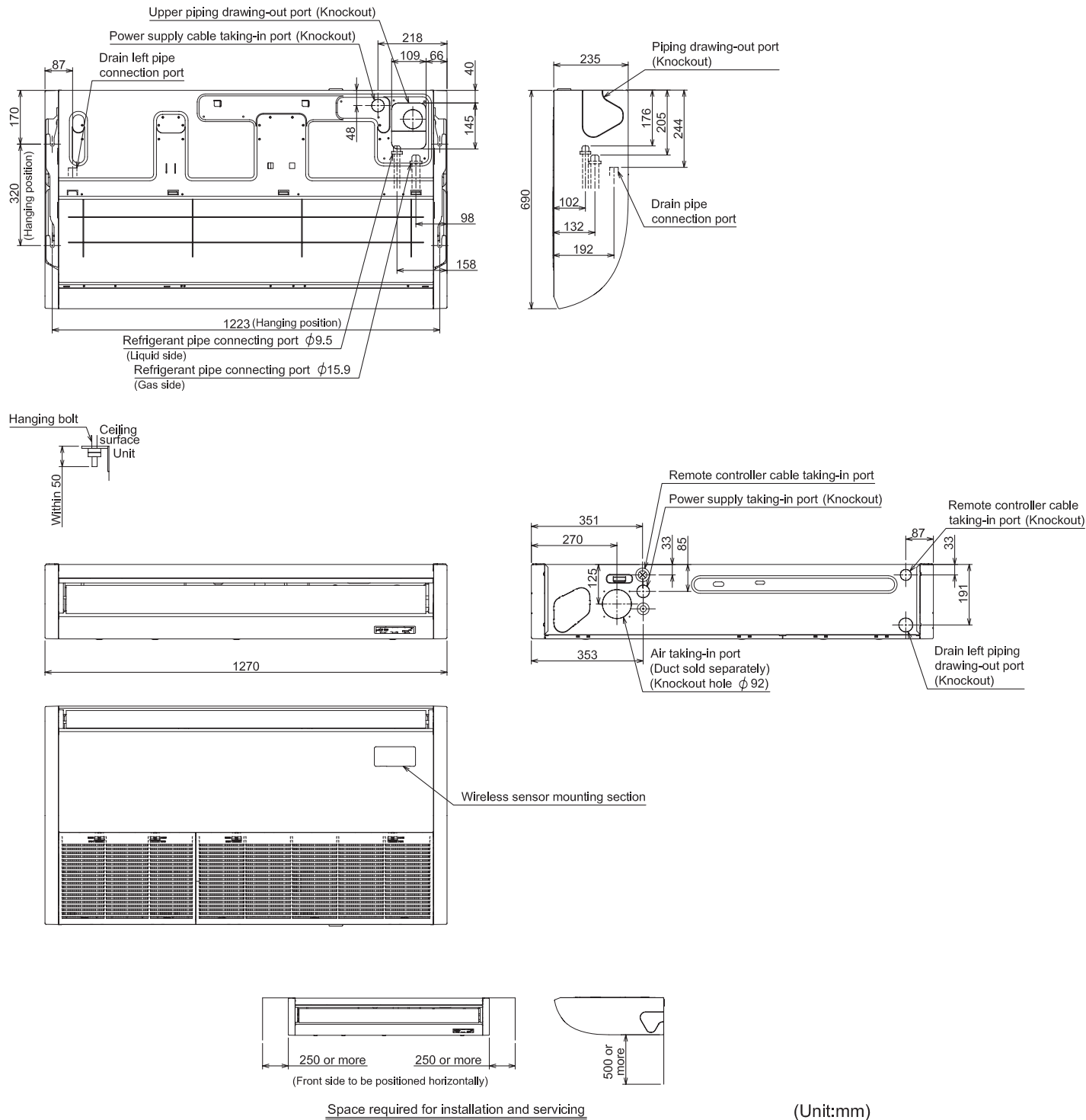


(Front side to be positioned horizontally)

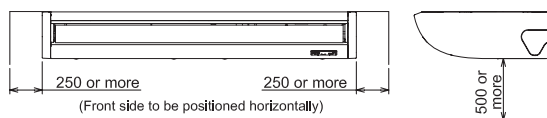
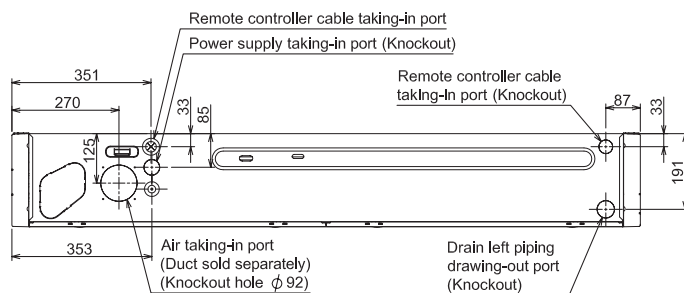
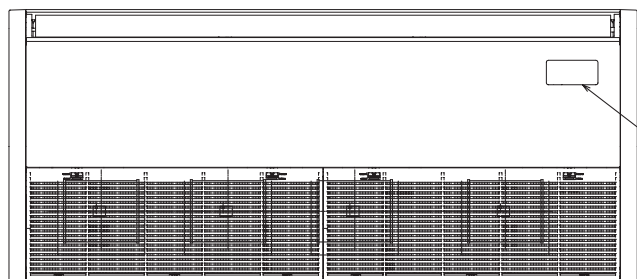
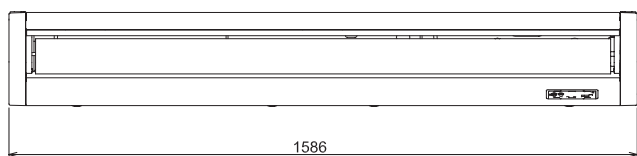
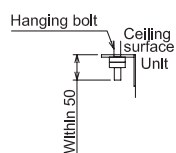
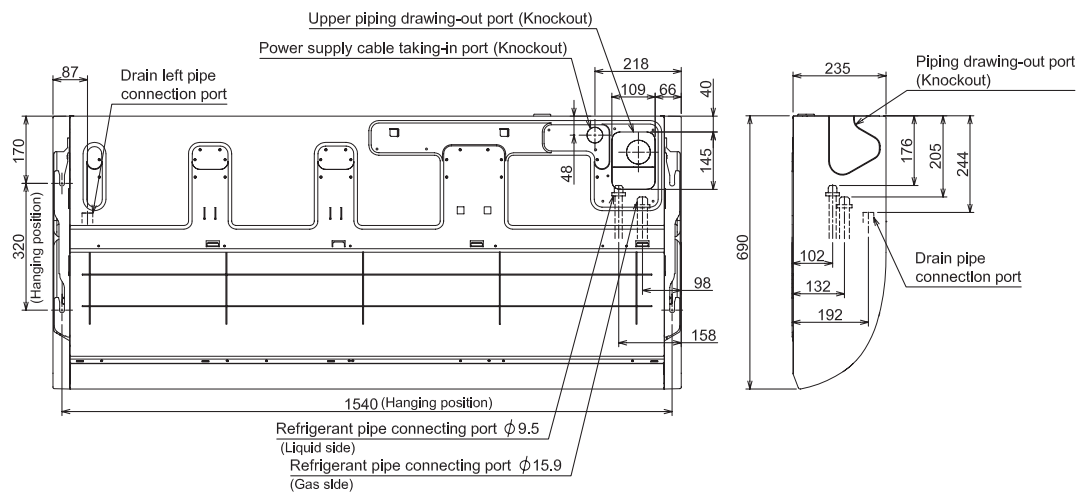
Space required for installation and servicing

(Unit:mm)

RAV-SM807CTP-E



RAV-SM1107CTP-E, RAV-SM1407CTP-E

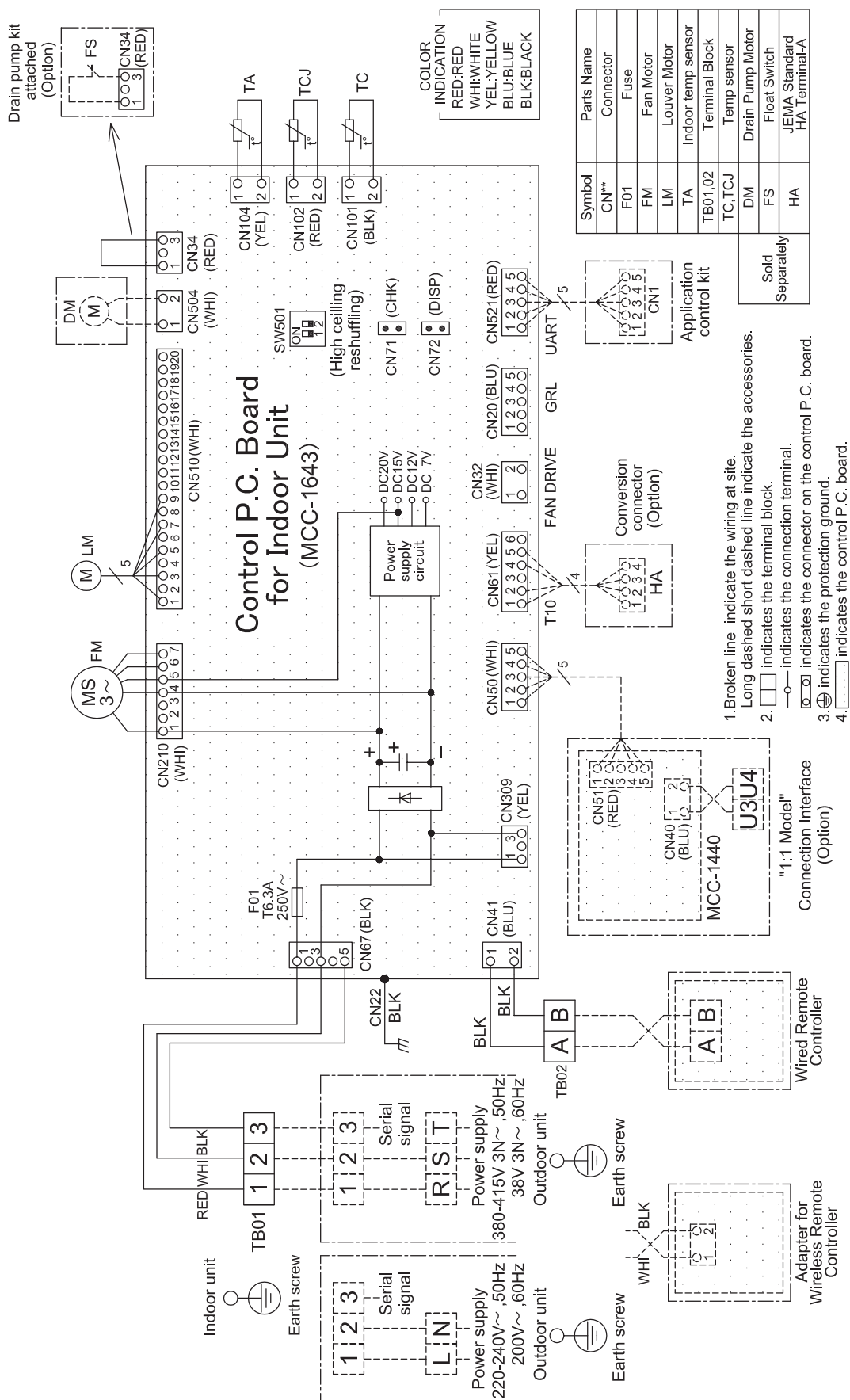


Space required for installation and servicing

(Unit:mm)

2-7-3. Wiring diagrams

RAV-SM567CTP-E, RAV-SM807CTP-E, RAV-SM1107CTP-E, RAV-SM1407CTP-E



2-7-4. Sensible capacity table

Super Digital Inverter 4 Series Sensible Heat Capacity : RAV-SM***CTP-E

unit size	outdoor air temp. CDB	indoor air temp.																	
		14.0CWB 20.0CDB		15.0CWB 21.5CDB		16.0CWB 23.0CDB		17.0CWB 24.5CDB		18.0CWB 26.0CDB		19.0CWB 27.0CDB		20.0CWB 28.0CDB		22.0CWB 30.0CDB		24.0CWB 32.0CDB	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
567	10.0	4.7	3.5	4.9	3.7	5.2	3.9	5.4	4.0	5.6	4.2	5.7	4.3	5.9	4.4	6.2	4.7	6.5	4.9
	12.0	4.7	3.5	4.9	3.7	5.2	3.9	5.3	4.0	5.5	4.1	5.7	4.3	5.8	4.4	6.2	4.6	6.5	4.9
	14.0	4.6	3.5	4.9	3.7	5.1	3.8	5.3	4.0	5.5	4.1	5.6	4.2	5.8	4.4	6.1	4.6	6.4	4.8
	16.0	4.6	3.5	4.8	3.6	5.1	3.8	5.3	3.9	5.4	4.1	5.6	4.2	5.8	4.3	6.1	4.6	6.4	4.8
	18.0	4.6	3.4	4.8	3.6	5.0	3.8	5.2	3.9	5.4	4.1	5.6	4.2	5.7	4.3	6.1	4.5	6.3	4.8
	20.0	4.5	3.4	4.8	3.6	5.0	3.8	5.2	3.9	5.4	4.0	5.5	4.1	5.7	4.3	6.0	4.5	6.3	4.7
	21.0	4.5	3.4	4.7	3.6	5.0	3.7	5.2	3.9	5.3	4.0	5.5	4.1	5.6	4.2	6.0	4.5	6.3	4.7
	23.0	4.5	3.3	4.7	3.5	4.9	3.7	5.1	3.8	5.3	4.0	5.4	4.1	5.6	4.2	5.9	4.4	6.2	4.6
	25.0	4.4	3.3	4.6	3.5	4.9	3.7	5.0	3.8	5.2	3.9	5.4	4.0	5.5	4.1	5.9	4.4	6.1	4.6
	27.0	4.4	3.3	4.6	3.4	4.8	3.6	5.0	3.7	5.2	3.9	5.3	4.0	5.5	4.1	5.8	4.3	6.0	4.5
	29.0	4.3	3.2	4.5	3.4	4.8	3.6	4.9	3.7	5.1	3.8	5.2	3.9	5.4	4.0	5.7	4.3	6.0	4.5
	31.0	4.2	3.2	4.5	3.3	4.7	3.5	4.9	3.6	5.0	3.8	5.2	3.9	5.3	4.0	5.6	4.2	5.9	4.4
	33.0	4.2	3.1	4.4	3.3	4.6	3.5	4.8	3.6	4.9	3.7	5.1	3.8	5.2	3.9	5.5	4.2	5.8	4.3
	35.0	4.1	3.1	4.3	3.2	4.5	3.4	4.7	3.5	4.9	3.6	5.0	3.8	5.1	3.9	5.4	4.1	5.7	4.3
	37.0	4.0	3.0	4.2	3.2	4.4	3.3	4.6	3.5	4.8	3.6	4.9	3.7	5.0	3.8	5.3	4.0	5.6	4.2
	39.0	3.9	3.0	4.2	3.1	4.4	3.3	4.5	3.4	4.7	3.5	4.8	3.6	4.9	3.7	5.2	3.9	5.5	4.1

unit size	outdoor air temp. CDB	indoor air temp.																	
		14.0CWB 20.0CDB		15.0CWB 21.5CDB		16.0CWB 23.0CDB		17.0CWB 24.5CDB		18.0CWB 26.0CDB		19.0CWB 27.0CDB		20.0CWB 28.0CDB		22.0CWB 30.0CDB		24.0CWB 32.0CDB	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
807	10.0	6.7	5.1	7.0	5.3	7.4	5.6	7.6	5.8	7.9	6.0	8.1	6.2	8.3	6.3	8.8	6.7	9.2	7.0
	12.0	6.6	5.0	7.0	5.3	7.3	5.6	7.6	5.8	7.8	6.0	8.1	6.1	8.3	6.3	8.8	6.7	9.2	7.0
	14.0	6.6	5.0	6.9	5.3	7.3	5.5	7.5	5.7	7.8	5.9	8.0	6.1	8.2	6.3	8.7	6.6	9.1	6.9
	16.0	6.5	5.0	6.9	5.2	7.2	5.5	7.5	5.7	7.7	5.9	8.0	6.0	8.2	6.2	8.7	6.6	9.1	6.9
	18.0	6.5	4.9	6.8	5.2	7.2	5.4	7.4	5.6	7.7	5.8	7.9	6.0	8.1	6.2	8.6	6.5	9.0	6.8
	20.0	6.4	4.9	6.8	5.1	7.1	5.4	7.4	5.6	7.6	5.8	7.8	6.0	8.1	6.1	8.5	6.5	8.9	6.8
	21.0	6.4	4.9	6.7	5.1	7.1	5.4	7.3	5.6	7.6	5.8	7.8	5.9	8.0	6.1	8.5	6.5	8.9	6.8
	23.0	6.3	4.8	6.7	5.1	7.0	5.3	7.2	5.5	7.5	5.7	7.7	5.9	7.9	6.0	8.4	6.4	8.8	6.7
	25.0	6.3	4.8	6.6	5.0	6.9	5.3	7.2	5.4	7.4	5.6	7.6	5.8	7.9	6.0	8.3	6.3	8.7	6.6
	27.0	6.2	4.7	6.5	5.0	6.8	5.2	7.1	5.4	7.3	5.6	7.5	5.7	7.8	5.9	8.2	6.2	8.6	6.5
	29.0	6.1	4.6	6.4	4.9	6.7	5.1	7.0	5.3	7.2	5.5	7.4	5.7	7.7	5.8	8.1	6.2	8.5	6.4
	31.0	6.0	4.6	6.3	4.8	6.7	5.1	6.9	5.2	7.1	5.4	7.3	5.6	7.5	5.7	8.0	6.1	8.4	6.4
	33.0	5.9	4.5	6.2	4.7	6.5	5.0	6.8	5.2	7.0	5.3	7.2	5.5	7.4	5.6	7.9	6.0	8.2	6.3
	35.0	5.8	4.4	6.1	4.7	6.4	4.9	6.7	5.1	6.9	5.2	7.1	5.4	7.3	5.6	7.7	5.9	8.1	6.1
	37.0	5.7	4.3	6.0	4.6	6.3	4.8	6.5	5.0	6.8	5.1	7.0	5.3	7.2	5.4	7.6	5.8	7.9	6.0
	39.0	5.6	4.3	5.9	4.5	6.2	4.7	6.4	4.9	6.6	5.0	6.8	5.2	7.0	5.3	7.4	5.6	7.8	5.9

unit size	outdoor air temp. CDB	indoor air temp.																	
		14.0CWB 20.0CDB		15.0CWB 21.5CDB		16.0CWB 23.0CDB		17.0CWB 24.5CDB		18.0CWB 26.0CDB		19.0CWB 27.0CDB		20.0CWB 28.0CDB		22.0CWB 30.0CDB		24.0CWB 32.0CDB	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
1107	10.0	9.4	7.1	9.9	7.5	10.4	7.9	10.7	8.2	11.1	8.4	11.4	8.7	11.8	8.9	12.5	9.5	13.0	9.9
	12.0	9.3	7.1	9.8	7.5	10.3	7.8	10.7	8.1	11.0	8.4	11.4	8.6	11.7	8.9	12.4	9.4	12.9	9.8
	14.0	9.3	7.0	9.8	7.4	10.2	7.8	10.6	8.1	11.0	8.3	11.3	8.6	11.6	8.8	12.3	9.3	12.9	9.8
	16.0	9.2	7.0	9.7	7.4	10.2	7.7	10.5	8.0	10.9	8.3	11.2	8.5	11.5	8.8	12.2	9.3	12.8	9.7
	18.0	9.1	6.9	9.6	7.3	10.1	7.7	10.4	7.9	10.8	8.2	11.1	8.5	11.4	8.7	12.1	9.2	12.7	9.6
	20.0	9.1	6.9	9.5	7.2	10.0	7.6	10.4	7.9	10.7	8.1	11.0	8.4	11.3	8.6	12.0	9.1	12.6	9.6
	21.0	9.0	6.9	9.5	7.2	10.0	7.6	10.3	7.8	10.7	8.1	11.0	8.3	11.3	8.6	12.0	9.1	12.5	9.5
	23.0	8.9	6.8	9.4	7.1	9.9	7.5	10.2	7.8	10.6	8.0	10.9	8.3	11.2	8.5	11.8	9.0	12.4	9.4
	25.0	8.8	6.7	9.3	7.1	9.8	7.4	10.1	7.7	10.4	7.9	10.8	8.2	11.1	8.4	11.7	8.9	12.2	9.3
	27.0	8.7	6.6	9.2	7.0	9.6	7.3	10.0	7.6	10.3	7.8	10.6	8.1	10.9	8.3	11.6	8.8	12.1	9.2
	29.0	8.6	6.5	9.1	6.9	9.5	7.2	9.8	7.5	10.2	7.7	10.5	8.0	10.8	8.2	11.4	8.7	11.9	9.1
	31.0	8.5	6.4	8.9	6.8	9.4	7.1	9.7	7.4	10.0	7.6	10.3	7.9	10.6	8.1	11.3	8.6	11.8	8.9
	33.0	8.4	6.3	8.8	6.7	9.2	7.0	9.6	7.3	9.9	7.5	10.2	7.7	10.5	8.0	11.1	8.4	11.6	8.8
	35.0	8.2	6.2	8.6	6.6	9.1	6.9	9.4	7.1	9.7	7.4	10.0	7.6	10.3	7.8	10.9	8.3	11.4	8.7
	37.0	8.1	6.1	8.5	6.4	8.9	6.8	9.2	7.0	9.5	7.2	9.8	7.5	10.1	7.7	10.7	8.1	11.2	8.5
	39.0	7.9	6.0	8.3	6.3	8.7	6.6	9.0	6.9	9.3	7.1	9.6	7.3	9.9	7.5	10.5	8.0	10.9	8.3

unit size	outdoor air temp. CDB	indoor air temp.																	
		14.0CWB 20.0CDB		15.0CWB 21.5CDB		16.0CWB 23.0CDB		17.0CWB 24.5CDB		18.0CWB 26.0CDB		19.0CWB 27.0CDB		20.0CWB 28.0CDB		22.0CWB 30.0CDB		24.0CWB 32.0CDB	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
1407	10.0	11.7	8.6	12.3	9.0	13.0	9.5	13.4	9.8	13.9	10.1	14.3	10.4	14.7	10.7	15.6	11.4	16.3	11.9
	12.0	11.7	8.5	12.3	9.0	12.9	9.4	13.3	9.7	13.8	10.1	14.2	10.4	14.6	10.7	15.5	11.3	16.2	11.8
	14.0	11.6	8.5	12.2	8.9	12.8	9.3	13.3	9.7	13.7	10.0	14.1	10.3	14.5	10.6	15.4	11.2	16.1	11.7
	16.0	11.5	8.4	12.1	8.8	12.7	9.3	13.2	9.6	13.6	9.9	14.0	10.2	14.4	10.5	15.3	11.1	16.0	11.7
	18.0	11.4	8.3	12.0	8.8	12.6	9.2	13.1	9.5	13.5	9.9	13.9	10.1	14.3	10.4	15.1	11.1	15.8	11.6
	20.0	11.3	8.3	11.9	8.7	12.5	9.1	12.9	9.5	13.4	9.8	13.8	10.1	14.2	10.4	15.0	11.0	15.7	11.5
	21.0	11.3	8.2	11.9	8.7	12.4	9.1	12.9	9.4	13.3	9.7	13.7	10.0	14.1	10.3	15.0	10.9	15.6	11.4
	23.0	11.2	8.1	11.7	8.6	12.3	9.0	12.8	9.3	13.2	9.6	13.6	9.9	14.0	10.2	14.8	10.8	15.5	11.3
	25.0	11.0	8.1	11.6	8.5	12.2	8.9	12.6	9.2	13.1	9.5	13.4	9.8	13.8	10.1	14.6	10.7	15.3	11.2
	27.0	10.9	8.0	11.5	8.4	12.0	8.8	12.5	9.1	12.9	9.4	13.3	9.7	13.7	10.0	14.5	10.6	15.1	11.0
	29.0	10.8	7.9	11.3	8.3	11.9	8.7	12.3	9.0	12.7	9.3	13.1	9.6	13.5	9.8	14.3	10.4	14.9	10.9
	31.0	10.6	7.7	11.2	8.1	11.7	8.6	12.1	8.9	12.5	9.2	12.9	9.4	13.3	9.7	14.1	10.3	14.7	10.7
	33.0	10.4	7.6	11.0	8.0	11.5	8.4	11.9	8.7	12.3	9.0	12.7	9.3	13.1	9.5	13.8	10.1	14.5	10.6
	35.0	10.3	7.5	10.8	7.9	11.3	8.3	11.7	8.6	12.1	8.9	12.5	9.1	12.9	9.4	13.6	9.9	14.2	10.4
	37.0	10.1	7.4	10.6	7.7	11.1	8.1	11.5	8.4	11.9	8.7	12.3	9.0	12.6	9.2	13.4	9.8	14.0	10.2
39.0	9.9	7.2	10.4	7.6	10.9	8.0	11.3	8.2	11.7	8.5	12.0	8.8	12.4	9.0	13.1	9.6	13.7	10.0	

