

Digital Inverter R32

Light Commercial System

Indoor Units

RAV-GM561UTP-A

RAV-GM561DTP-A

RAV-GM561BTP-A

RAV-GM801UTP-A

RAV-GM801DTP-A

RAV-GM801BTP-A

RAV-GM1101UTP-A

RAV-GM1101DTP-A

RAV-GM1101BTP-A

RAV-GM1401UTP-A

RAV-GM1401DTP-A

RAV-GM1401BTP-A

RAV-GM1601UTP-A

RAV-GM1601DTP-A

RAV-GM1601BTP-A

RAV-GM561CTP-A

RAV-GM301KRTP-A

RAV-RM301MUT-E

RAV-GM801CTP-A

RAV-GM401KRTP-A

RAV-RM401MUT-E

RAV-GM1101CTP-A

RAV-GM561KRTP-A

RAV-RM561MUT-E

RAV-GM1401CTP-A

RAV-GM801KRTP-A

RAV-GM1601CTP-A

Outdoor Units

RAV-GM301ATP-A

RAV-GM401ATP-A

RAV-GM501ATP-A

RAV-GM801ATP-A

RAV-GM1101ATP-A

RAV-GM1401ATP-A

RAV-GM1601ATP-A

RAV-GM1601AT8P-A

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1. Line up

Outdoor unit

Model name	1 phase model	Capacity range	3 phase model	Capacity range
	RAV-GM561ATP-A	2 HP	-	-
	RAV-GM801ATP-A	3 HP	-	-
	RAV-GM1101ATP-A	4 HP	-	-
	RAV-GM1401ATP-A	5 HP	-	-
	RAV-GM1601ATP-A	6 HP	RAV-GM1601AT8P-A	6 HP
Appearance	 2 HP 3 HP 4-5 HP 6 HP			

Indoor unit

Capacity range		2 HP	3 HP	4 HP	5 HP	6 HP
4-way Cassette	 RAV-GMxx1UTP-A	56	80	110	140	160
Under Ceiling	 RAV-GMxx1CTP-A	56	80	110	140	160
Standard Duct	 RAV-GMxx1BTP-A	56	80	110	140	160
High Static Pressure Duct	 RAV-GMxx1DTP-A	56	80	110	140	160

Indoor unit

Capacity range		1 HP	1.5 HP	2 HP	3 HP
4-way Cassette	 RAV-GMxx1KRTP-A	30	40	56	80
Cpmpact 4-way	 RAV-RMxx1MUT-E	30	40	56	-

2. Indoor Units

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 Characteristic (NC Curve)

2-1-1. Specifications

4-way Cassette Type

Model		Indoor unit		RAV-GM561UTP-A	RAV-GM801UTP-A	RAV-GM1101UTP-A	RAV-GM1401UTP-A	RAV-GM1601UTP-A	RAV-GM1601UTP-A		
		Outdoor unit		RAV-GM561ATP-A	RAV-GM801ATP-A	RAV-GM1101ATP-A	RAV-GM1401ATP-A	RAV-GM1601ATP-A	RAV-GM1601AT8P-A		
Cooling capacity				(kW)	5.0 < 1.5 - 5.6 >	7.1 < 1.5 - 8.0 >	10.0 < 3.0 - 11.2 >	12.5 < 3.0 - 14.0 >	14.0 <3.0 - 16.0>	14.0 <3.0 - 16.0>	
Heating capacity				(kW)	5.3 < 1.5 - 6.3 >	8.0 < 1.5 - 9.0 >	11.2 < 3.0 - 13.0 >	14.0 < 3.0 - 16.0 >	16.0 <3.0 - 18.0>	16.0 <3.0 - 18.0>	
Power supply					1 phase 220V-240V/50Hz					3 phase 380V-415V/50Hz	
Electrical characteristics	Cooling	Running current		(A)	1.58 - 8.80	1.77 - 12.2	3.65 - 19.6	5.20 - 24.6	4.00 - 26.7	1.30 - 9.15	
		Power consumption		(kW)	1.43	1.97	2.86	3.91	4.37	4.37	
		Power factor		(%)	95	96	94	95	96	94	
		EER			3.50	3.60	3.50	3.20	3.20	3.20	
		AEER			3.43	3.57	3.46	3.17	3.18	3.19	
	Heating Besides, Under ceiling	Running current		(A)	1.58 - 9.85	1.64 -13.6	3.65 -20.6	3.90 - 22.7	4.00 - 26.5	1.30 - 9.05	
		Power consumption		(kW)	1.23	2.10	2.80	3.72	4.38	4.38	
		Power factor		(%)	95	96	94	95	96	94	
		COP			4.31	3.81	4.00	3.76	3.65	3.65	
		ACOP			4.22	3.77	3.96	3.74	3.63	3.63	
Indoor unit											
Appearance		Main unit			Zinc hot dipping steel plate						
		Ceiling panel	Model		RBC-U32PGP-E						
		(Sold separately)	Panel color		W: Moon-white(2.5GY 9.0/0.5)						
Outer dimension		Main unit		Height	(mm)	256	319				
				Width	(mm)	840					
				Depth	(mm)	840					
		Ceiling panel (Sold separately)		Height	(mm)	30					
				Width	(mm)	950					
				Depth	(mm)	950					
Total weight		Main unit			(kg)	20.0	24.0				
		Ceiling panel (Sold separately)			(kg)	4.2					
Fan unit		Fan			Turbo fan						
		Standard air flow	H/M/L	(m3/h)	1050 / 870 / 780	1230 / 960 / 810	2150 / 1500 / 1260	2300 / 1840 / 1500	2300 / 1840 / 1500	2300 / 1840 / 1500	
Air filter				Standard filter (Long life filter)							
Sound pressure level			H/M/L	(dB)	32 / 29 / 28	35 / 31 / 28	47 / 43 / 39	48 / 44 / 42	48 / 44 / 42	48 / 44 / 42	
Connecting pipe		Drain port			VP25						

*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.

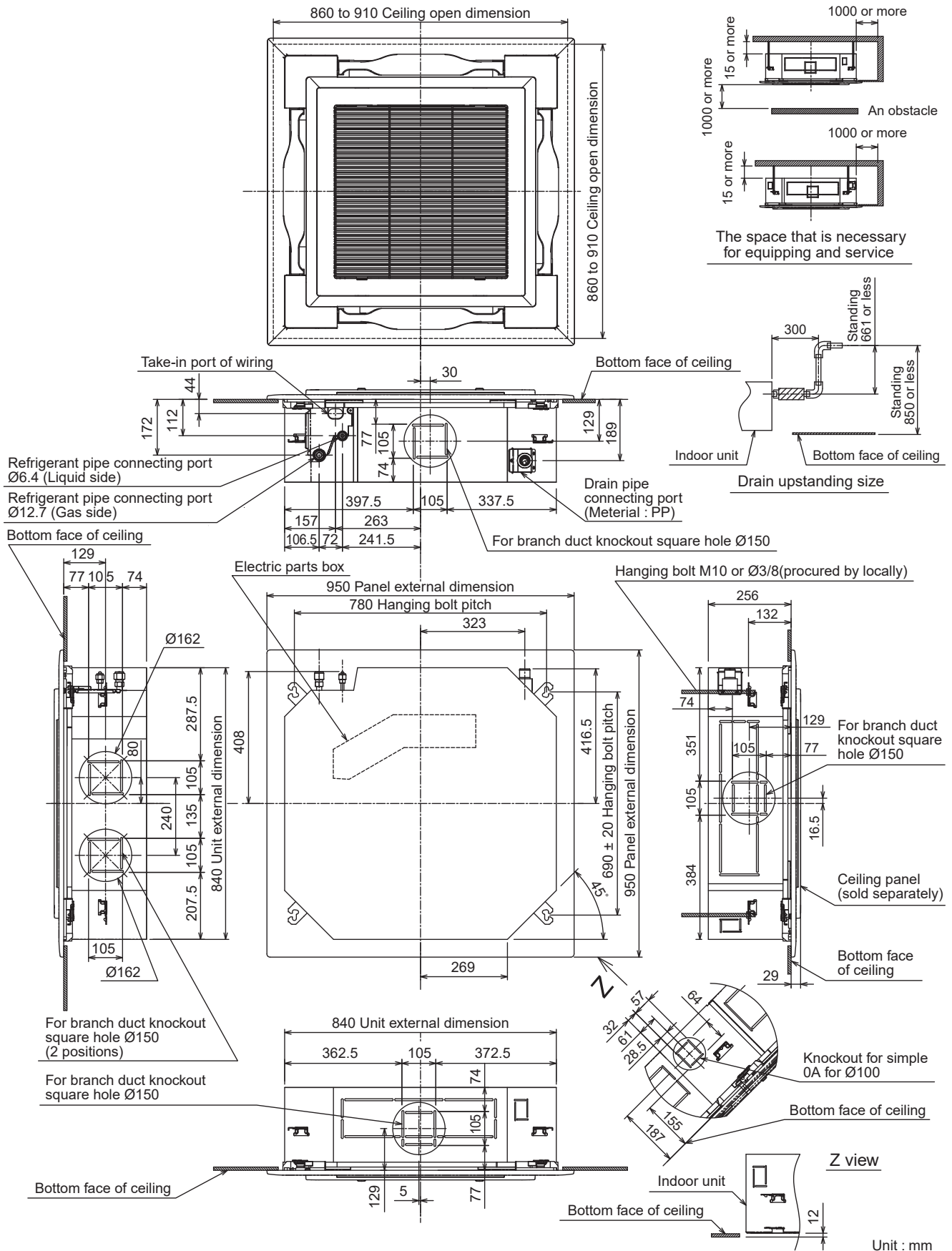
*2 : The sound level are measured in an anechoic chamber in accordance with JIS B 8616. Normally, the values measured in the actual operating environment become larger than the indicated values due to the effects of external sound.

Note :

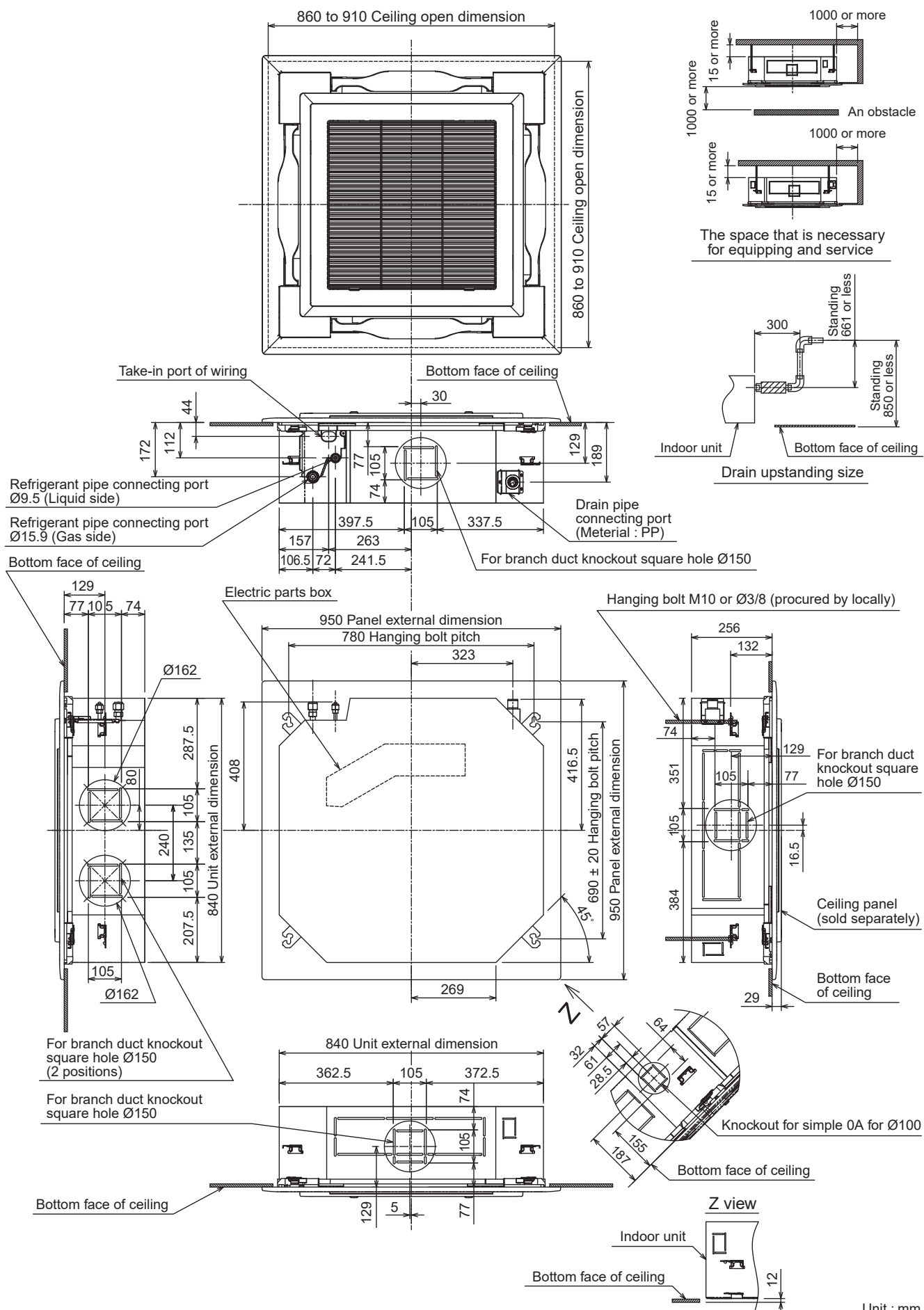
Rated conditions Cooling : Indoor air temperature 27°C DB/19°C WB, Outdoor air temperature 35°C DB
Heating : Indoor air temperature 20°C DB, Outdoor air temperature 35°C DB

2-1-2. Dimension

RAV-GM561UTP-A

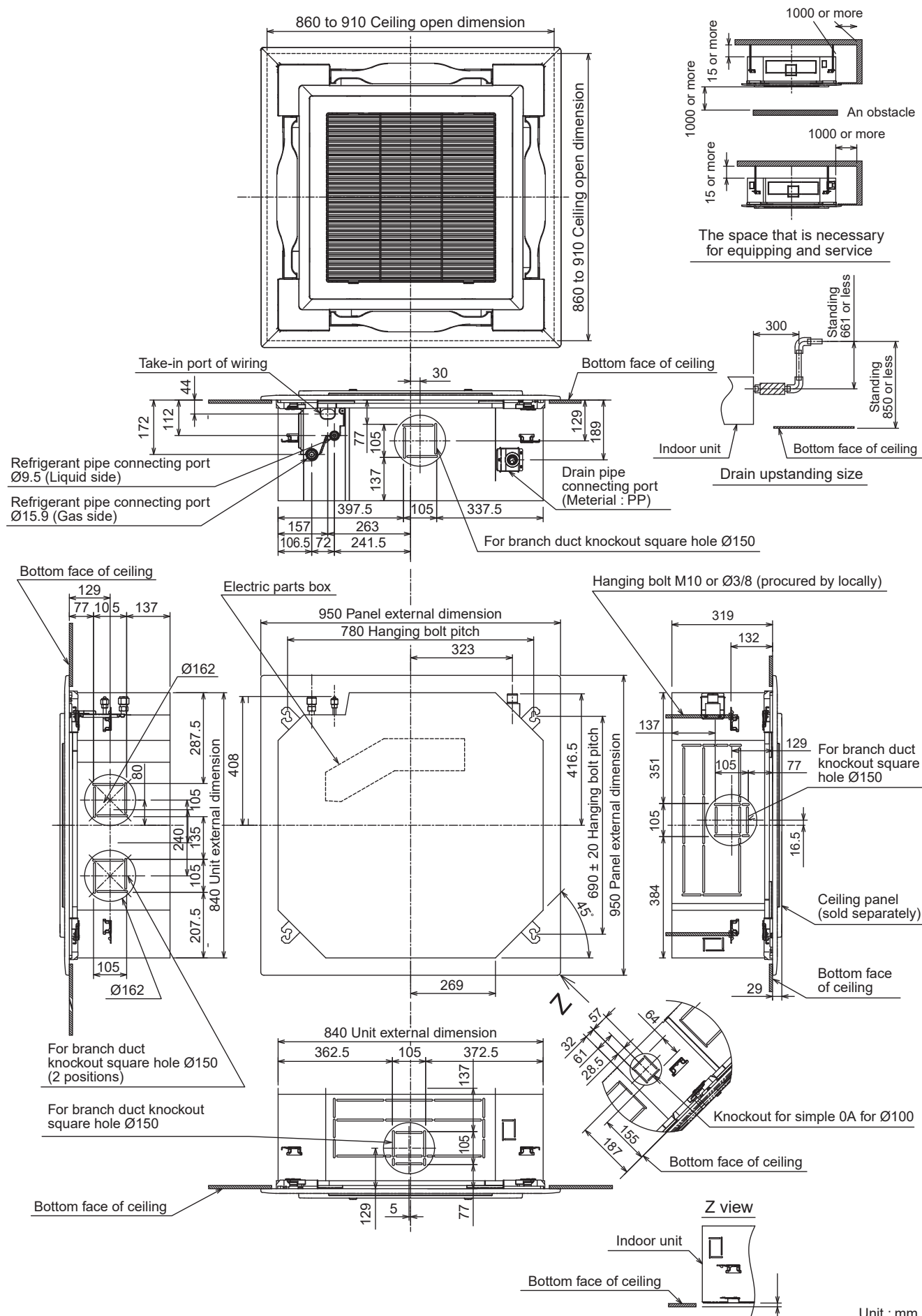


RAV-GM801UTP-A



Unit : mm

RAV-GM*1UTP-A (*110 / 140 / 160)



2-1-4. Sensible Capacity Table

Product models : RAV-GM561UTP-A / RAV-GM561ATP-A

Standard Condition

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

Specification of product at standard condition.

Total Cooling Capacity (TC)	5.00 kW
Sensible Heat Capacity (SHC)	4.15 kW

	Indoor Air temperature																	
Outdoor air temp.	14.0 °C WB		15.0 °C WB		16.0 °C WB		17.0 °C WB		18.0 °C WB		19.0 °C WB		20.0 °C WB		22.0 °C WB		24.0 °C WB	
	20.0 °C DB		21.0 °C DB		23.0 °C DB		24.0 °C DB		26.0 °C DB		27.0 °C DB		28.0 °C DB		30.0 °C DB		32.0 °C DB	
	°C DB	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	
10.0	4.83	4.30	5.00	4.40	5.33	4.59	5.46	4.69	5.71	4.88	5.88	4.88	6.05	4.88	6.40	4.85	6.70	4.77
12.0	4.79	4.27	4.96	4.37	5.29	4.55	5.41	4.65	5.66	4.84	5.83	4.84	6.00	4.84	6.35	4.81	6.64	4.73
14.0	4.75	4.23	4.91	4.33	5.24	4.51	5.37	4.61	5.61	4.80	5.78	4.80	5.94	4.80	6.30	4.77	6.58	4.69
16.0	4.70	4.19	4.87	4.29	5.19	4.47	5.32	4.57	5.56	4.75	5.72	4.75	5.89	4.75	6.24	4.72	6.52	4.64
18.0	4.65	4.15	4.82	4.24	5.14	4.42	5.26	4.52	5.50	4.71	5.67	4.70	5.83	4.70	6.17	4.67	6.45	4.60
20.0	4.60	4.10	4.76	4.19	5.08	4.38	5.20	4.47	5.44	4.65	5.60	4.65	5.76	4.65	6.10	4.62	6.38	4.54
21.0	4.57	4.08	4.73	4.17	5.05	4.35	5.17	4.44	5.41	4.63	5.57	4.62	5.73	4.62	6.07	4.59	6.35	4.52
23.0	4.52	4.02	4.68	4.12	4.99	4.30	5.11	4.39	5.34	4.57	5.50	4.57	5.66	4.57	5.99	4.54	6.27	4.46
25.0	4.46	3.97	4.61	4.06	4.92	4.24	5.04	4.33	5.27	4.51	5.43	4.50	5.58	4.51	5.91	4.48	6.18	4.40
27.0	4.39	3.91	4.55	4.01	4.85	4.18	4.97	4.27	5.20	4.44	5.35	4.44	5.50	4.44	5.83	4.41	6.10	4.34
29.0	4.33	3.86	4.48	3.95	4.78	4.12	4.89	4.20	5.12	4.38	5.27	4.37	5.42	4.38	5.74	4.35	6.00	4.27
31.0	4.26	3.79	4.41	3.88	4.70	4.05	4.81	4.14	5.04	4.31	5.18	4.30	5.33	4.31	5.65	4.28	5.91	4.20
33.0	4.19	3.73	4.33	3.82	4.62	3.98	4.73	4.06	4.95	4.23	5.10	4.23	5.24	4.23	5.55	4.20	5.81	4.13
35.0	4.11	3.66	4.25	3.74	4.54	3.91	4.64	3.99	4.86	4.15	5.00	4.15	5.14	4.15	5.45	4.12	5.70	4.06
37.0	4.03	3.59	4.17	3.67	4.45	3.83	4.56	3.91	4.77	4.07	4.91	4.07	5.05	4.07	5.34	4.05	5.59	3.98
39.0	3.95	3.52	4.08	3.60	4.36	3.75	4.46	3.83	4.67	3.99	4.80	3.99	4.94	3.99	5.23	3.96	5.47	3.90
40.0	3.90	3.48	4.04	3.56	4.31	3.71	4.41	3.79	4.62	3.95	4.75	3.94	4.89	3.95	5.18	3.92	5.41	3.85
42.0	3.82	3.40	3.95	3.48	4.21	3.63	4.31	3.71	4.51	3.86	4.65	3.86	4.78	3.86	5.06	3.83	5.29	3.77
43.0	3.77	3.36	3.90	3.44	4.16	3.59	4.26	3.66	4.46	3.81	4.59	3.81	4.72	3.81	5.00	3.79	5.23	3.72
45.0	3.68	3.28	3.81	3.35	4.06	3.50	4.16	3.57	4.35	3.72	4.48	3.72	4.61	3.72	4.88	3.69	5.10	3.63
46.0	3.63	3.23	3.76	3.31	4.01	3.45	4.10	3.53	4.29	3.67	4.42	3.67	4.55	3.67	4.81	3.65	5.04	3.58

Product models : RAV-GM801UTP-A / RAV-GM801ATP-A

Standard Condition

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

Specification of product at standard condition.