2-7-5. Part load performance

Combination

Indoor unit : RAV-SM567CTP-E

Outdoor unit : RAV-SP564ATP-E

	Cooling		Heating	
	Capacity Q (W)	Power consumption W (W)	Capacity Q (W)	Power consumption W (W)
MINIMUM	1200	210	900	170
RATING	5000	1370	5600	1280

Q: Capacity in W
W: Power Consumption in W

Cooling

Outdoor temperature (°C)		Load (%)									
		100	90	80	70	60	50	40	30	20	10
40	Q	4730	4260	3780	3310	2840	2370	1890	1420	1140	1140
	W	1470	1260	1070	900	730	570	420	280	220	220
35	Q	5000	4500	4000	3500	3000	2500	2000	1500	1200	1200
	W	1370	1180	1000	840	680	530	390	260	210	210
30	Q	5270	4740	4220	3690	3160	2640	2110	1580	1260	1260
	W	1270	1100	930	780	630	490	360	240	200	200
25	Q	5540	4990	4430	3880	3320	2770	2220	1660	1330	1330
	W	1180	1010	860	720	580	460	340	220	180	180
20	Q	5810	5230	4650	4070	3490	2910	2320	1740	1390	1390
	W	1070	920	780	660	530	410	310	200	160	160

Heating

Outdoor temperature (°C)		Load (%)									
		100	90	80	70	60	50	40	30	20	10
15	Q	6750	6080	5400	4730	4050	3380	2700	2030	1350	1090
	W	1410	1210	1010	850	680	540	410	300	220	190
10	Q	6130	5520	4910	4290	3680	3070	2450	1840	1230	990
	W	1340	1150	960	800	650	510	390	280	210	180
7	Q	5600	5040	4480	3920	3360	2800	2240	1680	1120	900
	W	1280	1100	920	770	620	490	370	270	200	170
5	Q	5220	4700	4180	3660	3130	2610	2090	1570	1040	840
	W	1240	1070	890	750	600	470	360	260	190	160
2	Q	4680	4210	3750	3280	2810	2340	1870	1400	940	750
	W	1180	1010	850	710	570	450	340	250	180	160
0	Q	3660	3290	2930	2560	2190	1830	1460	1100	730	590
	W	1050	900	750	630	510	400	300	220	160	140
-5	Q	3660	3290	2930	2560	2190	1830	1460	1100	730	590
	W	1050	900	750	630	510	400	300	220	160	140
-7	Q	3440	3090	2750	2410	2060	1720	1380	1030	690	550
	W	1020	870	730	610	490	390	290	210	160	130
-10	Q	3150	2830	2520	2200	1890	1570	1260	940	630	510
	W	970	840	700	590	470	370	280	210	150	130
-15	Q	2650	2390	2120	1860	1590	1330	1060	800	530	430
	W	920	790	660	550	440	350	270	190	140	120
-20	Q	2170	1960	1740	1520	1300	1090	870	650	430	350
	W	860	740	620	520	420	330	250	180	130	110

Combination

Indoor unit : RAV-SM807CTP-E

Outdoor unit : RAV-SP804ATP-E

	Cooling		Heating	
	Capacity Q (W)	Power consumption W (W)	Capacity Q (W)	Power consumption W (W)
MINIMUM	1900	300	1300	270
RATING	7100	1860	8000	1920

Q: Capacity in W
W: Power Consumption in W

Cooling

Outdoor temperature (°C)		Load (%)									
		100	90	80	70	60	50	40	30	20	10
40	Q	6720	6040	5370	4700	4030	3360	2690	2010	1800	1800
	W	1990	1680	1390	1120	890	670	480	350	320	320
35	Q	7100	6390	5680	4970	4260	3550	2840	2130	1900	1900
	W	1860	1570	1300	1050	830	630	450	330	300	300
30	Q	7480	6740	5990	5240	4490	3740	2990	2250	2000	2000
	W	1730	1460	1210	980	770	590	420	310	280	280
25	Q	7870	7080	6290	5510	4720	3930	3150	2360	2110	2110
	W	1600	1350	1120	900	710	540	390	280	260	260
20	Q	8250	7430	6600	5780	4950	4130	3300	2480	2210	2210
	W	1450	1230	1020	820	650	490	350	260	230	230

Heating

Outdoor temperature (°C)		Load (%)									
		100	90	80	70	60	50	40	30	20	10
15	Q	9650	8680	7720	6750	5790	4820	3860	2890	1930	1570
	W	2120	1800	1500	1290	990	770	580	440	310	300
10	Q	8760	7880	7010	6130	5260	4380	3500	2630	1750	1420
	W	2010	1700	1420	1220	940	730	550	420	290	280
7	Q	8000	7200	6400	5600	4800	4000	3200	2400	1600	1300
	W	1920	1630	1360	1170	900	700	530	400	280	270
5	Q	7460	6720	5970	5220	4480	3730	2990	2240	1490	1210
	W	1860	1580	1320	1130	870	680	510	390	270	260
2	Q	6690	6020	5350	4680	4010	3340	2680	2010	1340	1090
	W	1770	1500	1250	1080	830	650	490	370	260	250
0	Q	5220	4700	4180	3660	3130	2610	2090	1570	1040	850
	W	1570	1330	1110	960	740	570	430	330	230	220
-5	Q	5220	4700	4180	3660	3130	2610	2090	1570	1040	850
	W	1570	1330	1110	960	740	570	430	330	230	220
-7	Q	4910	4420	3930	3440	2950	2460	1960	1470	980	800
	W	1520	1290	1080	930	710	560	420	320	220	210
-10	Q	4500	4050	3600	3150	2700	2250	1800	1350	900	730
	W	1460	1240	1030	890	680	530	400	300	210	210
-15	Q	3790	3410	3030	2650	2280	1900	1520	1140	760	620
	W	1380	1170	980	840	650	500	380	290	200	190
-20	Q	3100	2790	2480	2170	1860	1550	1240	930	620	500
	W	1290	1100	920	790	610	470	360	270	190	180

Combination

Indoor unit : RAV-SM1107CTP-E, RAV-SM567CTP-E (Twin)

Outdoor unit : RAV-SP1104AT-E

	Cooling		Heating	
	Capacity Q (W)	Power consumption W (W)	Capacity Q (W)	Power consumption W (W)
MINIMUM	2600	640	2400	520
RATING	10000	2450	11200	2390

Q: Capacity in W
W: Power Consumption in W

Cooling

Outdoor temperature (°C)		Load (%)									
		100	90	80	70	60	50	40	30	20	10
40	Q	9510	8560	7610	6660	5710	4760	3800	2850	2470	2470
	W	2620	2170	1790	1460	1170	920	720	700	690	690
35	Q	10000	9000	8000	7000	6000	5000	4000	3000	2600	2600
	W	2450	2030	1670	1360	1090	860	670	650	640	640
30	Q	10410	9370	8330	7290	6250	5210	4160	3120	2710	2710
	W	2270	1880	1540	1260	1010	800	620	600	590	590
25	Q	10750	9680	8600	7530	6450	5380	4300	3230	2800	2800
	W	2100	1740	1430	1170	930	740	570	560	550	550
20	Q	11030	9930	8820	7720	6620	5520	4410	3310	2870	2870
	W	1950	1610	1330	1080	870	680	530	520	510	510

Heating

Outdoor temperature (°C)		Load (%)									
		100	90	80	70	60	50	40	30	20	10
15	Q	13510	12160	10810	9460	8110	6760	5400	4050	2900	2900
	W	2640	2320	2010	1720	1430	1180	920	670	570	570
10	Q	12260	11030	9810	8580	7360	6130	4900	3680	2630	2630
	W	2500	2200	1900	1630	1360	1120	870	640	540	540
7	Q	11200	10080	8960	7840	6720	5600	4480	3360	2400	2400
	W	2390	2100	1820	1560	1300	1070	830	610	520	520
5	Q	10450	9410	8360	7320	6270	5230	4180	3140	2240	2240
	W	2320	2040	1760	1510	1260	1040	800	590	500	500
2	Q	9360	8420	7490	6550	5620	4680	3740	2810	2010	2010
	W	2210	1940	1680	1440	1200	990	770	560	480	480
0	Q	7310	6580	5850	5120	4390	3660	2920	2190	1570	1570
	W	1960	1720	1490	1280	1070	880	680	500	430	430
-5	Q	7310	6580	5850	5120	4390	3660	2920	2190	1570	1570
	W	1960	1720	1490	1280	1070	880	680	500	430	430
-7	Q	6880	6190	5500	4820	4130	3440	2750	2060	1470	1470
	W	1900	1670	1440	1240	1030	850	660	480	410	410
-10	Q	6300	5670	5040	4410	3780	3150	2520	1890	1350	1350
	W	1820	1600	1380	1180	990	810	630	460	390	390
-15	Q	5310	4780	4250	3720	3190	2660	2120	1590	1140	1140
	W	1710	1510	1310	1120	930	770	600	440	370	370
-20	Q	4350	3920	3480	3050	2610	2180	1740	1310	930	930
	W	1610	1420	1230	1050	880	720	560	410	350	350

Combination

Indoor unit : RAV-SM1407CTP-E, RAV-SM807CTP-E (Twin)

Outdoor unit : RAV-SP1404AT-E

	Cooling		Heating	
	Capacity Q (W)	Power consumption W (W)	Capacity Q (W)	Power consumption W (W)
MINIMUM	2600	640	2400	520
RATING	12500	3900	14000	3620

Q: Capacity in W
W: Power Consumption in W

Cooling

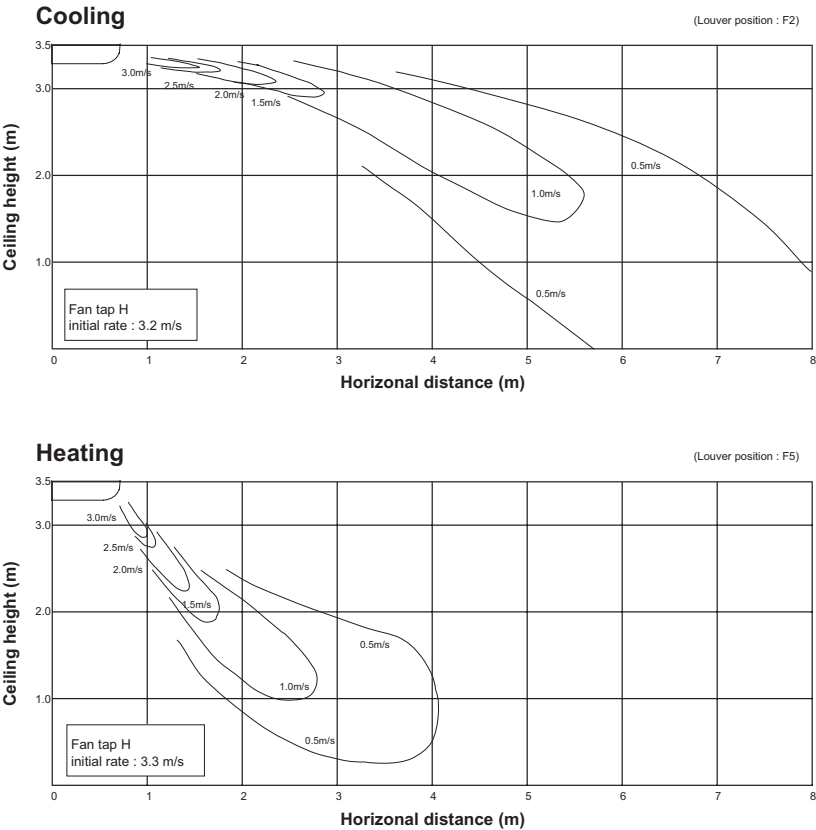
Outdoor temperature (°C)		Load (%)									
		100	90	80	70	60	50	40	30	20	10
40	Q	11890	10700	9510	8320	7130	5950	4760	3570	2470	2470
	W	4180	3460	2850	2330	1870	1460	1100	780	690	690
35	Q	12500	11250	10000	8750	7500	6250	5000	3750	2600	2600
	W	3900	3230	2660	2170	1740	1360	1030	730	640	640
30	Q	13010	11710	10410	9110	7810	6510	5200	3900	2710	2710
	W	3610	2990	2460	2010	1610	1260	950	680	590	590
25	Q	13440	12100	10750	9410	8060	6720	5380	4030	2800	2800
	W	3350	2770	2280	1860	1490	1170	880	630	550	550
20	Q	13790	12410	11030	9650	8270	6900	5520	4140	2870	2870
	W	3110	2570	2120	1730	1390	1080	820	580	510	510

Heating

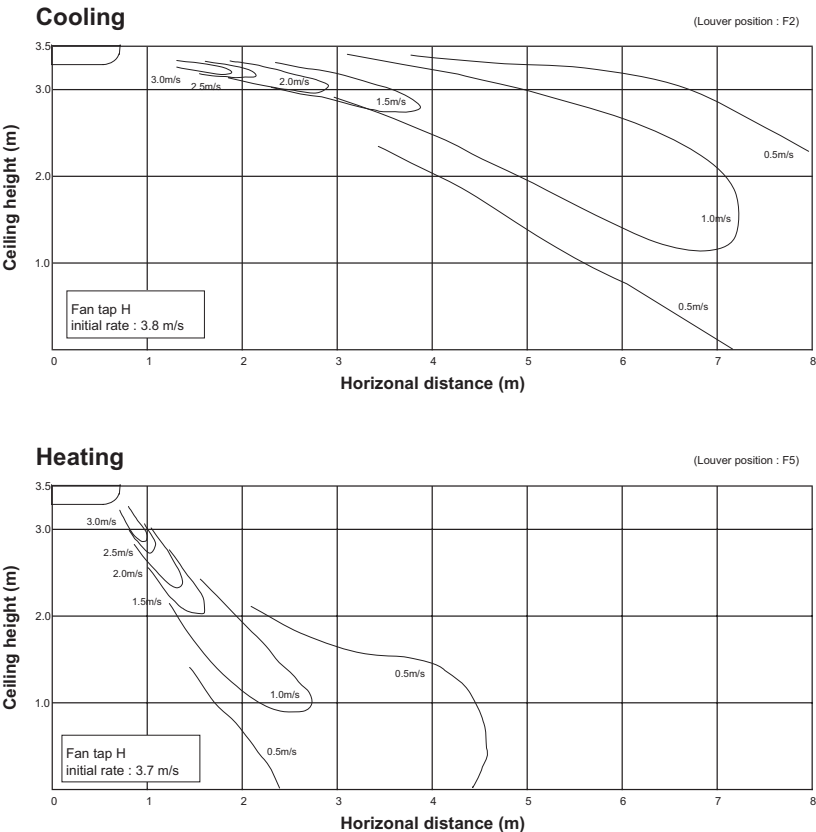
Outdoor temperature (°C)		Load (%)									
		100	90	80	70	60	50	40	30	20	10
15	Q	16880	15190	13500	11820	10130	8440	6750	5060	3380	2890
	W	3990	3490	3040	2600	2170	1770	1390	1010	660	570
10	Q	15330	13800	12260	10730	9200	7670	6130	4600	3070	2630
	W	3780	3310	2880	2460	2060	1680	1320	960	630	540
7	Q	14000	12600	11200	9800	8400	7000	5600	4200	2800	2400
	W	3620	3170	2760	2360	1970	1610	1260	920	600	520
5	Q	13060	11750	10450	9140	7840	6530	5220	3920	2610	2240
	W	3510	3070	2680	2290	1910	1560	1220	890	580	500
2	Q	11700	10530	9360	8190	7020	5850	4680	3510	2340	2010
	W	3340	2930	2550	2180	1820	1490	1160	850	550	480
0	Q	9140	8230	7310	6400	5480	4570	3660	2740	1830	1570
	W	2970	2600	2260	1930	1610	1320	1030	750	490	430
-5	Q	9140	8230	7310	6400	5480	4570	3660	2740	1830	1570
	W	2970	2600	2260	1930	1610	1320	1030	750	490	430
-7	Q	8600	7740	6880	6020	5160	4300	3440	2580	1720	1470
	W	2880	2520	2190	1880	1570	1280	1000	730	480	410
-10	Q	7870	7080	6300	5510	4720	3940	3150	2360	1570	1350
	W	2760	2410	2100	1800	1500	1230	960	700	460	400
-15	Q	6640	5980	5310	4650	3980	3320	2660	1990	1330	1140
	W	2600	2280	1980	1690	1410	1160	900	660	430	370
-20	Q	5430	4890	4340	3800	3260	2720	2170	1630	1090	930
	W	2450	2140	1860	1590	1330	1090	850	620	410	350

2-7-6. Air throw distance chart

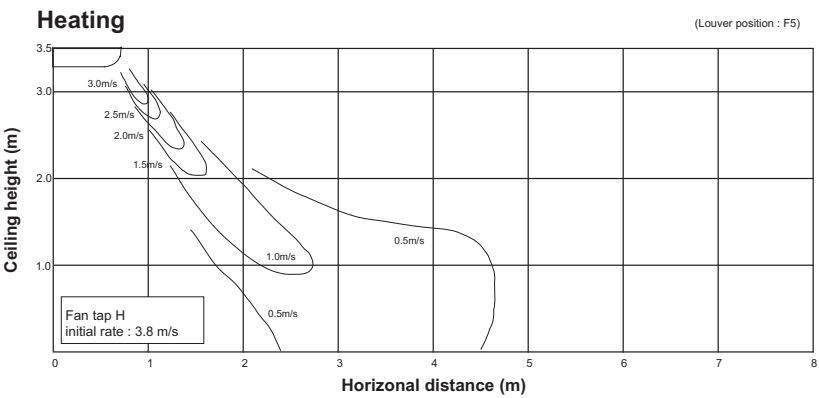
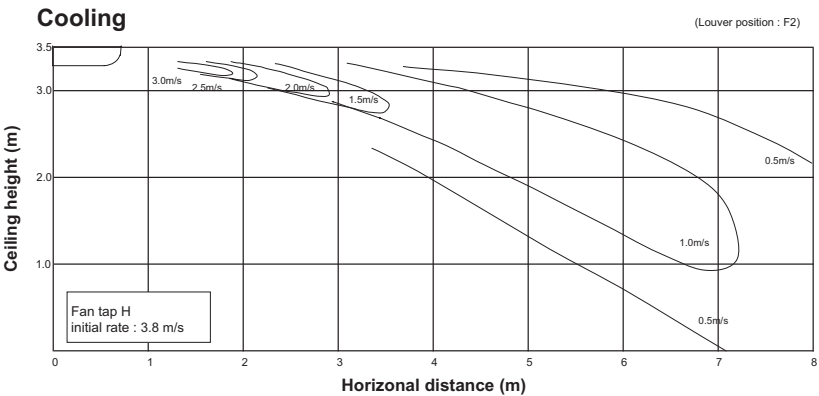
RAV-SM567CTP-E



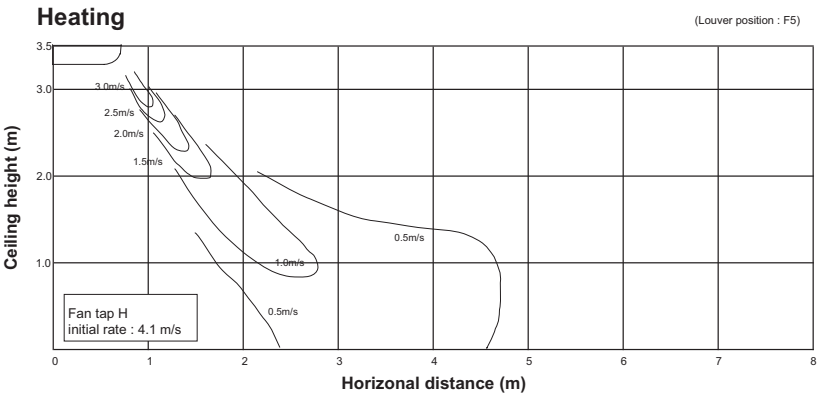
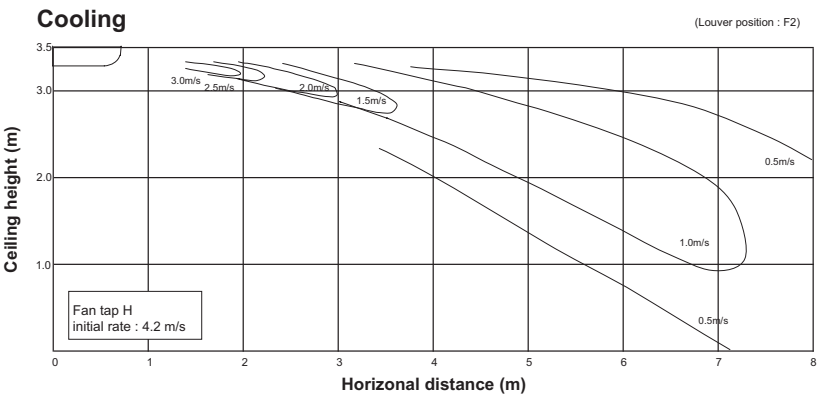
RAV-SM807CTP-E



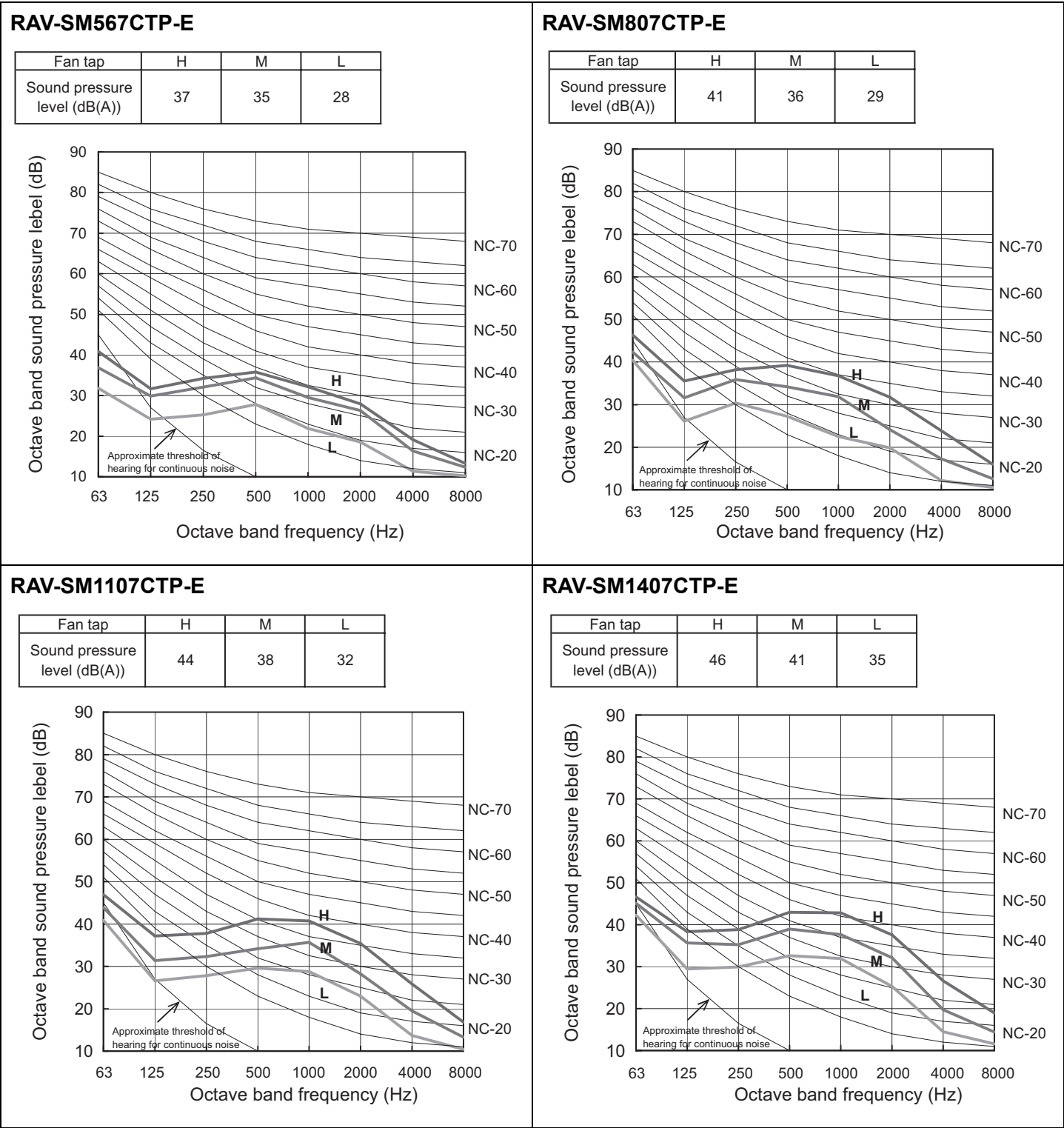
RAV-SM1107CTP-E



RAV-SM1407CTP-E



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



2-8. High Wall Type (6 series)

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. Specifications

<Single type>

Model	Indoor unit		RAV-SM	566KRT-E	806KRT-E
	Outdoor unit		RAV-SP	564AT(Z)(ZG)-E	804AT(Z)(ZG)-E
Cooling capacity			(kW)	5.0 (1.2 – 5.6)	7.1 (1.9 – 8.0)
Heating capacity			(kW)	5.6 (0.9 – 7.3)	8.0 (1.3 – 10.6)
Power supply			1 phase 230V (220V – 240V) 50Hz		
Electrical characteristics	Cooling	Running current	(A)	6.74 – 6.18	10.71 – 9.82
		Power consumption	(kW)	1.44	2.21
		Power factor	(%)	99	96
		EER		3.47	3.21
		Energy efficiency class *		A	A
	Heating	Running current	(A)	6.98 – 6.40	11.02 – 10.10
		Power consumption	(kW)	1.50	2.34
		Power factor	(%)	99	96
		COP		3.73	3.42
		Energy efficiency class *		A	B
Maximum current		(A)	13.4	20.4	
Appearance	Main unit		Pure white		
Outer dimension	Main unit	Height	(mm)	320	320
		Width	(mm)	1050	1050
		Depth	(mm)	228	228
Total weight	Main unit		(kg)	12	12
Fan unit	Fan		Cross flow fan		
	Standard air flow	H/M/L	(m³/min.)	14.0/12.5/11.0	17.0/12.5/11.0
	Motor		(W)	30	30
Controller			WH-L11SE		
Connecting pipe		Gas side	(mm)	12.7	15.9
		Liquid side	(mm)	6.4	9.5
		Drain port	(mm)	VP16	
Sound pressure level		H/M/L	(dB•A)	42/39/36	47/41/36
Sound power level		H/M/L	(dB•A)	57/54/51	62/56/51

* : IEC standard

*1 : The cooling capacities and electrical characteristics are measured under the conditions specified by JIS B 8615 based on the reference piping. The reference piping consists of 5 m of main piping and 2.5 m of branch piping connected with 0 meter height.