Total Cooling Capacity (TC)	7.10 kW
Sensible Heat Capacity (SHC)	5.55 kW

	Indoor Air temperature																	
Outdoor air temp.	14.0 °C WB		15.0 °C WB		16.0 °C WB		17.0 °C WB		18.0 °C WB		19.0 °C WB		20.0 °C WB		22.0 °C WB		24.0 °C WB	
	20.0 °C DB		21.0 °C DB		23.0 °C DB		24.0 °C DB		26.0 °C DB		27.0 °C DB		28.0 °C DB		30.0 °C DB		32.0 °C DB	
	°C DB	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	
10.0	6.86	5.78	7.09	5.91	7.57	6.15	7.75	6.28	8.11	6.54	8.35	6.52	8.58	6.52	9.09	6.44	9.51	6.31
12.0	6.80	5.73	7.04	5.86	7.51	6.10	7.69	6.23	8.04	6.49	8.28	6.47	8.52	6.46	9.02	6.39	9.43	6.26
14.0	6.74	5.68	6.98	5.81	7.44	6.05	7.62	6.18	7.97	6.43	8.21	6.42	8.44	6.41	8.94	6.34	9.35	6.20
16.0	6.68	5.63	6.91	5.75	7.37	5.99	7.55	6.12	7.90	6.37	8.13	6.35	8.36	6.35	8.85	6.28	9.26	6.15
18.0	6.61	5.57	6.84	5.69	7.30	5.93	7.47	6.06	7.81	6.30	8.05	6.29	8.28	6.28	8.76	6.21	9.17	6.08
20.0	6.53	5.51	6.76	5.63	7.22	5.86	7.39	5.99	7.73	6.23	7.96	6.22	8.18	6.21	8.67	6.14	9.06	6.01
21.0	6.50	5.47	6.72	5.60	7.17	5.83	7.34	5.95	7.68	6.20	7.91	6.18	8.13	6.17	8.61	6.11	9.01	5.98
23.0	6.42	5.41	6.64	5.53	7.09	5.76	7.25	5.88	7.59	6.12	7.81	6.11	8.03	6.10	8.51	6.03	8.90	5.91
25.0	6.33	5.33	6.55	5.45	6.99	5.68	7.16	5.80	7.49	6.04	7.71	6.02	7.93	6.02	8.40	5.95	8.78	5.83
27.0	6.24	5.26	6.46	5.38	6.89	5.60	7.06	5.72	7.38	5.95	7.60	5.94	7.82	5.93	8.28	5.87	8.66	5.74
29.0	6.15	5.18	6.36	5.30	6.79	5.52	6.95	5.63	7.27	5.86	7.48	5.85	7.70	5.84	8.15	5.78	8.53	5.66
31.0	6.05	5.09	6.26	5.21	6.68	5.43	6.84	5.54	7.15	5.77	7.36	5.75	7.57	5.75	8.02	5.68	8.39	5.57
33.0	5.94	5.01	6.15	5.12	6.56	5.33	6.72	5.45	7.03	5.67	7.24	5.66	7.44	5.65	7.88	5.59	8.24	5.47
35.0	5.83	4.91	6.03	5.02	6.44	5.23	6.59	5.34	6.90	5.56	7.10	5.55	7.30	5.54	7.73	5.48	8.09	5.37
37.0	5.72	4.82	5.92	4.93	6.32	5.14	6.47	5.24	6.77	5.46	6.97	5.45	7.17	5.44	7.59	5.38	7.94	5.27
39.0	5.60	4.72	5.80	4.83	6.19	5.03	6.34	5.14	6.63	5.35	6.82	5.33	7.02	5.33	7.43	5.27	7.77	5.16
40.0	5.54	4.67	5.74	4.78	6.12	4.97	6.27	5.08	6.56	5.29	6.75	5.28	6.94	5.27	7.35	5.21	7.69	5.10
42.0	5.42	4.56	5.61	4.67	5.98	4.86	6.13	4.97	6.41	5.17	6.60	5.16	6.79	5.15	7.19	5.09	7.52	4.99
43.0	5.35	4.51	5.54	4.61	5.91	4.81	6.05	4.91	6.33	5.11	6.52	5.10	6.70	5.09	7.10	5.03	7.43	4.93
45.0	5.22	4.40	5.40	4.50	5.77	4.69	5.90	4.79	6.18	4.98	6.36	4.97	6.54	4.96	6.93	4.91	7.24	4.81
46.0	5.15	4.34	5.33	4.44	5.69	4.63	5.83	4.72	6.10	4.92	6.28	4.91	6.46	4.90	6.84	4.85	7.15	4.74

Product models : RAV-GM1101UTP-A / RAV-GM1101ATP-A

Standard Condition

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

Specification of product at standard condition.

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

Outdoor air temp. °C DB	Indoor Air temperature																	
	14.0 °C WB		15.0 °C WB		16.0 °C WB		17.0 °C WB		18.0 °C WB		19.0 °C WB		20.0 °C WB		22.0 °C WB		24.0 °C WB	
	20.0 °C DB		21.0 °C DB		23.0 °C DB		24.0 °C DB		26.0 °C DB		27.0 °C DB		28.0 °C DB		30.0 °C DB		32.0 °C DB	
°C DB	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
10.0	9.66	8.70	9.99	8.90	10.66	9.29	10.92	9.49	11.42	9.88	11.76	9.87	12.09	9.88	12.80	9.82	13.39	9.67
12.0	9.58	8.63	9.91	8.83	10.58	9.21	10.83	9.41	11.33	9.80	11.66	9.80	11.99	9.80	12.70	9.75	13.29	9.59
14.0	9.49	8.55	9.82	8.75	10.49	9.13	10.73	9.33	11.23	9.71	11.56	9.71	11.89	9.72	12.59	9.66	13.17	9.51
16.0	9.40	8.47	9.73	8.67	10.39	9.05	10.63	9.24	11.12	9.62	11.45	9.62	11.78	9.62	12.47	9.57	13.04	9.42
18.0	9.31	8.38	9.63	8.58	10.28	8.95	10.52	9.14	11.01	9.52	11.33	9.52	11.66	9.53	12.34	9.47	12.91	9.32
20.0	9.20	8.29	9.52	8.48	10.16	8.85	10.40	9.04	10.88	9.42	11.21	9.41	11.53	9.42	12.21	9.36	12.77	9.22
21.0	9.15	8.24	9.47	8.43	10.10	8.80	10.34	8.99	10.82	9.36	11.14	9.36	11.46	9.36	12.13	9.31	12.69	9.16
23.0	9.04	8.14	9.35	8.33	9.98	8.69	10.22	8.88	10.69	9.24	11.00	9.24	11.32	9.25	11.98	9.19	12.53	9.05
25.0	8.92	8.03	9.23	8.22	9.85	8.58	10.08	8.76	10.54	9.12	10.86	9.12	11.17	9.13	11.82	9.07	12.37	8.93
27.0	8.79	7.92	9.10	8.10	9.71	8.45	9.94	8.64	10.39	8.99	10.70	8.99	11.01	9.00	11.66	8.94	12.19	8.80
29.0	8.66	7.80	8.96	7.98	9.56	8.33	9.79	8.50	10.24	8.86	10.54	8.85	10.84	8.86	11.48	8.81	12.01	8.67
31.0	8.52	7.67	8.81	7.85	9.41	8.19	9.63	8.37	10.07	8.71	10.37	8.71	10.67	8.72	11.29	8.67	11.81	8.53
33.0	8.37	7.54	8.66	7.72	9.24	8.05	9.46	8.22	9.90	8.56	10.19	8.56	10.48	8.57	11.10	8.52	11.61	8.38
35.0	8.21	7.40	8.50	7.57	9.07	7.90	9.29	8.07	9.71	8.40	10.00	8.40	10.29	8.41	10.89	8.36	11.39	8.22
37.0	8.06	7.26	8.34	7.43	8.90	7.75	9.11	7.92	9.53	8.24	9.81	8.24	10.09	8.25	10.69	8.20	11.18	8.07
39.0	7.89	7.11	8.17	7.28	8.72	7.59	8.92	7.75	9.33	8.07	9.61	8.07	9.88	8.08	10.47	8.03	10.95	7.90
40.0	7.81	7.03	8.08	7.20	8.62	7.51	8.83	7.67	9.23	7.99	9.51	7.98	9.78	7.99	10.35	7.94	10.83	7.82
42.0	7.63	6.87	7.90	7.04	8.43	7.34	8.63	7.50	9.03	7.81	9.29	7.80	9.56	7.81	10.12	7.76	10.59	7.64
43.0	7.54	6.79	7.80	6.95	8.33	7.25	8.53	7.41	8.92	7.71	9.18	7.71	9.44	7.72	10.00	7.67	10.46	7.55
45.0	7.36	6.63	7.61	6.78	8.12	7.08	8.32	7.23	8.70	7.52	8.96	7.52	9.21	7.53	9.75	7.48	10.20	7.37
46.0	7.26	6.54	7.51	6.69	8.02	6.98	8.21	7.13	8.59	7.43	8.84	7.42	9.09	7.43	9.63	7.39	10.07	7.27

Product models : RAV-GM1401UTP-A / RAV-GM1401ATP-A

Standard Condition

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

Specification of product at standard condition.

Total Cooling Capacity (TC)	12.50 kW
Sensible Heat Capacity (SHC)	10.00 kW

Outdoor air temp. °C DB	Indoor Air temperature																	
	14.0 °C WB		15.0 °C WB		16.0 °C WB		17.0 °C WB		18.0 °C WB		19.0 °C WB		20.0 °C WB		22.0 °C WB		24.0 °C WB	
	20.0 °C DB		21.0 °C DB		23.0 °C DB		24.0 °C DB		26.0 °C DB		27.0 °C DB		28.0 °C DB		30.0 °C DB		32.0 °C DB	
°C DB	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
10.0	12.07	10.39	12.49	10.63	13.33	11.08	13.64	11.31	14.27	11.78	14.69	11.76	15.11	11.75	16.01	11.64	16.74	11.42
12.0	11.97	10.31	12.39	10.54	13.22	10.99	13.54	11.22	14.16	11.68	14.58	11.66	14.99	11.65	15.88	11.55	16.61	11.32
14.0	11.87	10.22	12.28	10.45	13.11	10.89	13.42	11.12	14.04	11.58	14.45	11.56	14.86	11.55	15.74	11.45	16.46	11.23
16.0	11.76	10.12	12.16	10.35	12.98	10.79	13.29	11.02	13.90	11.47	14.31	11.45	14.72	11.44	15.59	11.34	16.30	11.12
18.0	11.63	10.01	12.04	10.24	12.85	10.68	13.15	10.90	13.76	11.35	14.16	11.33	14.57	11.32	15.43	11.22	16.14	11.00
20.0	11.50	9.90	11.90	10.13	12.71	10.56	13.01	10.78	13.61	11.22	14.01	11.21	14.41	11.20	15.26	11.09	15.96	10.88
21.0	11.44	9.84	11.83	10.07	12.63	10.50	12.93	10.72	13.53	11.16	13.92	11.14	14.32	11.13	15.17	11.03	15.86	10.82
23.0	11.30	9.72	11.69	9.95	12.47	10.37	12.77	10.59	13.36	11.02	13.75	11.00	14.14	10.99	14.98	10.89	15.67	10.68
25.0	11.15	9.59	11.53	9.81	12.31	10.23	12.60	10.45	13.18	10.87	13.57	10.86	13.96	10.85	14.78	10.75	15.46	10.54
27.0	10.99	9.46	11.37	9.67	12.13	10.08	12.42	10.30	12.99	10.72	13.38	10.70	13.76	10.69	14.57	10.60	15.24	10.39
29.0	10.82	9.31	11.20	9.53	11.95	9.93	12.23	10.14	12.80	10.56	13.17	10.54	13.55	10.53	14.35	10.44	15.01	10.23
31.0	10.65	9.16	11.02	9.37	11.76	9.77	12.04	9.98	12.59	10.39	12.96	10.37	13.33	10.36	14.12	10.27	14.77	10.07
33.0	10.46	9.01	10.83	9.21	11.56	9.60	11.83	9.81	12.37	10.21	12.74	10.19	13.10	10.19	13.88	10.09	14.51	9.90
35.0	10.27	8.84	10.62	9.04	11.34	9.42	11.61	9.62	12.14	10.02	12.50	10.00	12.86	9.99	13.62	9.90	14.24	9.71
37.0	10.07	8.67	10.42	8.87	11.12	9.24	11.39	9.44	11.91	9.83	12.26	9.81	12.61	9.81	13.36	9.71	13.97	9.53
39.0	9.87	8.49	10.21	8.69	10.90	9.05	11.15	9.25	11.67	9.63	12.01	9.61	12.35	9.60	13.08	9.51	13.68	9.33
40.0	9.76	8.40	10.10	8.59	10.78	8.96	11.03	9.15	11.54	9.52	11.88	9.51	12.22	9.50	12.94	9.41	13.54	9.23
42.0	9.54	8.21	9.87	8.40	10.53	8.75	10.78	8.94	11.28	9.31	11.61	9.29	11.95	9.29	12.65	9.20	13.23	9.02
43.0	9.43	8.11	9.75	8.30	10.41	8.65	10.66	8.83	11.15	9.20	11.48	9.18	11.80	9.18	12.50	9.09	13.07	8.92
45.0	9.19	7.91	9.51	8.10	10.15	8.44	10.39	8.62	10.87	8.97	11.19	8.96	11.51	8.95	12.19	8.87	12.75	8.70
46.0	9.08	7.81	9.39	7.99	10.02	8.33	10.26	8.51	10.73	8.85	11.05	8.84	11.36	8.83	12.04	8.75	12.59	8.58

Product models : RAV-GM1601UTP-A / RAV-GM1601AT(8)P-A

Standard Condition

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

Specification of product at standard condition.

Total Cooling Capacity (TC)	14.00 kW
Sensible Heat Capacity (SHC)	10.50 kW

Outdoor air temp. °C DB	Indoor Air temperature																	
	14.0 °C WB		15.0 °C WB		16.0 °C WB		17.0 °C WB		18.0 °C WB		19.0 °C WB		20.0 °C WB		22.0 °C WB		24.0 °C WB	
	20.0 °C DB		21.0 °C DB		23.0 °C DB		24.0 °C DB		26.0 °C DB		27.0 °C DB		28.0 °C DB		30.0 °C DB		32.0 °C DB	
	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
10.0	13.52	10.96	13.99	11.20	14.93	11.66	15.28	11.90	15.99	12.39	16.46	12.34	16.93	12.31	17.93	12.14	18.75	11.85
12.0	13.41	10.87	13.88	11.11	14.81	11.57	15.16	11.81	15.86	12.29	16.33	12.24	16.79	12.21	17.78	12.04	18.60	11.75
14.0	13.29	10.78	13.75	11.02	14.68	11.46	15.03	11.71	15.72	12.18	16.18	12.14	16.65	12.11	17.63	11.94	18.44	11.65
16.0	13.17	10.67	13.62	10.91	14.54	11.36	14.88	11.59	15.57	12.07	16.03	12.02	16.49	11.99	17.46	11.82	18.26	11.54
18.0	13.03	10.56	13.48	10.80	14.39	11.24	14.73	11.48	15.41	11.94	15.86	11.90	16.32	11.87	17.28	11.70	18.07	11.42
20.0	12.89	10.45	13.33	10.68	14.23	11.11	14.57	11.35	15.24	11.81	15.69	11.77	16.14	11.74	17.09	11.57	17.87	11.29
21.0	12.81	10.39	13.25	10.62	14.15	11.05	14.48	11.28	15.15	11.74	15.59	11.70	16.04	11.67	16.99	11.50	17.77	11.23
23.0	12.65	10.26	13.09	10.48	13.97	10.91	14.30	11.14	14.96	11.59	15.40	11.55	15.84	11.52	16.78	11.36	17.55	11.09
25.0	12.48	10.12	12.92	10.34	13.79	10.77	14.11	10.99	14.76	11.44	15.20	11.40	15.63	11.37	16.55	11.21	17.31	10.94
27.0	12.31	9.98	12.73	10.20	13.59	10.61	13.91	10.84	14.55	11.28	14.98	11.24	15.41	11.21	16.32	11.05	17.07	10.79
29.0	12.12	9.83	12.54	10.04	13.38	10.45	13.70	10.67	14.33	11.11	14.75	11.07	15.18	11.04	16.07	10.88	16.81	10.62
31.0	11.92	9.67	12.34	9.88	13.17	10.28	13.48	10.50	14.10	10.93	14.52	10.89	14.93	10.86	15.81	10.71	16.54	10.45
33.0	11.72	9.50	12.13	9.71	12.94	10.11	13.25	10.32	13.86	10.74	14.27	10.70	14.68	10.67	15.54	10.52	16.25	10.27
35.0	11.50	9.32	11.90	9.53	12.70	9.92	13.00	10.13	13.60	10.54	14.00	10.50	14.40	10.47	15.25	10.33	15.95	10.08
37.0	11.28	9.15	11.67	9.35	12.46	9.73	12.75	9.94	13.34	10.34	13.74	10.30	14.13	10.28	14.96	10.13	15.65	9.89
39.0	11.05	8.96	11.43	9.16	12.20	9.53	12.49	9.73	13.07	10.13	13.45	10.09	13.84	10.06	14.65	9.92	15.33	9.68
40.0	10.93	8.86	11.31	9.06	12.07	9.43	12.36	9.63	12.93	10.02	13.31	9.98	13.69	9.95	14.50	9.82	15.16	9.58
42.0	10.68	8.66	11.06	8.85	11.80	9.22	12.08	9.41	12.64	9.79	13.01	9.76	13.38	9.73	14.17	9.60	14.82	9.36
43.0	10.56	8.56	10.92	8.75	11.66	9.11	11.94	9.30	12.49	9.68	12.85	9.64	13.22	9.62	14.00	9.48	14.64	9.25
45.0	10.30	8.35	10.66	8.53	11.37	8.88	11.64	9.07	12.18	9.44	12.54	9.40	12.90	9.38	13.66	9.25	14.28	9.03
46.0	10.16	8.24	10.52	8.42	11.22	8.77	11.49	8.95	12.02	9.32	12.37	9.28	12.73	9.26	13.48	9.13	14.10	8.91

2-1-5. Part Load Performance

Combination

Indoor: RAV-GM561UTP-A
Outdoor: RAV-GM561ATP-A

Operation range	Cooling		Heating	
	Q	P	Q	P
MINIMUM	W 1500	260	1500	260
RATING	W 5000	1430	5300	1230
MAXIMUM	W 5600	1860	6300	2080

Cooling																				
Outdoor Temperature DB (°C)	Parts Load (%)																			
	100		90		80		70		60		50		40		30		20		10	
	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P
20	5963	1123	5366	991	4770	860	4174	729	3578	598	2981	467	2385	335	1789	204	1789	204	1789	204
21	5898	1143	5309	1009	4719	876	4129	742	3539	609	2949	475	2359	341	1770	208	1770	208	1770	208
22	5834	1164	5251	1028	4667	892	4084	756	3501	620	2917	484	2334	348	1750	212	1750	212	1750	212
23	5770	1184	5193	1046	4616	907	4039	769	3462	630	2885	492	2308	354	1731	215	1731	215	1731	215
24	5706	1205	5135	1064	4565	923	3994	782	3424	641	2853	501	2282	360	1712	219	1712	219	1712	219
25	5642	1225	5078	1082	4513	939	3949	795	3385	652	2821	509	2257	366	1693	223	1693	223	1693	223
26	5578	1246	5020	1100	4462	954	3904	809	3347	663	2789	518	2231	372	1673	226	1673	226	1673	226
27	5513	1266	4962	1118	4411	970	3859	822	3308	674	2757	526	2205	378	1654	230	1654	230	1654	230
28	5449	1287	4904	1136	4359	986	3814	835	3270	685	2725	535	2180	384	1635	234	1635	234	1635	234
29	5385	1307	4847	1154	4308	1001	3770	849	3231	696	2693	543	2154	390	1616	238	1616	238	1616	238
30	5321	1328	4789	1172	4257	1017	3725	862	3193	707	2660	552	2128	397	1596	241	1596	241	1596	241
31	5257	1348	4731	1190	4205	1033	3680	875	3154	718	2628	560	2103	403	1577	245	1577	245	1577	245
32	5193	1369	4673	1209	4154	1049	3635	889	3116	729	2596	569	2077	409	1558	249	1558	249	1558	249
33	5128	1389	4616	1227	4103	1064	3590	902	3077	740	2564	577	2051	415	1539	253	1539	253	1539	253
34	5064	1410	4558	1245	4051	1080	3545	915	3039	751	2532	586	2026	421	1519	256	1519	256	1519	256
35	5000	1430	4500	1263	4000	1096	3500	929	3000	761	2500	594	2000	427	1500	260	1500	260	1500	260
36	4936	1450	4442	1281	3949	1111	3455	942	2962	772	2468	603	1974	433	1481	264	1481	264	1481	264
37	4872	1471	4385	1299	3897	1127	3410	955	2923	783	2436	611	1949	439	1462	267	1462	267	1462	267
38	4808	1491	4327	1317	3846	1143	3365	969	2885	794	2404	620	1923	446	1442	271	1442	271	1442	271
39	4743	1512	4269	1335	3795	1159	3320	982	2846	805	2372	628	1897	452	1423	275	1423	275	1423	275
40	4584	1464	4125	1293	3667	1122	3208	951	2750	780	2292	608	1833	437	1375	266	1375	266	1375	266
41	4491	1464	4042	1293	3593	1122	3144	951	2694	780	2245	608	1796	437	1347	266	1347	266	1347	266
42	4398	1464	3958	1293	3518	1122	3079	951	2639	780	2199	608	1759	437	1319	266	1319	266	1319	266
43	4305	1464	3875	1293	3444	1122	3014	951	2583	780	2153	608	1722	437	1292	266	1292	266	1292	266
44	4212	1464	3791	1293	3370	1122	2949	951	2527	780	2106	608	1685	437	1264	266	1264	266	1264	266
45	3662	1136	3296	1003	2930	871	2564	738	2197	605	1831	472	1465	339	1099	207	1099	207	1099	207
46	3570	1136	3213	1003	2856	871	2499	738	2142	605	1785	472	1428	339	1071	207	1071	207	1071	207

Heating																				
Outdoor Temperature DB (°C)	Parts Load (%)																			
	100		90		80		70		60		50		40		30		20		10	
	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P
-15	2736	454	2462	404	2189	354	1915	304	1642	254	1368	204	1094	154	821	104	774	96	774	96
-14	2794	488	2515	434	2235	380	1956	327	1676	273	1397	219	1118	166	838	112	791	103	791	103
-13	2852	522	2567	464	2282	407	1996	349	1711	292	1426	235	1141	177	856	120	807	110	807	110
-12	2910	556	2619	494	2328	433	2037	372	1746	311	1455	250	1164	189	873	128	824	117	824	117
-11	2968	590	2671	525	2375	460	2078	395	1781	330	1484	265	1187	200	890	136	840	125	840	125
-10	3026	624	2724	555	2421	486	2118	418	1816	349	1513	281	1211	212	908	143	856	132	856	132
-9	3084	658	2776	585	2467	513	2159	441	1851	368	1542	296	1234	224	925	151	873	139	873	139
-8	3142	692	2828	616	2514	539	2200	463	1885	387	1571	311	1257	235	943	159	889	146	889	146
-7	3200	726	2880	646	2560	566	2240	486	1920	406	1600	327	1280	247	960	167	906	153	906	153
-6	3272	766	2944	682	2617	597	2290	513	1963	429	1636	345	1309	260	981	176	926	162	926	162
-5	3343	806	3008	718	2674	629	2340	540	2006	452	1671	363	1337	274	1003	185	946	170	946	170
-4	3414	847	3072	753	2731	660	2390	567	2048	474	1707	381	1366	288	1024	195	966	179	966	179
-3	3485	887	3136	789	2788	692	2439	594	2091	497	1742	399	1394	302	1045	204	986	187	986	187
-2	3556	927	3200	825	2845	723	2489	621	2134	519	1778	417	1422	315	1067	213	1006	196	1006	196
-1	3627	968	3264	861	2902	755	2539	648	2176	542	1814	435	1451	329	1088	223	1027	205	1027	205
0	3698	1008	3329	897	2959	786	2589	675	2219	564	1849	454	1479	343	1110	232	1047	213	1047	213
1	3769	1048	3393	933	3016	818	2639	702	2262	587	1885	472	1508	356	1131	241	1067	222	1067	222
2	3841	1088	3457	969	3072	849	2688	729	2304	610	1920	490	1536	370	1152	250	1087	230	1087	230
3	3903	1103	3513	982	3123	860	2732	739	2342	618	1952	496	1561	375	1171	254	1105	233	1105	233
4	3966	1118	3570	995	3173	872	2776	749	2380	626	1983	503	1587	380	1190	257	1123	236	1123	236
5	4029	1132	3626	1008	3223	883	2821	759	2418	634	2015	510	1612	385	1209	261	1140	239	1140	239
6	5163	1211	4647	1078	4131	945	3614	811	3098	678	2582	545	2065	412	1549	279	1461	256	1461	256
7	5300	1230	4770	1095	4240	959	3710	824	3180	689	2650	554	2120	418	1590	283	1500	260	1500	260
8	5437	1249	4893	1112	4349	974	3806	837	3262	700	2718	562	2175	425	1631	287	1539	264	1539	264
9	5574	1268	5016	1129	4459	989	3901	850	3344	710	2787	571	2229	431	1672	292	1577	268	1577	268
10	5710	1287	5139	1146	4568	1004	3997	862	3426	721	2855	579	2284	438	1713	296	1616	272	1616	272
11	5847	1306	5262	1163	4678	1019	4093	875	3508	732	2924	588	2339	444	1754	300	1655	276	1655	276
12	5984	1325	5385	1179	4787	1034	4189	888	3590	742	2992	596	2394	451	1795	305	1694	280	1694	280
13	6121	1344	5509	1196	4897	1049	4284	901	3672	753	3060	605	2448	457	1836	309	1732	284	1732	284
14	6257	1363	5632	1213	5006	1063	4380	913	3754	764	3129	614	2503	464	1877	314	1771	288	1771	288
15	6394	1382	5755	1230	5115	1078	4476	926	3837	774	3197	622	2558	470	1918	318	1810	292	1810	292
16	6531	1401	5878	1247	5225	1093	4572	939	3919	785	3265	631	2612	477	1959	322	1848	296	1848	296
17	6668	1420	6001	1264	5334	1108	4667	952	4001	796	3334	639	2667	483	2000	327	1887	300	1887	300
18	6805	1439	6124	1281	5444	1123	4763	964	4083	806	3402	648	2722	490	2041	331	1926	304	1926	304
19	6941	1459	6247	1298	5553	1138	4859	977	4165	817	3471	656	2777	496	2082	336	1965	308	1965	308
20	7078	1478	6370	1315	5662	1153	4955	990	4247	827	3539	665	2831	502	2123	340	2003	312	2003	312
21	7215	1497	6493	1332	5772	1167	5050	1003	4329	838	3607	674	2886	509	2164	344	2042	316	2042	316
22	7352	1516	6616	1349	5881	1182	5146	1016	4411	849	3676	682	2941	515	2205	349	2081	320	2081	320
23	7488	1535	6740	1366	5991	1197	5242	1028	4493	859	3744	691	2995	522	2247	353	2119	324	2119	324
24	7625	1554	6863	1383	6100	1212	5338	1041	4575	870	3813	699	3050	528	2288	357	2158	328	2158	328

Combination

Indoor: RAV-GM801UTP-A
Outdoor: RAV-GM801ATP-A

Operation range		Cooling		Heating	
		Q	P	Q	P
MINIMUM	W	1500	280	1500	260
RATING	W	7100	1970	8000	2100
MAXIMUM	W	8000	2600	9000	2900

Cooling

Outdoor Temperature DB (°C)	Parts Load (%)																			
	100		90		80		70		60		50		40		30		20		10	
	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P
20	8467	1546	7620	1378	6773	1210	5927	1042	5080	874	4233	705	3387	537	2540	369	1789	220	1789	220
21	8376	1575	7538	1403	6701	1232	5863	1061	5025	890	4188	718	3350	547	2513	376	1770	224	1770	224
22	8285	1603	7456	1429	6628	1254	5799	1080	4971	906	4142	731	3314	557	2485	383	1750	228	1750	228
23	8193	1631	7374	1454	6555	1276	5735	1099	4916	922	4097	744	3277	567	2458	389	1731	232	1731	232
24	8102	1659	7292	1479	6482	1298	5672	1118	4861	937	4051	757	3241	576	2431	396	1712	236	1712	236
25	8011	1688	7210	1504	6409	1321	5608	1137	4807	953	4006	770	3204	586	2403	403	1693	240	1693	240
26	7920	1716	7128	1529	6336	1343	5544	1156	4752	969	3960	783	3168	596	2376	409	1673	244	1673	244
27	7829	1744	7046	1554	6263	1365	5480	1175	4697	985	3914	796	3132	606	2349	416	1654	248	1654	248
28	7738	1772	6964	1580	6190	1387	5416	1194	4643	1001	3869	808	3095	616	2321	423	1635	252	1635	252
29	7647	1801	6882	1605	6117	1409	5353	1213	4588	1017	3823	821	3059	626	2294	430	1616	256	1616	256
30	7556	1829	6800	1630	6044	1431	5289	1232	4533	1033	3778	834	3022	635	2267	436	1596	260	1596	260
31	7464	1857	6718	1655	5972	1453	5225	1251	4479	1049	3732	847	2986	645	2239	443	1577	264	1577	264
32	7373	1885	6636	1680	5899	1475	5161	1270	4424	1065	3687	860	2949	655	2212	450	1558	268	1558	268
33	7282	1914	6554	1705	5826	1497	5098	1289	4369	1081	3641	873	2913	665	2185	457	1539	272	1539	272
34	7191	1942	6472	1731	5753	1519	5034	1308	4315	1097	3596	886	2876	675	2157	463	1519	276	1519	276
35	7100	1970	6390	1756	5680	1541	4970	1327	4260	1113	3550	899	2840	684	2130	470	1500	280	1500	280
36	7009	1998	6308	1781	5607	1564	4906	1346	4205	1129	3504	912	2804	694	2103	477	1481	284	1481	284
37	6918	2026	6226	1806	5534	1586	4842	1365	4151	1145	3459	924	2767	704	2075	484	1462	288	1462	288
38	6827	2055	6144	1831	5461	1608	4779	1384	4096	1161	3413	937	2731	714	2048	490	1442	292	1442	292
39	6736	2083	6062	1856	5388	1630	4715	1403	4041	1177	3368	950	2694	724	2021	497	1423	296	1423	296
40	6644	2111	5980	1882	5316	1652	4651	1422	3987	1193	3322	963	2658	733	1993	504	1404	300	1404	300
41	6553	2139	5898	1907	5243	1674	4587	1441	3932	1209	3277	976	2621	743	1966	511	1385	304	1385	304
42	6462	2168	5816	1932	5170	1696	4524	1460	3877	1225	3231	989	2585	753	1939	517	1365	308	1365	308
43	6371	2196	5734	1957	5097	1718	4460	1479	3823	1241	3186	1002	2548	763	1911	524	1346	312	1346	312
44	6280	2224	5652	1982	5024	1740	4396	1498	3768	1256	3140	1015	2512	773	1884	531	1327	316	1327	316
45	6189	2252	5570	2007	4951	1762	4332	1517	3713	1272	3094	1027	2476	782	1857	538	1308	320	1308	320
46	6098	2281	5488	2033	4878	1785	4268	1536	3659	1288	3049	1040	2439	792	1829	544	1288	324	1288	324

Heating

Outdoor Temperature DB (°C)	Parts Load (%)																			
	100		90		80		70		60		50		40		30		20		10	
	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P
-15	4638	455	4174	406	3710	357	3246	308	2783	259	2319	210	1855	161	1391	112	928	63	870	56
-14	4707	490	4237	437	3766	384	3295	331	2824	278	2354	226	1883	173	1412	120	941	67	883	61
-13	4777	524	4299	467	3821	411	3344	354	2866	298	2388	241	1911	185	1433	128	955	72	896	65
-12	4846	558	4362	498	3877	438	3392	377	2908	317	2423	257	1939	197	1454	137	969	77	909	69
-11	4916	592	4424	528	3933	464	3441	401	2950	337	2458	273	1966	209	1475	145	983	81	922	73
-10	4986	626	4487	559	3988	491	3490	424	2991	356	2493	289	1994	221	1496	154	997	86	935	78
-9	5055	660	4550	589	4044	518	3539	447	3033	376	2528	304	2022	233	1517	162	1011	91	948	82
-8	5125	695	4612	620	4100	545	3587	470	3075	395	2562	320	2050	245	1537	170	1025	95	961	86
-7	5194	729	4675	650	4155	572	3636	493	3117	414	2597	336	2078	257	1558	179	1039	100	974	90
-6	5261	854	4735	762	4209	670	3683	578	3157	486	2631	394	2104	302	1578	209	1052	117	986	106
-5	5328	980	4795	874	4263	768	3730	663	3197	557	2664	452	2131	346	1598	240	1066	135	999	121
-4	5395	1105	4856	986	4316	867	3777	748	3237	629	2698	509	2158	390	1619	271	1079	152	1012	137
-3	5462	1231	4916	1098	4370	965	3824	833	3277	700	2731	567	2185	434	1639	302	1092	169	1024	152
-2	5529	1356	4976	1210	4423	1064	3870	918	3317	771	2765	625	2212	479	1659	332	1106	186	1037	168
-1	5596	1482	5037	1322	4477	1162	3917	1002	3358	843	2798	683	2238	523	1679	363	1119	203	1049	183
0	5663	1607	5097	1434	4530	1261	3964	1087	3398	914	2832	741	2265	567	1699	394	1133	221	1062	199
1	5730	1733	5157	1546	4584	1359	4011	1172	3438	985	2865	799	2292	612	1719	425	1146	238	1074	215
2	5797	1858	5217	1658	4638	1458	4058	1257	3478	1057	2899	856	2319	656	1739	456	1159	255	1087	230
3	5892	1883	5303	1680	4714	1477	4124	1274	3535	1071	2946	868	2357	665	1768	462	1178	259	1105	233
4	5987	1908	5388	1703	4790	1497	4191	1291	3592	1085	2994	879	2395	674	1796	468	1197	262	1123	236
5	6082	1933	5474	1725	4866	1516	4257	1308	3649	1099	3041	891	2433	682	1825	474	1216	265	1140	239
6	7794	2067	7014	1845	6235	1622	5455	1399	4676	1176	3897	953	3117	730	2338	507	1559	284	1461	256
7	8000	2100	7200	1874	6400	1647	5600	1421	4800	1194	4000	968	3200	741	2400	515	1600	288	1500	260
8	8206	2133	7386	1903	6565	1673	5745	1443	4924	1213	4103	983	3283	753	2462	523	1641	293	1539	264
9	8413	2165	7572	1932	6730	1698	5889	1465	5048	1231	4206	998	3365	764	2524	531	1683	297	1577	268
10	8619	2198	7757	1961	6895	1724	6034	1487	5172	1250	4310	1013	3448	776	2586	539	1724	302	1616	272
11	8826	2230	7943	1990	7061	1749	6178	1509	5295	1268	4413	1028	3530	787	2648	547	1765	306	1655	276
12	9032	2263	8129	2019	7226	1775	6323	1531	5419	1287	4516	1043	3613	799	2710	555	1806	311	1694	280
13	9239	2295	8315	2048	7391	1800	6467	1553	5543	1305	4619	1058	3695	810	2772	563	1848	315	1732	284
14	9445	2328	8501	2077	7556	1826	6612	1575	5667	1324	4723	1073	3778	822	2834	571	1889	320	1771	288
15	9652	2360	8686	2106	7721	1851	6756	1597	5791	1342	4826	1088	3861	833	2895	579	1930	324	1810	292
16	9858	2393	8872	2135	7886	1877	6901	1619	5915	1361	4929	1103	3943	845	2957	587	1972	328	1848	296
17	10065	2425	9058	2164	8052	1902	7045	1641	6039	1379	5032	1118	4026	856	3019	594	2013	333	1887	300
18	10271	2458	9244	2193	8217	1928	7190	1663	6163	1398	5135	1133	4108	867	3081	602	2054	337	1926	304
19	10477	2490	9430	2222	8382	1953	7334	1685	6286	1416	5239	1147	4191	879	3143	610	2095	342	1965	308
20	10684	2523	9615	2251	8547	1979	7479	1707	6410	1435	5342	1162	4274	890	3205	618	2137	346	2003	312
21	10890	2555	9801	2280	8712	2004	7623	1729	6534	1453	5445	1177	4356	902	3267	626	2178	351	2042	316
22	11097	2588	9987	2309	8877	2030	7768	1751	6658	1472	5548	1192	4439	913	3329	634	2219	355	2081	320
23	11303	2620	10173	2338	9043	2055	7912	1773	6782	1490	5652	1207	4521	925	3391	642	2261	360	2119	324
24	11510	2653	10359	2367	9208	2081	8057	1795	6906	1508	5755	1222	4604	936	3453	650	2302	364	2158	328

Combination

Indoor: RAV-GM1101UTP-A
Outdoor: RAV-GM1101ATP-A

Operation range	Cooling		Heating	
	Q	P	Q	P
MINIMUM	W 3000	600	3000	600
RATING	W 10000	2860	11200	2800
MAXIMUM	W 11200	4100	13000	4300

Cooling

Outdoor Temperature DB (°C)	Parts Load (%)																			
	100		90		80		70		60		50		40		30		20		10	
	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P
20	11925	2245	10733	1992	9540	1738	8348	1485	7155	1231	5963	978	4770	724	3578	471	3578	471	3578	471
21	11797	2286	10617	2028	9437	1770	8258	1512	7078	1254	5898	996	4719	738	3539	480	3539	480	3539	480
22	11668	2327	10502	2064	9335	1802	8168	1539	7001	1276	5834	1014	4667	751	3501	488	3501	488	3501	488
23	11540	2368	10386	2101	9232	1833	8078	1566	6924	1299	5770	1031	4616	764	3462	497	3462	497	3462	497
24	11412	2409	10271	2137	9129	1865	7988	1593	6847	1321	5706	1049	4565	777	3424	505	3424	505	3424	505
25	11283	2450	10155	2173	9027	1897	7898	1620	6770	1344	5642	1067	4513	791	3385	514	3385	514	3385	514
26	11155	2491	10040	2210	8924	1929	7809	1647	6693	1366	5578	1085	4462	804	3347	523	3347	523	3347	523
27	11027	2532	9924	2246	8821	1960	7719	1675	6616	1389	5513	1103	4411	817	3308	531	3308	531	3308	531
28	10898	2573	9809	2283	8719	1992	7629	1702	6539	1411	5449	1121	4359	830	3270	540	3270	540	3270	540
29	10770	2614	9693	2319	8616	2024	7539	1729	6462	1434	5385	1139	4308	843	3231	548	3231	548	3231	548
30	10642	2655	9578	2355	8513	2056	7449	1756	6385	1456	5321	1156	4257	857	3193	557	3193	557	3193	557
31	10513	2696	9462	2392	8411	2087	7359	1783	6308	1479	5257	1174	4205	870	3154	566	3154	566	3154	566
32	10385	2737	9347	2428	8308	2119	7270	1810	6231	1501	5193	1192	4154	883	3116	574	3116	574	3116	574
33	10257	2778	9231	2464	8205	2151	7180	1837	6154	1524	5128	1210	4103	896	3077	583	3077	583	3077	583
34	10128	2819	9116	2501	8103	2183	7090	1864	6077	1546	5064	1228	4051	910	3039	591	3039	591	3039	591
35	10000	2860	9000	2537	8000	2214	7000	1891	6000	1569	5000	1246	4000	923	3000	600	3000	600	3000	600
36	9872	2901	8885	2574	7897	2246	6910	1919	5923	1591	4936	1264	3949	936	2962	609	2962	609	2962	609
37	9743	2942	8769	2610	7795	2278	6820	1946	5846	1614	4872	1281	3897	949	2923	617	2923	617	2923	617
38	9615	2983	8654	2646	7692	2310	6731	1973	5769	1636	4808	1299	3846	963	2885	626	2885	626	2885	626
39	9487	3024	8538	2683	7589	2341	6641	2000	5692	1659	4743	1317	3795	976	2846	634	2846	634	2846	634
40	9358	3065	8423	2719	7487	2373	6551	2027	5615	1681	4679	1335	3743	989	2808	643	2808	643	2808	643
41	9230	3106	8307	2755	7384	2405	6461	2054	5538	1703	4615	1353	3692	1002	2769	652	2769	652	2769	652
42	9102	3147	8192	2792	7281	2436	6371	2081	5461	1726	4551	1371	3641	1015	2731	660	2731	660	2731	660
43	8973	3188	8076	2828	7179	2468	6281	2108	5384	1748	4487	1389	3589	1029	2692	669	2692	669	2692	669
44	8845	3229	7961	2864	7076	2500	6192	2135	5307	1771	4423	1406	3538	1042	2654	677	2654	677	2654	677
45	8717	3270	7845	2901	6973	2532	6102	2163	5230	1793	4358	1424	3487	1055	2615	686	2615	686	2615	686
46	8588	3311	7730	2937	6871	2563	6012	2190	5153	1816	4294	1442	3435	1068	2577	695	2577	695	2577	695

Heating

Outdoor Temperature DB (°C)	Parts Load (%)																			
	100		90		80		70		60		50		40		30		20		10	
	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P
-15	6493	607	5843	542	5194	477	4545	412	3896	347	3246	281	2597	216	1948	151	1739	130	1739	130
-14	6590	653	5931	583	5272	513	4613	443	3954	373	3295	303	2636	232	1977	162	1765	140	1765	140
-13	6688	698	6019	623	5350	549	4681	474	4013	399	3344	324	2675	249	2006	174	1791	150	1791	150
-12	6785	744	6106	664	5428	584	4749	504	4071	425	3392	345	2714	265	2035	185	1817	159	1817	159
-11	6882	790	6194	705	5506	620	4818	535	4129	451	3441	366	2753	281	2065	196	1843	169	1843	169
-10	6980	835	6282	745	5584	656	4886	566	4188	477	3490	387	2792	297	2094	208	1870	179	1870	179
-9	7077	881	6369	786	5662	692	4954	597	4246	503	3539	408	2831	314	2123	219	1896	189	1896	189
-8	7174	926	6457	827	5740	727	5022	628	4305	529	3587	429	2870	330	2152	230	1922	198	1922	198
-7	7272	972	6545	867	5818	763	5090	659	4363	555	3636	450	2909	346	2182	242	1948	208	1948	208
-6	7366	1139	6629	1017	5893	895	5156	772	4419	650	3683	528	2946	406	2210	283	1973	244	1973	244
-5	7459	1306	6714	1166	5968	1026	5222	886	4476	746	3730	605	2984	465	2238	325	1998	280	1998	280
-4	7553	1474	6798	1316	6043	1157	5287	999	4532	841	3777	683	3021	525	2266	367	2023	316	2023	316
-3	7647	1641	6882	1465	6118	1289	5353	1113	4588	937	3824	761	3059	584	2294	408	2048	352	2048	352
-2	7741	1808	6967	1614	6193	1420	5419	1226	4644	1032	3870	838	3096	644	2322	450	2073	388	2073	388
-1	7835	1976	7051	1764	6268	1552	5484	1340	4701	1128	3917	916	3134	704	2350	492	2099	423	2099	423
0	7928	2143	7136	1913	6343	1683	5550	1453	4757	1223	3964	993	3171	763	2379	533	2124	459	2124	459
1	8022	2311	7220	2063	6418	1815	5616	1567	4813	1319	4011	1071	3209	823	2407	575	2149	495	2149	495
2	8116	2478	7304	2212	6493	1946	5681	1680	4870	1414	4058	1148	3246	882	2435	616	2174	531	2174	531
3	8249	2511	7424	2242	6599	1972	5774	1703	4949	1433	4124	1164	3300	894	2475	625	2210	538	2210	538
4	8382	2545	7544	2271	6705	1998	5867	1725	5029	1452	4191	1179	3353	906	2515	633	2245	545	2245	545
5	8515	2578	7663	2301	6812	2025	5960	1748	5109	1471	4257	1195	3406	918	2554	641	2281	552	2281	552
6	10911	2757	9820	2461	8729	2165	7638	1869	6547	1573	5455	1277	4364	982	3273	686	2923	591	2923	591
7	11200	2800	10080	2500	8960	2199	7840	1899	6720	1598	5600	1298	4480	997	3360	697	3000	600	3000	600
8	11489	2843	10340	2538	9191	2233	8042	1928	6893	1623	5745	1318	4596	1013	3447	707	3077	609	3077	609
9	11778	2887	10600	2577	9422	2267	8245	1957	7067	1648	5889	1338	4711	1028	3533	718	3155	619	3155	619
10	12067	2930	10860	2616	9654	2301	8447	1987	7240	1672	6034	1358	4827	1043	3620	729	3232	628	3232	628
11	12356	2973	11121	2654	9885	2335	8649	2016	7414	1697	6178	1378	4942	1059	3707	740	3310	637	3310	637
12	12645	3017	11381	2693	10116	2369	8852	2046	7587	1722	6323	1398	5058	1074	3794	751	3387	646	3387	646
13	12934	3060	11641	2732	10347	2403	9054	2075	7761	1747	6467	1418	5174	1090	3880	761	3465	656	3465	656
14	13223	3103	11901	2770	10579	2437	9256	2104	7934	1771	6612	1438	5289	1105	3967	772	3542	665	3542	665
15	13512	3147	12161	2809	10810	2471	9459	2134	8107	1796	6756	1458	5405	1121	4054	783	3619	674	3619	674
16	13801	3190	12421	2848	11041	2505	9661	2163	8281	1821	6901	1478	5521	1136	4140	794	3697	684	3697	684
17	14090	3234	12681	2887	11272	2540	9863	2193	8454	1845	7045	1498	5636	1151	4227	804	3774	693	3774	693
18	14379	3277	12941	2925	11503	2574	10066	2222	8628	1870	7190	1519	5752	1167	4314	815	3852	702	3852	702
19	14668	3320	13202	2964	11735	2608	10268	2251	8801	1895	7334	1539	5867	1182	4401	826	3929	711	3929	711
20	14957	3364	13462	3003	11966	2642	10470	2281	8974	1920	7479	1559	5983	1198	4487	837	4006	721	4006	721
21	15246	3407	13722	3041	12197	2676	10673	2310	9148	1944	7623	1579	6099	1213	4574	848	4084	730	4084	730
22	15535	3450	13982	3080	12428	2710	10875	2339	9321	1969	7768	1599	6214	1229	4661	858	4161	739	4161	739
23	15825	3494	14242	3119	12660	2744	11077	2369	9495	1994	7912	1619	6330	1244	4747	869	4239	749	4239	749
24	16114	3537	14502	3157	12891	2778	11279	2398	9668	2019	8057	1639	6445	1260	4834	880	4316	758	4316	758

Combination

Indoor: RAV-GM1401UTP-A
Outdoor: RAV-GM1401ATP-A

Operation range		Cooling		Heating	
		Q	P	Q	P
MINIMUM	W	3000	900	3000	650
RATING	W	12500	3910	14000	3720
MAXIMUM	W	14000	5200	16000	4750

Cooling

Outdoor Temperature DB (°C)	Parts Load (%)																			
	100		90		80		70		60		50		40		30		20		10	
	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P
20	14906	3069	13416	2758	11925	2448	10434	2137	8944	1826	7453	1515	5963	1204	4472	893	3578	707	3578	707
21	14746	3125	13271	2809	11797	2492	10322	2176	8848	1859	7373	1543	5898	1226	4424	909	3539	719	3539	719
22	14585	3181	13127	2859	11668	2537	10210	2215	8751	1892	7293	1570	5834	1248	4376	926	3501	732	3501	732
23	14425	3237	12983	2910	11540	2582	10098	2254	8655	1926	7213	1598	5770	1270	4328	942	3462	745	3462	745
24	14265	3294	12838	2960	11412	2626	9985	2293	8559	1959	7132	1625	5706	1292	4279	958	3424	758	3424	758
25	14104	3350	12694	3010	11283	2671	9873	2332	8463	1992	7052	1653	5642	1314	4231	975	3385	771	3385	771
26	13944	3406	12549	3061	11155	2716	9761	2371	8366	2026	6972	1681	5578	1336	4183	991	3347	784	3347	784
27	13783	3462	12405	3111	11027	2760	9648	2410	8270	2059	6892	1708	5513	1358	4135	1007	3308	797	3308	797
28	13623	3518	12261	3161	10898	2805	9536	2449	8174	2092	6811	1736	5449	1380	4087	1023	3270	810	3270	810
29	13463	3574	12116	3212	10770	2850	9424	2488	8078	2126	6731	1764	5385	1402	4039	1040	3231	823	3231	823
30	13302	3630	11972	3262	10642	2894	9311	2527	7981	2159	6651	1791	5321	1424	3991	1056	3193	836	3193	836
31	13142	3686	11828	3312	10513	2939	9199	2566	7885	2192	6571	1819	5257	1446	3943	1072	3154	848	3154	848
32	12981	3742	11683	3363	10385	2984	9087	2605	7789	2226	6491	1847	5193	1468	3894	1089	3116	861	3116	861
33	12821	3798	11539	3413	10257	3029	8975	2644	7693	2259	6410	1874	5128	1490	3846	1105	3077	874	3077	874
34	12660	3854	11394	3464	10128	3073	8862	2683	7596	2292	6330	1902	5064	1512	3798	1121	3039	887	3039	887
35	12500	3910	11250	3514	10000	3118	8750	2722	7500	2326	6250	1930	5000	1534	3750	1138	3000	900	3000	900
36	12340	3966	11106	3564	9872	3163	8638	2761	7404	2359	6170	1957	4936	1556	3702	1154	2962	913	2962	913
37	12179	4022	10961	3615	9743	3207	8525	2800	7308	2392	6090	1985	4872	1578	3654	1170	2923	926	2923	926
38	12019	4078	10817	3665	9615	3252	8413	2839	7211	2426	6009	2013	4808	1600	3606	1187	2885	939	2885	939
39	11828	4108	10645	3692	9462	3276	8279	2860	7097	2443	5914	2027	4731	1611	3548	1195	2839	946	2839	946
40	11602	4108	10442	3692	9282	3276	8121	2860	6961	2443	5801	2027	4641	1611	3481	1195	2785	946	2785	946
41	11377	4108	10239	3692	9101	3276	7964	2860	6826	2443	5688	2027	4551	1611	3413	1195	2730	946	2730	946
42	11151	4108	10036	3692	8921	3276	7806	2860	6691	2443	5575	2027	4460	1611	3345	1195	2676	946	2676	946
43	10925	4108	9833	3692	8740	3276	7648	2860	6555	2443	5463	2027	4370	1611	3278	1195	2622	946	2622	946
44	10471	3911	9424	3515	8377	3119	7330	2723	6283	2326	5236	1930	4188	1534	3141	1138	2513	900	2513	900
45	10246	3911	9221	3515	8196	3119	7172	2723	6147	2326	5123	1930	4098	1534	3074	1138	2459	900	2459	900
46	10020	3911	9018	3515	8016	3119	7014	2723	6012	2326	5010	1930	4008	1534	3006	1138	2405	900	2405	900