*2 : The sound level are measured in an anechoic chamber in accordance with JIS B 8616. Normally, the values measured in the actual operating environment become larger than the indicated values due to the effects of external sound.

Note :

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

<Twin type>

Model	Indoor unit 1		RAV-SM	566KRT-E	806KRT-E
	Indoor unit 2		RAV-SM	566KRT-E	806KRT-E
	Outdoor unit		RAV-SP	1104AT(Z)(ZG)-E	1404AT(Z)(ZG)-E
Cooling capacity			(kW)	10.0 (2.6 – 12.0)	12.3 (2.6 – 13.5)
Heating capacity			(kW)	11.2 (2.4 – 13.0)	14.0 (2.4 – 16.5)
Indoor unit					
Power supply			1 phase 230V (220 – 240V) 50Hz		
Electrical characteristics	Cooling	Running current	(A)	12.98 – 11.90	18.00 – 16.50
		Power consumption	(kW)	2.77	3.88
		Power factor	(%)	97	98
		EER		3.61	3.17
		Energy efficiency class *		A	B
	Heating	Running current	(A)	13.12 – 12.03	17.76 – 16.28
		Power consumption	(kW)	2.80	3.83
		Power factor	(%)	97	98
		COP		4.00	3.66
		Energy efficiency class *		A	B
Maximum current		(A)	20.7	20.9	
Fan unit	Fan		Cross flow fan		
	Standard air flow	H/M/L (m³/min.)	14.0/12.5/11.0	17.0/12.5/11.0	
	Motor (W)		30	30	
Sound pressure level		H/M/L (dB•A)	42/39/36	47/41/36	
Sound power level		H/M/L (dB•A)	57/54/51	62/56/51	
Outdoor unit					
Power supply			1 phase 230V (220 – 240V) 50Hz (Power exclusive to outdoor is required.)		
Refrigerant pipe	Standard length (m)		7.5	7.5	
	Max. total length (m)		50	50	
	Refrigerant charging amount (Charge-less up to 30m)		40g/m (31m to 50m)		
	Height difference	Outdoor lower (m)	30	30	
		Outdoor higher (m)	30	30	
Fan unit	Fan		Propeller fan		
	Standard air flow (m³/min.)		101	103	
	Motor (W)		100+100	100+100	
Connecting pipe	Gas side	Main (mm)	15.9	15.9	
		Sub (mm)	12.7	15.9	
	Liquid side	Main (mm)	9.5	9.5	
		Sub (mm)	6.4	9.5	
Sound pressure level		Cooling/Heating (dB•A)	49/50	51/52	
Sound power level		Cooling/Heating (dB•A)	66/67	68/69	

* : IEC standard

<Single type>

Model	Indoor unit		RAV-SM	566KRT-E	806KRT-E
	Outdoor unit		RAV-SP	564AT(J)P-E	804AT(J)P-E
Cooling capacity			(kW)	5.0 (1.2 – 5.6)	7.1 (1.9 – 8.0)
Heating capacity			(kW)	5.6 (0.9 – 7.3)	8.0 (1.3 – 10.6)
Power supply			1 phase 230V (220V – 240V) 50Hz		
Electrical characteristics	Cooling	Running current	(A)	6.74 – 6.18	10.71 – 9.82
		Power consumption	(kW)	1.44	2.21
		Power factor	(%)	99	96
		EER		3.47	3.21
		Energy efficiency class *		A	A
	Heating	Running current	(A)	6.98 – 6.40	11.02 – 10.10
		Power consumption	(kW)	1.50	2.34
		Power factor	(%)	99	96
		COP		3.73	3.42
		Energy efficiency class *		A	B
Maximum current		(A)	13.4	20.4	
Appearance	Main unit		Pure white		
Outer dimension	Main unit	Height	(mm)	320	320
		Width	(mm)	1050	1050
		Depth	(mm)	228	228
Total weight	Main unit		(kg)	12	12
Fan unit	Fan		Cross flow fan		
	Standard air flow	H/M/L	(m³/min.)	14.0/12.5/11.0	17.0/12.5/11.0
	Motor		(W)	30	30
Controller			WH-L11SE		
Connecting pipe		Gas side	(mm)	12.7	15.9
		Liquid side	(mm)	6.4	9.5
		Drain port	(mm)	VP16	
Sound pressure level		H/M/L	(dB•A)	42/39/36	47/41/36
Sound power level		H/M/L	(dB•A)	57/54/51	62/56/51

* : IEC standard

*1 : The cooling capacities and electrical characteristics are measured under the conditions specified by JIS B 8615 based on the reference piping. The reference piping consists of 5 m of main piping and 2.5 m of branch piping connected with 0 meter height.

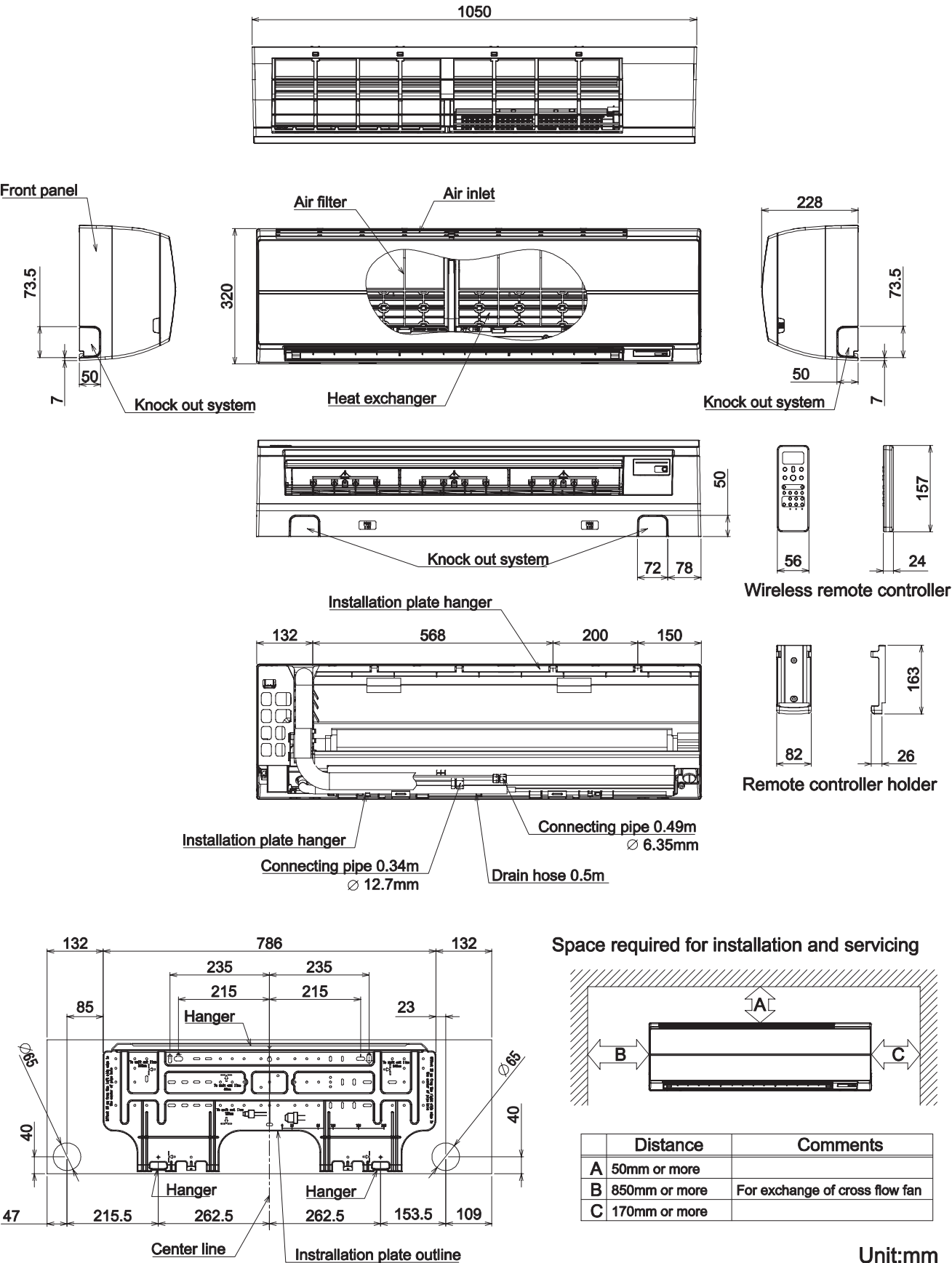
*2 : The sound level are measured in an anechoic chamber in accordance with JIS B 8616. Normally, the values measured in the actual operating environment become larger than the indicated values due to the effects of external sound.

Note :

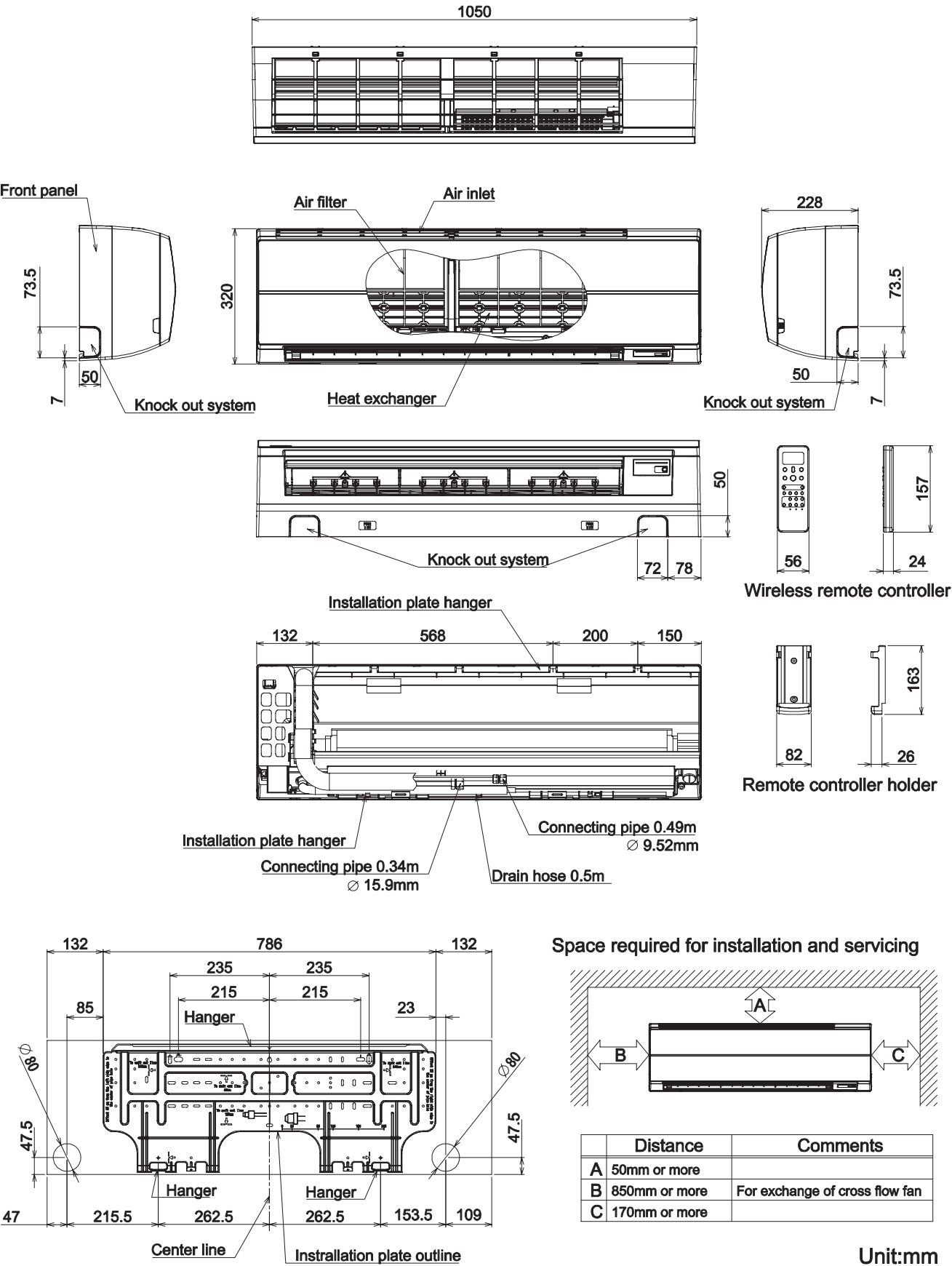
Rated conditions Cooling : Indoor air temperature 27°C DB/19°C WB, Outdoor air temperature 35°C DB
 Heating : Indoor air temperature 20°C DB, Outdoor air temperature 7°C DB/6°C WB

2-8-2. Dimension

RAV-SM566KRT-E

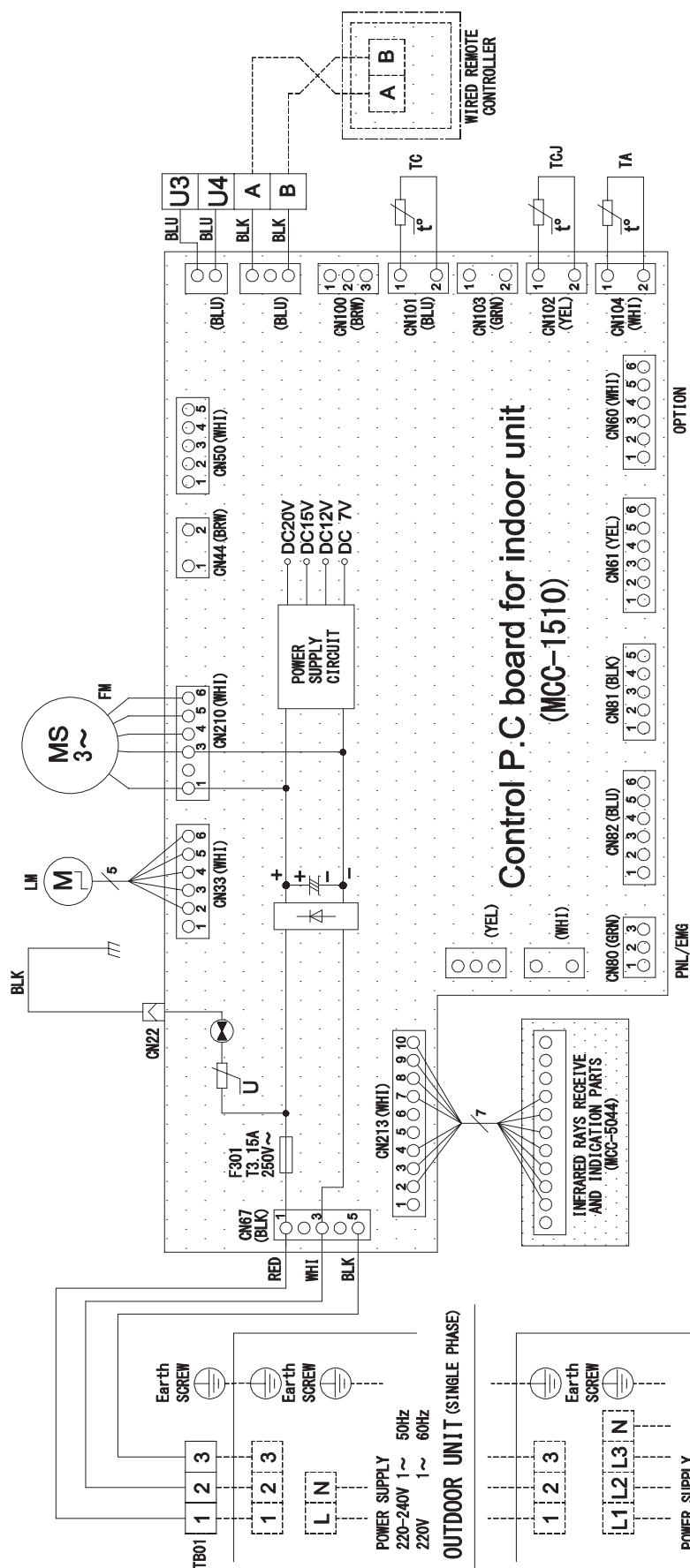


RAV-SM806KRT-E



2-8-3. Wiring diagrams

RAV-SM566KRT-E, RAV-SM806KRT-E



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

COLOR IDENTIFICATION

RED : RED
WHI : WHITE
YEL : YELLOW
BLU : BLUE
BLK : BLACK
GRY : GRAY
PNK : PINK
ORN : ORANGE
BRW : BROWN
GRN : GREEN

Symbol	Parts Name
CN#	Connector
F301	Fuse
FM	Fan Motor
LM	Louver Motor
TA	Indoor temp sensor
TB01,02	Terminal Block
TC TC1	Temp. sensor

2-8-4. Sensible capacity table

Super Digital Inverter 4 Series Sensible Heat Capacity : RAV-SM***KRT-E

unit size	outdoor air temp. CDB	indoor air temp.																	
		14.0CWB 20.0CDB		15.0CWB 21.5CDB		16.0CWB 23.0CDB		17.0CWB 24.5CDB		18.0CWB 26.0CDB		19.0CWB 27.0CDB		20.0CWB 28.0CDB		22.0CWB 30.0CDB		24.0CWB 32.0CDB	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
566	10.0	4.7	3.4	4.9	3.6	5.2	3.7	5.4	3.9	5.6	4.0	5.7	4.1	5.9	4.2	6.2	4.5	6.5	4.7
	12.0	4.7	3.4	4.9	3.5	5.2	3.7	5.3	3.8	5.5	4.0	5.7	4.1	5.8	4.2	6.2	4.5	6.5	4.7
	14.0	4.6	3.3	4.9	3.5	5.1	3.7	5.3	3.8	5.5	3.9	5.6	4.1	5.8	4.2	6.1	4.4	6.4	4.6
	16.0	4.6	3.3	4.8	3.5	5.1	3.7	5.3	3.8	5.4	3.9	5.6	4.0	5.8	4.2	6.1	4.4	6.4	4.6
	18.0	4.6	3.3	4.8	3.5	5.0	3.6	5.2	3.8	5.4	3.9	5.6	4.0	5.7	4.1	6.1	4.4	6.3	4.6
	20.0	4.5	3.3	4.8	3.4	5.0	3.6	5.2	3.7	5.4	3.9	5.5	4.0	5.7	4.1	6.0	4.3	6.3	4.5
	21.0	4.5	3.2	4.7	3.4	5.0	3.6	5.2	3.7	5.3	3.8	5.5	4.0	5.6	4.1	6.0	4.3	6.3	4.5
	23.0	4.5	3.2	4.7	3.4	4.9	3.5	5.1	3.7	5.3	3.8	5.4	3.9	5.6	4.0	5.9	4.3	6.2	4.5
	25.0	4.4	3.2	4.6	3.3	4.9	3.5	5.0	3.6	5.2	3.8	5.4	3.9	5.5	4.0	5.9	4.2	6.1	4.4
	27.0	4.4	3.1	4.6	3.3	4.8	3.5	5.0	3.6	5.2	3.7	5.3	3.8	5.5	3.9	5.8	4.2	6.0	4.4
	29.0	4.3	3.1	4.5	3.3	4.8	3.4	4.9	3.5	5.1	3.7	5.2	3.8	5.4	3.9	5.7	4.1	6.0	4.3
	31.0	4.2	3.1	4.5	3.2	4.7	3.4	4.9	3.5	5.0	3.6	5.2	3.7	5.3	3.8	5.6	4.1	5.9	4.2
	33.0	4.2	3.0	4.4	3.2	4.6	3.3	4.8	3.4	4.9	3.6	5.1	3.7	5.2	3.8	5.5	4.0	5.8	4.2
	35.0	4.1	3.0	4.3	3.1	4.5	3.3	4.7	3.4	4.9	3.5	5.0	3.6	5.1	3.7	5.4	3.9	5.7	4.1
	37.0	4.0	2.9	4.2	3.1	4.4	3.2	4.6	3.3	4.8	3.4	4.9	3.5	5.0	3.6	5.3	3.8	5.6	4.0
	39.0	3.9	2.8	4.2	3.0	4.4	3.1	4.5	3.2	4.7	3.4	4.8	3.5	4.9	3.6	5.2	3.8	5.5	3.9

unit size	outdoor air temp. CDB	indoor air temp.																	
		14.0CWB 20.0CDB		15.0CWB 21.5CDB		16.0CWB 23.0CDB		17.0CWB 24.5CDB		18.0CWB 26.0CDB		19.0CWB 27.0CDB		20.0CWB 28.0CDB		22.0CWB 30.0CDB		24.0CWB 32.0CDB	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
806	10.0	6.7	4.6	7.0	4.8	7.4	5.1	7.6	5.3	7.9	5.4	8.1	5.6	8.3	5.8	8.8	6.1	9.2	6.4
	12.0	6.6	4.6	7.0	4.8	7.3	5.0	7.6	5.2	7.8	5.4	8.1	5.6	8.3	5.7	8.8	6.1	9.2	6.3
	14.0	6.6	4.5	6.9	4.8	7.3	5.0	7.5	5.2	7.8	5.4	8.0	5.5	8.2	5.7	8.7	6.0	9.1	6.3
	16.0	6.5	4.5	6.9	4.7	7.2	5.0	7.5	5.2	7.7	5.3	8.0	5.5	8.2	5.6	8.7	6.0	9.1	6.3
	18.0	6.5	4.5	6.8	4.7	7.2	4.9	7.4	5.1	7.7	5.3	7.9	5.4	8.1	5.6	8.6	5.9	9.0	6.2
	20.0	6.4	4.4	6.8	4.7	7.1	4.9	7.4	5.1	7.6	5.3	7.8	5.4	8.1	5.6	8.5	5.9	8.9	6.2
	21.0	6.4	4.4	6.7	4.6	7.1	4.9	7.3	5.1	7.6	5.2	7.8	5.4	8.0	5.5	8.5	5.9	8.9	6.1
	23.0	6.3	4.4	6.7	4.6	7.0	4.8	7.2	5.0	7.5	5.2	7.7	5.3	7.9	5.5	8.4	5.8	8.8	6.1
	25.0	6.3	4.3	6.6	4.6	6.9	4.8	7.2	4.9	7.4	5.1	7.6	5.3	7.9	5.4	8.3	5.7	8.7	6.0
	27.0	6.2	4.3	6.5	4.5	6.8	4.7	7.1	4.9	7.3	5.1	7.5	5.2	7.8	5.4	8.2	5.7	8.6	5.9
	29.0	6.1	4.2	6.4	4.4	6.7	4.7	7.0	4.8	7.2	5.0	7.4	5.1	7.7	5.3	8.1	5.6	8.5	5.9
	31.0	6.0	4.2	6.3	4.4	6.7	4.6	6.9	4.8	7.1	4.9	7.3	5.1	7.5	5.2	8.0	5.5	8.4	5.8
	33.0	5.9	4.1	6.2	4.3	6.5	4.5	6.8	4.7	7.0	4.8	7.2	5.0	7.4	5.1	7.9	5.4	8.2	5.7
	35.0	5.8	4.0	6.1	4.2	6.4	4.4	6.7	4.6	6.9	4.8	7.1	4.9	7.3	5.0	7.7	5.3	8.1	5.6
	37.0	5.7	3.9	6.0	4.2	6.3	4.4	6.5	4.5	6.8	4.7	7.0	4.8	7.2	4.9	7.6	5.2	7.9	5.5
	39.0	5.6	3.9	5.9	4.1	6.2	4.3	6.4	4.4	6.6	4.6	6.8	4.7	7.0	4.8	7.4	5.1	7.8	5.4

TC: Total Capacity [kW]
SHC: Sensible Heat Capacity [kW]

2-8-5. Part load performance

Combination

Indoor unit : RAV-SM566KRT-E

Outdoor unit : RAV-SP564AT-E, RAV-SP564ATP-E

	Cooling		Heating	
	Capacity Q (W)	Power consumption W (W)	Capacity Q (W)	Power consumption W (W)
MINIMUM	1200	210	900	170
RATING	5000	1440	5600	1500

Q: Capacity in W

W: Power Consumption in W

Cooling

Outdoor temperature (°C)		Load (%)									
		100	90	80	70	60	50	40	30	20	10
40	Q	4760	4280	3800	3330	2850	2380	1900	1430	1140	1140
	W	1550	1330	1130	940	780	620	480	350	230	230
35	Q	5000	4500	4000	3500	3000	2500	2000	1500	1200	1200
	W	1440	1240	1050	880	720	580	450	320	210	210
30	Q	5210	4680	4160	3640	3120	2600	2080	1560	1250	1250
	W	1330	1140	970	810	670	540	410	300	190	190
25	Q	5380	4840	4300	3760	3230	2690	2150	1610	1290	1290
	W	1230	1060	900	750	620	500	380	280	180	180
20	Q	5520	4960	4410	3860	3310	2760	2210	1650	1320	1320
	W	1140	980	830	700	580	460	350	260	170	170

Heating

Outdoor temperature (°C)		Load (%)									
		100	90	80	70	60	50	40	30	20	10
15	Q	6750	6080	5400	4730	4050	3380	2700	2030	1350	1090
	W	1650	1470	1280	1100	940	760	610	450	300	190
10	Q	6130	5520	4910	4290	3680	3070	2450	1840	1230	990
	W	1570	1390	1210	1050	890	720	570	430	280	180
7	Q	5600	5040	4480	3920	3360	2800	2240	1680	1120	900
	W	1500	1330	1160	1000	850	690	550	410	270	170
5	Q	5220	4700	4180	3660	3130	2610	2090	1570	1040	840
	W	1450	1290	1120	970	820	670	530	400	260	160
2	Q	4680	4210	3750	3280	2810	2340	1870	1400	940	750
	W	1380	1230	1070	920	780	640	510	380	250	160
0	Q	3660	3290	2930	2560	2190	1830	1460	1100	730	590
	W	1230	1090	950	820	700	570	450	340	220	140
-5	Q	3660	3290	2930	2560	2190	1830	1460	1100	730	590
	W	1230	1090	950	820	700	570	450	340	220	140
-7	Q	3440	3090	2750	2410	2060	1720	1380	1030	690	550
	W	1190	1060	920	790	670	550	440	330	210	130
-10	Q	3150	2830	2520	2200	1890	1570	1260	940	630	510
	W	1140	1010	880	760	650	530	420	310	210	130
-15	Q	2650	2390	2120	1860	1590	1330	1060	800	530	430
	W	1080	950	830	720	610	500	390	290	190	120

Combination

Indoor unit : RAV-SM806KRT-E

Outdoor unit : RAV-SP804AT-E, RAV-SP804ATP-E

	Cooling		Heating	
	Capacity Q (W)	Power consumption W (W)	Capacity Q (W)	Power consumption W (W)
MINIMUM	1900	300	1300	270
RATING	7100	2210	8000	2340

Q: Capacity in W
W: Power Consumption in W

Cooling

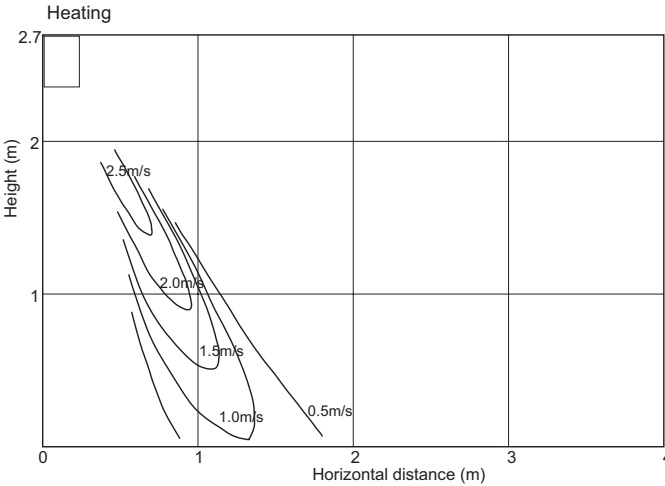
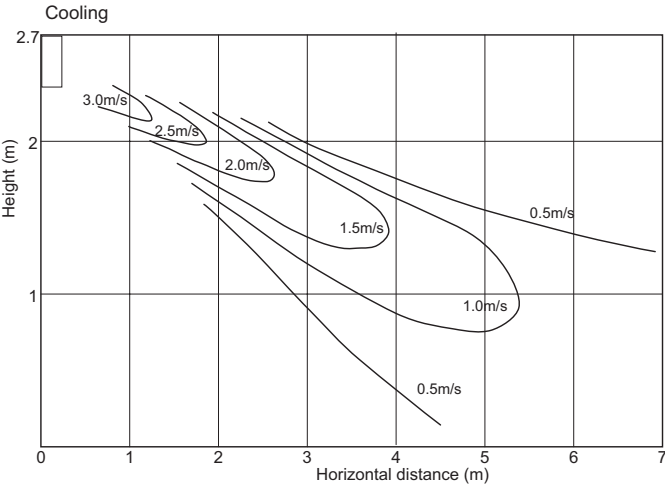
Outdoor temperature (°C)		Load (%)									
		100	90	80	70	60	50	40	30	20	10
40	Q	6750	6080	5400	4730	4050	3380	2700	2030	1810	1810
	W	2370	1970	1620	1320	1060	830	630	440	320	320
35	Q	7100	6390	5680	4970	4260	3550	2840	2130	1900	1900
	W	2210	1830	1510	1230	990	770	580	410	300	300
30	Q	7390	6650	5910	5170	4430	3700	2960	2220	1980	1980
	W	2040	1690	1390	1140	910	710	540	380	280	280
25	Q	7630	6870	6110	5340	4580	3820	3050	2290	2040	2040
	W	1890	1570	1290	1050	840	660	500	350	260	260
20	Q	7830	7050	6270	5480	4700	3920	3130	2350	2100	2100
	W	1760	1460	1200	980	780	610	460	330	240	240

Heating

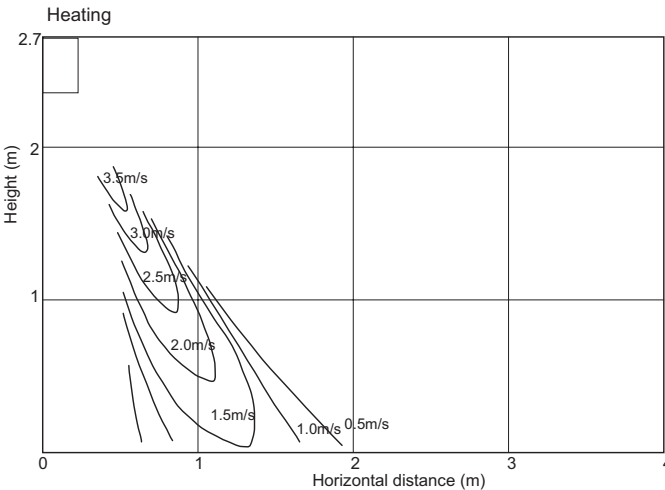
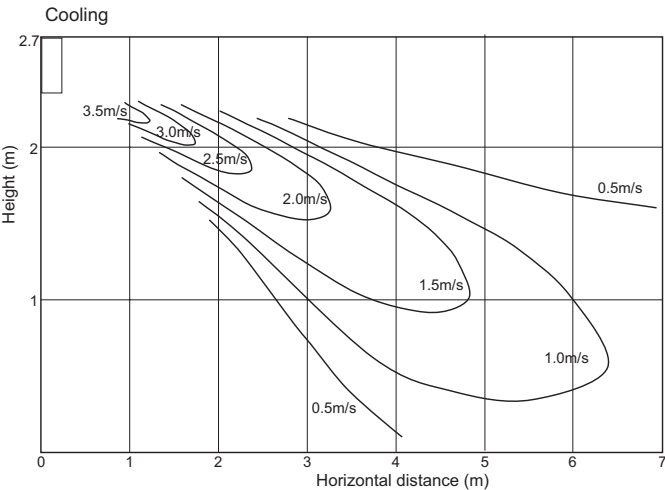
Outdoor temperature (°C)		Load (%)									
		100	90	80	70	60	50	40	30	20	10
15	Q	9650	8680	7720	6750	5790	4820	3860	2890	1930	1570
	W	2580	2260	1970	1690	1410	1150	900	660	430	300
10	Q	8760	7880	7010	6130	5260	4380	3500	2630	1750	1420
	W	2450	2140	1870	1600	1340	1090	860	630	410	280
7	Q	8000	7200	6400	5600	4800	4000	3200	2400	1600	1300
	W	2340	2050	1790	1530	1280	1040	820	600	390	270
5	Q	7460	6720	5970	5220	4480	3730	2990	2240	1490	1210
	W	2270	1990	1730	1480	1240	1010	790	580	380	260
2	Q	6690	6020	5350	4680	4010	3340	2680	2010	1340	1090
	W	2160	1890	1650	1410	1180	960	760	550	360	250
0	Q	5220	4700	4180	3660	3130	2610	2090	1570	1040	850
	W	1920	1680	1470	1250	1050	850	670	490	320	220
-5	Q	5220	4700	4180	3660	3130	2610	2090	1570	1040	850
	W	1920	1680	1470	1250	1050	850	670	490	320	220
-7	Q	4910	4420	3930	3440	2950	2460	1960	1470	980	800
	W	1860	1630	1420	1210	1020	830	650	480	310	210
-10	Q	4500	4050	3600	3150	2700	2250	1800	1350	900	730
	W	1780	1560	1360	1160	970	790	620	460	300	210
-15	Q	3790	3410	3030	2650	2280	1900	1520	1140	760	620
	W	1680	1470	1280	1100	920	750	590	430	280	190

2-8-6. Air throw distance chart

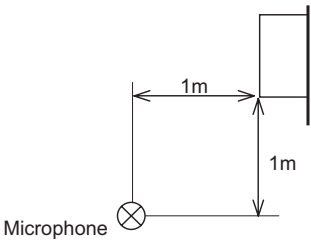
RAV-SM566KRT-E



RAV-SM806KRT-E

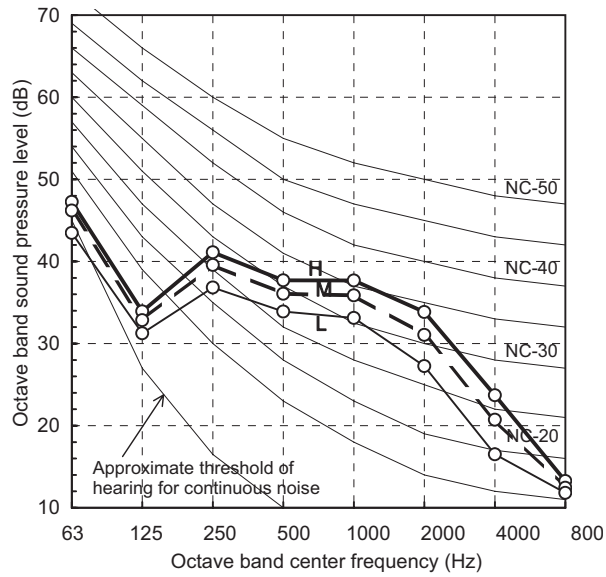


2-8-7. Sound characteristics (NC curve)



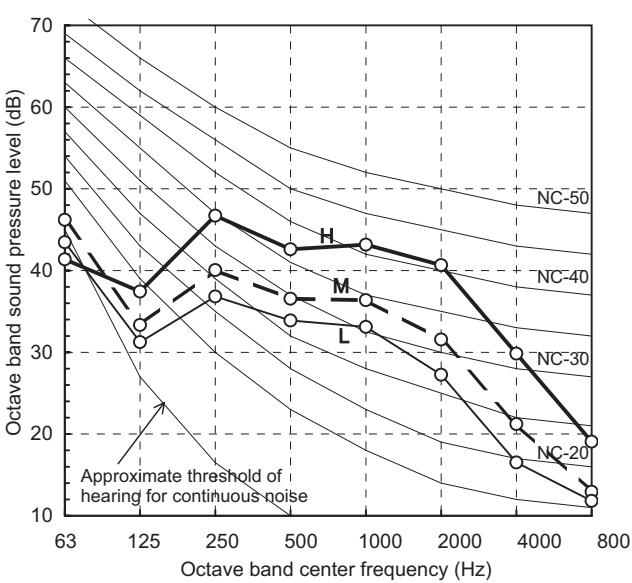
RAV-SM566KRT-E

Fan tap	H	M	L
Sound pressure level (dB(A))	42	39	36



RAV-SM806KRT-E

Fan tap	H	M	L
Sound pressure level (dB(A))	47	41	36



3. Outdoor Unit

- 3-1. Specifications
- 3-2. Dimension
- 3-3. Wiring diagrams
- 3-4. Refrigerant cycle diagram
- 3-5. Sound characteristics (NC curve)
- 3-6. Connecting pipe length and lift difference between indoor units vs. capacity correction value

3-1. Specifications

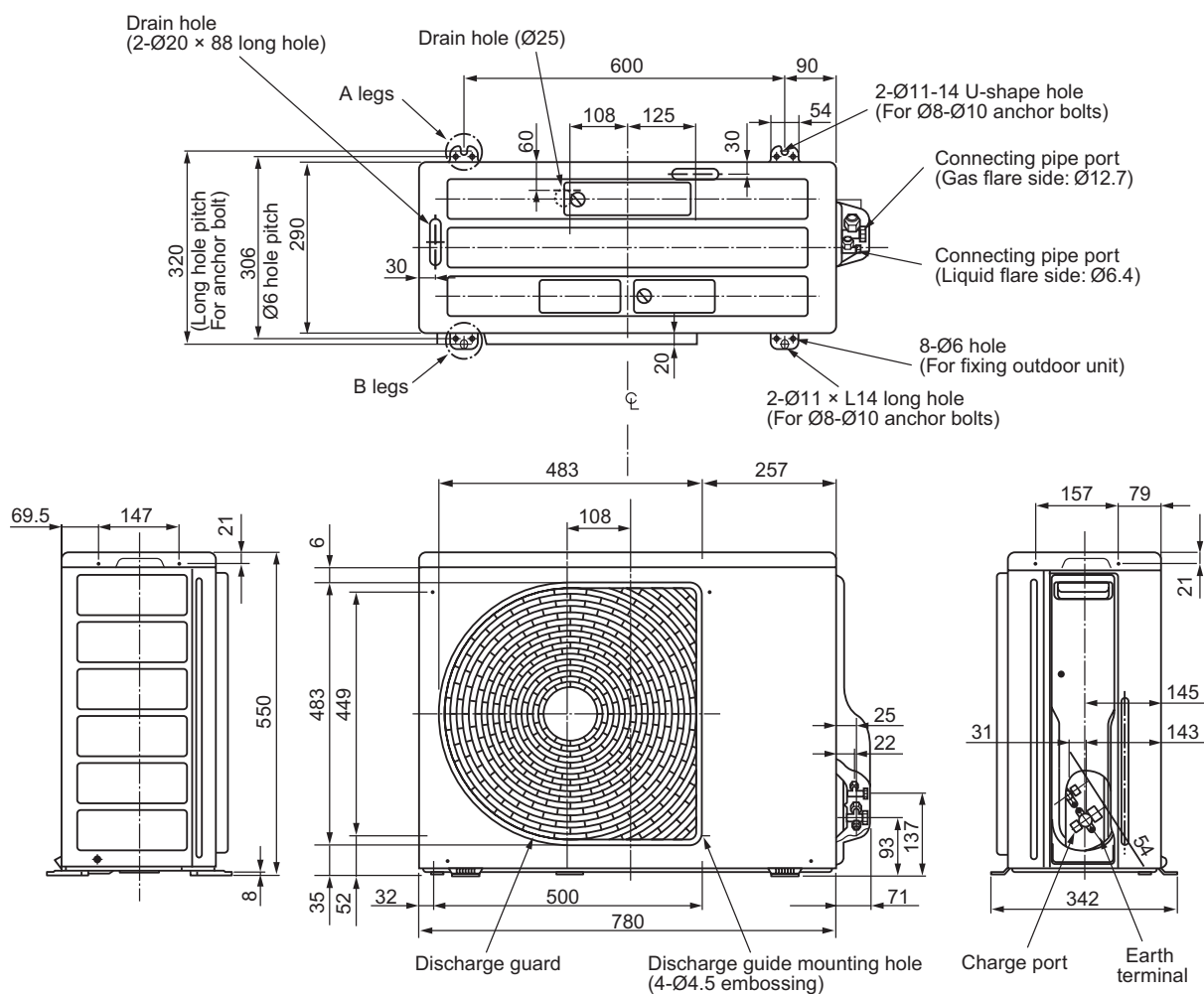
Model	Outdoor unit		RAV-SP	404AT-E	454AT-E	564AT(Z) (ZG)-E	804AT(Z) (ZG)-E	1104AT(Z) (ZG)-E	1404AT(Z) (ZG)-E
Power supply			1 phase 230V (220 – 240V) 50Hz (Power exclusive to outdoor is required.)						
Compressor	Type		Hermetic compressor						
	Motor (kW)		1.1	1.1	1.1	2.0	3.75	3.75	
	Pole		4	4	4	4	4	4	
Refrigerant charged (kg)			1.0	1.0	1.4	2.1	3.1	3.1	
Refrigerant control			Pulse motor valve						
Inter connecting pipe	Standard length (m)		7.5	7.5	7.5	7.5	7.5	7.5	
	Min. length (m)		5	5	5	5	3	3	
	Max. total length (m)		30	30	50	50	75	75	
	Additional refrigerant charge under long piping connector		20g/m (21m to 30m)	20g/m (21m to 30m)	20g/m (21m to 50m)	40g/m (31m to 50m)	40g/m (31m to 75m)	40g/m (31m to 75m)	
	Height difference	Outdoor lower (m)	30	30	30	30	30	30	
		Outdoor higher (m)	30	30	30	30	30	30	
Outer dimension	Height (mm)		550	550	550	890	1340	1340	
	Width (mm)		780	780	780	900	900	900	
	Depth (mm)		290	290	290	320	320	320	
Appearance			Silky shade (Muncel 1Y 8.5/0.5)						
Total weight (kg)			40	40	44	63	93	93	
Heat exchanger			Finned tube						
Fan unit	Fan		Propeller fan						
	Standard air flow (m³/min.)		40	40	40	50	101	103	
	Motor (W)		43	43	43	63	100 + 100	100 + 100	
Connecting pipe	Gas side (mm)		12.7	12.7	12.7	15.9	15.9	15.9	
	Liquid side (mm)		6.4	6.4	6.4	9.5	9.5	9.5	
Sound pressure level		Cooling/Heating (dB•A)	45/47	45/47	47/48	48/49	49/50	51/52	
Sound power level		Cooling/Heating (dB•A)	62/64	62/64	63/64	64/65	66/67	68/69	
Outside air temperature, Cooling (°C)			43 to –15°C						
Outside air temperature, Heating (°C)			15 to –15°C			15 to –20°C			

Model	Outdoor unit		RAV-SP	404ATP-E	454ATP-E	564AT(J)P-E	804AT(J)P-E
Power supply				1 phase 230V (220 – 240V) 50Hz (Power exclusive to outdoor is required.)			
Compressor	Type			Hermetic compressor			
	Motor (kW)			1.1	1.1	1.1	2.0
	Pole			4	4	4	4
Refrigerant charged			(kg)	1.0	1.0	1.4	2.1
Refrigerant control				Pulse motor valve			
Inter connecting pipe	Standard length (m)			7.5	7.5	7.5	7.5
	Min. length (m)			5	5	5	5
	Max. total length (m)			30	30	50	50
	Additional refrigerant charge under long piping connector			20g/m (21m to 30m)	20g/m (21m to 30m)	20g/m (21m to 50m)	40g/m (31m to 50m)
	Height difference	Outdoor lower (m)		30	30	30	30
		Outdoor higher (m)		30	30	30	30
Outer dimension	Height (mm)			550	550	550	890
	Width (mm)			780	780	780	900
	Depth (mm)			290	290	290	320
Appearance				Silky shade (Muncel 1Y 8.5/0.5)			
Total weight			(kg)	40	40	44	66
Heat exchanger				Finned tube			
Fan unit	Fan			Propeller fan			
	Standard air flow (m³/min.)			40	40	40	50
	Motor (W)			43	43	43	63
Connecting pipe	Gas side (mm)			12.7	12.7	12.7	15.9
	Liquid side (mm)			6.4	6.4	6.4	9.5
Sound pressure level		Cooling/Heating	(dB•A)	45/47	45/47	47/48	48/49
Sound power level		Cooling/Heating	(dB•A)	62/64	62/64	63/64	64/65
Outside air temperature, Cooling (°C)				43 to –15°C			
Outside air temperature, Heating (°C)				15 to –15°C		15 to –20°C	

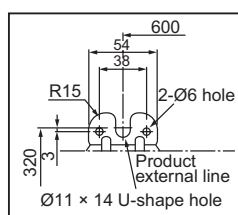
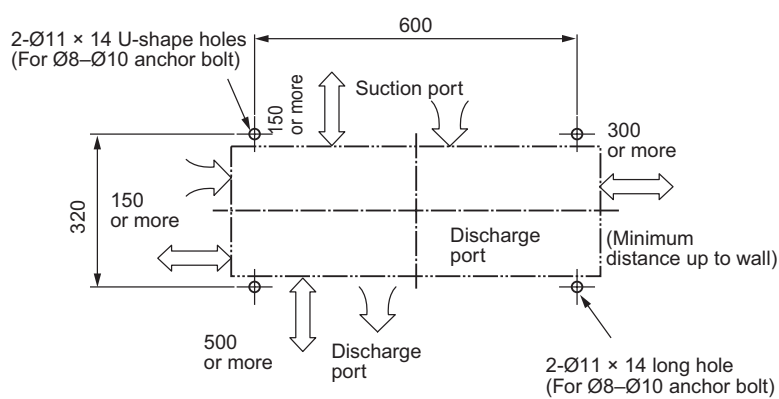
3-2. Dimension