Heating

Outdoor Temperature DB (°C)	Parts Load (%)																			
	100		90		80		70		60		50		40		30		20		10	
	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P
-15	8116	807	7304	722	6493	637	5681	553	4870	468	4058	383	3246	298	2435	214	1739	141	1739	141
-14	8238	867	7414	776	6590	685	5766	594	4943	503	4119	412	3295	321	2471	230	1765	152	1765	152
-13	8359	928	7523	830	6688	733	5852	636	5016	538	4180	441	3344	343	2508	246	1791	162	1791	162
-12	8481	988	7633	885	6785	781	5937	677	5089	573	4241	469	3392	366	2544	262	1817	173	1817	173
-11	8603	1049	7743	939	6882	829	6022	718	5162	608	4301	498	3441	388	2581	278	1843	183	1843	183
-10	8725	1109	7852	993	6980	876	6107	760	5235	643	4362	527	3490	410	2617	294	1870	194	1870	194
-9	8846	1170	7962	1047	7077	924	6192	801	5308	678	4423	556	3539	433	2654	310	1896	204	1896	204
-8	8968	1230	8071	1101	7174	972	6278	843	5381	714	4484	584	3587	455	2690	326	1922	215	1922	215
-7	9090	1291	8181	1155	7272	1020	6363	884	5454	749	4545	613	3636	477	2727	342	1948	226	1948	226
-6	9207	1513	8286	1354	7366	1195	6445	1036	5524	878	4604	719	3683	560	2762	401	1973	264	1973	264
-5	9324	1736	8392	1553	7459	1371	6527	1189	5595	1006	4662	824	3730	642	2797	460	1998	303	1998	303
-4	9442	1958	8497	1752	7553	1547	6609	1341	5665	1135	4721	930	3777	724	2832	518	2023	342	2023	342
-3	9559	2180	8603	1951	7647	1722	6691	1493	5735	1264	4779	1035	3824	806	2868	577	2048	381	2048	381
-2	9676	2403	8708	2150	7741	1898	6773	1646	5806	1393	4838	1141	3870	888	2903	636	2073	420	2073	420
-1	9793	2625	8814	2349	7835	2074	6855	1798	5876	1522	4897	1246	3917	971	2938	695	2099	459	2099	459
0	9910	2847	8919	2548	7928	2249	6937	1950	5946	1651	4955	1352	3964	1053	2973	754	2124	498	2124	498
1	10028	3070	9025	2747	8022	2425	7019	2102	6017	1780	5014	1458	4011	1135	3008	813	2149	536	2149	536
2	10145	3292	9130	2946	8116	2600	7101	2255	6087	1909	5072	1563	4058	1217	3043	872	2174	575	2174	575
3	10311	3336	9280	2986	8249	2635	7218	2285	6187	1935	5156	1584	4124	1234	3093	883	2210	583	2210	583
4	10477	3381	9430	3025	8382	2670	7334	2315	6286	1960	5239	1605	4191	1250	3143	895	2245	591	2245	591
5	10643	3425	9579	3065	8515	2705	7450	2346	6386	1986	5322	1626	4257	1266	3193	907	2281	598	2281	598
6	13639	3662	12275	3278	10911	2893	9547	2508	8183	2124	6819	1739	5455	1354	4092	970	2923	640	2923	640
7	14000	3720	12600	3329	11200	2939	9800	2548	8400	2157	7000	1766	5600	1376	4200	985	3000	650	3000	650
8	14361	3778	12925	3381	11489	2984	10053	2587	8617	2190	7181	1794	5745	1397	4308	1000	3077	660	3077	660
9	14723	3835	13250	3432	11778	3030	10306	2627	8834	2224	7361	1821	5889	1418	4417	1015	3155	670	3155	670
10	15084	3893	13575	3484	12067	3075	10559	2666	9050	2257	7542	1848	6034	1440	4525	1031	3232	680	3232	680
11	15445	3950	13901	3535	12356	3121	10812	2706	9267	2291	7723	1876	6178	1461	4634	1046	3310	690	3310	690
12	15806	4008	14226	3587	12645	3166	11065	2745	9484	2324	7903	1903	6323	1482	4742	1061	3387	700	3387	700
13	16168	4066	14551	3639	12934	3212	11317	2785	9701	2357	8084	1930	6467	1503	4850	1076	3465	710	3465	710
14	16529	4123	14876	3690	13223	3257	11570	2824	9917	2391	8265	1958	6612	1525	4959	1092	3542	720	3542	720
15	16890	4181	15201	3742	13512	3303	11823	2863	10134	2424	8445	1985	6756	1546	5067	1107	3619	731	3619	731
16	17252	4238	15526	3793	13801	3348	12076	2903	10351	2458	8626	2013	6901	1567	5175	1122	3697	741	3697	741
17	17613	4296	15852	3845	14090	3394	12329	2942	10568	2491	8806	2040	7045	1589	5284	1137	3774	751	3774	751
18	17974	4354	16177	3896	14379	3439	12582	2982	10785	2524	8987	2067	7190	1610	5392	1153	3852	761	3852	761
19	18335	4411	16502	3948	14668	3485	12835	3021	11001	2558	9168	2095	7334	1631	5501	1168	3929	771	3929	771
20	18697	4469	16827	3999	14957	3530	13088	3061	11218	2591	9348	2122	7479	1653	5609	1183	4006	781	4006	781
21	19058	4526	17152	4051	15246	3576	13341	3100	11435	2625	9529	2149	7623	1674	5717	1198	4084	791	4084	791
22	19419	4584	17477	4103	15535	3621	13594	3140	11652	2658	9710	2177	7768	1695	5826	1214	4161	801	4161	801
23	19781	4642	17803	4154	15825	3667	13846	3179	11868	2691	9890	2204	7912	1716	5934	1229	4239	811	4239	811
24	20142	4699	18128	4206	16114	3712	14099	3218	12085	2725	10071	2231	8057	1738	6043	1244	4316	821	4316	821

Combination

Indoor: RAV-GM1601UTP-A
Outdoor: RAV-GM1601ATP-A

Operation range		Cooling		Heating	
		Q	P	Q	P
MINIMUM	W	3000	650	3000	650
RATING	W	14000	4370	16000	4380
MAXIMUM	W	16000	5700	18000	5660

Cooling

Outdoor Temperature DB (°C)	Parts Load (%)																			
	100		90		80		70		60		50		40		30		20		10	
	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P
20	16695	3430	15026	3059	13356	2687	11687	2315	10017	1944	8348	1572	6678	1200	5009	829	3578	510	3578	510
21	16515	3493	14864	3115	13212	2736	11561	2358	9909	1979	8258	1601	6606	1222	4955	844	3539	520	3539	520
22	16336	3556	14702	3170	13069	2785	11435	2400	9801	2015	8168	1630	6534	1244	4901	859	3501	529	3501	529
23	16156	3618	14540	3226	12925	2834	11309	2442	9694	2050	8078	1658	6462	1266	4847	874	3462	538	3462	538
24	15976	3681	14379	3282	12781	2883	11183	2485	9586	2086	7988	1687	6391	1288	4793	889	3424	548	3424	548
25	15797	3744	14217	3338	12637	2932	11058	2527	9478	2121	7898	1716	6319	1310	4739	904	3385	557	3385	557
26	15617	3806	14055	3394	12494	2982	10932	2569	9370	2157	7809	1744	6247	1332	4685	920	3347	566	3347	566
27	15437	3869	13894	3450	12350	3031	10806	2611	9262	2192	7719	1773	6175	1354	4631	935	3308	575	3308	575
28	15258	3932	13732	3506	12206	3080	10680	2654	9155	2228	7629	1802	6103	1376	4577	950	3270	585	3270	585
29	15078	3994	13570	3561	12062	3129	10555	2696	9047	2263	7539	1830	6031	1398	4523	965	3231	594	3231	594
30	14898	4057	13409	3617	11919	3178	10429	2738	8939	2299	7449	1859	5959	1420	4470	980	3193	603	3193	603
31	14719	4119	13247	3673	11775	3227	10303	2781	8831	2334	7359	1888	5887	1442	4416	995	3154	613	3154	613
32	14539	4182	13085	3729	11631	3276	10177	2823	8723	2370	7270	1917	5816	1464	4362	1010	3116	622	3116	622
33	14359	4245	12923	3785	11487	3325	10052	2865	8616	2405	7180	1945	5744	1485	4308	1026	3077	631	3077	631
34	14180	4307	12762	3841	11344	3374	9926	2907	8508	2441	7090	1974	5672	1507	4254	1041	3039	641	3039	641
35	14000	4370	12600	3897	11200	3423	9800	2950	8400	2476	7000	2003	5600	1529	4200	1056	3000	650	3000	650
36	13820	4433	12438	3952	11056	3472	9674	2992	8292	2512	6910	2031	5528	1551	4146	1071	2962	659	2962	659
37	13641	4495	12277	4008	10913	3521	9548	3034	8184	2547	6820	2060	5456	1573	4092	1086	2923	669	2923	669
38	13461	4558	12115	4064	10769	3570	9423	3076	8077	2583	6731	2089	5384	1595	4038	1101	2885	678	2885	678
39	13281	4621	11953	4120	10625	3619	9297	3119	7969	2618	6641	2118	5313	1617	3984	1116	2846	687	2846	687
40	13102	4683	11792	4176	10481	3668	9171	3161	7861	2654	6551	2146	5241	1639	3931	1131	2808	697	2808	697
41	12922	4746	11630	4232	10338	3717	9045	3203	7753	2689	6461	2175	5169	1661	3877	1147	2769	706	2769	706
42	12742	4808	11468	4287	10194	3767	8920	3246	7645	2725	6371	2204	5097	1683	3823	1162	2731	715	2731	715
43	12563	4871	11306	4343	10050	3816	8794	3288	7538	2760	6281	2232	5025	1705	3769	1177	2692	725	2692	725
44	12383	4934	11145	4399	9906	3865	8668	3330	7430	2796	6192	2261	4953	1727	3715	1192	2654	734	2654	734
45	12203	4996	10983	4455	9763	3914	8542	3372	7322	2831	6102	2290	4881	1748	3661	1207	2615	743	2615	743
46	12024	5059	10821	4511	9619	3963	8417	3415	7214	2867	6012	2318	4809	1770	3607	1222	2577	752	2577	752

Heating

Outdoor Temperature DB (°C)	Parts Load (%)																			
	100		90		80		70		60		50		40		30		20		10	
	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P
-15	9275	950	8348	850	7420	751	6493	651	5565	552	4638	452	3710	353	2783	253	1855	153	1739	141
-14	9414	1021	8473	914	7532	807	6590	700	5649	593	4707	486	3766	379	2824	272	1883	165	1765	152
-13	9554	1093	8598	978	7643	864	6688	749	5732	634	4777	520	3821	405	2866	291	1911	176	1791	162
-12	9693	1164	8723	1042	7754	920	6785	798	5816	676	4846	554	3877	432	2908	310	1939	188	1817	173
-11	9832	1235	8849	1106	7866	976	6882	847	5899	717	4916	588	3933	458	2950	329	1966	199	1843	183
-10	9971	1306	8974	1169	7977	1032	6980	896	5983	759	4986	622	3988	485	2991	348	1994	211	1870	194
-9	10110	1378	9099	1233	8088	1089	7077	944	6066	800	5055	656	4044	511	3033	367	2022	222	1896	204
-8	10249	1449	9224	1297	8199	1145	7174	993	6150	841	5125	690	4100	538	3075	386	2050	234	1922	215
-7	10388	1520	9350	1361	8311	1201	7272	1042	6233	883	5194	723	4155	564	3117	405	2078	245	1948	226
-6	10522	1782	9470	1595	8418	1408	7366	1222	6313	1035	5261	848	4209	661	3157	475	2104	288	1973	264
-5	10656	2044	9591	1829	8525	1615	7459	1401	6394	1187	5328	973	4263	758	3197	544	2131	330	1998	303
-4	10790	2305	9711	2064	8632	1822	7553	1580	6474	1339	5395	1097	4316	856	3237	614	2158	372	2023	342
-3	10924	2567	9832	2298	8739	2029	7647	1760	6555	1491	5462	1222	4370	953	3277	684	2185	415	2048	381
-2	11058	2829	9952	2532	8847	2236	7741	1939	6635	1643	5529	1346	4423	1050	3317	753	2212	457	2073	420
-1	11192	3091	10073	2767	8954	2443	7835	2119	6715	1795	5596	1471	4477	1147	3358	823	2238	499	2099	459
0	11326	3353	10194	3001	9061	2650	7928	2298	6796	1947	5663	1596	4530	1244	3398	893	2265	541	2124	498
1	11460	3614	10314	3235	9168	2857	8022	2478	6876	2099	5730	1720	4584	1341	3438	963	2292	584	2149	536
2	11594	3876	10435	3470	9275	3064	8116	2657	6957	2251	5797	1845	4638	1439	3478	1032	2319	626	2174	575
3	11784	3928	10606	3517	9427	3105	8249	2693	7070	2281	5892	1870	4714	1458	3535	1046	2357	634	2210	583
4	11974	3980	10777	3563	9579	3146	8382	2729	7184	2312	5987	1894	4790	1477	3592	1060	2395	643	2245	591
5	12164	4032	10948	3610	9731	3187	8515	2765	7298	2342	6082	1919	4866	1497	3649	1074	2433	651	2281	598
6	15587	4312	14028	3860	12470	3408	10911	2956	9352	2504	7794	2052	6235	1600	4676	1148	3117	696	2923	640
7	16000	4380	14400	3921	12800	3462	11200	3003	9600	2544	8000	2085	6400	1626	4800	1166	3200	707	3000	650
8	16413	4448	14772	3982	13130	3515	11489	3049	9848	2583	8206	2117	6565	1651	4924	1185	3283	718	3077	660
9	16826	4516	15143	4042	13461	3569	11778	3096	10095	2622	8413	2149	6730	1676	5048	1203	3365	729	3155	670
10	17239	4583	15515	4103	13791	3623	12067	3142	10343	2662	8619	2181	6895	1701	5172	1221	3448	740	3232	680
11	17652	4651	15886	4164	14121	3676	12356	3189	10591	2701	8826	2214	7061	1726	5295	1239	3530	751	3310	690
12	18065	4719	16258	4224	14452	3730	12645	3235	10839	2741	9032	2246	7226	1751	5419	1257	3613	762	3387	700
13	18477	4787	16630	4285	14782	3783	12934	3282	11086	2780	9239	2278	7391	1777	5543	1275	3695	773	3465	

Combination

Indoor: RAV-GM1601UTP-A
Outdoor: RAV-GM1601AT8P-A

Operation range		Cooling		Heating	
		Q	P	Q	P
MINIMUM	W	3000	650	3000	650
RATING	W	14000	4370	16000	4380
MAXIMUM	W	16000	5700	18000	5660

Cooling

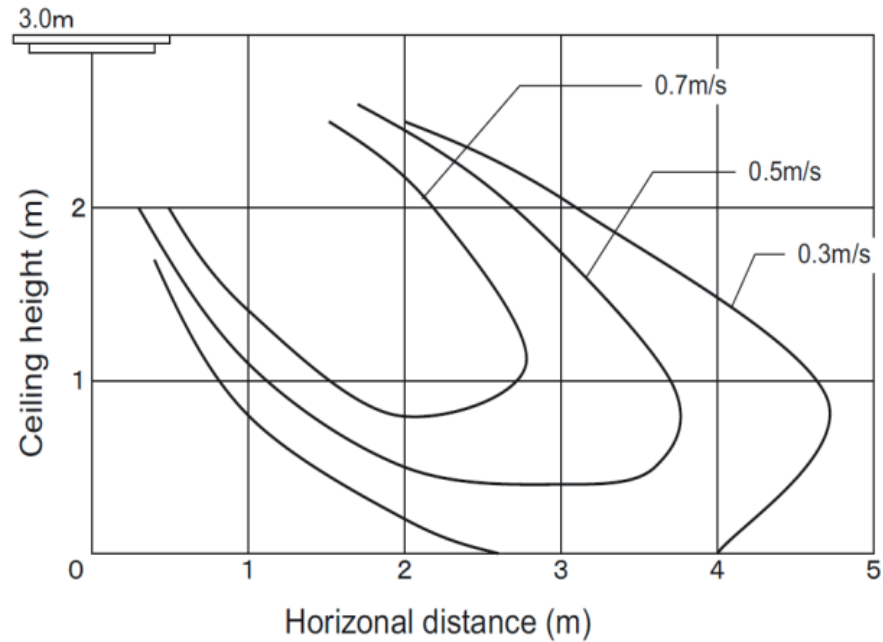
Outdoor Temperature DB (°C)	Parts Load (%)																			
	100		90		80		70		60		50		40		30		20		10	
	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P
20	16695	3430	15026	3059	13356	2687	11687	2315	10017	1944	8348	1572	6678	1200	5009	829	3578	510	3578	510
21	16515	3493	14864	3115	13212	2736	11561	2358	9909	1979	8258	1601	6606	1222	4955	844	3539	520	3539	520
22	16336	3556	14702	3170	13069	2785	11435	2400	9801	2015	8168	1630	6534	1244	4901	859	3501	529	3501	529
23	16156	3618	14540	3226	12925	2834	11309	2442	9694	2050	8078	1658	6462	1266	4847	874	3462	538	3462	538
24	15976	3681	14379	3282	12781	2883	11183	2485	9586	2086	7988	1687	6391	1288	4793	889	3424	548	3424	548
25	15797	3744	14217	3338	12637	2932	11058	2527	9478	2121	7898	1716	6319	1310	4739	904	3385	557	3385	557
26	15617	3806	14055	3394	12494	2982	10932	2569	9370	2157	7809	1744	6247	1332	4685	920	3347	566	3347	566
27	15437	3869	13894	3450	12350	3031	10806	2611	9262	2192	7719	1773	6175	1354	4631	935	3308	575	3308	575
28	15258	3932	13732	3506	12206	3080	10680	2654	9155	2228	7629	1802	6103	1376	4577	950	3270	585	3270	585
29	15078	3994	13570	3561	12062	3129	10555	2696	9047	2263	7539	1830	6031	1398	4523	965	3231	594	3231	594
30	14898	4057	13409	3617	11919	3178	10429	2738	8939	2299	7449	1859	5959	1420	4470	980	3193	603	3193	603
31	14719	4119	13247	3673	11775	3227	10303	2781	8831	2334	7359	1888	5887	1442	4416	995	3154	613	3154	613
32	14539	4182	13085	3729	11631	3276	10177	2823	8723	2370	7270	1917	5816	1464	4362	1010	3116	622	3116	622
33	14359	4245	12923	3785	11487	3325	10052	2865	8616	2405	7180	1945	5744	1485	4308	1026	3077	631	3077	631
34	14180	4307	12762	3841	11344	3374	9926	2907	8508	2441	7090	1974	5672	1507	4254	1041	3039	641	3039	641
35	14000	4370	12600	3897	11200	3423	9800	2950	8400	2476	7000	2003	5600	1529	4200	1056	3000	650	3000	650
36	13820	4433	12438	3952	11056	3472	9674	2992	8292	2512	6910	2031	5528	1551	4146	1071	2962	659	2962	659
37	13641	4495	12277	4008	10913	3521	9548	3034	8184	2547	6820	2060	5456	1573	4092	1086	2923	669	2923	669
38	13461	4558	12115	4064	10769	3570	9423	3076	8077	2583	6731	2089	5384	1595	4038	1101	2885	678	2885	678
39	13281	4621	11953	4120	10625	3619	9297	3119	7969	2618	6641	2118	5313	1617	3984	1116	2846	687	2846	687
40	13102	4683	11792	4176	10481	3668	9171	3161	7861	2654	6551	2146	5241	1639	3931	1131	2808	697	2808	697
41	12922	4746	11630	4232	10338	3717	9045	3203	7753	2689	6461	2175	5169	1661	3877	1147	2769	706	2769	706
42	12742	4808	11468	4287	10194	3767	8920	3246	7645	2725	6371	2204	5097	1683	3823	1162	2731	715	2731	715
43	12563	4871	11306	4343	10050	3816	8794	3288	7538	2760	6281	2232	5025	1705	3769	1177	2692	725	2692	725
44	12383	4934	11145	4399	9906	3865	8668	3330	7430	2796	6192	2261	4953	1727	3715	1192	2654	734	2654	734
45	12203	4996	10983	4455	9763	3914	8542	3372	7322	2831	6102	2290	4881	1748	3661	1207	2615	743	2615	743
46	12024	5059	10821	4511	9619	3963	8417	3415	7214	2867	6012	2318	4809	1770	3607	1222	2577	752	2577	752

Heating

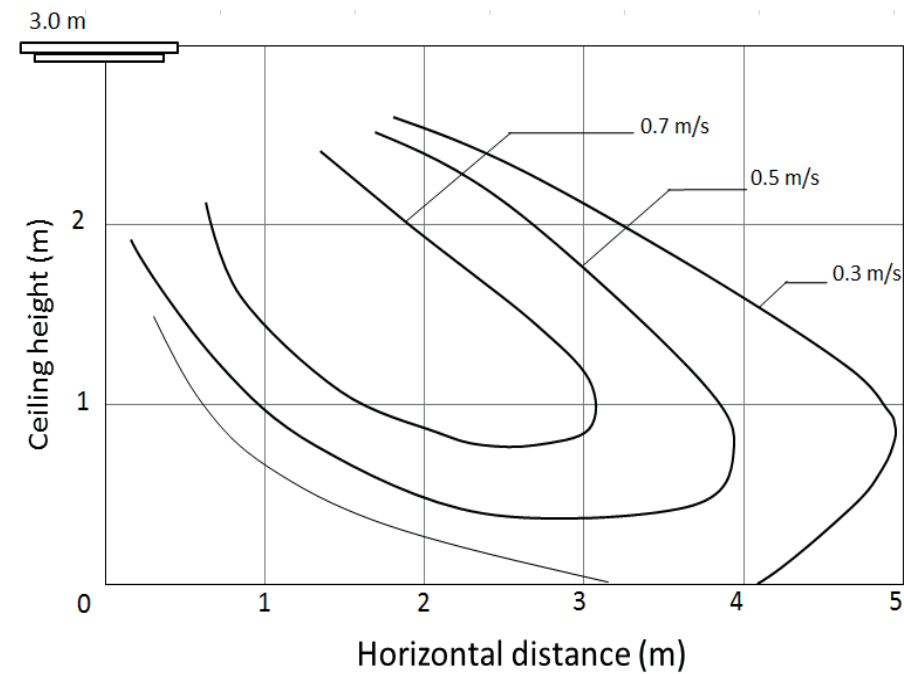
Outdoor Temperature DB (°C)	Parts Load (%)																			
	100		90		80		70		60		50		40		30		20		10	
	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P
-15	8696	969	7826	867	6957	766	6087	664	5217	563	4348	461	3478	360	2609	258	1739	157	1630	144
-14	8877	982	7989	879	7101	776	6214	673	5326	570	4438	467	3551	365	2663	262	1775	159	1664	146
-13	9058	995	8152	891	7246	787	6341	682	5435	578	4529	474	3623	369	2717	265	1812	161	1698	148
-12	9239	1009	8315	903	7391	797	6467	692	5543	586	4620	480	3696	374	2772	269	1848	163	1732	150
-11	9420	1022	8478	915	7536	808	6594	701	5652	593	4710	486	3768	379	2826	272	1884	165	1766	152
-10	9601	1035	8641	927	7681	818	6721	710	5761	601	4801	493	3841	384	2880	276	1920	167	1800	154
-9	9783	1048	8804	938	7826	829	6848	719	5870	609	4891	499	3913	389	2935	279	1957	169	1834	156
-8	9964	1062	8967	950	7971	839	6975	728	5978	616	4982	505	3986	394	2989	283	1993	171	1868	158
-7	10145	1075	9130	962	8116	849	7101	737	6087	624	5072	512	4058	399	3043	286	2029	174	1902	159
-6	10306	1386	9275	1241	8245	1095	7214	950	6184	805	5153	660	4122	514	3092	369	2061	224	1932	206
-5	10467	1697	9420	1519	8374	1341	7327	1164	6280	986	5233	808	4187	630	3140	452	2093	274	1963	252
-4	10628	2009	9565	1798	8502	1587	7440	1377	6377	1166	5314	956	4251	745	3188	535	2126	324	1993	298
-3	10789	2320	9710	2077	8631	1834	7552	1590	6473	1347	5395	1104	4316	861	3237	618	2158	375	2023	344
-2	10950	2631	9855	2355	8760	2080	7665	1804	6570	1528	5475	1252	4380	976	3285	701	2190	425	2053	390
-1	11111	2942	10000	2634	8889	2326	7778	2017	6667	1709	5556	1400	4444	1092	3333	784	2222	475	2083	437
0	11272	3254	10145	2913	9018	2572	7890	2231	6763	1890	5636	1549	4509	1207	3382	866	2254	525	2114	483
1	11433	3565	10290	3191	9147	2818	8003	2444	6860	2070	5717	1697	4573	1323	3430	949	2287	576	2144	529
2	11594	3876	10435	3470	9275	3064	8116	2657	6957	2251	5797	1845	4638	1439	3478	1032	2319	626	2174	575
3	11784	3928	10606	3517	9427	3105	8249	2693	7070	2281	5892	1870	4714	1458	3535	1046	2357	634	2210	583
4	11974	3980	10777	3563	9579	3146	8382	2729	7184	2312	5987	1894	4790	1477	3592	1060	2395	643	2245	591
5	12164	4032	10948	3610	9731	3187	8515	2765	7298	2342	6082	1919	4866	1497	3649	1074	2433	651	2281	598
6	15587	4312	14028	3860	12470	3408	10911	2956	9352	2504	7794	2052	6235	1600	4676	1148	3117	696	2923	640
7	16000	4380	14400	3921	12800	3462	11200	3003	9600	2544	8000	2085	6400	1626	4800	1166	3200	707	3000	650
8	16413	4448	14772	3982	13130	3515	11489	3049	9848	2583	8206	2117	6565	1651	4924	1185	3283	718	3077	660
9	16826	4516	15143	4042	13461	3569	11778	3096	10095	2622	8413	2149	6730	1676	5048	1203	3365	729	3155	670
10	17239	4583	15515	4103	13791	3623	12067	3142	10343	2662	8619	2181	6895	1701	5172	1221	3448	740	3232	680
11	17652	4651	15886	4164	14121	3676	12356	3189	10591	2701	8826	2214	7061	1726	5295	1239	3530	751	3310	690
12	18065	4719	16258	4224	14452	3730	12645	3235	10839	2741	9032	2246	7226	1751	5419	1257	3613	762	3387	700
13	18477	4787	16630	4285	14782	3783	12934	3282	11086	2780	9239	2278	7391	1777	5543	1275	3695	773	3465	710
14	18890	4855	17001																	