RAV-SP404AT-E

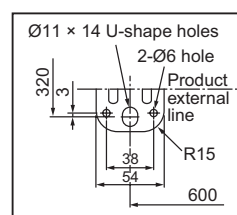
RAV-SP454AT-E



Space required for service



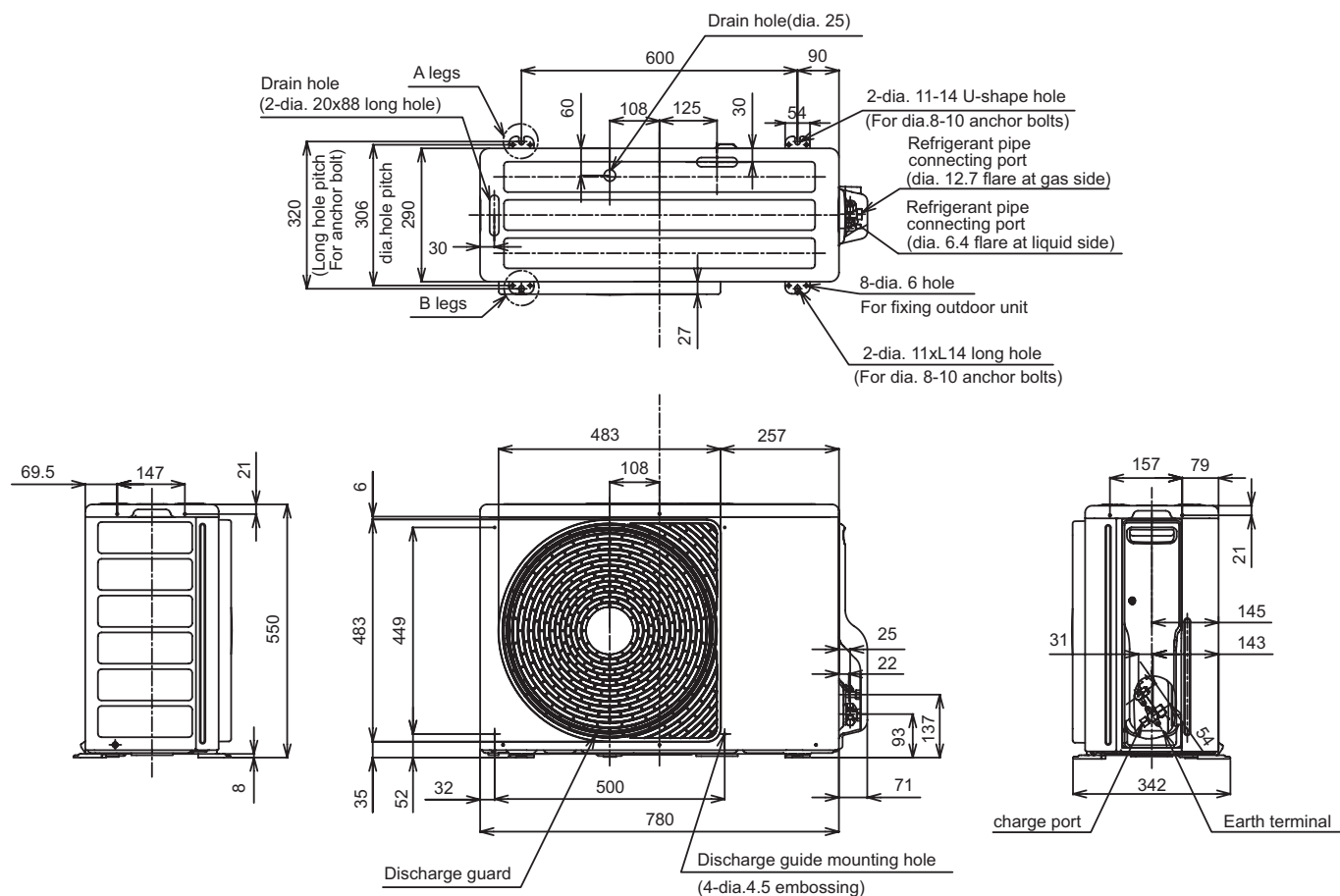
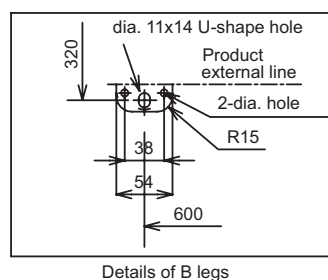
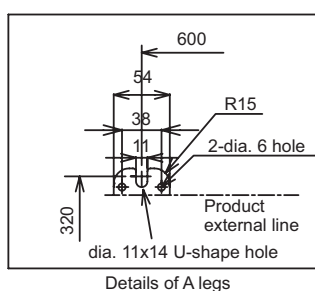
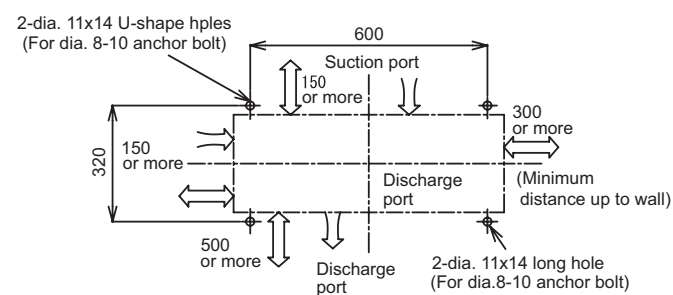
Details of A legs



Details of B legs

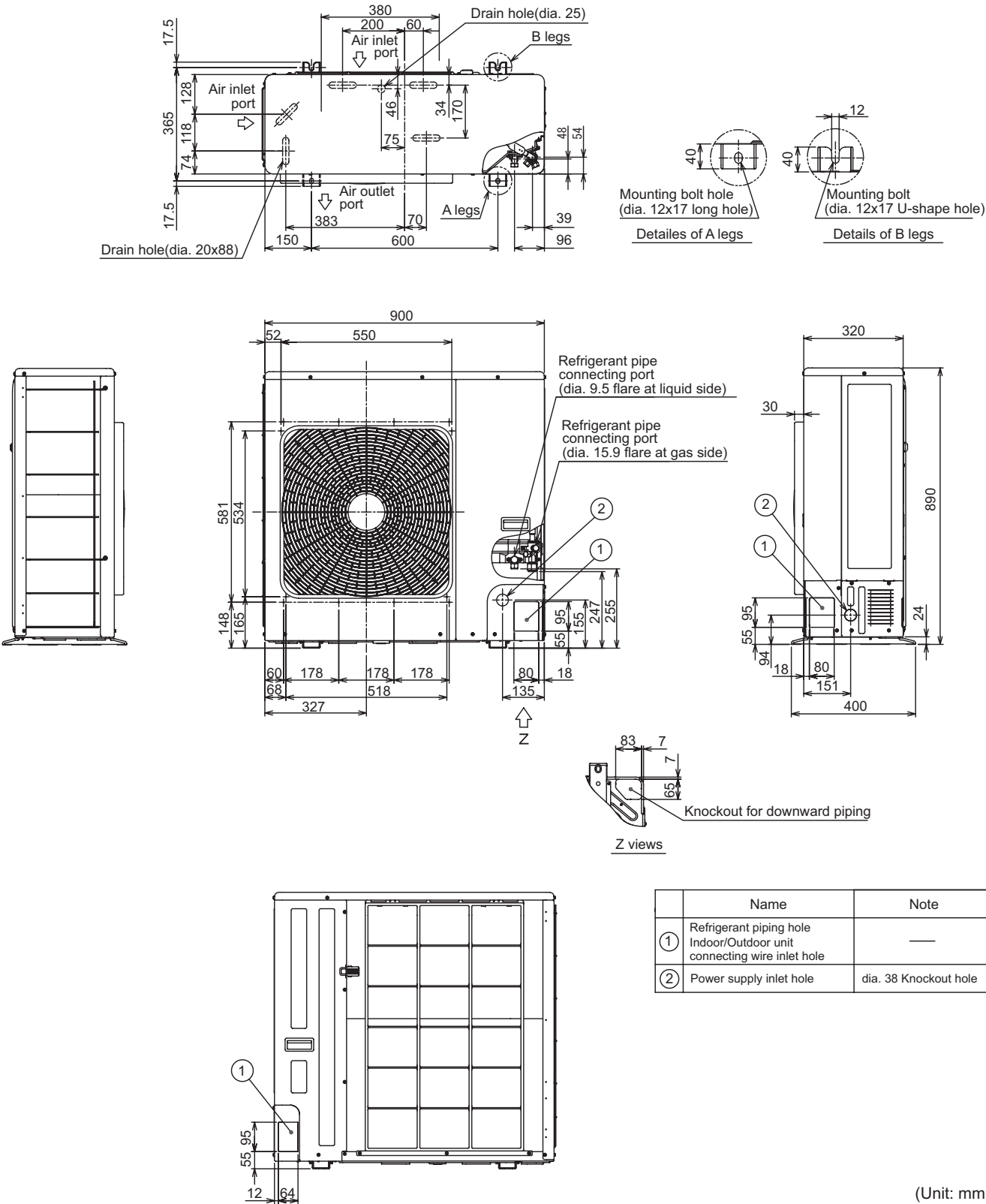
(Unit: mm)

RAV-SP564AT-E, RAV-SP564ATZ-E, RAV-SP564ATZG-E

Space required for service

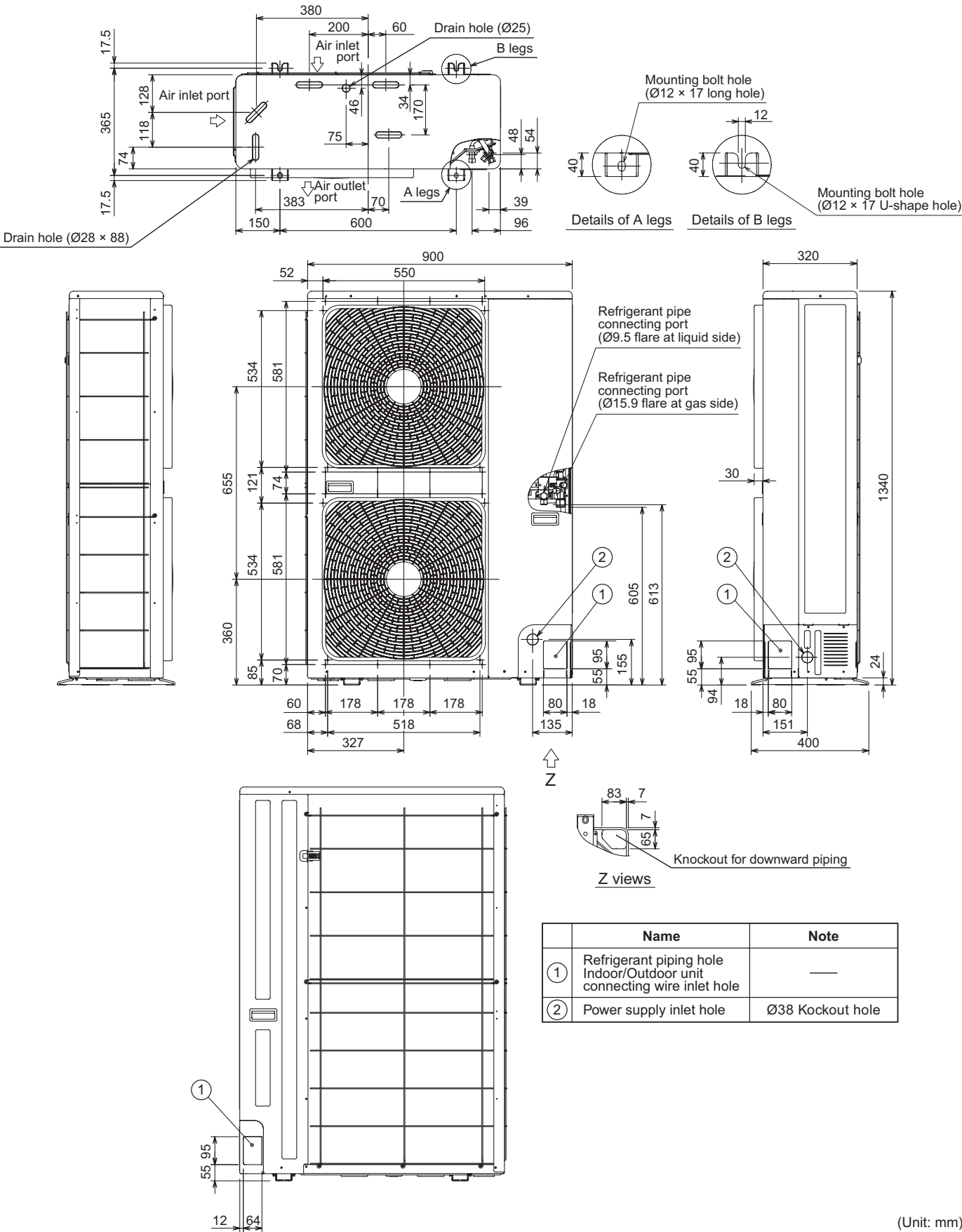
(Unit: mm)

RAV-SP804AT-E, RAV-SP804ATZ-E, RAV-SP804ATZG-E



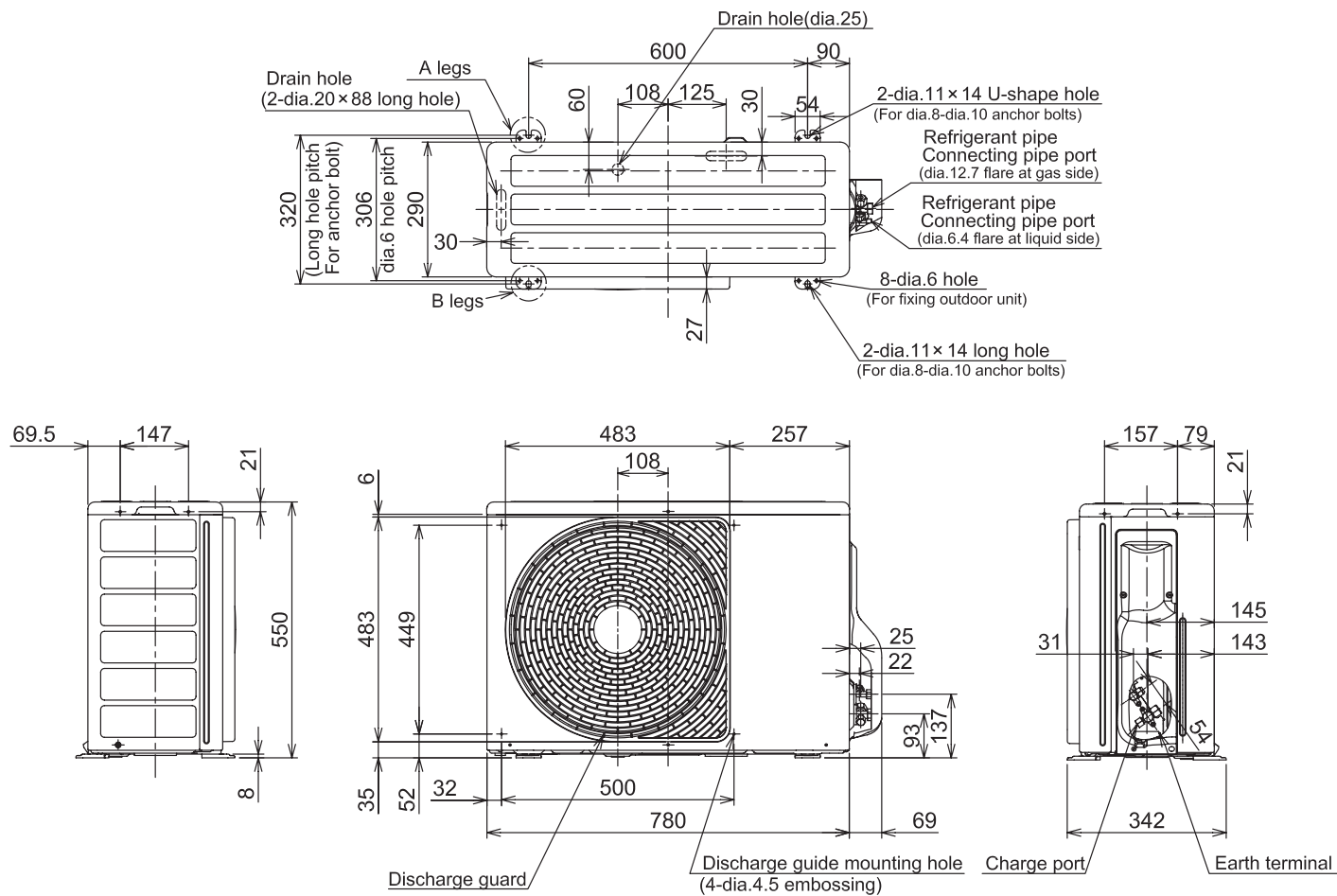
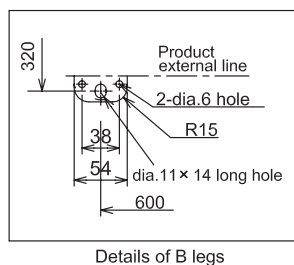
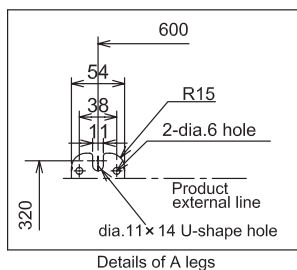
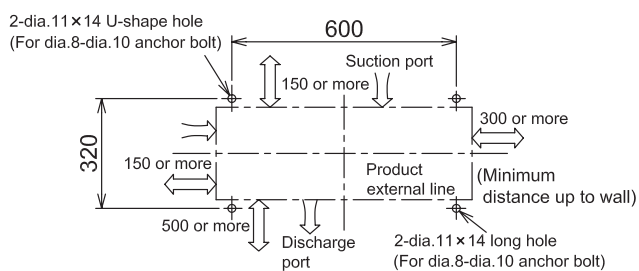
(Unit: mm)

RAV-SP1104AT-E, RAV-SP1104ATZ-E, RAV-SP1104ATZG-E
RAV-SP1404AT-E, RAV-SP1404ATZ-E, RAV-SP1404ATZG-E

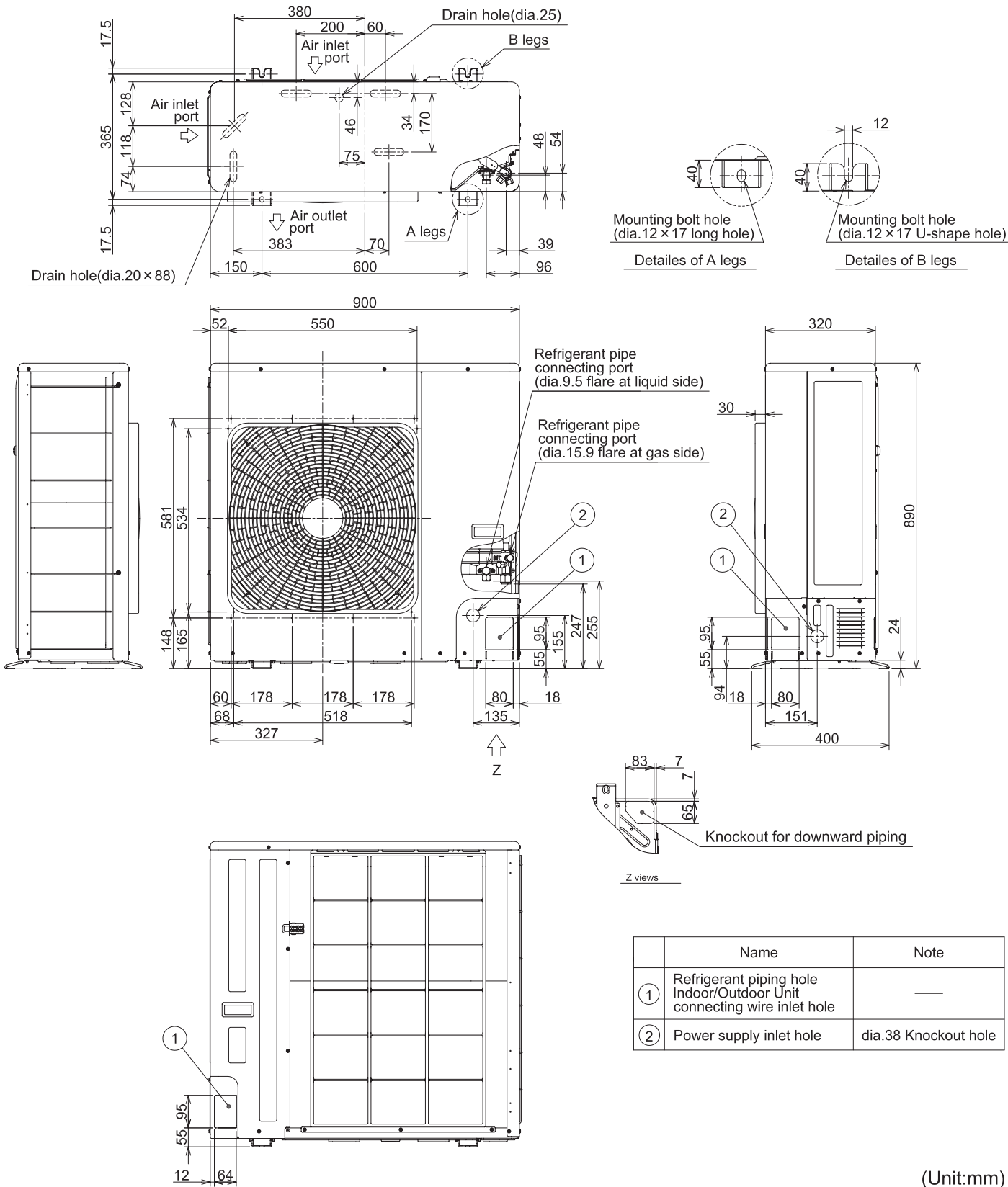


(Unit: mm)

RAV-SP404ATP-E, RAV-SP454ATP-E, RAV-SP564ATP-E, RAV-SP564ATJP-E,

Space required for service

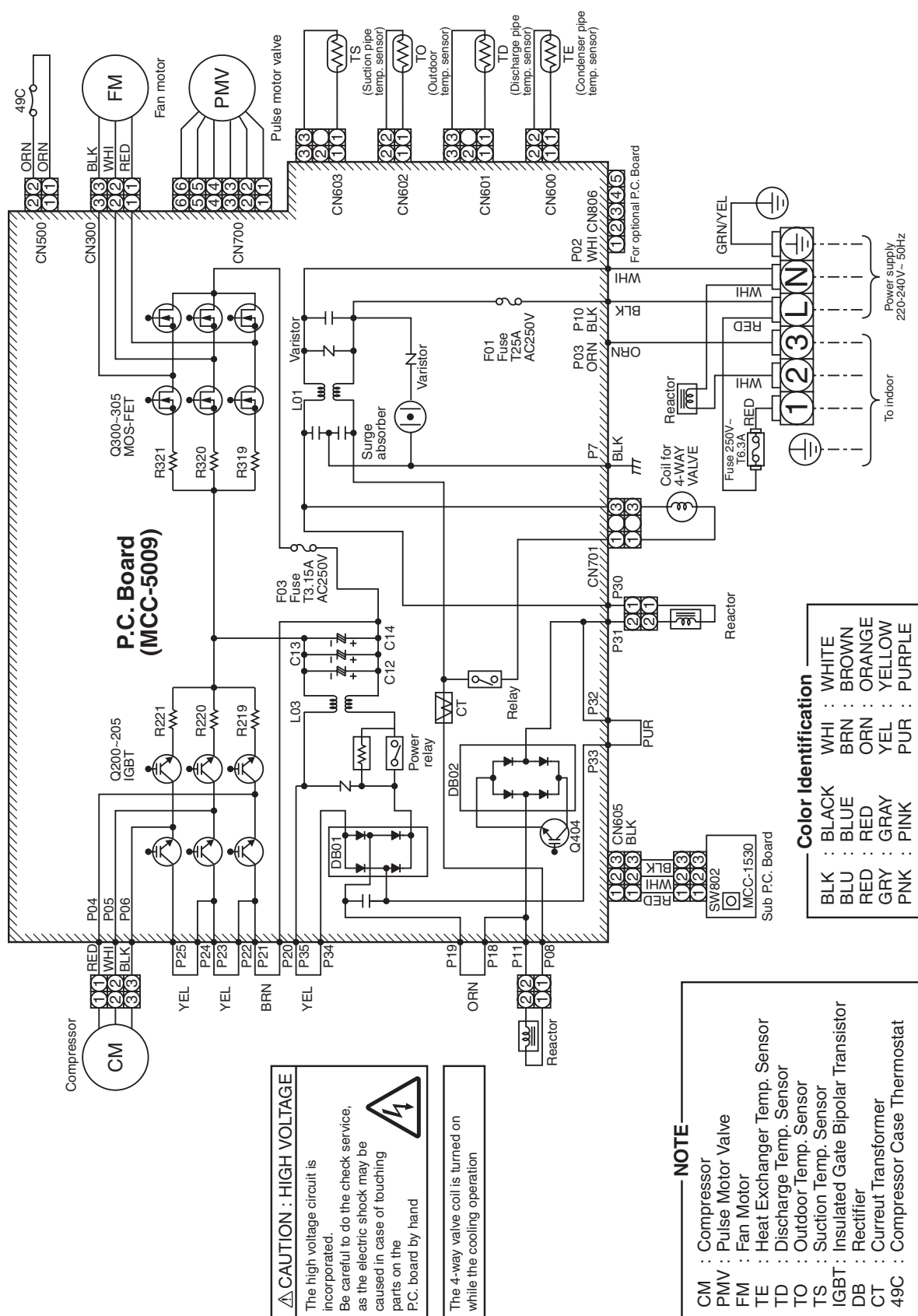
RAV-SP804ATP-E, RAV-SP804ATJP-E



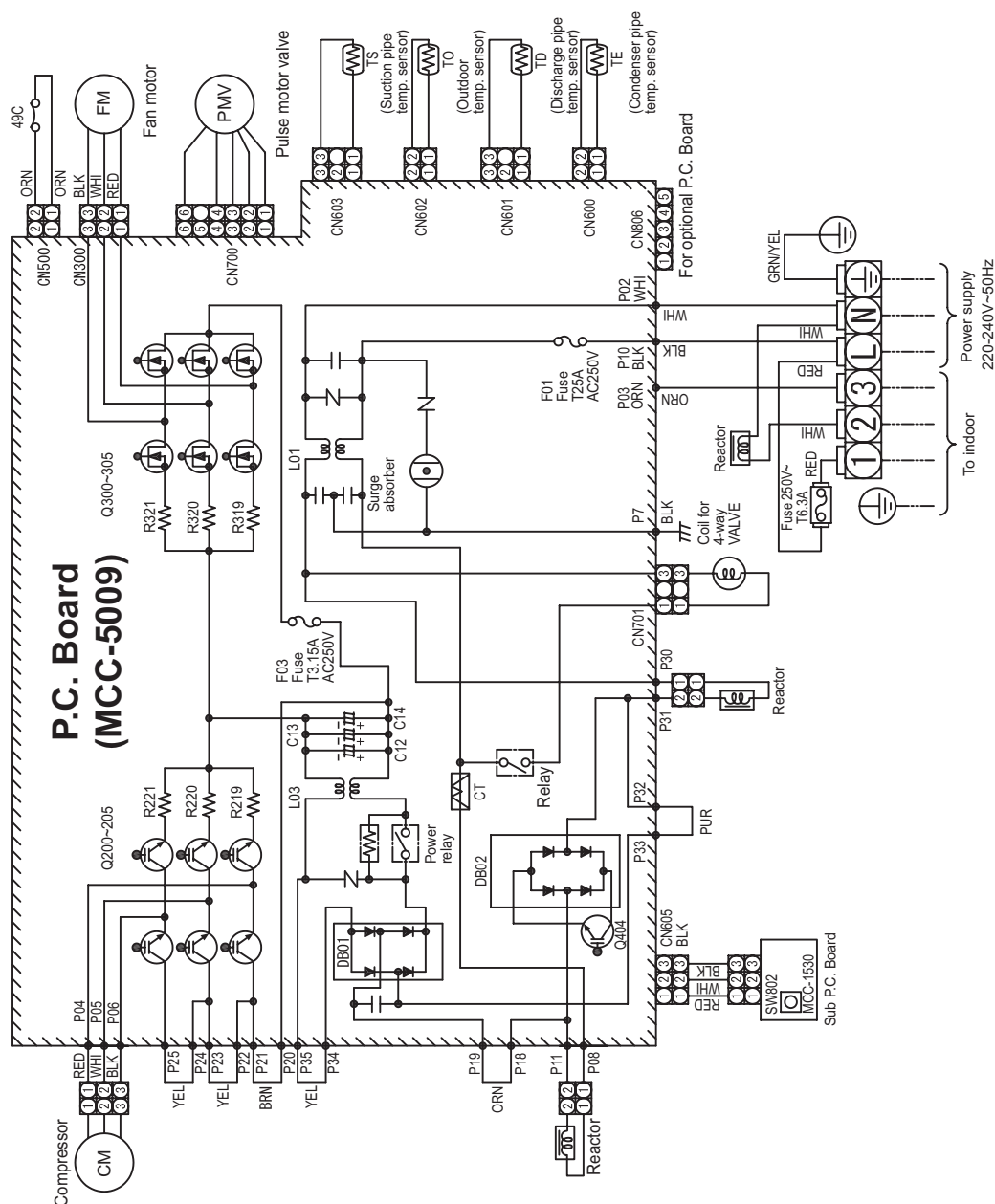
(Unit:mm)

3-3. Wiring diagrams

RAV-SP404AT-E
RAV-SP454AT-E



RAV-SP564AT-E, RAV-SP564ATZ-E, RAV-SP564ATZG-E



NOTE

CM : Compressor
 PMV : Pulse Motor Valve
 FM : Fan Motor
 TE : Heat Exchanger Temp. Sensor
 TD : Discharge Temp. Sensor
 TO : Outdoor Temp. Sensor
 TS : Suction Temp. Sensor
 CT : Current Transformer
 49C : Compressor Case Thermostat

Color Identification

BLK : BLACK WHI : WHITE
 BLU : BLUE BRN : BROWN
 RED : RED ORN : ORANGE
 GRY : GRAY YEL : YELLOW
 PNK : PINK PUR : PURPLE
 GRN : GREEN

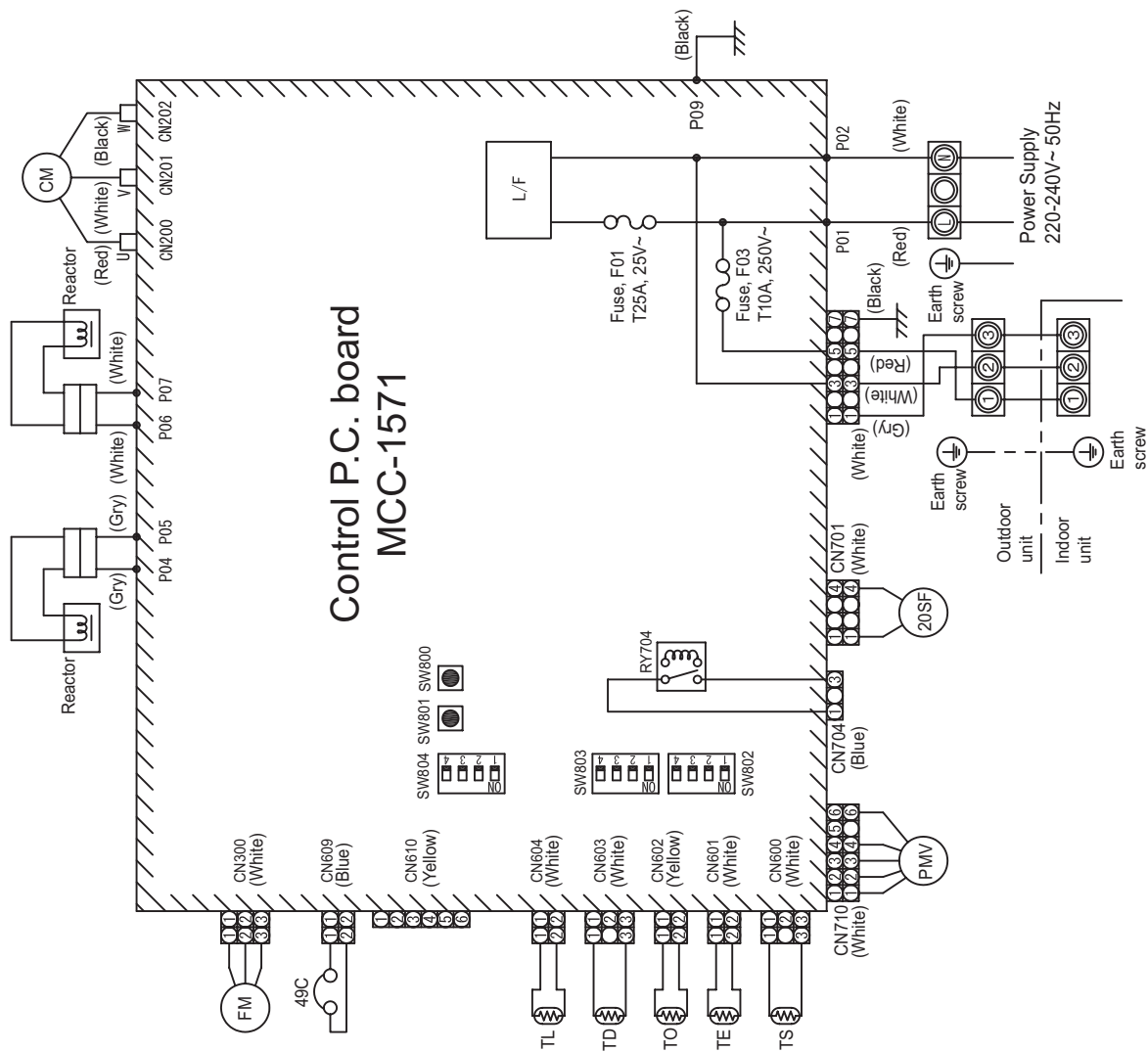
CAUTION : HIGH VOLTAGE

The high voltage circuit is incorporated.
 Be careful to do the check service, as the electric shock may be caused in case of touching parts on the P.C. board by hand



The 4-way valve coil is turned on while the cooling operation

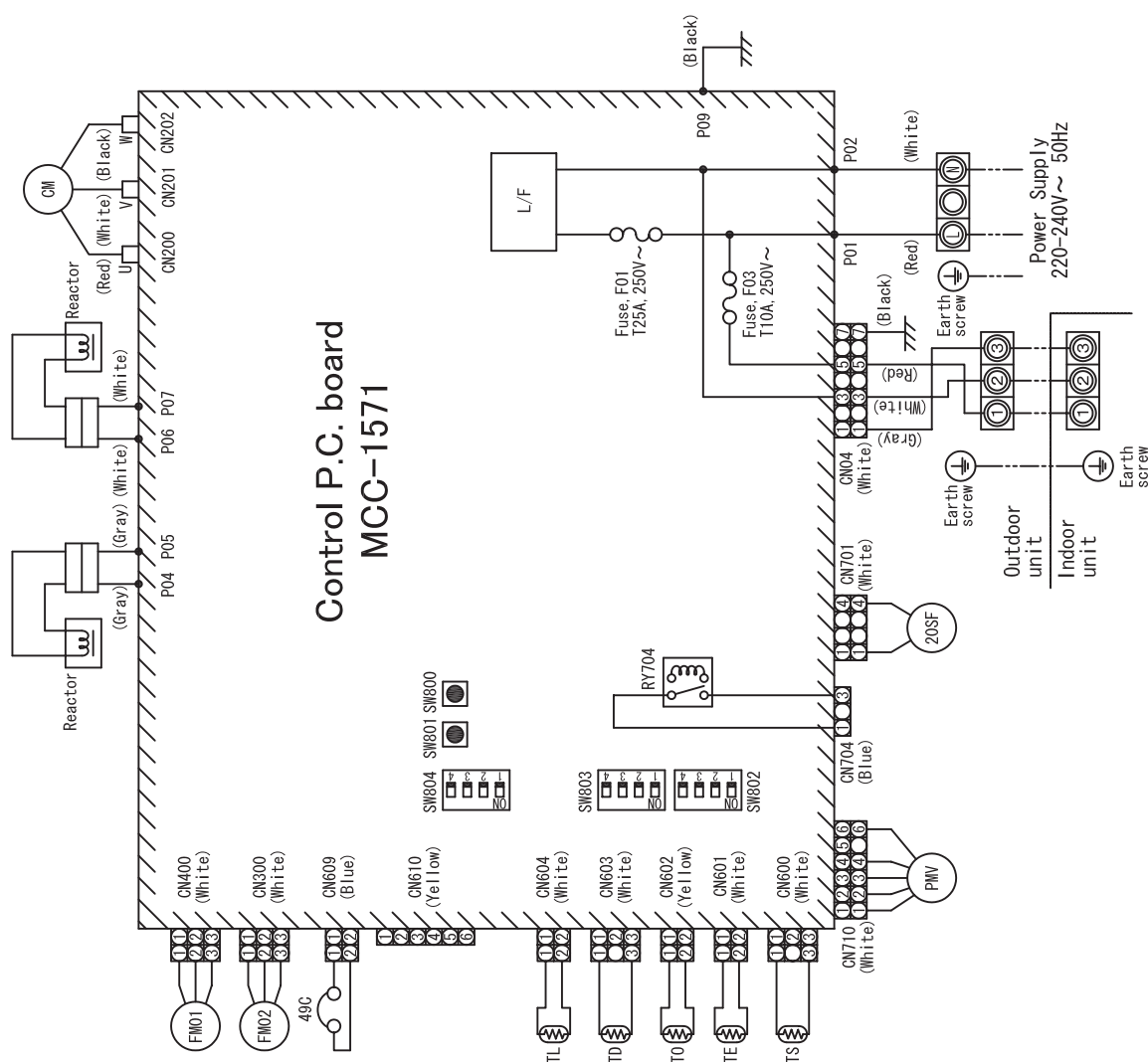
RAV-SP804AT-E, RAV-SP804ATZ-E, RAV-SP804ATZG-E



Symbol	Part name
CM	Compressor
FM	Fan motor
PMV	Pulse motor valve
TD	Pipe temperature sensor (Discharge)
TS	Pipe temperature sensor (Suction)
TE	Heat exchanger sensor 1
TL	Heat exchanger sensor 2
TO	Outside temperature sensor
20SF	4-way valve coil
49C	Compressor case thermostat
L/F	Line Filter

1. ◎ indicates the terminal block. Alphanumeric characters in the circle indicate the terminal No.
2. ■ indicates the P.C. board.
3. For the indoor unit circuit, refer to the wiring diagram of the indoor unit.

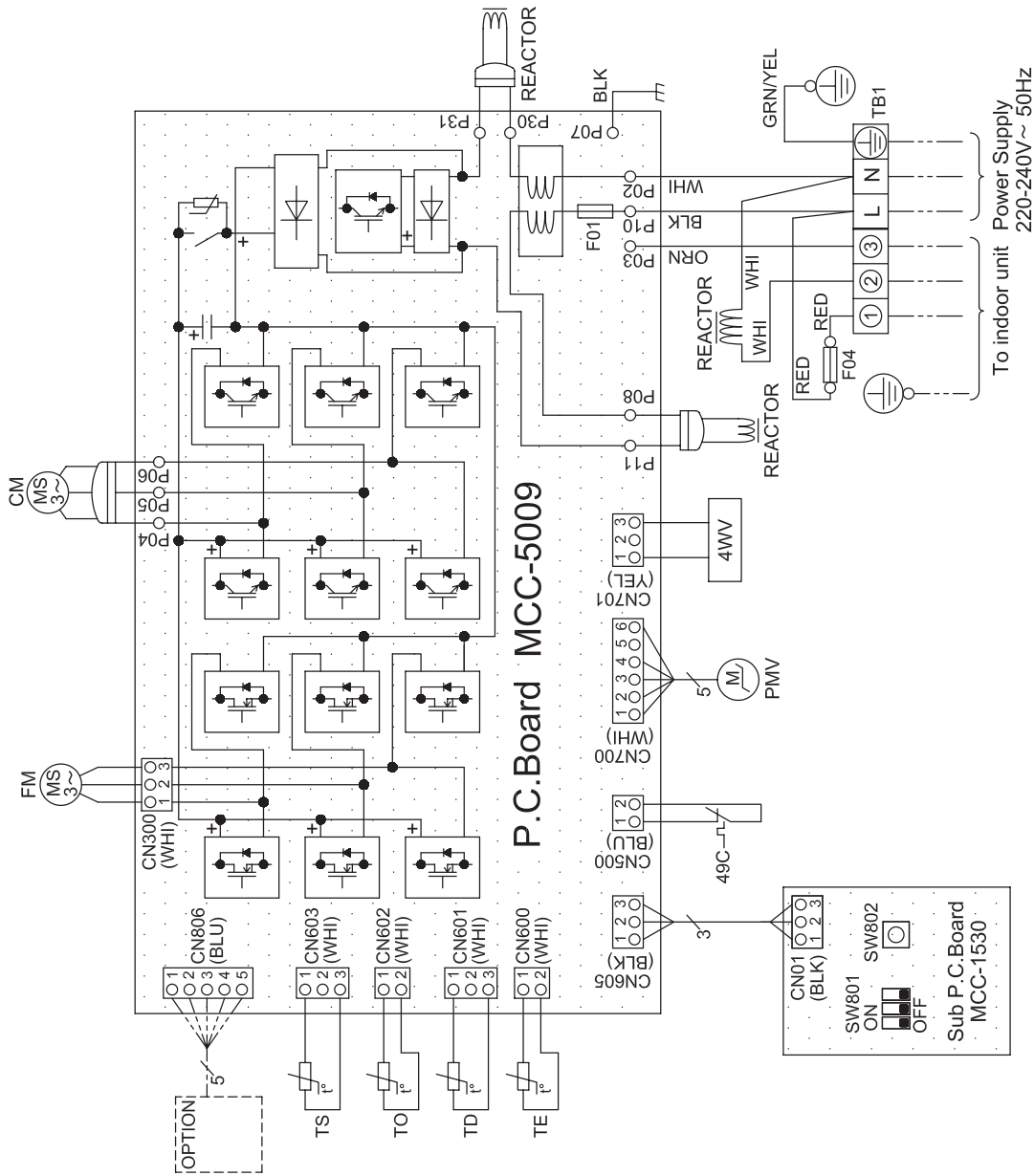
RAV-SP1104AT-E, RAV-SP1104ATZ-E, RAV-SP1104ATZG-E RAV-SP1404AT-E, RAV-SP1404ATZ-E, RAV-SP1404ATZG-E



Symbol	Part name
CM	Compressor
FM01, 02	Fan motor
PMV	Pulse motor valve
TD	Discharge pipe temp. sensor
TS	Suction pipe temp. sensor
TE	Heat exchanger temp. sensor 1
TL	Heat exchanger temp. sensor 2
TO	Outside temp. sensor
20SF	4-way valve coil
49C	Compressor case thermostat
RY	Relay
L/F	Line Filter

1. © indicates the terminal block. Alphanumeric characters in the cycle indicate the terminal No.
2. The two-dot chain line indicates the wiring procured locally.
3.  indicates the P.C. board.
4. For the indoor unit circuit, refer to the wiring diagram of the indoor unit.

RAV-SP404ATP-E, RAV-SP454ATP-E, RAV-SP564ATP-E, RAV-SP564ATJP-E,



---	Field wiring
	Protective earth
	Terminal block
	Terminal
	Connector
	P.C. board

Color Identification	
BLK	: BLACK
BLU	: BLUE
RED	: RED
GRN	: GREEN
WHI	: WHITE
ORN	: ORANGE
YEL	: YELLOW

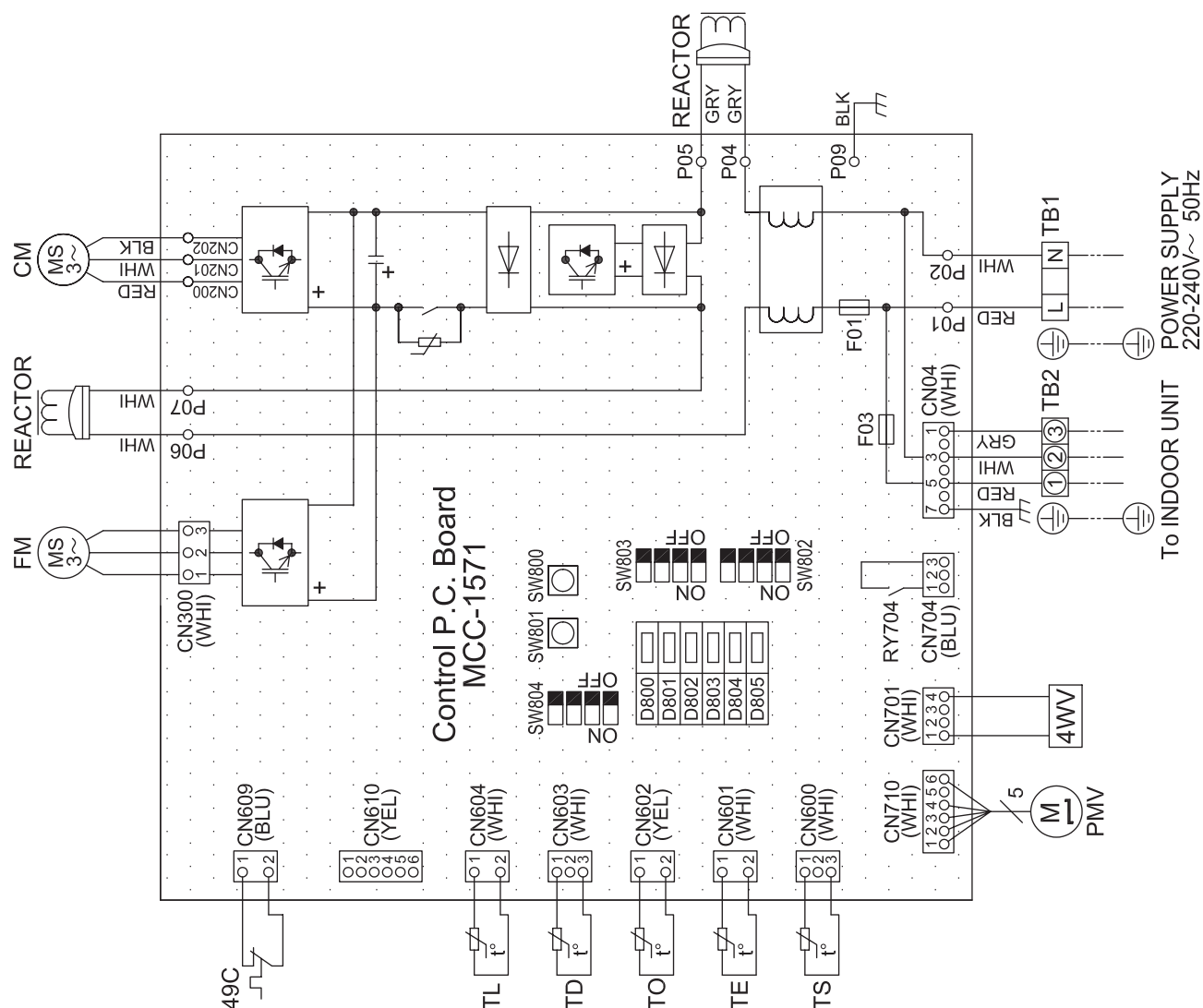
Symbol	parts name
49C	Compressor case thermostat
4WV	4-way valve coil
CM	Compressor
FM	Fan motor
F01	Fuse T25A 250V~
F04	Fuse T6.3A 250V~
OPTION	Optional P.C. Board
PMV	Pulse motor valve
TD	Discharge pipe temp. sensor
TE	Condenser pipe temp. sensor
TO	Outdoor temp. sensor
TS	Suction pipe temp. sensor
TB1	Terminal block

The 4-way valve coil is turned on while the cooling operation

CAUTION : HIGH VOLTAGE

The high voltage circuit is incorporated.
Be careful to do the check service,
as the electric shock may be caused
in case of touching parts on the P.C. board by hand

RAV-SP804ATP-E, RAV-SP804ATJP-E



Symbol	Parts name
49C	Compressor case thermostat
4WV	4-way valve coil
CM	Compressor
FM	Fan motor
F01	Fuse 25A 250V~ (for main power supply)
F03	Fuse T10A 250V~ (for indoor unit)
REACTOR	Reactor
PMV	Pulse motor valve
TD	Pipe temp. sensor (discharge)
TE	Heat exchange temp. sensor 1
TL	Heat exchange temp. sensor 2
TO	Outside temp. sensor
TS	Pipe temp. sensor (suction)
TB1	Terminal block (power supply)
TB2	Terminal block (to indoor unit)