2-1-6. Air Throw Distance Chart

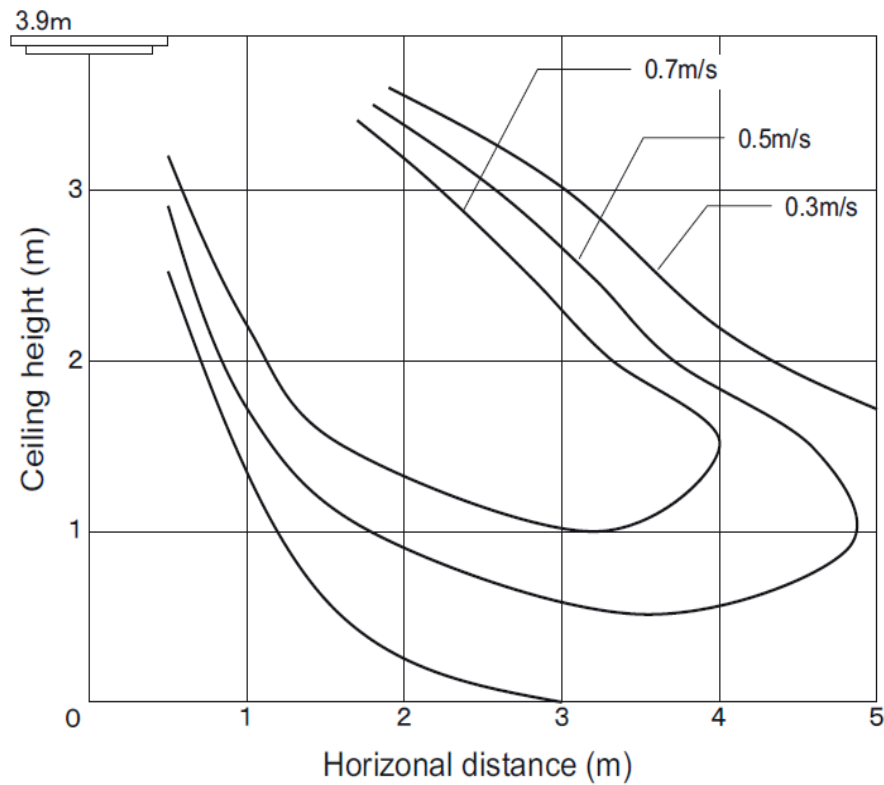
RAV-GM561UTP-A



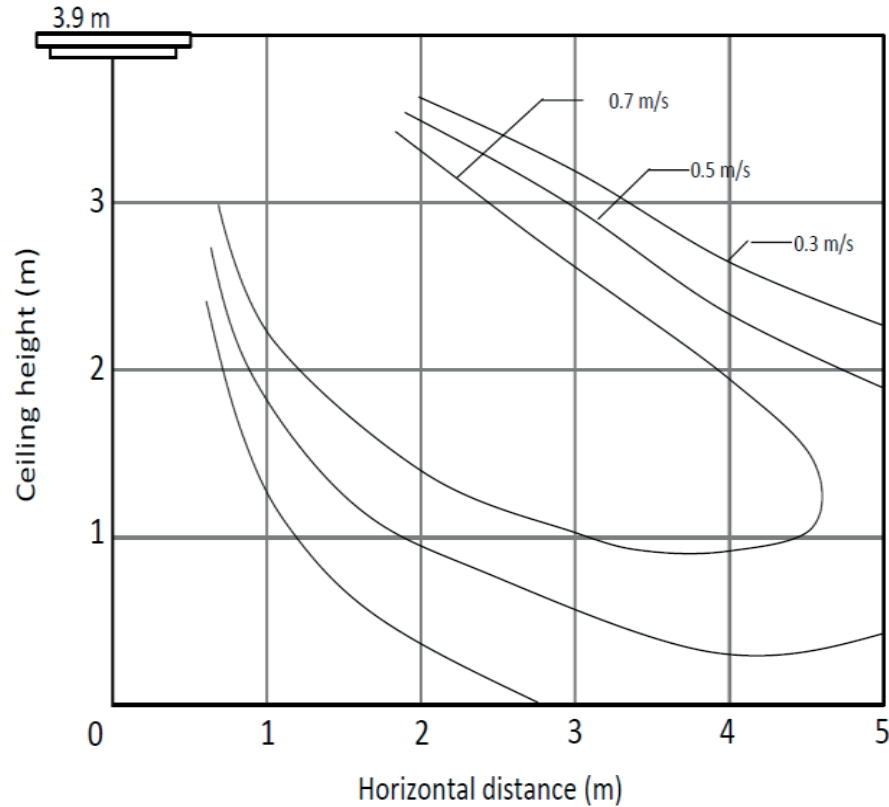
RAV-GM801UTP-A



RAV-GM1101UTP-A



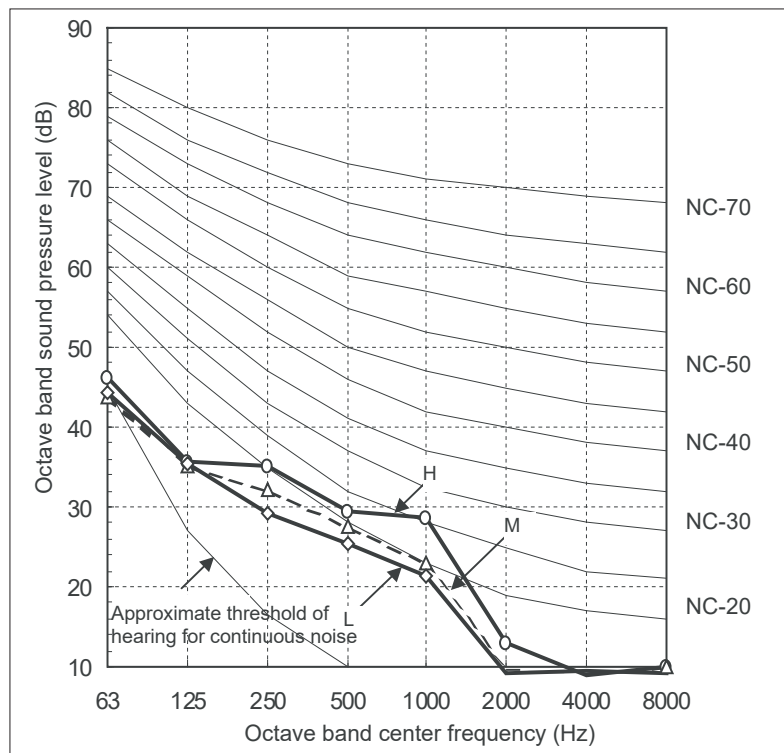
RAV-GM1401UTP-A / RAV-GM1601UTP-A



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

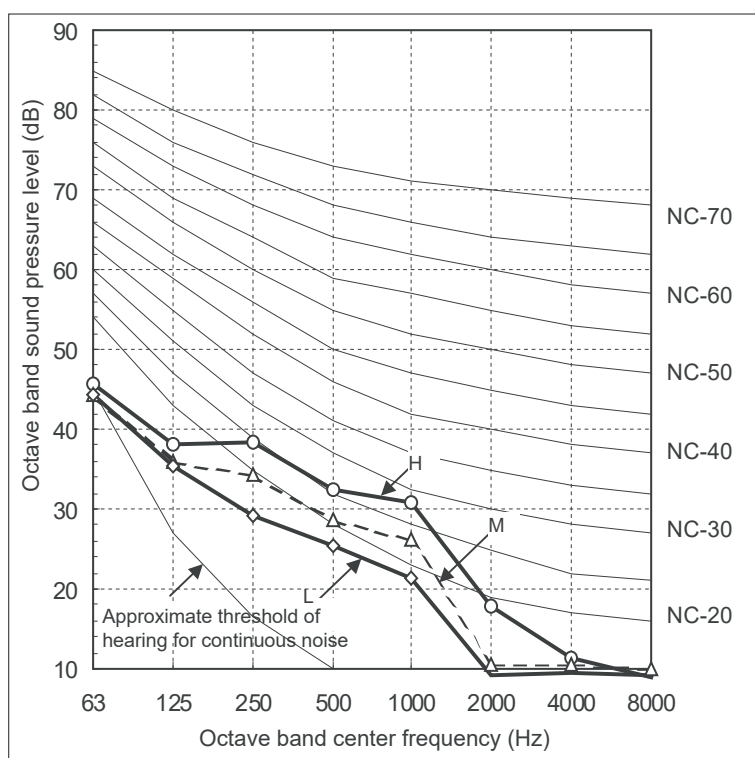
RAV-GM561UTP-A

Specification (dB)			
Fan tap	H	M	L
Sound pressure level (dB(A))	32	29	28



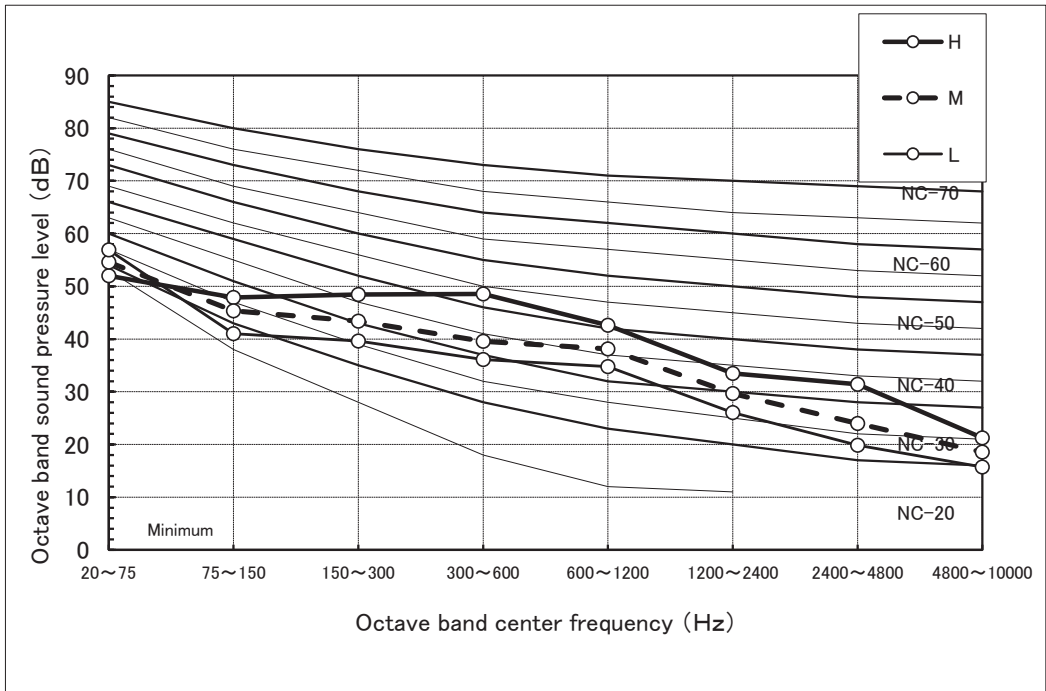
RAV-GM801UTP-A

Specification (dB)			
Fan tap	H	M	L
Sound pressure level (dB(A))	35	31	28



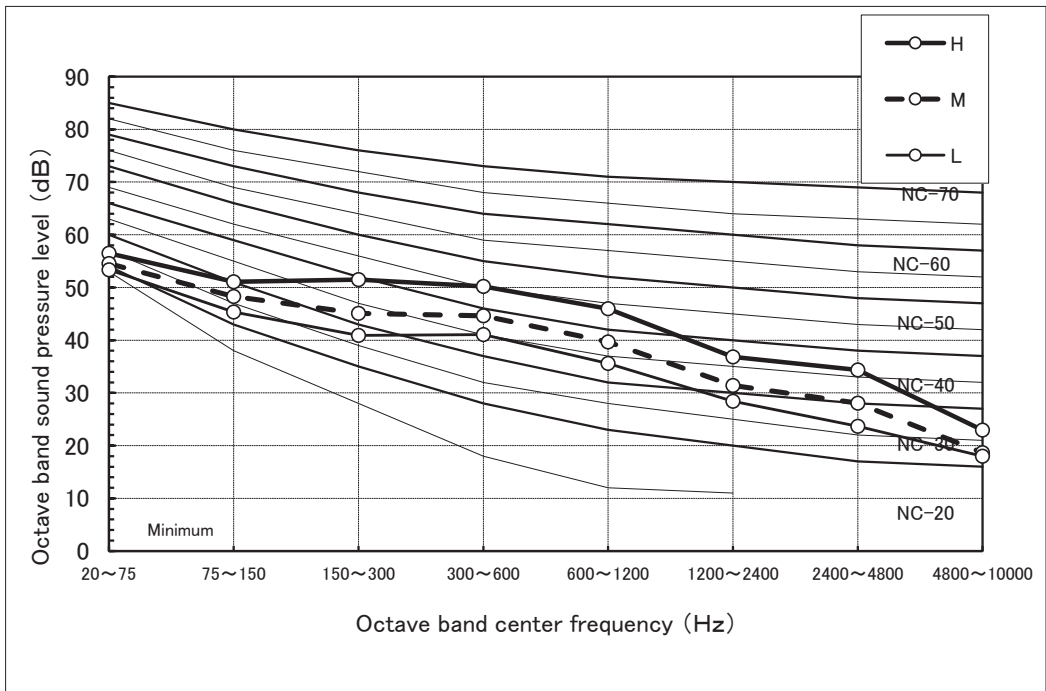
RAV-GM1101UTP-A

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



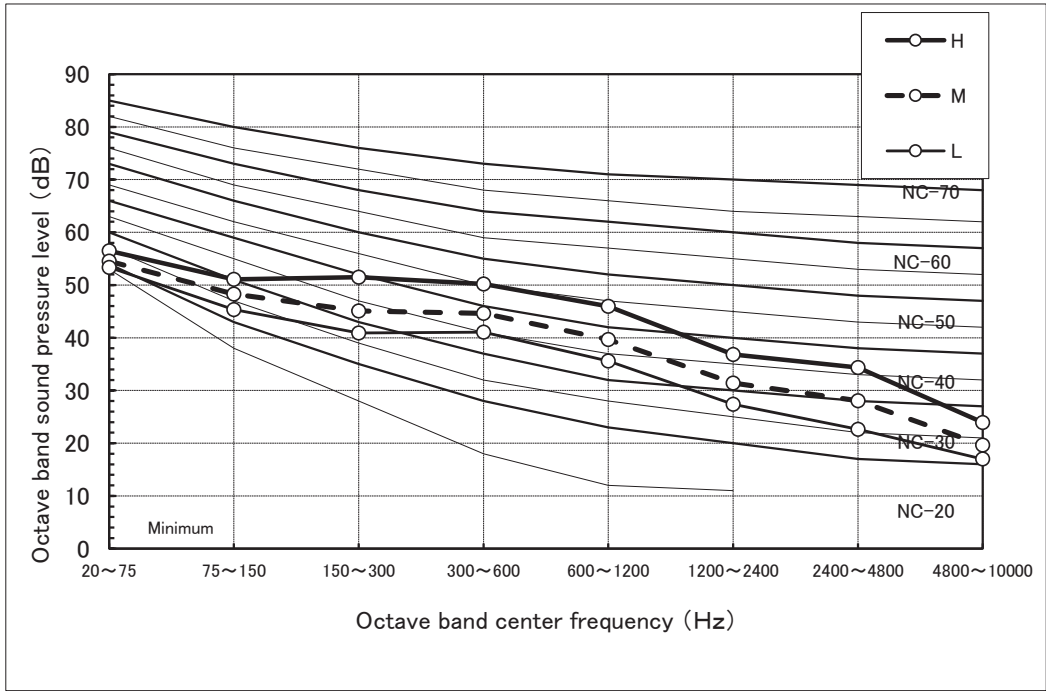
RAV-GM1401UTP-A

Specification (dB)			
Fan tap	H	M	L
Sound pressure level (dB(A))	48	44	42



RAV-GM1601UTP-A

Specification (dB)			
Fan tap	H	M	L
Sound pressure level (dB(A))	48	44	42



2-2. Under Ceiling

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

Under Ceiling type

Model		Indoor unit		RAV-GM561CTP-A	RAV-GM801CTP-A	RAV-GM1101CTP-A	RAV-GM1401CTP-A	RAV-GM1601CTP-A	RAV-GM1601CTP-A
		Outdoor unit		RAV-GM561ATP-A	RAV-GM801ATP-A	RAV-GM1101ATP-A	RAV-GM1401ATP-A	RAV-GM1601ATP-A	RAV-GM1601AT8P-A
Cooling capacity (kW)				5.0 < 1.5 - 5.6 >	7.1 < 1.5 - 8.0 >	10.0 < 3.0 - 11.2 >	12.5 < 3.0 - 14.0 >	14.0 <3.0 - 16.0>	14.0 <3.0 - 16.0>
Heating capacity (kW)				5.3 < 1.5 - 6.3 >	8.0 < 1.5 - 9.0 >	11.2 < 3.0 - 13.0 >	14.0 < 3.0 - 16.0 >	16.0 <3.0 - 18.0>	16.0 <3.0 - 18.0>
Power supply				1 phase 220V-240V/50Hz					3 phase 380V-415V/50Hz
Electrical characteristics	Cooling	Running current (A)	1.73 - 9.25	1.90 - 10.9	3.65 - 19.6	5.20 -24.6	4.00 - 29.6	1.30 - 10.15	
		Power consumption (kW)	1.51	1.97	2.98	4.03	4.51	4.51	
		Power factor (%)	95	95	94	96	96	94	
		EER	3.31	3.60	3.36	3.10	3.10	3.10	
		AEER	3.26	3.57	3.30	3.08	3.09	3.09	
	Heating Besides, ne Under ceiling	Running current (A)	1.73 - 11.25	1.64 - 13.10	3.65 - 19.6	3.90 - 22.5	4.00 - 26.95	1.30 - 9.20	
		Power consumption (kW)	1.36	2.00	2.80	3.74	4.38	4.38	
		Power factor (%)	97	96	94	96	96	94	
		COP	3.90	4.00	4.00	3.74	3.65	3.65	
		ACOP	3.83	3.96	3.97	3.72	3.63	3.63	
Indoor unit									
Appearance		Main unit		Pure white					
Outer dimension		Main unit	Height (mm)	235					
			Width (mm)	950	1,270	1,586			
			Depth (mm)	690	250	250			
Total weight		Main unit (kg)		23	29	37			
Fan unit		Fan		Centrifugal fan					
		Standard air flow	H/M/L (m3/h)	900 / 720 / 540	1410 / 1000 / 750	1860 / 1350 / 1020	2040 / 1530 / 1200	2040 / 1650 / 1260	2040 / 1650 / 1260
Air filter				Standard filter (Long life filter)					
Sound pressure level			H/M/L (dB)	37 / 35 / 28	41 / 36 / 29	44 / 38 / 32	46 / 41 / 35	46 / 42 / 36	46 / 42 / 36
Connecting pipe		Drain port		VP20					

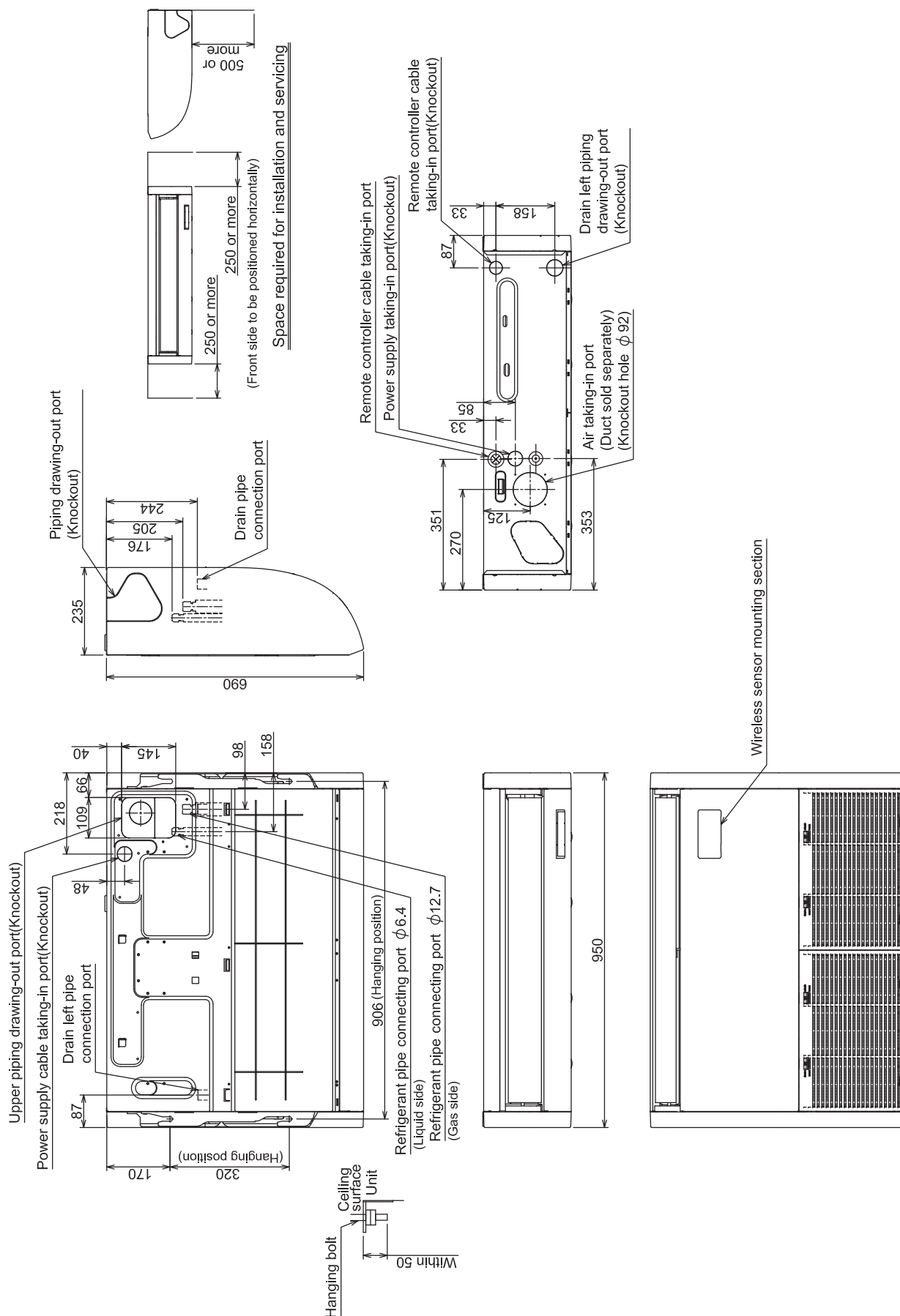
1 : The cooling capacities and electrical characteristics are measured under the conditions specified by JIS B 8615 based on the reference piping. The reference piping consists of 5 m of main piping and 2.5 m of branch piping connected with 0 meter height.