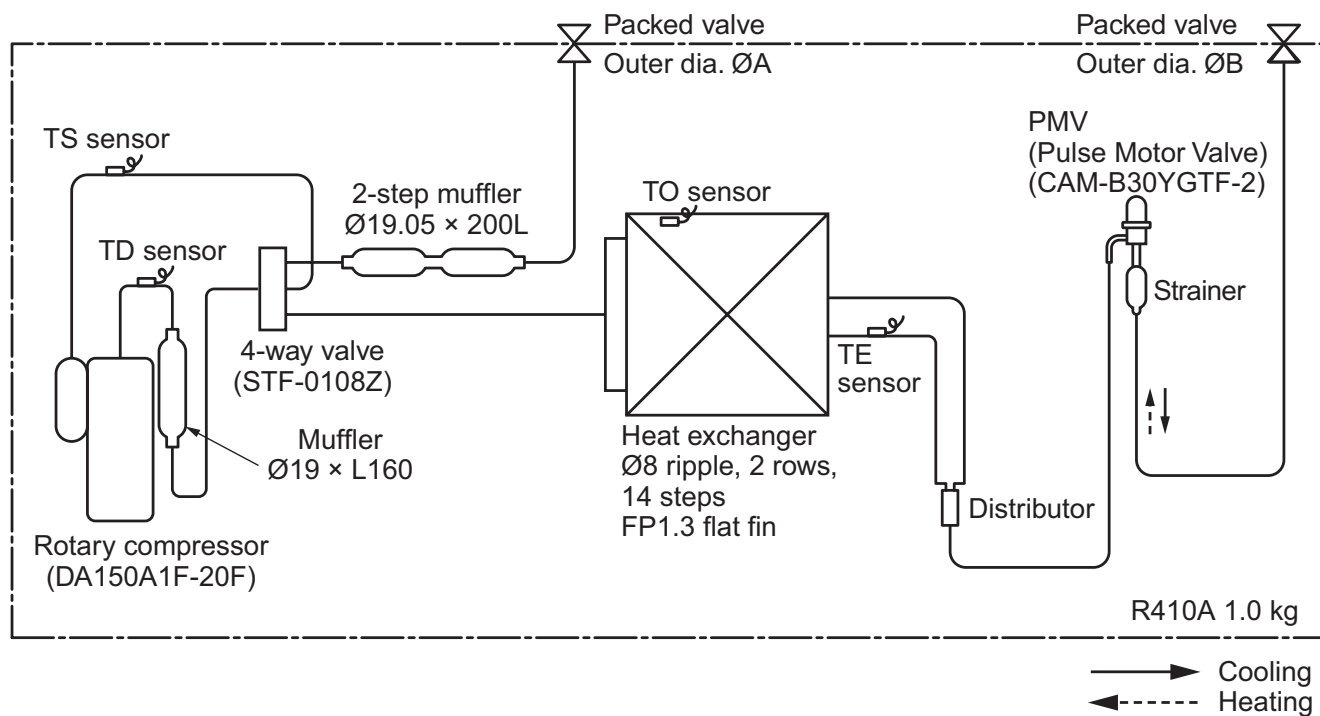
---	Field wiring
⊕	Protective earth
□	Terminal block
○	Terminal
○ ○	Connector
□	P.C.board

Color Indication
BLK : BLACK
BLU : BLUE
GRY : GRAY
RED : RED
YEL : YELLOW
WHI : WHITE

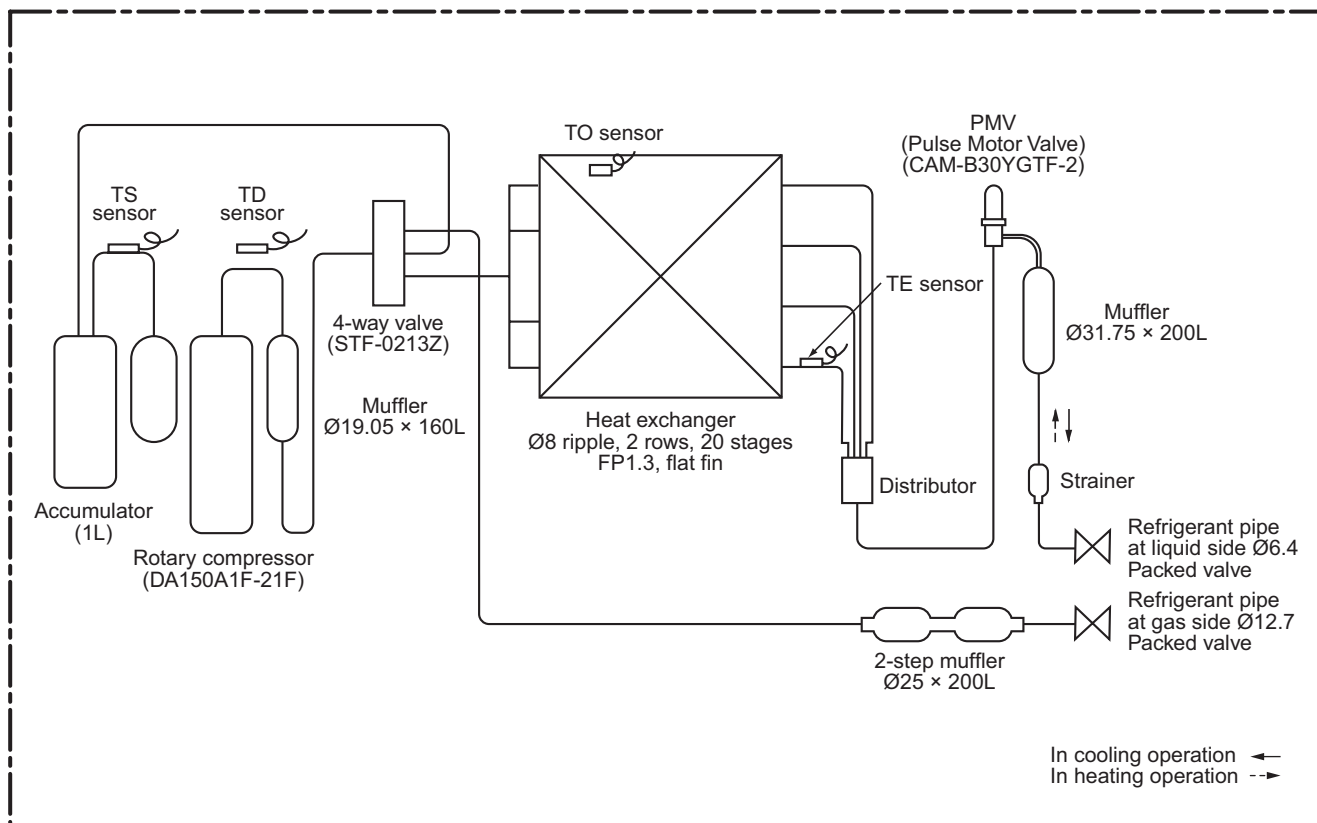
3-4. Refrigerant cycle diagram

RAV-SP404AT-E, RAV-SP404ATP-E

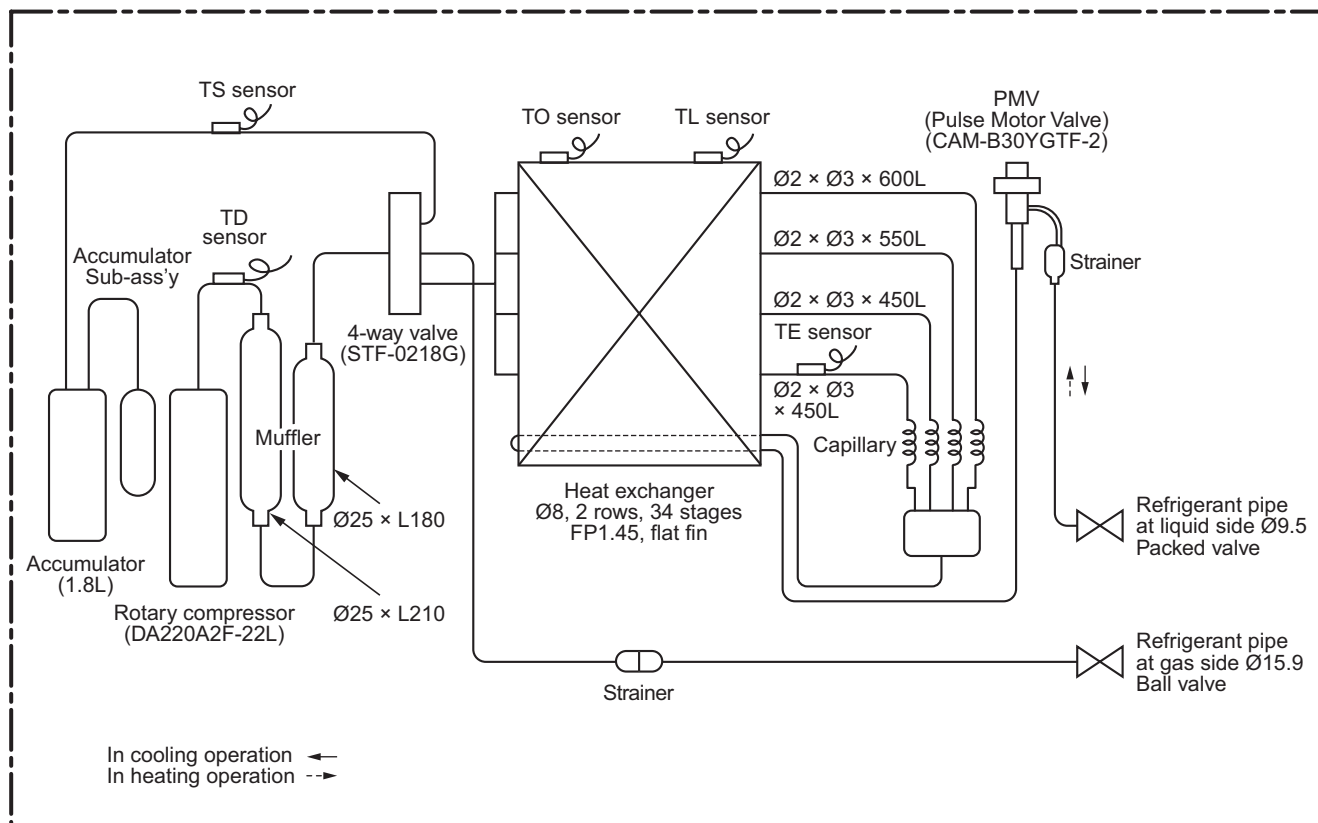
RAV-SP454AT-E, RAV-SP454ATP-E



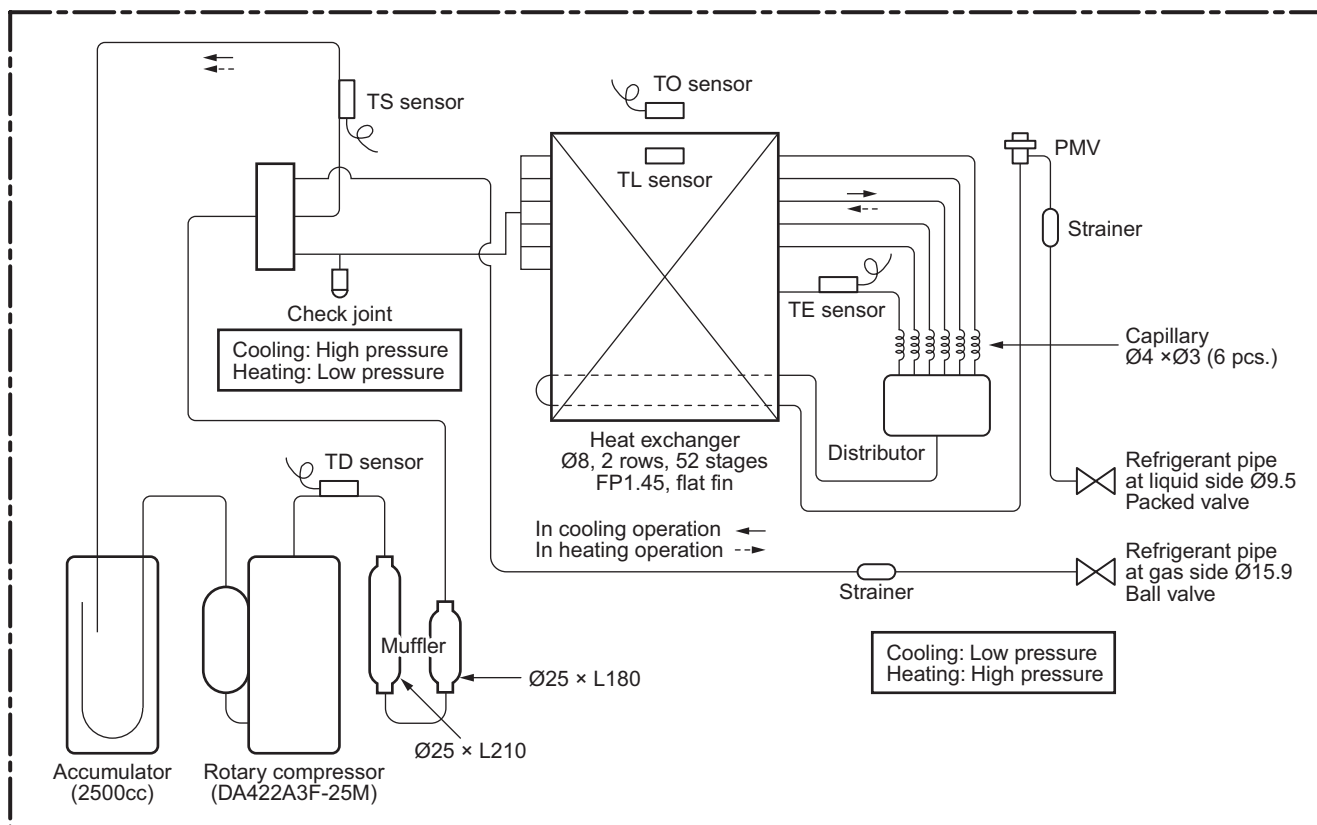
RAV-SP564AT-E, RAV-SP564ATZ-E, RAV-SP564ATZG-E, RAV-SP564ATP-E, RAV-SP564ATJP-E



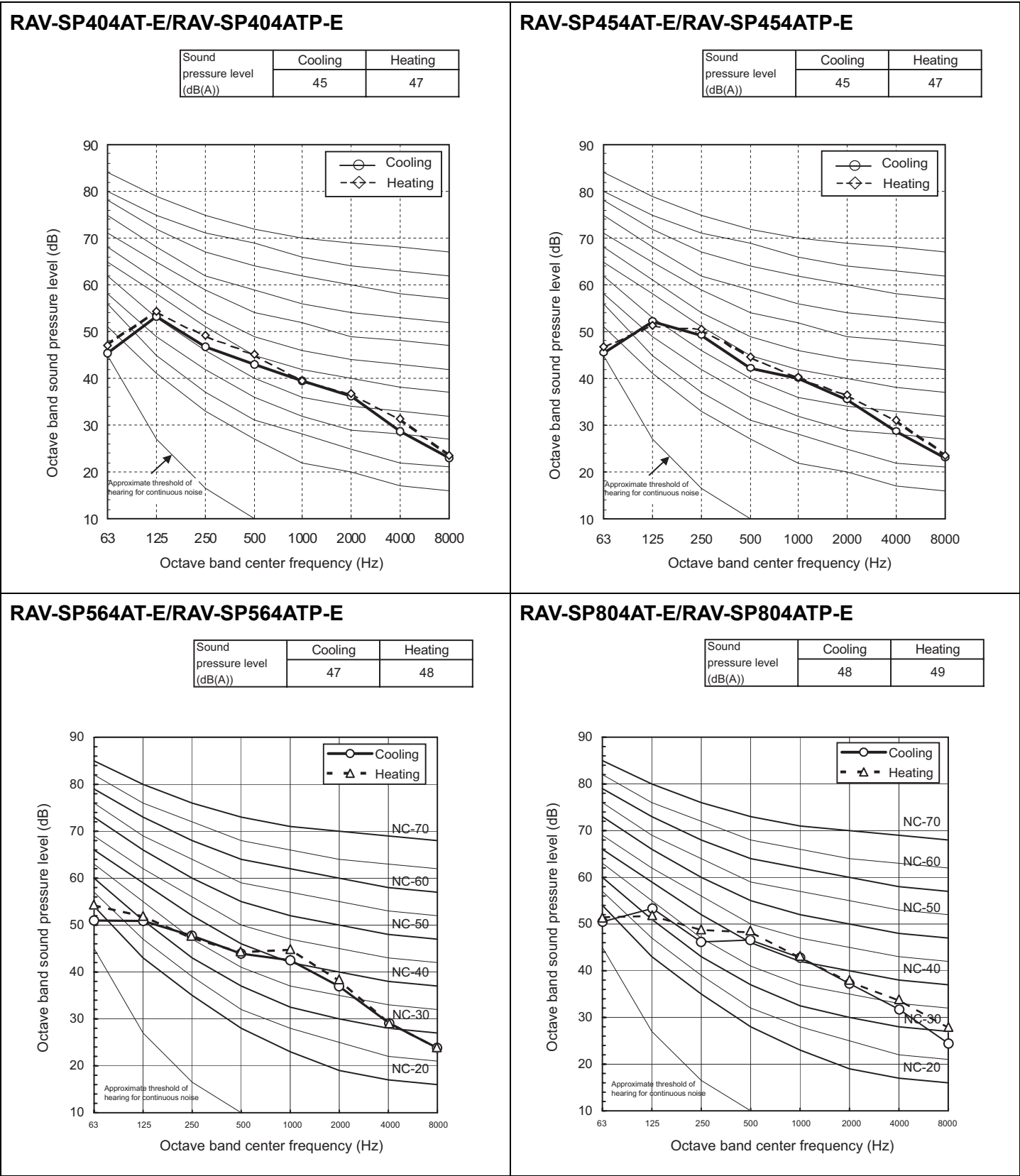
RAV-SP804AT-E, RAV-SP804ATZ-E, RAV-SP804ATZG-E, RAV-SP804ATP-E, RAV-SP804ATJP-E



RAV-SP1104AT-E, SP1104ATZ-E, SP1104ATZG-E
RAV-SP1404AT-E, SP1404ATZ-E, SP1404ATZG-E

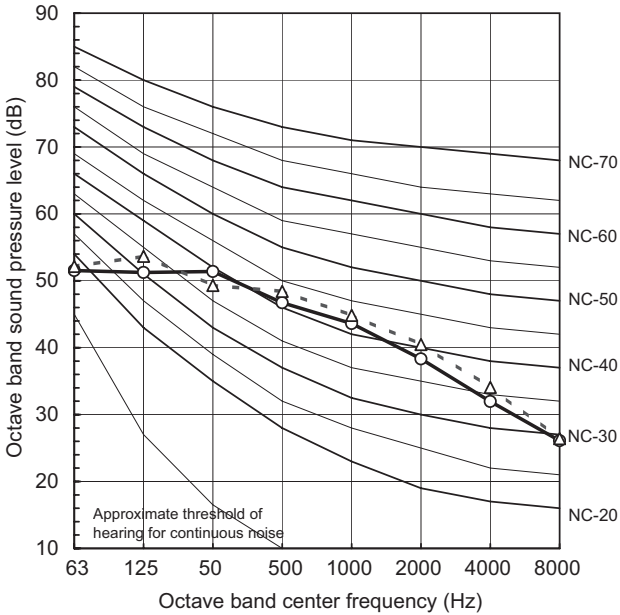


3-5. Sound characteristics (NC curve)



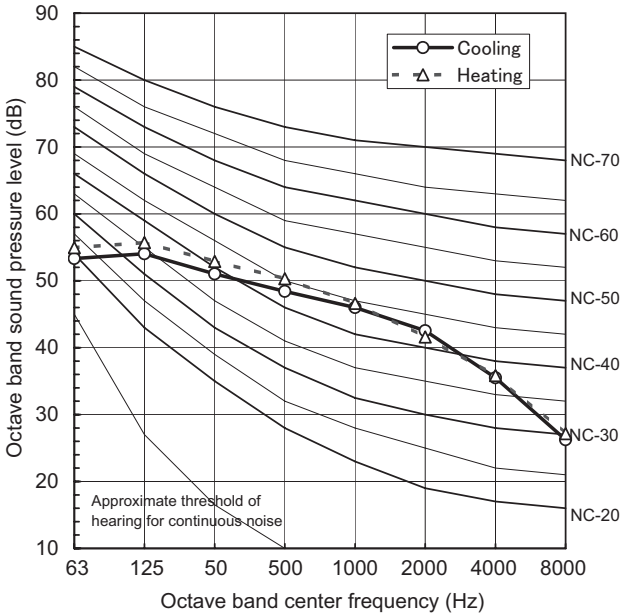
RAV-SP1104AT-E

Sound pressure level (dB(A))	Cooling	Heating
	49	50



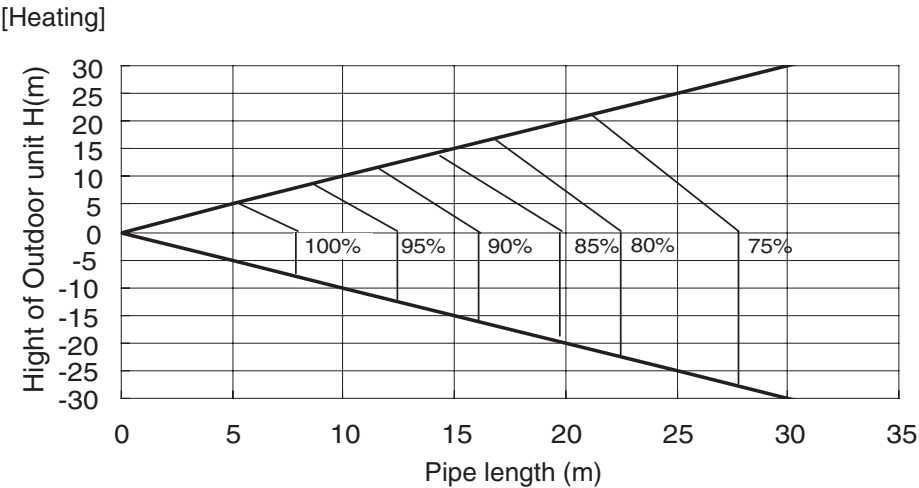
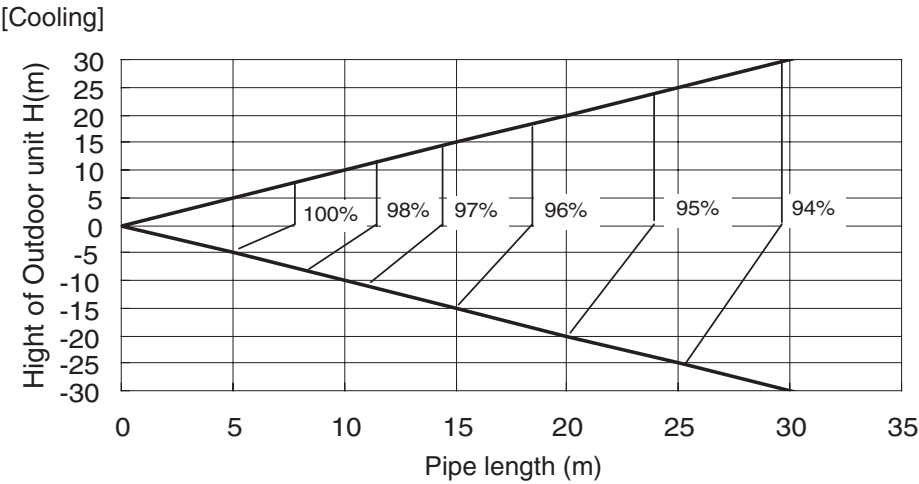
RAV-SP1404AT-E

Sound pressure level (dB(A))	Cooling	Heating
	51	52

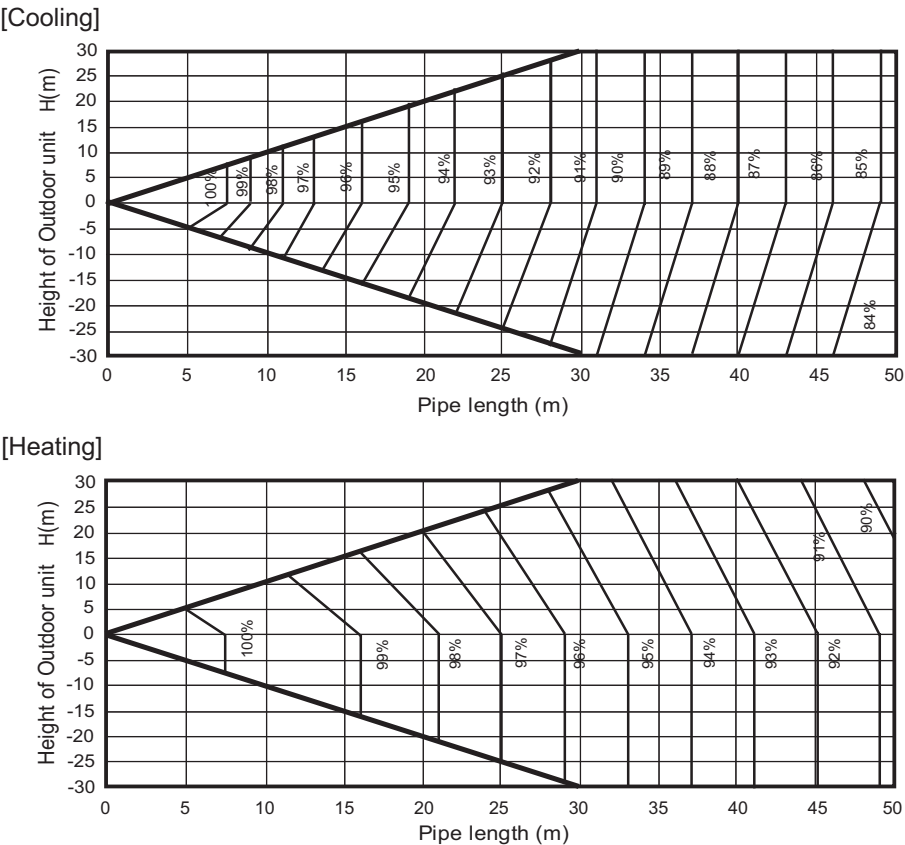


3-6. Connecting pipe length and lift difference between indoor units vs. capacity correction value