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 :

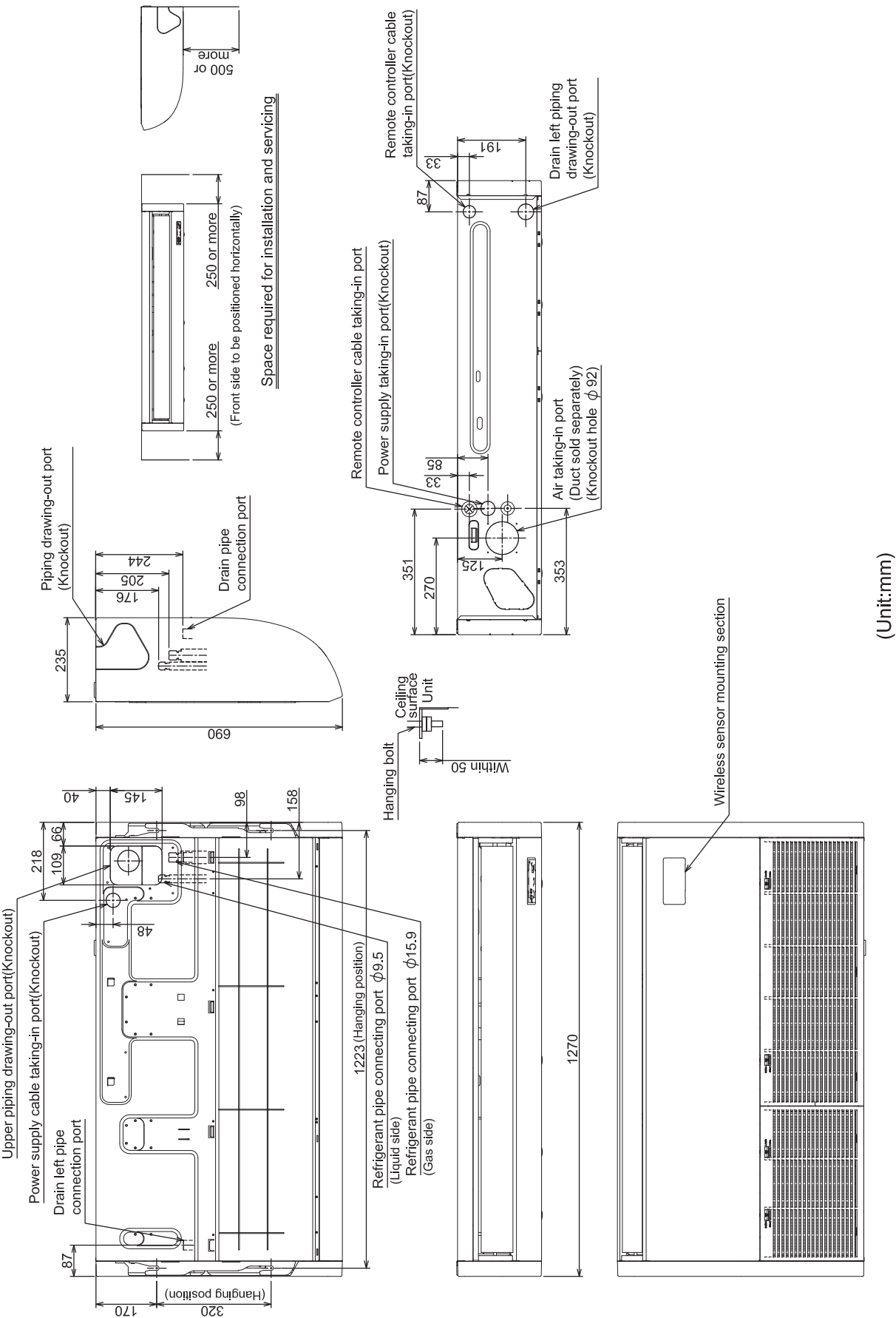
Rated conditions Cooling : Indoor air temperature 27°C DB/19°C WB, Outdoor air temperature 35°C DB

2-2-2. Dimension

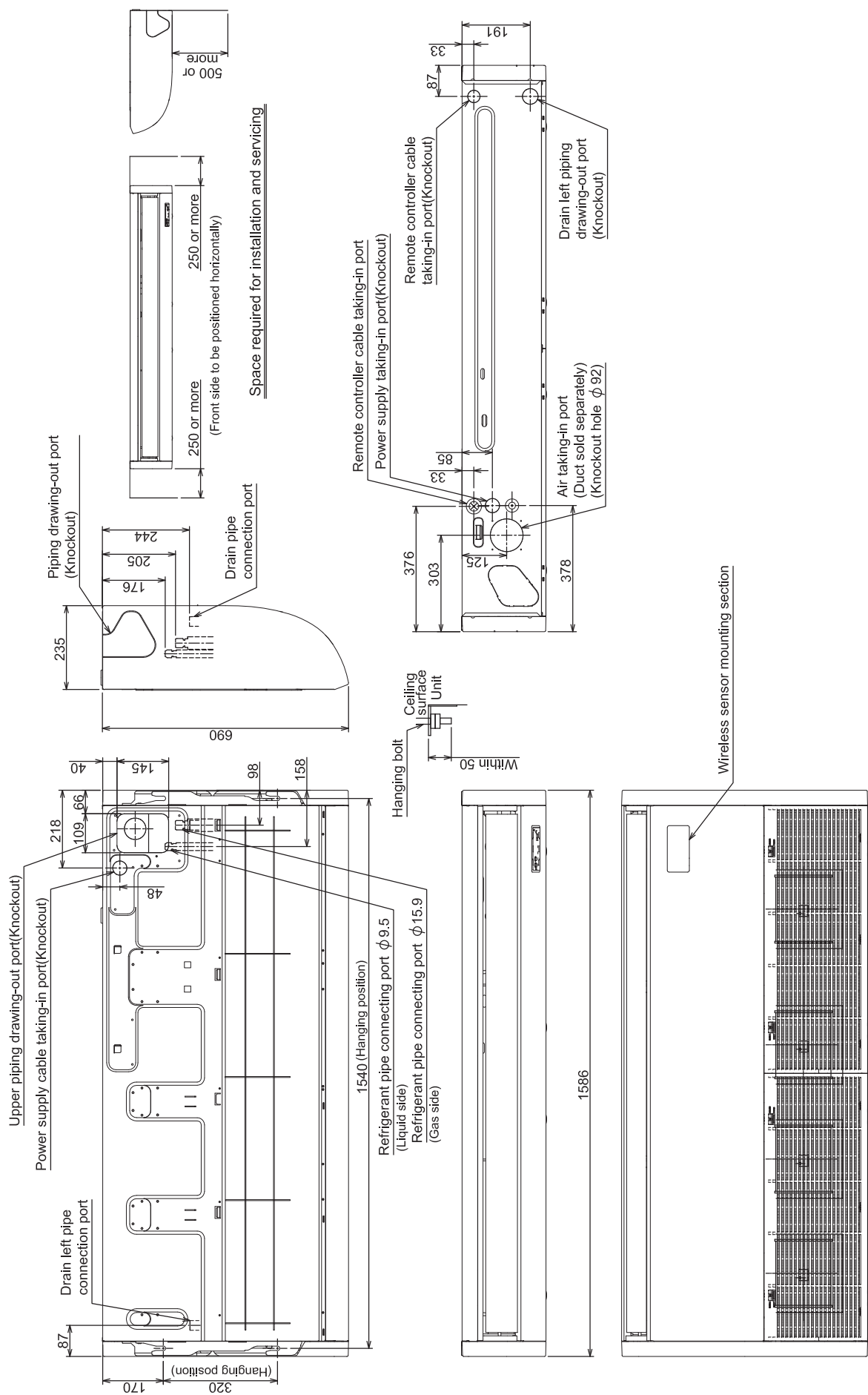
RAV-GM561CTP-A

(Unit:mm)

RAV-GM801CTP-A

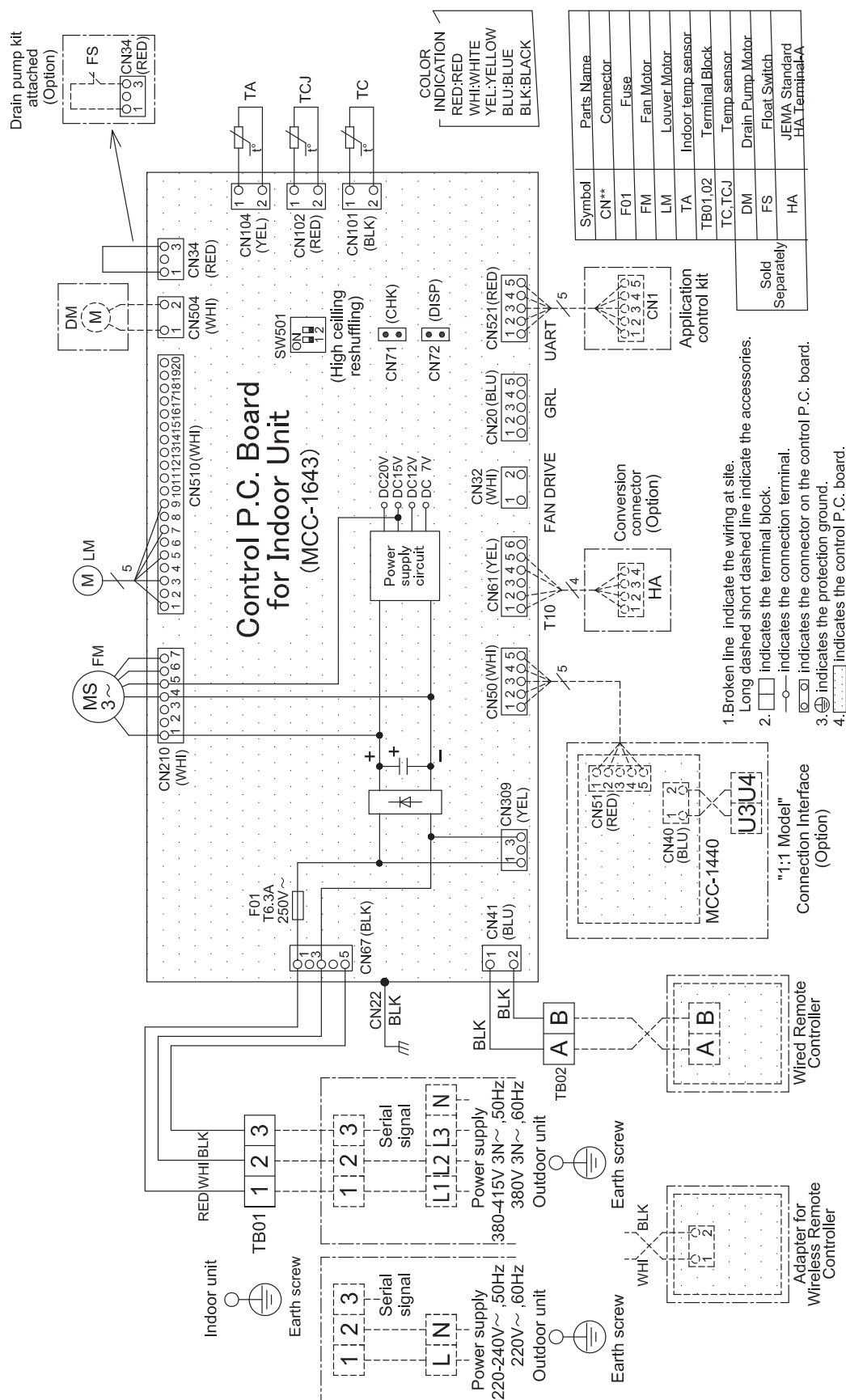


RAV-GM*1CTP-A (*110 / 140 / 160)



(Unit:mm)

2-2-3. Wiring Diagrams

RAV-GM*1CTP-A (*56 / 80 / 110 / 140 / 160)

2-2-4. Sensible Capacity Table

Product models : RAV-GM561CTP-A / RAV-GM561ATP-A

Standard Condition

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

Specification of product at standard condition.

Total Cooling Capacity (TC)	5.00 kW
Sensible Heat Capacity (SHC)	3.98 kW

Outdoor air temp. °C DB	Indoor Air temperature																	
	14.0 °C WB		15.0 °C WB		16.0 °C WB		17.0 °C WB		18.0 °C WB		19.0 °C WB		20.0 °C WB		22.0 °C WB		24.0 °C WB	
	20.0 °C DB		21.0 °C DB		23.0 °C DB		24.0 °C DB		26.0 °C DB		27.0 °C DB		28.0 °C DB		30.0 °C DB		32.0 °C DB	
	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
10.0	4.83	4.14	5.00	4.23	5.33	4.41	5.46	4.50	5.71	4.69	5.88	4.68	6.05	4.68	6.40	4.63	6.70	4.54
12.0	4.79	4.10	4.96	4.20	5.29	4.37	5.41	4.47	5.66	4.65	5.83	4.64	6.00	4.64	6.35	4.59	6.64	4.50
14.0	4.75	4.07	4.91	4.16	5.24	4.34	5.37	4.43	5.61	4.61	5.78	4.60	5.94	4.60	6.30	4.55	6.58	4.46
16.0	4.70	4.03	4.87	4.12	5.19	4.29	5.32	4.39	5.56	4.57	5.72	4.56	5.89	4.55	6.24	4.51	6.52	4.42
18.0	4.65	3.99	4.82	4.08	5.14	4.25	5.26	4.34	5.50	4.52	5.67	4.51	5.83	4.51	6.17	4.46	6.45	4.38
20.0	4.60	3.94	4.76	4.03	5.08	4.20	5.20	4.29	5.44	4.47	5.60	4.46	5.76	4.46	6.10	4.41	6.38	4.33
21.0	4.57	3.92	4.73	4.01	5.05	4.18	5.17	4.27	5.41	4.44	5.57	4.43	5.73	4.43	6.07	4.39	6.35	4.30
23.0	4.52	3.87	4.68	3.96	4.99	4.13	5.11	4.21	5.34	4.39	5.50	4.38	5.66	4.38	5.99	4.33	6.27	4.25
25.0	4.46	3.82	4.61	3.91	4.92	4.07	5.04	4.16	5.27	4.33	5.43	4.32	5.58	4.32	5.91	4.28	6.18	4.19
27.0	4.39	3.77	4.55	3.85	4.85	4.01	4.97	4.10	5.20	4.27	5.35	4.26	5.50	4.26	5.83	4.22	6.10	4.13
29.0	4.33	3.71	4.48	3.79	4.78	3.95	4.89	4.04	5.12	4.20	5.27	4.19	5.42	4.19	5.74	4.15	6.00	4.07
31.0	4.26	3.65	4.41	3.73	4.70	3.89	4.81	3.97	5.04	4.13	5.18	4.13	5.33	4.12	5.65	4.08	5.91	4.00
33.0	4.19	3.59	4.33	3.67	4.62	3.82	4.73	3.90	4.95	4.06	5.10	4.06	5.24	4.05	5.55	4.01	5.81	3.94
35.0	4.11	3.52	4.25	3.60	4.54	3.75	4.64	3.83	4.86	3.99	5.00	3.98	5.14	3.98	5.45	3.94	5.70	3.86
37.0	4.03	3.45	4.17	3.53	4.45	3.68	4.56	3.76	4.77	3.91	4.91	3.90	5.05	3.90	5.34	3.86	5.59	3.79
39.0	3.95	3.38	4.08	3.46	4.36	3.60	4.46	3.68	4.67	3.83	4.80	3.82	4.94	3.82	5.23	3.78	5.47	3.71
40.0	3.90	3.34	4.04	3.42	4.31	3.57	4.41	3.64	4.62	3.79	4.75	3.78	4.89	3.78	5.18	3.74	5.41	3.67
42.0	3.82	3.27	3.95	3.34	4.21	3.48	4.31	3.56	4.51	3.70	4.65	3.70	4.78	3.70	5.06	3.66	5.29	3.59
43.0	3.77	3.23	3.90	3.30	4.16	3.44	4.26	3.52	4.46	3.66	4.59	3.65	4.72	3.65	5.00	3.62	5.23	3.55
45.0	3.68	3.15	3.81	3.22	4.06	3.36	4.16	3.43	4.35	3.57	4.48	3.56	4.61	3.56	4.88	3.53	5.10	3.46
46.0	3.63	3.11	3.76	3.18	4.01	3.32	4.10	3.39	4.29	3.52	4.42	3.52	4.55	3.52	4.81	3.48	5.04	3.41

Product models : RAV-GM801CTP-A / RAV-GM801ATP-A

Standard Condition

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

Specification of product at standard condition.

Total Cooling Capacity (TC)	7.10 kW
Sensible Heat Capacity (SHC)	5.55 kW

Outdoor air temp. °C DB	Indoor Air temperature																	
	14.0 °C WB		15.0 °C WB		16.0 °C WB		17.0 °C WB		18.0 °C WB		19.0 °C WB		20.0 °C WB		22.0 °C WB		24.0 °C WB	
	20.0 °C DB		21.0 °C DB		23.0 °C DB		24.0 °C DB		26.0 °C DB		27.0 °C DB		28.0 °C DB		30.0 °C DB		32.0 °C DB	
	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
10.0	6.86	5.78	7.09	5.91	7.57	6.15	7.75	6.28	8.11	6.54	8.35	6.52	8.58	6.52	9.09	6.44	9.51	6.31
12.0	6.80	5.73	7.04	5.86	7.51	6.10	7.69	6.23	8.04	6.49	8.28	6.47	8.52	6.46	9.02	6.39	9.43	6.26
14.0	6.74	5.68	6.98	5.81	7.44	6.05	7.62	6.18	7.97	6.43	8.21	6.42	8.44	6.41	8.94	6.34	9.35	6.20
16.0	6.68	5.63	6.91	5.75	7.37	5.99	7.55	6.12	7.90	6.37	8.13	6.35	8.36	6.35	8.85	6.28	9.26	6.15
18.0	6.61	5.57	6.84	5.69	7.30	5.93	7.47	6.06	7.81	6.30	8.05	6.29	8.28	6.28	8.76	6.21	9.17	6.08
20.0	6.53	5.51	6.76	5.63	7.22	5.86	7.39	5.99	7.73	6.23	7.96	6.22	8.18	6.21	8.67	6.14	9.06	6.01
21.0	6.50	5.47	6.72	5.60	7.17	5.83	7.34	5.95	7.68	6.20	7.91	6.18	8.13	6.17	8.61	6.11	9.01	5.98
23.0	6.42	5.41	6.64	5.53	7.09	5.76	7.25	5.88	7.59	6.12	7.81	6.11	8.03	6.10	8.51	6.03	8.90	5.91
25.0	6.33	5.33	6.55	5.45	6.99	5.68	7.16	5.80	7.49	6.04	7.71	6.02	7.93	6.02	8.40	5.95	8.78	5.83
27.0	6.24	5.26	6.46	5.38	6.89	5.60	7.06	5.72	7.38	5.95	7.60	5.94	7.82	5.93	8.28	5.87	8.66	5.74
29.0	6.15	5.18	6.36	5.30	6.79	5.52	6.95	5.63	7.27	5.86	7.48	5.85	7.70	5.84	8.15	5.78	8.53	5.66
31.0	6.05	5.09	6.26	5.21	6.68	5.43	6.84	5.54	7.15	5.77	7.36	5.75	7.57	5.75	8.02	5.68	8.39	5.57
33.0	5.94	5.01	6.15	5.12	6.56	5.33	6.72	5.45	7.03	5.67	7.24	5.66	7.44	5.65	7.88	5.59	8.24	5.47
35.0	5.83	4.91	6.03	5.02	6.44	5.23	6.59	5.34	6.90	5.56	7.10	5.55	7.30	5.54	7.73	5.48	8.09	5.37
37.0	5.72	4.82	5.92	4.93	6.32	5.14	6.47	5.24	6.77	5.46	6.97	5.45	7.17	5.44	7.59	5.38	7.94	5.27
39.0	5.60	4.72	5.80	4.83	6.19	5.03	6.34	5.14	6.63	5.35	6.82	5.33	7.02	5.33	7.43	5.27	7.77	5.16
40.0	5.54	4.67	5.74	4.78	6.12	4.97	6.27	5.08	6.56	5.29	6.75	5.28	6.94	5.27	7.35	5.21	7.69	5.10
42.0	5.42	4.56	5.61	4.67	5.98	4.86	6.13	4.97	6.41	5.17	6.60	5.16	6.79	5.15	7.19	5.09	7.52	4.99
43.0	5.35	4.51	5.54	4.61	5.91	4.81	6.05	4.91	6.33	5.11	6.52	5.10	6.70	5.09	7.10	5.03	7.43	4.93
45.0	5.22	4.40	5.40	4.50	5.77	4.69	5.90	4.79	6.18	4.98	6.36	4.97	6.54	4.96	6.93	4.91	7.24	4.81
46.0	5.15	4.34	5.33	4.44	5.69	4.63	5.83	4.72	6.10	4.92	6.28	4.91	6.46	4.90	6.84	4.85	7.15	4.74

Product models : RAV-GM1101CTP-A / RAV-GM1101ATP-A

Standard Condition

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

Specification of product at standard condition.

Total Cooling Capacity (TC)	10.00 kW
Sensible Heat Capacity (SHC)	7.80 kW

Outdoor air temp. °C DB	Indoor Air temperature																	
	14.0 °C WB		15.0 °C WB		16.0 °C WB		17.0 °C WB		18.0 °C WB		19.0 °C WB		20.0 °C WB		22.0 °C WB		24.0 °C WB	
	20.0 °C DB		21.0 °C DB		23.0 °C DB		24.0 °C DB		26.0 °C DB		27.0 °C DB		28.0 °C DB		30.0 °C DB		32.0 °C DB	
°C DB	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
10.0	9.66	8.12	9.99	8.30	10.66	8.65	10.92	8.83	11.42	9.19	11.76	9.17	12.09	9.16	12.80	9.06	13.39	8.86
12.0	9.58	8.05	9.91	8.24	10.58	8.58	10.83	8.76	11.33	9.12	11.66	9.10	11.99	9.08	12.70	8.98	13.29	8.79
14.0	9.49	7.98	9.82	8.16	10.49	8.50	10.73	8.68	11.23	9.04	11.56	9.02	11.89	9.00	12.59	8.90	13.17	8.72
16.0	9.40	7.91	9.73	8.09	10.39	8.42	10.63	8.60	11.12	8.95	11.45	8.93	11.78	8.92	12.47	8.82	13.04	8.63
18.0	9.31	7.83	9.63	8.00	10.28	8.34	10.52	8.51	11.01	8.86	11.33	8.84	11.66	8.83	12.34	8.73	12.91	8.54
20.0	9.20	7.74	9.52	7.91	10.16	8.24	10.40	8.42	10.88	8.76	11.21	8.74	11.53	8.73	12.21	8.63	12.77	8.45
21.0	9.15	7.69	9.47	7.87	10.10	8.19	10.34	8.37	10.82	8.71	11.14	8.69	11.46	8.68	12.13	8.58	12.69	8.40
23.0	9.04	7.60	9.35	7.77	9.98	8.09	10.22	8.26	10.69	8.60	11.00	8.58	11.32	8.57	11.98	8.47	12.53	8.30
25.0	8.92	7.50	9.23	7.67	9.85	7.99	10.08	8.15	10.54	8.49	10.86	8.47	11.17	8.46	11.82	8.36	12.37	8.19
27.0	8.79	7.39	9.10	7.56	9.71	7.87	9.94	8.04	10.39	8.37	10.70	8.35	11.01	8.34	11.66	8.24	12.19	8.07
29.0	8.66	7.28	8.96	7.44	9.56	7.75	9.79	7.92	10.24	8.24	10.54	8.22	10.84	8.21	11.48	8.12	12.01	7.95
31.0	8.52	7.16	8.81	7.32	9.41	7.63	9.63	7.79	10.07	8.11	10.37	8.09	10.67	8.08	11.29	7.99	11.81	7.82
33.0	8.37	7.04	8.66	7.20	9.24	7.50	9.46	7.66	9.90	7.97	10.19	7.95	10.48	7.94	11.10	7.85	11.61	7.69
35.0	8.21	6.91	8.50	7.06	9.07	7.36	9.29	7.51	9.71	7.82	10.00	7.80	10.29	7.79	10.89	7.70	11.39	7.54
37.0	8.06	6.78	8.34	6.93	8.90	7.22	9.11	7.37	9.53	7.67	9.81	7.65	10.09	7.64	10.69	7.56	11.18	7.40
39.0	7.89	6.64	8.17	6.79	8.72	7.07	8.92	7.22	9.33	7.51	9.61	7.50	9.88	7.49	10.47	7.40	10.95	7.25
40.0	7.81	6.56	8.08	6.71	8.62	6.99	8.83	7.14	9.23	7.43	9.51	7.41	9.78	7.40	10.35	7.32	10.83	7.17
42.0	7.63	6.42	7.90	6.56	8.43	6.83	8.63	6.98	9.03	7.27	9.29	7.25	9.56	7.24	10.12	7.16	10.59	7.01
43.0	7.54	6.34	7.80	6.48	8.33	6.75	8.53	6.90	8.92	7.18	9.18	7.16	9.44	7.15	10.00	7.07	10.46	6.92
45.0	7.36	6.18	7.61	6.32	8.12	6.59	8.32	6.73	8.70	7.00	8.96	6.98	9.21	6.98	9.75	6.90	10.20	6.75
46.0	7.26	6.10	7.51	6.24	8.02	6.50	8.21	6.64	8.59	6.91	8.84	6.89	9.09	6.89	9.63	6.81	10.07	6.67

Product models : RAV-GM1401CTP-A / RAV-GM1401ATP-A

Standard Condition

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

Specification of product at standard condition.

Total Cooling Capacity (TC)	12.50 kW
Sensible Heat Capacity (SHC)	9.75 kW

Outdoor air temp. °C DB	Indoor Air temperature																	
	14.0 °C WB		15.0 °C WB		16.0 °C WB		17.0 °C WB		18.0 °C WB		19.0 °C WB		20.0 °C WB		22.0 °C WB		24.0 °C WB	
	20.0 °C DB		21.0 °C DB		23.0 °C DB		24.0 °C DB		26.0 °C DB		27.0 °C DB		28.0 °C DB		30.0 °C DB		32.0 °C DB	
°C DB	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
10.0	12.07	10.15	12.49	10.38	13.33	10.81	13.64	11.04	14.27	11.49	14.69	11.46	15.11	11.45	16.01	11.32	16.74	11.08
12.0	11.97	10.07	12.39	10.29	13.22	10.72	13.54	10.95	14.16	11.40	14.58	11.37	14.99	11.35	15.88	11.23	16.61	10.99
14.0	11.87	9.98	12.28	10.20	13.11	10.63	13.42	10.85	14.04	11.30	14.45	11.27	14.86	11.25	15.74	11.13	16.46	10.90
16.0	11.76	9.88	12.16	10.11	12.98	10.53	13.29	10.75	13.90	11.19	14.31	11.16	14.72	11.15	15.59	11.02	16.30	10.79
18.0	11.63	9.78	12.04	10.00	12.85	10.42	13.15	10.64	13.76	11.08	14.16	11.05	14.57	11.03	15.43	10.91	16.14	10.68
20.0	11.50	9.67	11.90	9.89	12.71	10.30	13.01	10.52	13.61	10.95	14.01	10.92	14.41	10.91	15.26	10.79	15.96	10.56
21.0	11.44	9.62	11.83	9.83	12.63	10.24	12.93	10.46	13.53	10.89	13.92	10.86	14.32	10.85	15.17	10.73	15.86	10.50
23.0	11.30	9.50	11.69	9.71	12.47	10.12	12.77	10.33	13.36	10.75	13.75	10.73	14.14	10.71	14.98	10.59	15.67	10.37
25.0	11.15	9.37	11.53	9.58	12.31	9.98	12.60	10.19	13.18	10.61	13.57	10.58	13.96	10.57	14.78	10.45	15.46	10.23
27.0	10.99	9.24	11.37	9.45	12.13	9.84	12.42	10.05	12.99	10.46	13.38	10.43	13.76	10.42	14.57	10.30	15.24	10.09
29.0	10.82	9.10	11.20	9.30	11.95	9.69	12.23	9.90	12.80	10.30	13.17	10.28	13.55	10.26	14.35	10.15	15.01	9.93
31.0	10.65	8.95	11.02	9.15	11.76	9.54	12.04	9.74	12.59	10.14	12.96	10.11	13.33	10.10	14.12	9.98	14.77	9.77
33.0	10.46	8.80	10.83	9.00	11.56	9.37	11.83	9.57	12.37	9.96	12.74	9.94	13.10	9.92	13.88	9.81	14.51	9.61
35.0	10.27	8.63	10.62	8.83	11.34	9.20	11.61	9.39	12.14	9.77	12.50	9.75	12.86	9.74	13.62	9.63	14.24	9.43
37.0	10.07	8.47	10.42	8.66	11.12	9.02	11.39	9.21	11.91	9.59	12.26	9.57	12.61	9.55	13.36	9.45	13.97	9.25
39.0	9.87	8.30	10.21	8.48	10.90	8.84	11.15	9.02	11.67	9.39	12.01	9.37	12.35	9.36	13.08	9.25	13.68	9.06
40.0	9.76	8.21	10.10	8.39	10.78	8.74	11.03	8.93	11.54	9.29	11.88	9.27	12.22	9.26	12.94	9.15	13.54	8.96
42.0	9.54	8.02	9.87	8.20	10.53	8.54	10.78	8.72	11.28	9.08	11.61	9.06	11.95	9.05	12.65	8.95	13.23	8.76
43.0	9.43	7.93	9.75	8.10	10.41	8.44	10.66	8.62	11.15	8.97	11.48	8.95	11.80	8.94	12.50	8.84	13.07	8.65
45.0	9.19	7.73	9.51	7.91	10.15	8.23	10.39	8.41	10.87	8.75	11.19	8.73	11.51	8.72	12.19	8.62	12.75	8.44
46.0	9.08	7.63	9.39	7.80	10.02	8.13	10.26	8.30	10.73	8.64	11.05	8.62	11.36	8.61	12.04	8.51	12.59	8.33

Product models : RAV-GM1601CTP-A / RAV-GM1601AT(8)P-A

Standard Condition

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

Specification of product at standard condition.

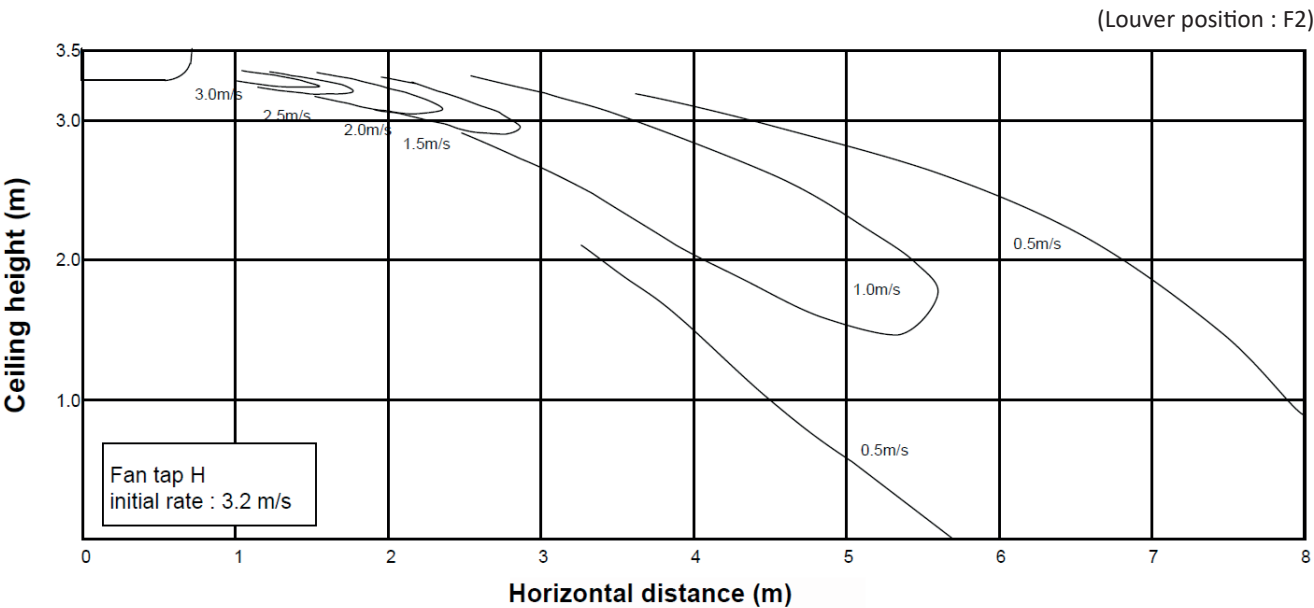
Total Cooling Capacity (TC)	14.00 kW
Sensible Heat Capacity (SHC)	10.00 kW

Outdoor air temp. °C DB	Indoor Air temperature																	
	14.0 °C WB		15.0 °C WB		16.0 °C WB		17.0 °C WB		18.0 °C WB		19.0 °C WB		20.0 °C WB		22.0 °C WB		24.0 °C WB	
	20.0 °C DB		21.0 °C DB		23.0 °C DB		24.0 °C DB		26.0 °C DB		27.0 °C DB		28.0 °C DB		30.0 °C DB		32.0 °C DB	
	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
10.0	13.52	10.48	13.99	10.70	14.93	11.13	15.28	11.36	15.99	11.82	16.46	11.76	16.93	11.71	17.93	11.50	18.75	11.18
12.0	13.41	10.39	13.88	10.62	14.81	11.04	15.16	11.27	15.86	11.72	16.33	11.66	16.79	11.61	17.78	11.41	18.60	11.09
14.0	13.29	10.30	13.75	10.52	14.68	10.94	15.03	11.17	15.72	11.62	16.18	11.56	16.65	11.51	17.63	11.31	18.44	10.99
16.0	13.17	10.20	13.62	10.42	14.54	10.84	14.88	11.06	15.57	11.51	16.03	11.45	16.49	11.40	17.46	11.20	18.26	10.89
18.0	13.03	10.10	13.48	10.32	14.39	10.72	14.73	10.95	15.41	11.39	15.86	11.33	16.32	11.28	17.28	11.08	18.07	10.77
20.0	12.89	9.99	13.33	10.20	14.23	10.61	14.57	10.83	15.24	11.27	15.69	11.21	16.14	11.16	17.09	10.96	17.87	10.66
21.0	12.81	9.93	13.25	10.14	14.15	10.54	14.48	10.76	15.15	11.20	15.59	11.14	16.04	11.09	16.99	10.90	17.77	10.59
23.0	12.65	9.81	13.09	10.02	13.97	10.41	14.30	10.63	14.96	11.06	15.40	11.00	15.84	10.96	16.78	10.76	17.55	10.46
25.0	12.48	9.68	12.92	9.88	13.79	10.27	14.11	10.49	14.76	10.91	15.20	10.86	15.63	10.81	16.55	10.62	17.31	10.32
27.0	12.31	9.54	12.73	9.74	13.59	10.13	13.91	10.34	14.55	10.76	14.98	10.70	15.41	10.66	16.32	10.47	17.07	10.18
29.0	12.12	9.39	12.54	9.60	13.38	9.97	13.70	10.18	14.33	10.60	14.75	10.54	15.18	10.50	16.07	10.31	16.81	10.02
31.0	11.92	9.24	12.34	9.44	13.17	9.81	13.48	10.02	14.10	10.42	14.52	10.37	14.93	10.33	15.81	10.14	16.54	9.86
33.0	11.72	9.08	12.13	9.28	12.94	9.65	13.25	9.85	13.86	10.25	14.27	10.19	14.68	10.15	15.54	9.97	16.25	9.69
35.0	11.50	8.91	11.90	9.10	12.70	9.46	13.00	9.66	13.60	10.05	14.00	10.00	14.40	9.96	15.25	9.78	15.95	9.51
37.0	11.28	8.74	11.67	8.93	12.46	9.29	12.75	9.48	13.34	9.86	13.74	9.81	14.13	9.77	14.96	9.60	15.65	9.33
39.0	11.05	8.56	11.43	8.75	12.20	9.09	12.49	9.29	13.07	9.66	13.45	9.61	13.84	9.57	14.65	9.40	15.33	9.14
40.0	10.93	8.47	11.31	8.65	12.07	9.00	12.36	9.18	12.93	9.56	13.31	9.51	13.69	9.47	14.50	9.30	15.16	9.04
42.0	10.68	8.28	11.06	8.46	11.80	8.79	12.08	8.98	12.64	9.34	13.01	9.29	13.38	9.25	14.17	9.09	14.82	8.84
43.0	10.56	8.18	10.92	8.36	11.66	8.69	11.94	8.87	12.49	9.23	12.85	9.18	13.22	9.14	14.00	8.98	14.64	8.73
45.0	10.30	7.98	10.66	8.15	11.37	8.48	11.64	8.65	12.18	9.00	12.54	8.96	12.90	8.92	13.66	8.76	14.28	8.52
46.0	10.16	7.88	10.52	8.05	11.22	8.37	11.49	8.54	12.02	8.89	12.37	8.84	12.73	8.80	13.48	8.65	14.10	8.41