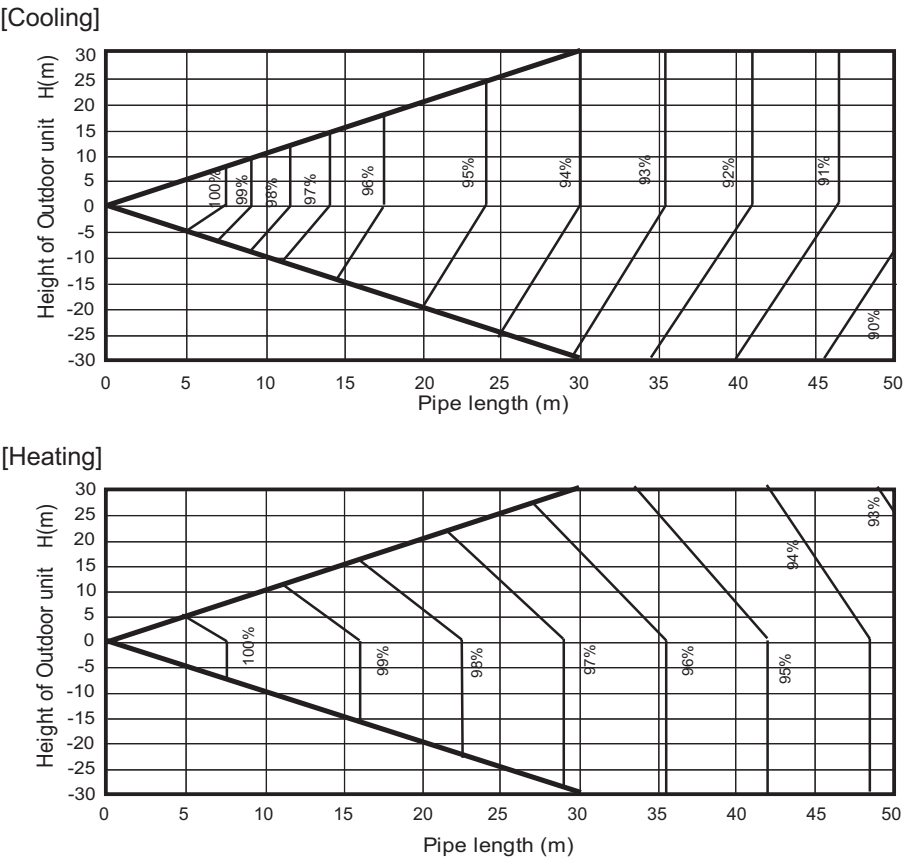
RAV-SP404AT-E, RAV-SP404ATP-E
RAV-SP454AT-E, RAV-SP454ATP-E



RAV-SP564AT-E, RAV-SP564ATZ-E, RAV-SP564ATZG-E, RAV-SP564ATP-E, RAV-SP564ATJP-E

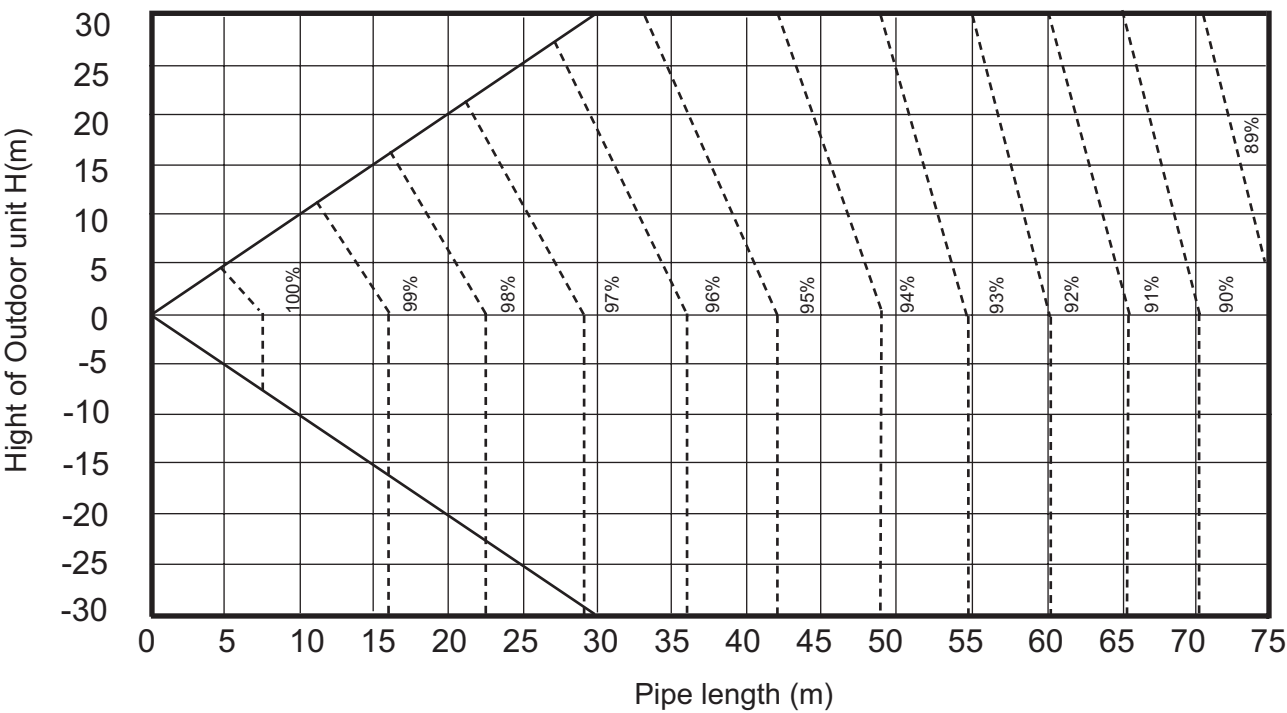


RAV-SP804AT-E, RAV-SP804ATZ-E, RAV-SP804ATZG-E, RAV-SP804ATP-E, RAV-SP804ATJP-E

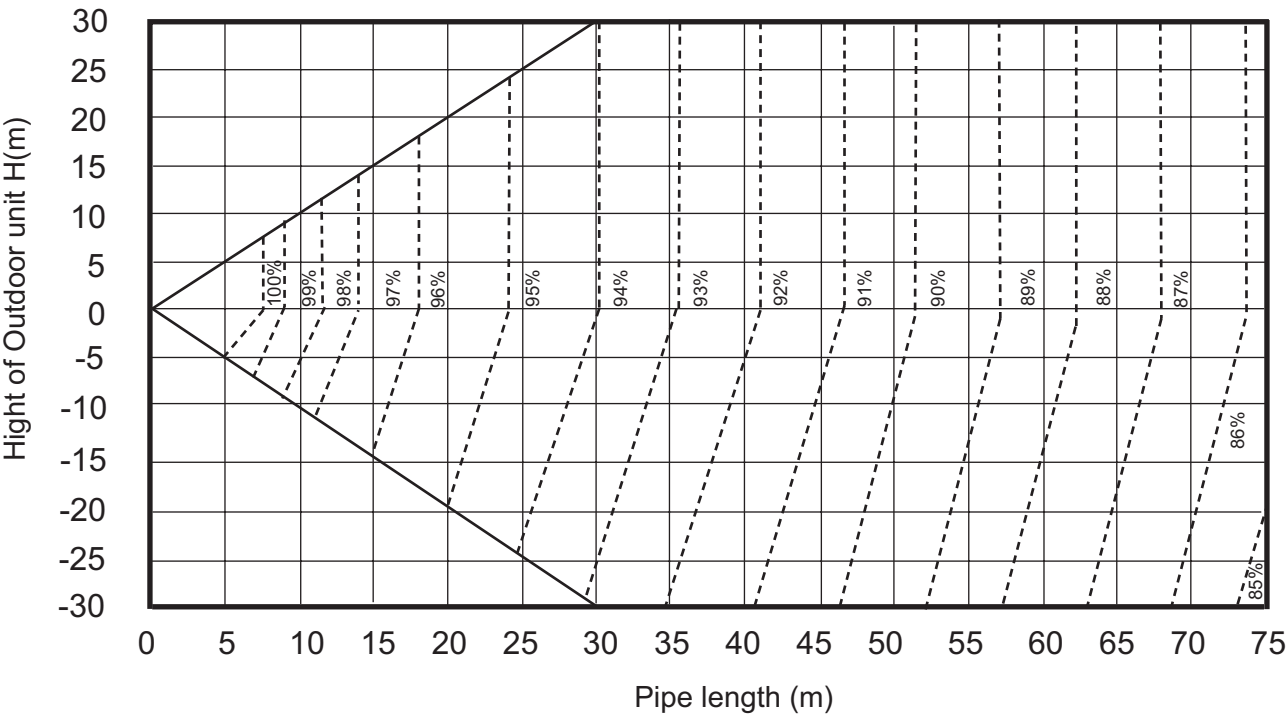


RAV-SP1104AT-E, RAV-SP1104ATZ-E, RAV-SP1104ATZG-E
RAV-SP1404AT-E, RAV-SP1404ATZ-E, RAV-SP1404ATZG-E

[Cooling]



[Heating]



4. Option

Accessories

Indoor unit type	Parts name	Model name	Indoor unit model name
4-way cassette type	Standard panel	RBC-U31PG(W)-E	RAV-SM**4UT-E
	MTO straight, white color panel	RBC-U31PGS(W)-E	
	Standard panel	RBC-U31PGS(WS)-E	
	Fresh air and filter chamber	TCB-GFC1602UE2	
	Fresh air inlet box	TCB-GB1602UE2	
	Auxiliary fresh air flange	TCB-FF101URE2	
	Spacer for height adjustment	TCB-SP1602UE	
	Air discharge direction kit	TCB-BC1602UE	
Compact 4way cassette type	Panel	RBC-UM11PG(W)E	RAV-SM**4MUT-E
Ceiling type	Drain pump kit	TCB-DP22CE2	RAV-SM**4CT-E
		TCB-DP31CE	RAV-SM**7CTP-E
	Elbow Piping Kit	TCB-KP12CE2	RAV-SM**4CT-E
		TCB-KP22CE2	
		TCB-KP13CE	RAV-SM567CTP-E
		TCB-KP23CE	RAV-SM807CTP-E, RAV-SM1107CTP-E, RAV-SM1407CTP-E

Parts name	Model name	Outdoor unit model name
Branch-kit	RBC-TWP30E	RAV-SP1104AT-E
	RBC-TWP50E	RAV-SP1404AT-E
Application control	TCB-PCOS1E2	RAV-SP804/1104/1404AT-E
	TCB-KBOS1E	RAV-SP404/454/564AT-E

Controller

Parts name	Model name	Used with
Wired remote controller	RBC-AMS51E	All indoor units
	RBC-AMT32E	All indoor units
Simple wired controller	RBC-AS21E2	All indoor units
Wireless remote controller	RBC-AX31U(W)-E	4-way cassette (4 series) units
	RBC-AX32U(WS)-E	
	RBC-AX22CE2	Ceiling units
	TCB-AX21E2	All indoor units
Remote controller with weekly timer	RBC-SMS41E	All indoor units
Schedule timer	TCB-EXS21TLE	Wired remote controller
ON-OFF controller	TCB-CC163TLE2	Wired remote controller/Central remote controller
Central controller	TCB-SC642TLE2	All indoor units
	BMS-CM1280TLE	All indoor units

Energy Save operation (RBC-AMS51E/RBC-AMT32E/RBC-AMS41E)

The method to control power consumption by limiting the peak of the compressor's electric current.

= To control peak current by limiting **% of the current release

		FCU only function	Combination function with CDU		
			SDI ser4		
		Linked with A2A HEX by TCC link*1	Energy save operation (Limit the peak of electric current)	Night Operation by only New Controller *2	Frost Protection (8°C set temp. in heating mode)
4-way cassette type	RAV-SM**4UT-E	×	○	○	○*3
	RAV-SM**4UTP-E	×	○	○	○*3
Compact 4-way cassette type	RAV-SM**4MUT-E	○	○	○	○*3
Ducted type	RAV-SM**6BT-E	○	○	○	○*3
Slim duct type	RAV-SM**4SDT-E	×	○	○	○*3
Ceiling type	RAV-SM**4CT-E	○	○	○	○*3
	RAV-SM**7CTP-E	○	○	○	○*3
High Wall type	RAV-SM**6KRT-E	×	○	○	○*3

*1) A2A HEX: VN-M**HE

*2) New Controller : RBC-AMS51E-ES, RBC-AMS51E-EN

*3) Initial setting OFF. If you would like to set up 8°C, please set up according to Installation Manual of indoor units

	RBC-AMS51E-ES/EN	RBC-AMT32E/RBC-AMS41E
○	0%, 50%, Option 50-100% per 1%	Option 50-100% per 1%
×	NA	NA

Appendix

List of L/C models Combinations for ErPLot-10*

Single split

Indoor unit type	Indoor unit name	Outdoor unit name	HP	Rated Capacity (kW) Cooling / Heating	SEER	Energy Label	Pdesign C	SCOP (average)	Energy Label	Pdesign h (average)
4-way cassette	RAV-SM564UT-E	RAV-SP564AT(Z)(ZG)-E	2	5.3/5.6	6.17	A++	5.3	4.58	A+	5.4
	RAV-SM564UT-E	RAV-SP564AT(J)P-E	2	5.3/5.6	6.17	A++	5.3	4.58	A+	5.4
	RAV-SM564UTP-E	RAV-SP564AT(J)P-E	2	5.3/5.6	6.17	A++	5.3	4.58	A+	5.4
	RAV-SM804UT-E	RAV-SP804AT(Z)(ZG)-E	3	7.1/8.0	6.39	A++	7.1	4.19	A+	7.6
	RAV-SM804UT-E	RAV-SP804AT(J)P-E	3	7.1/8.0	6.39	A++	7.1	4.19	A+	7.6
	RAV-SM804UTP-E	RAV-SP804AT(J)P-E	3	7.1/8.0	6.39	A++	7.1	4.19	A+	7.6
	RAV-SM1104UT-E	RAV-SP1104AT(Z)(ZG)-E	4	10.0/11.2	6.60	A++	10.0	4.28	A+	11.6
	RAV-SM1104UTP-E	RAV-SP1104AT(Z)(ZG)-E	4	10.0/11.2	6.60	A++	10.0	4.28	A+	11.6
Compact 4-way cassette	RAV-SM404MUT-E	RAV-SP404AT-E	1.5	3.6/4.0	5.38	A	3.6	4.17	A+	4.4
	RAV-SM404MUT-E	RAV-SP404ATP-E	1.5	3.6/4.0	5.38	A	3.6	4.17	A+	4.4
	RAV-SM454MUT-E	RAV-SP454AT-E	1.7	4.0/4.5	5.30	A	4.0	4.17	A+	4.4
	RAV-SM454MUT-E	RAV-SP454ATP-E	1.7	4.0/4.5	5.30	A	4.0	4.17	A+	4.4
	RAV-SM564MUT-E	RAV-SP564AT(Z)(ZG)-E	2	5.0/5.6	5.61	A+	5.0	4.20	A+	5.4
Ducted	RAV-SM564MUT-E	RAV-SP564AT(J)P-E	2	5.0/5.6	5.61	A+	5.0	4.20	A+	5.4
	RAV-SM406BT-E	RAV-SP404AT-E	1.5	3.6/4.0	5.12	A	3.6	4.02	A+	4.4
	RAV-SM406BT-E	RAV-SP404ATP-E	1.5	3.6/4.0	5.10	A	3.6	4.02	A+	4.4
	RAV-SM456BT-E	RAV-SP454AT-E	1.7	4.0/4.5	5.00	B	4.0	3.93	A	4.7
	RAV-SM456BT-E	RAV-SP454ATP-E	1.7	4.0/4.5	5.00	B	4.0	3.93	A	4.7
	RAV-SM566BT-E	RAV-SP564AT(Z)(ZG)-E	2	5.0/5.6	4.88	B	5.0	4.01	A+	5.4
	RAV-SM566BT-E	RAV-SP564AT(J)P-E	2	5.0/5.6	4.88	B	5.0	4.01	A+	5.4
	RAV-SM806BT-E	RAV-SP804AT(Z)(ZG)-E	3	7.1/8.0	5.88	A+	7.1	4.00	A+	7.0
Slim duct	RAV-SM806BT-E	RAV-SP804AT(J)P-E	3	7.1/8.0	5.88	A+	7.1	4.00	A+	7.0
	RAV-SM1106BT-E	RAV-SP1104AT(Z)(ZG)-E	4	10.0/11.2	5.65	A+	10.0	3.87	A	10.8
	RAV-SM404SDT-E	RAV-SP404AT-E	1.5	3.6/4.0	5.11	A	3.6	3.80	A	3.8
	RAV-SM404SDT-E	RAV-SP404ATP-E	1.5	3.6/4.0	5.11	A	3.6	3.90	A	3.8
	RAV-SM454SDT-E	RAV-SP454AT-E	1.7	4.0/4.5	5.01	B	4.0	3.90	A	3.8
	RAV-SM454SDT-E	RAV-SP454ATP-E	1.7	4.0/4.5	5.01	B	4.0	3.90	A	3.8
Ceiling	RAV-SM564SDT-E	RAV-SP564AT(Z)(ZG)-E	2	5.0/5.6	5.10	A	5.0	3.83	A	5.4
	RAV-SM564SDT-E	RAV-SP564AT(J)P-E	2	5.0/5.6	5.10	A	5.0	3.83	A	5.4
	RAV-SM564CT-E	RAV-SP564AT(Z)(ZG)-E	2	5.0/5.6	5.17	A	5.0	4.13	A+	5.4
	RAV-SM564CT-E	RAV-SP564AT(J)P-E	2	5.0/5.6	5.17	A	5.0	4.13	A+	5.4
	RAV-SM804CT-E	RAV-SP804AT(Z)(ZG)-E	3	7.1/8.0	5.63	A+	7.1	3.93	A	7.6
	RAV-SM804CT-E	RAV-SP804AT(J)P-E	3	7.1/8.0	5.63	A+	7.1	3.93	A	7.6
	RAV-SM1104CT-E	RAV-SP1104AT(Z)(ZG)-E	4	10.0/11.2	5.73	A+	10.0	3.94	A	11.6
	RAV-SM567CTP-E	RAV-SP564AT(J)P-E	2	5.0/5.6	5.45	A	5.0	4.28	A+	5.4
High wall	RAV-SM807CTP-E	RAV-SP804AT(J)P-E	3	7.1/8.0	6.21	A++	7.1	4.10	A+	7.6
	RAV-SM1107CTP-E	RAV-SP1104AT(Z)(ZG)-E	4	10.0/11.2	6.18	A++	10.0	4.27	A+	11.6
	RAV-SM566KRT-E	RAV-SP564AT(Z)(ZG)-E	2	5.0/5.6	5.82	A+	5.0	4.01	A+	5.8
	RAV-SM566KRT-E	RAV-SP564AT(J)P-E	2	5.0/5.6	5.82	A+	5.0	4.01	A+	5.8
	RAV-SM806KRT-E	RAV-SP804AT(Z)(ZG)-E	3	7.1/8.0	5.88	A+	7.1	3.87	A	7.0
	RAV-SM806KRT-E	RAV-SP804AT(J)P-E	3	7.1/8.0	5.88	A+	7.1	3.87	A	7.0

Twin split

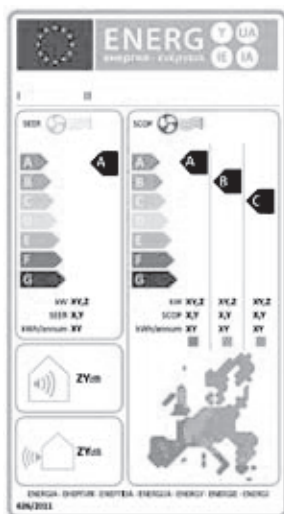
Indoor unit type	Indoor unit name	Outdoor unit name	HP	Rated Capacity (kW) Cooling / Heating	SEER	Energy Label	Pdesign C	SCOP (average)	Energy Label	Pdesign h (average)
Compact 4-way cassette	RAV-SM404MUT-E*2	RAV-SP804AT(Z)(ZG)-E	3	7.1/8.0	5.60	A+	7.1	3.86	A	7.6
	RAV-SM404MUT-E*2	RAV-SP804AT(J)P-E	3	7.1/8.0	5.60	A+	7.1	3.86	A	7.6
	RAV-SM564MUT-E*2	RAV-SP1104AT(Z)(ZG)-E	4	10.0/11.2	5.67	A+	10.0	3.90	A	11.8
4-way cassette	RAV-SM564UT-E*2	RAV-SP1104AT(Z)(ZG)-E	4	10.0/11.2	6.60	A++	10.0	4.28	A+	11.6
	RAV-SM564UTP-E*2	RAV-SP1104AT(Z)(ZG)-E	4	10.0/11.2	6.60	A++	10.0	4.28	A+	11.6
Slim duct	RAV-SM404SDT-E*2	RAV-SP804AT(Z)(ZG)-E	3	7.1/8.0	5.38	A	7.1	3.88	A	7.0
	RAV-SM404SDT-E*2	RAV-SP804AT(J)P-E	3	7.1/8.0	5.38	A	7.1	3.88	A	7.0
	RAV-SM564SDT-E*2	RAV-SP1104AT(Z)(ZG)-E	4	10.0/11.2	5.60	A+	10.0	3.84	A	11.6
Ducted	RAV-SM406BT-E*2	RAV-SP804AT(Z)(ZG)-E	3	7.1/8.0	5.88	A+	7.1	4.00	A+	7.0
	RAV-SM406BTT-E*2	RAV-SP804AT(J)P-E	3	7.1/8.0	5.88	A+	7.1	4.00	A+	7.0
	RAV-SM566BT-E*2	RAV-SP1104AT(Z)(ZG)-E	4	10.0/11.2	5.65	A+	10.0	3.87	A	10.8
Ceiling	RAV-SM564CT-E*2	RAV-SP1104AT(Z)(ZG)-E	4	10.0/11.2	5.73	A+	10.0	3.94	A	11.6
	RAV-SM567CTP-E*2	RAV-SP1104AT(Z)(ZG)-E	4	10.0/11.2	6.18	A++	10.0	4.27	A+	11.6
High wall	RAV-SM566KRT-E*2	RAV-SP1104AT(Z)(ZG)-E	4	10.0/11.2	5.60	A+	10.0	3.87	A	10.8

* ErP Lot-10

In Europe the nominal efficiency method is becoming outdated.

The Seasonal Energy Efficiency Ratio (SEER) and the Seasonal Coefficient Of Performance (SCOP) will be introduced. The SEER/SCOP measuring method is more reliable and better represent the performance of the units during the year. Instead of a single reference temperature condition, with this new method the air conditioning systems are evaluated at different operating conditions (partial load); where Toshiba inverter units are known for being extremely efficient.

The SEER/SCOP measurement applies only to air conditioners in single or multi split combinations with a cooling capacity below 12kW.



Energy Efficiency Class	SEER	SCOP
A+++	SEER ≥ 8.50	SCOP ≥ 5.10
A++	6.10 ≤ SEER < 8.50	4.60 ≤ SCOP < 5.10
A+	5.60 ≤ SEER < 6.10	4.00 ≤ SCOP < 4.60
A	5.10 ≤ SEER < 5.60	3.40 ≤ SCOP < 4.00
B	4.60 ≤ SEER < 5.10	3.10 ≤ SCOP < 3.40
C	4.10 ≤ SEER < 4.60	2.80 ≤ SCOP < 3.10
D	3.60 ≤ SEER < 4.10	2.50 ≤ SCOP < 2.80
E	3.10 ≤ SEER < 3.60	2.20 ≤ SCOP < 2.50
F	2.60 ≤ SEER < 3.10	1.90 ≤ SCOP < 2.20
G	SEER < 2.60	SCOP < 1.90

TOSHIBA CARRIER CORPORATION

23-17, TAKANAWA 3-CHOME, MINATO-KU, TOKYO, 108-0074, JAPAN

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