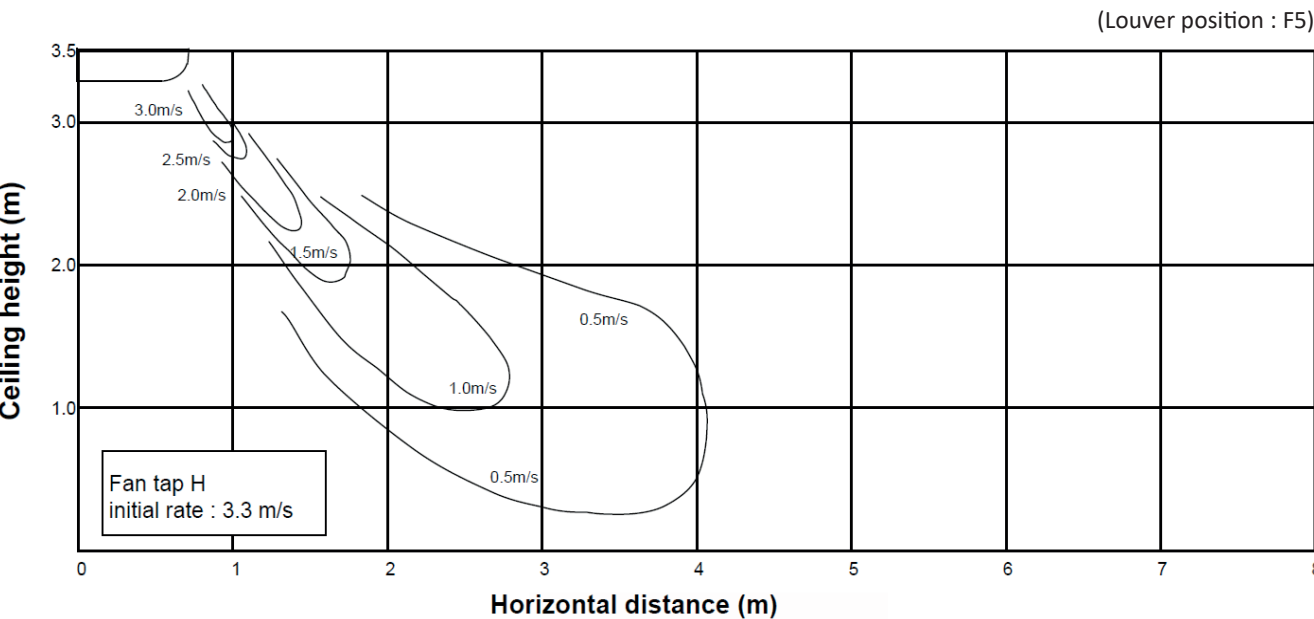
2-2-6. Air Throw Distance Chart

RAV-GM561CTP-A

Cooling

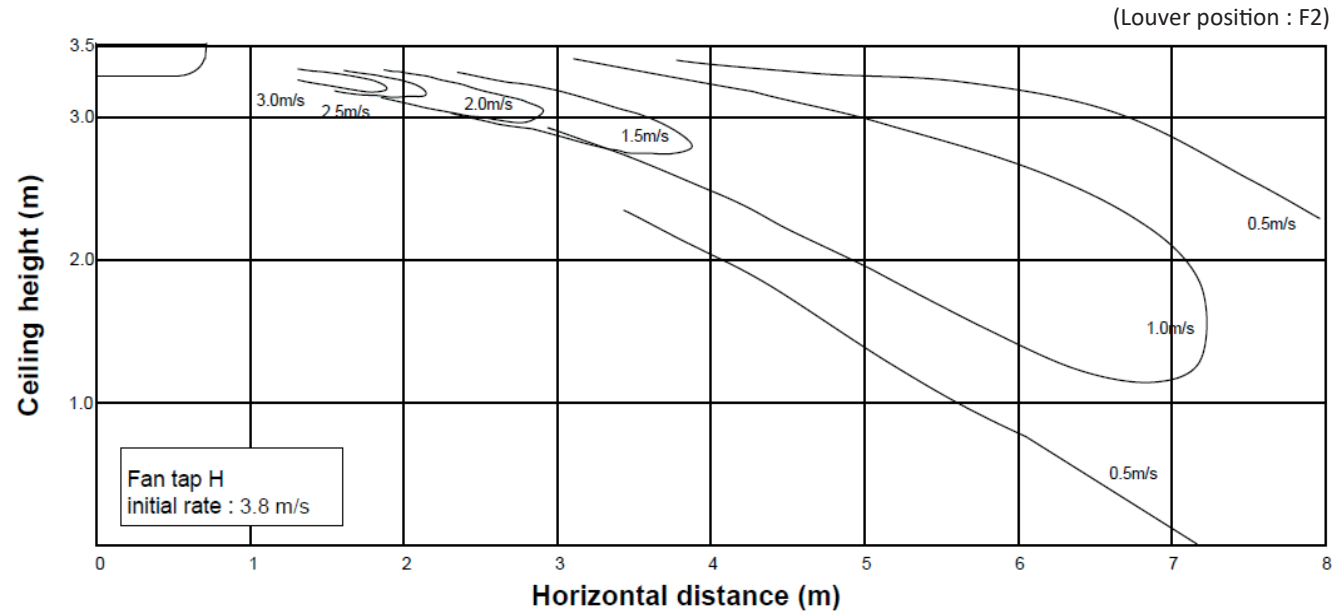


Heating

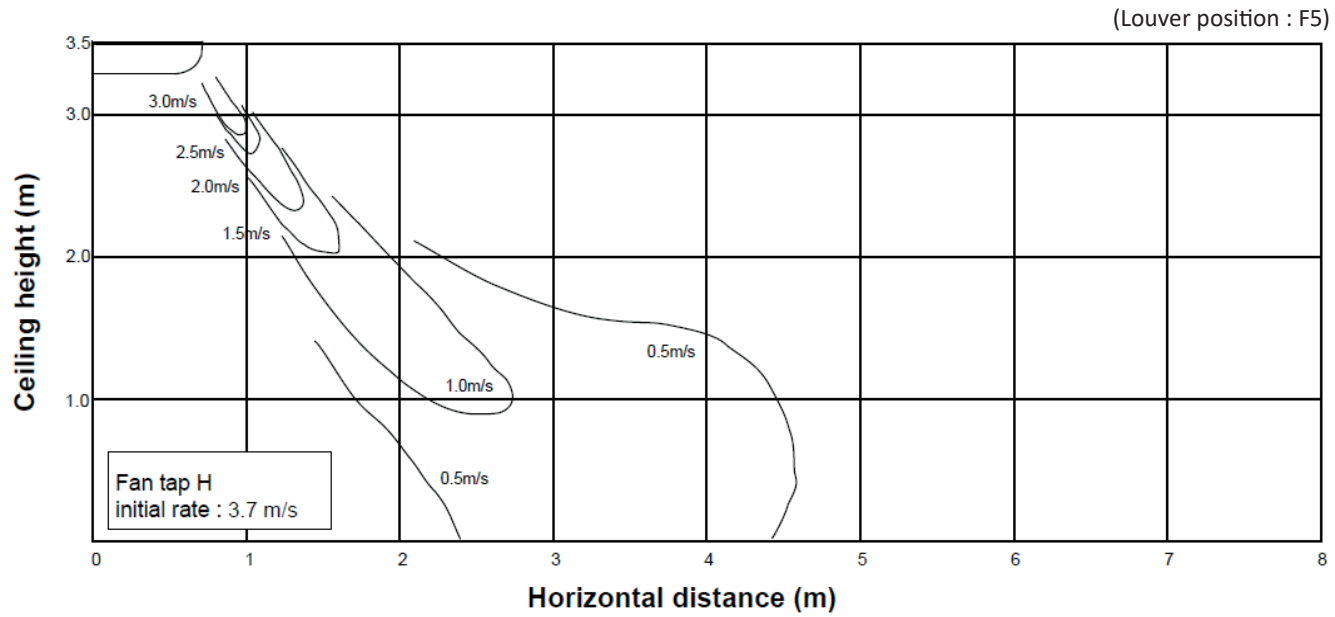


RAV-GM801CTP-A

Cooling

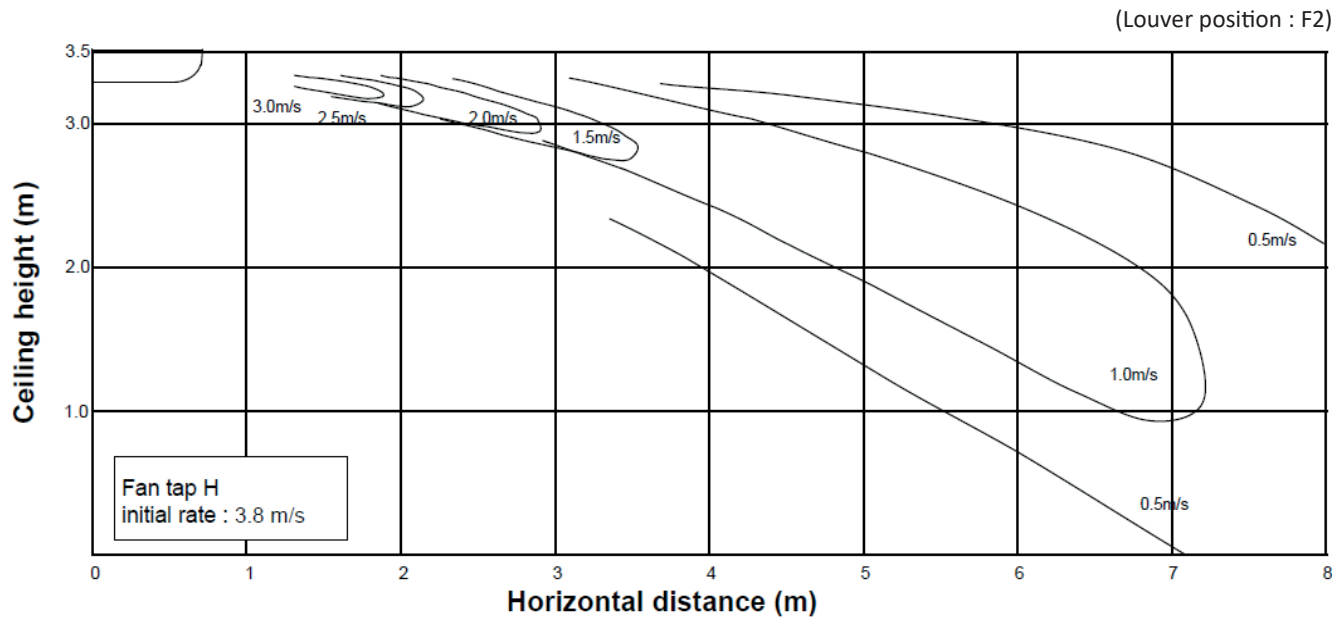


Heating

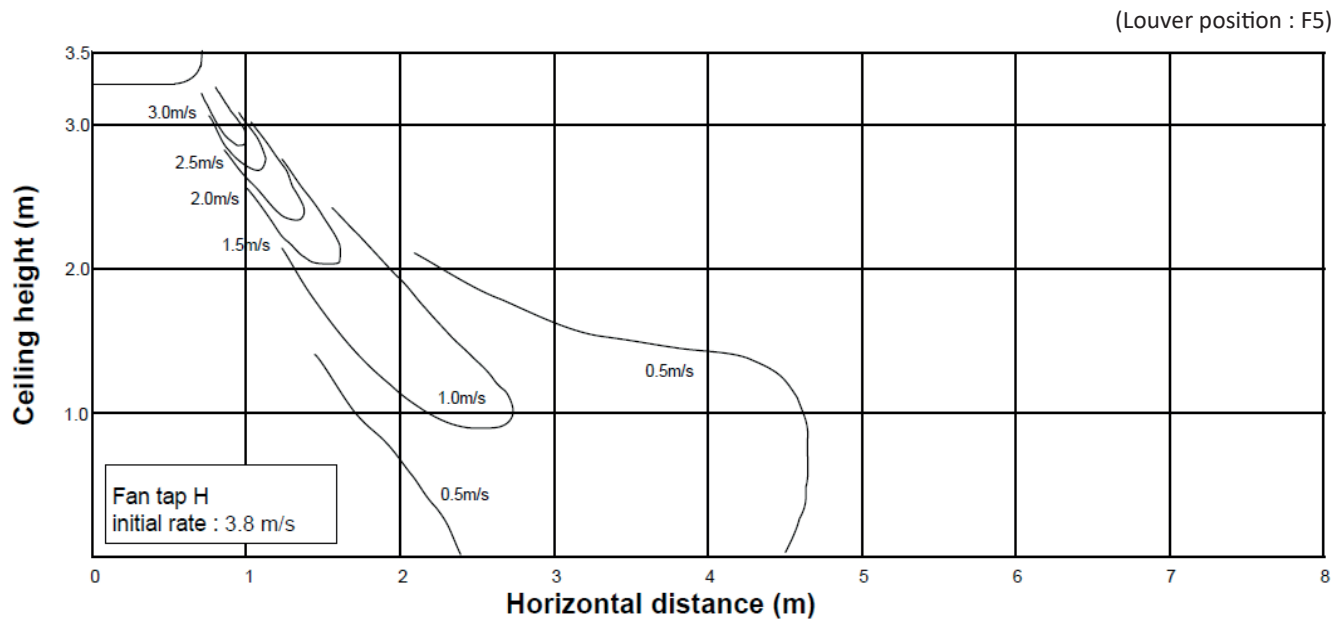


RAV-GM1101CTP-A

Cooling

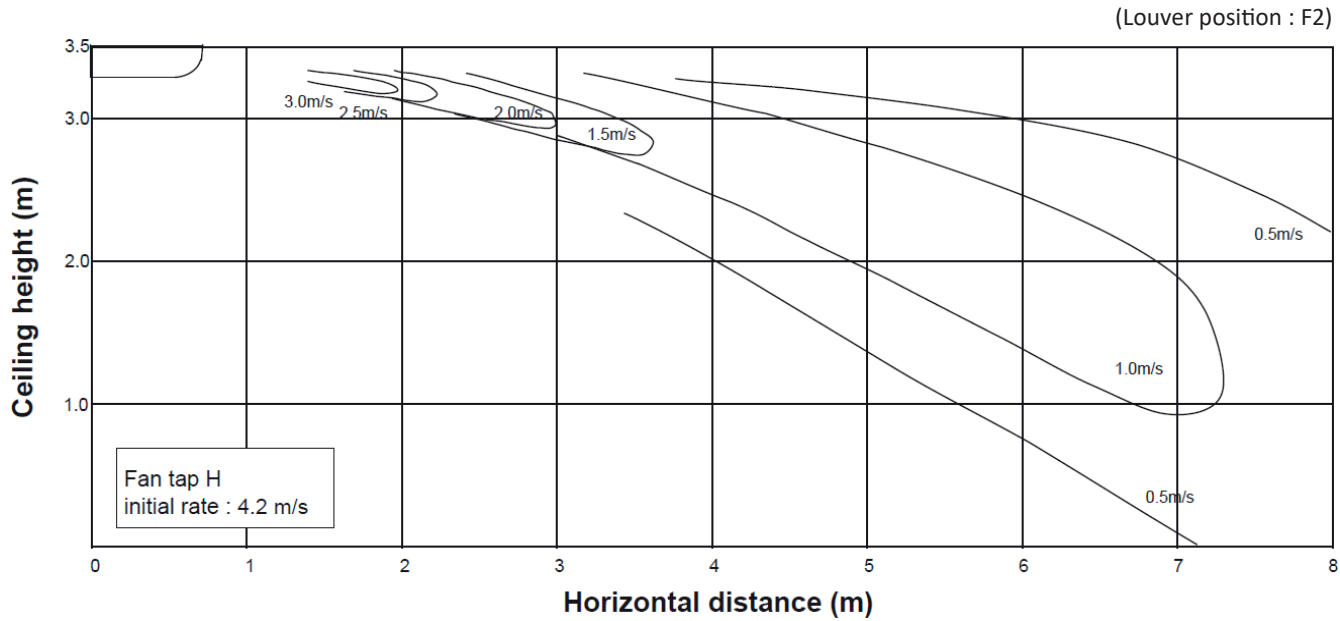


Heating

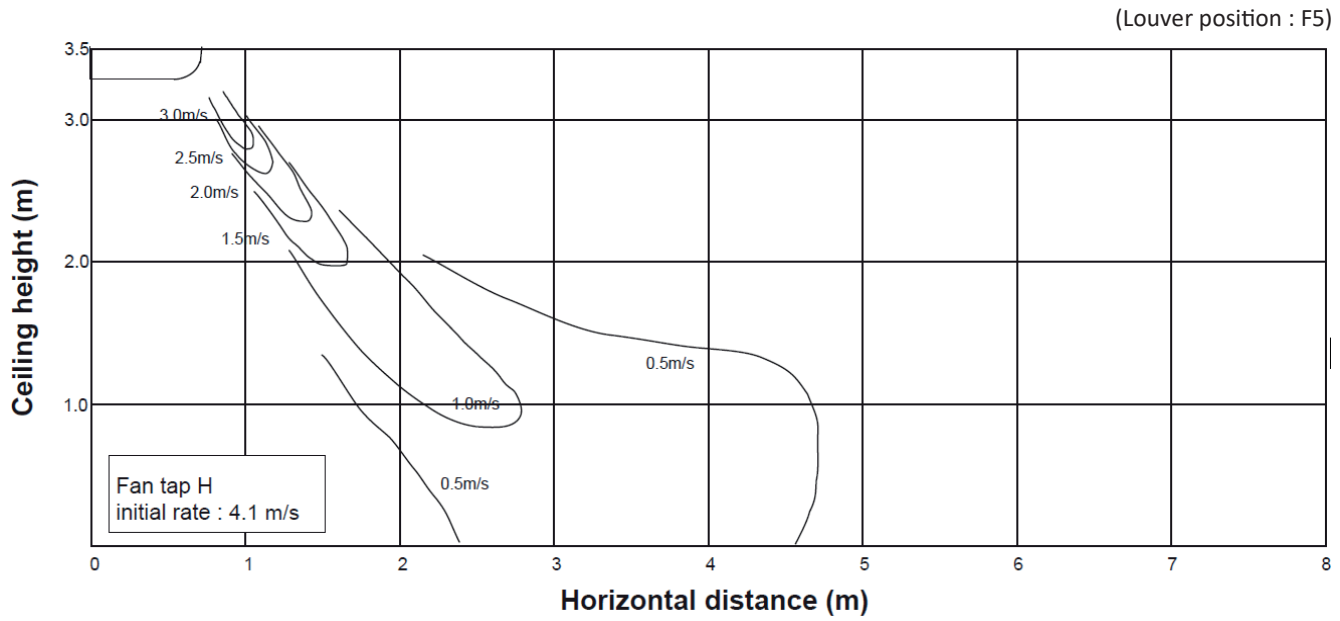


RAV-GM1401CTP-A / RAV-GM1601CTP-A

Cooling



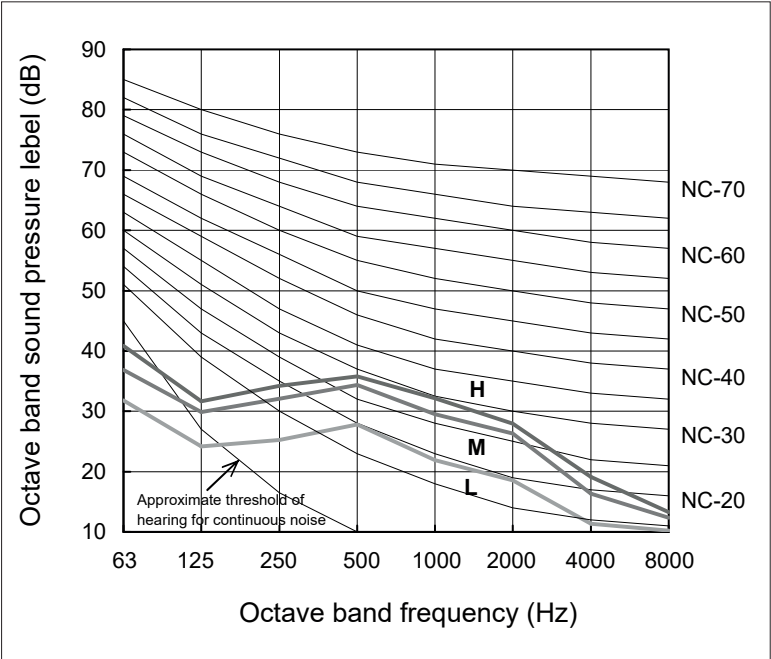
Heating



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

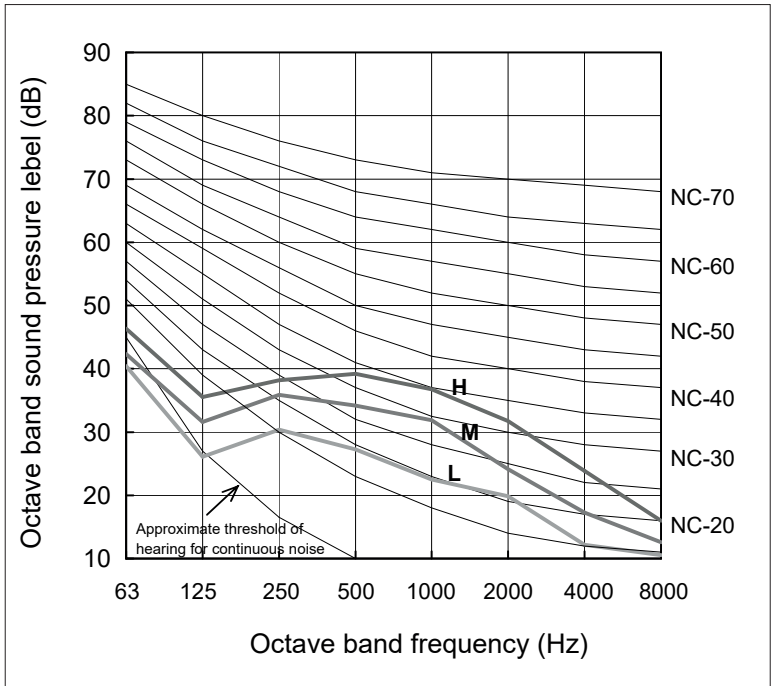
RAV-GM561CTP-A

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



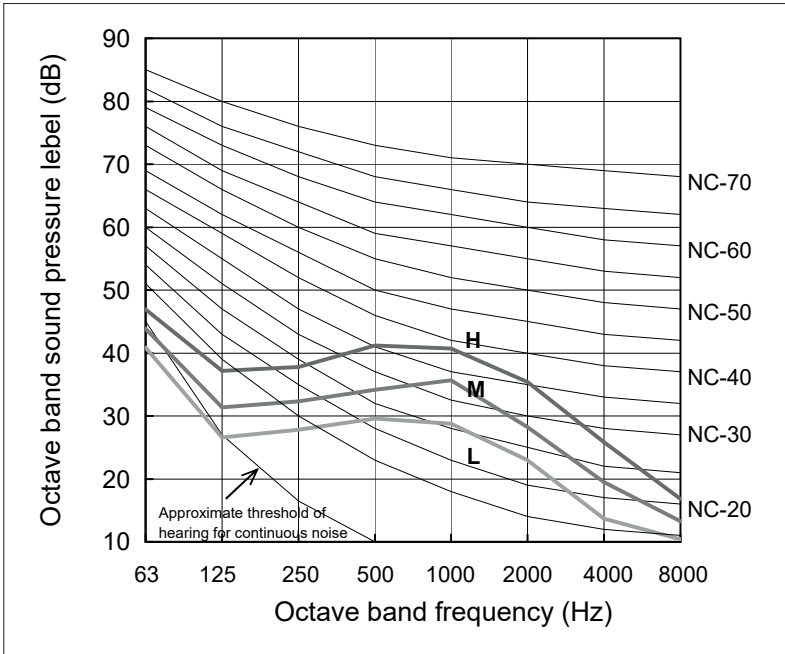
RAV-GM801CTP-A

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



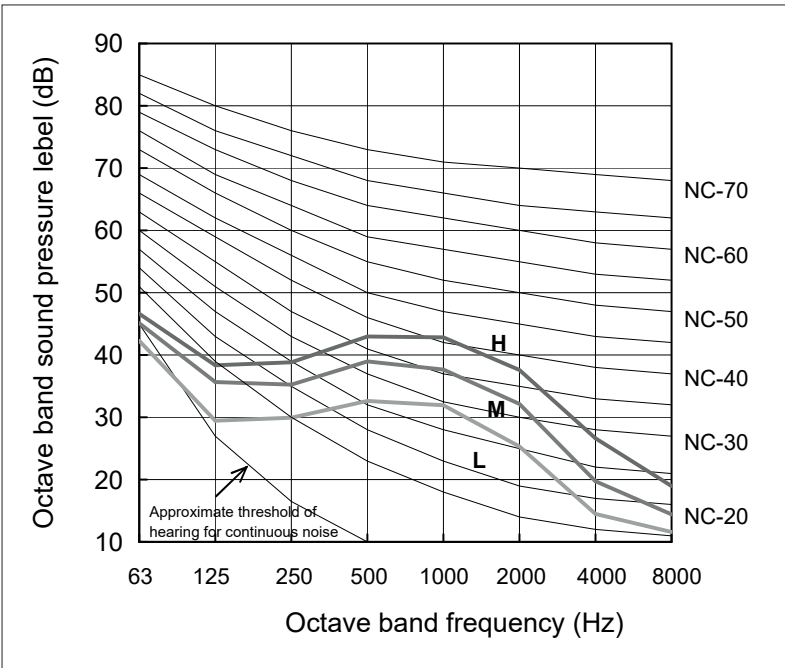
RAV-GM1101CTP-A

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



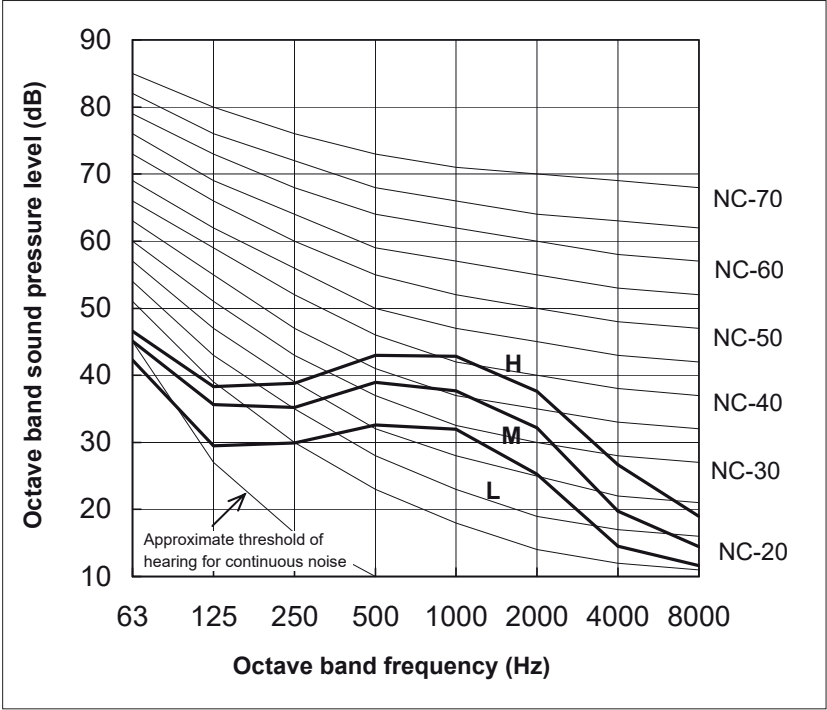
RAV-GM1401CTP-A

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



RAV-GM1601CTP-A

Specification (dB)			
Fan tap	H	M	L
Sound pressure level (dB(A))	46	42	36



2-3. Standard Duct 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. Fan Static Characteristic

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

2-3-1. Specifications

Standard duct type

Model			Indoor unit		RAV-GM561BTP-A	RAV-GM801BTP-A	RAV-GM1101BTP-A	RAV-GM1401BTP-A	RAV-GM1601BTP-A	RAV-GM1601BTP-A
			Outdoor unit		RAV-GM561ATP-A	RAV-GM801ATP-A	RAV-GM1101ATP-A	RAV-GM1401ATP-A	RAV-GM1601ATP-A	RAV-GM1601AT8P-A
Cooling capacity			(kW)	5.0 < 1.5 - 5.6 >	7.1 < 1.5 - 8.0 >	10.0 < 3.0 - 11.2 >	12.5 < 3.0 - 14.0 >	14.0 <3.0 - 16.0>	14.0 <3.0 - 16.0>	
Heating capacity			(kW)	5.3 < 1.5 - 6.3 >	8.0 < 1.5 - 9.0 >	11.2 < 3.0 - 13.0 >	14.0 < 3.0 - 16.0 >	16.0 <3.0 - 18.0>	16.0 <3.0 - 18.0>	
Power supply				1 phase 220V-240V/50Hz						3 phase 380V-415V/50Hz
Electrical characteristics	Cooling	Running current	(A)	2.00 - 9.25	2.88 - 11.5	3.65 - 21.5	5.85 - 24.6	5.70 - 30.45	1.85 - 10.4	
		Power consumption	(kW)	1.51	1.97	2.98	4.03	4.37	4.37	
		Power factor	(%)	94	94	94	95	96	92	
		EER		3.31	3.60	3.36	3.10	3.20	3.20	
		AEER		3.26	3.57	3.30	3.08	3.18	3.18	
	Heating	Running current	(A)	1.73 - 11.70	2.55 - 11.5	3.65 - 19.15	4.55 - 22.95	4.50 - 27.2	1.44 - 9.30	
		Power consumption	(kW)	1.43	2.00	2.80	3.88	4.57	4.57	
	Besides, ne Under ceiling	Power factor	(%)	96	94	94	96	96	92	
		COP		3.71	4.00	4.00	3.61	3.50	3.50	
		ACOP		3.64	3.96	3.97	3.59	3.48	3.48	
Indoor unit										
Appearance		Main unit		Zinc hot dipping hot steel						
Outer dimension		Main unit	Height	(mm)	275					
			Width	(mm)	700	1,000	1,400			
			Depth	(mm)	750					
Total weight		Main unit		(kg)	23	31	41			
Fan unit		Fan		Centrifugal fan						
		Air Flow	H/M/L	(m3/h)	1008-900-720	1700-1400-1000	2100-1650-1300	2200-1850-1500	2350-2000-1500	2350-2000-1500
External static pressure		Standard (Upper - Lower)		(Pa)	50 (150 - 30)					
Air filter				Standard filter (Long life filter)						
Sound pressure level			H/M/L	(dB)	38-34-32	40-37-32	40-37-32	41-38-33	42-39-33	42-39-33
Connecting pipe		Drain port		VP25						

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.

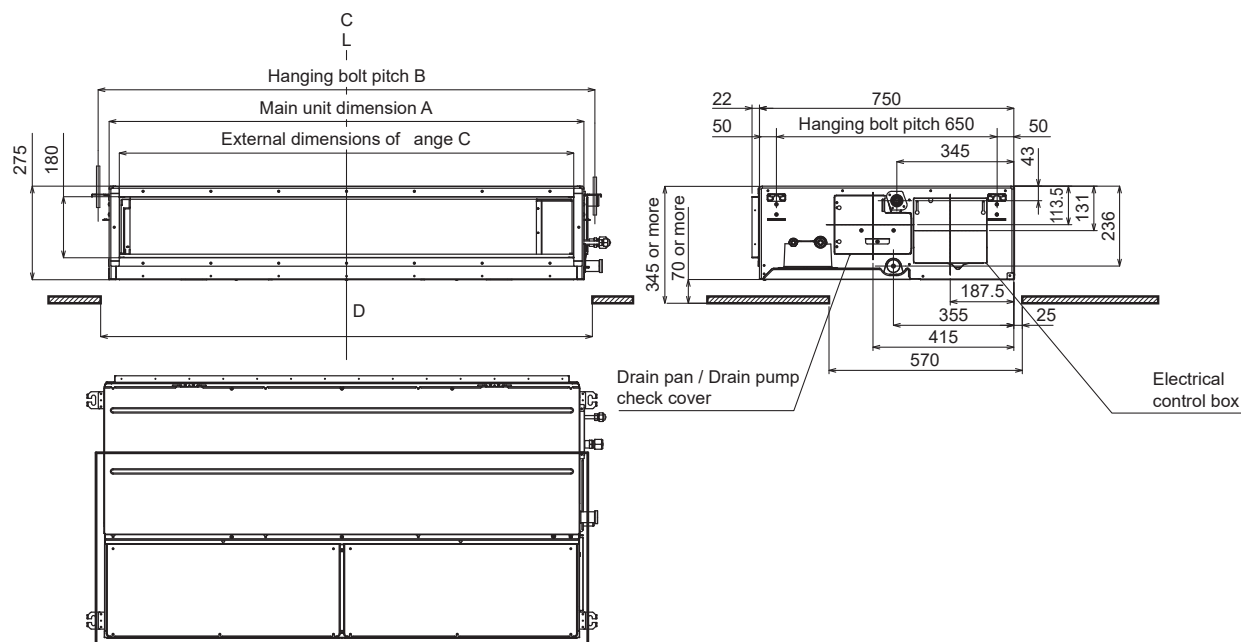
2 : The sound level are measured in an anechoic chamber in accordance with JIS B 8616. Normally, the values measured in the actual operating environment become larger than the indicated values due to the effects of external sound.

Note :

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

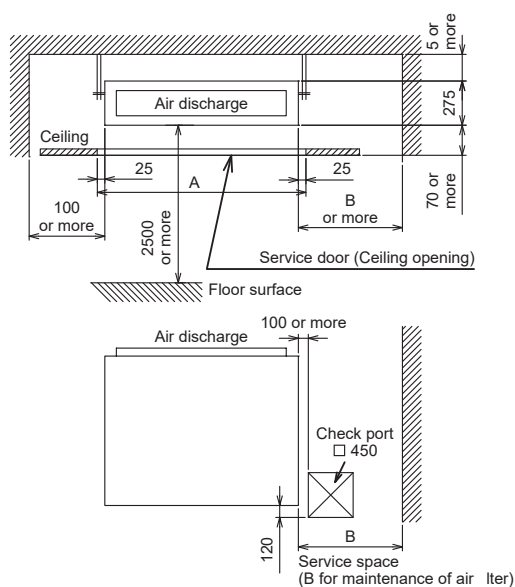
2-3-2. Dimension

RAV-GM*1BTP-A (*56 / 80 / 110 / 140 / 160)

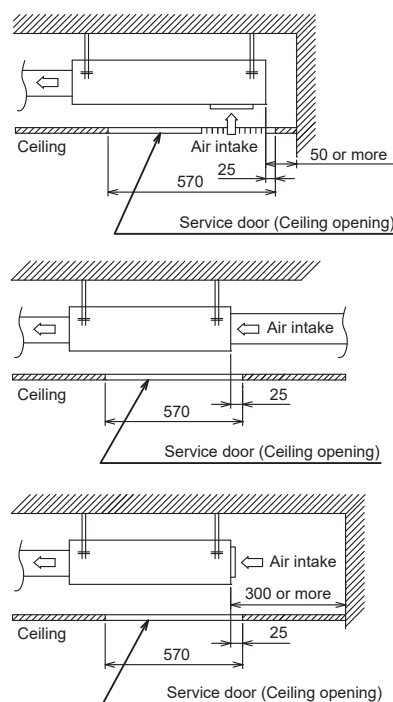


▼ Dimension

Model	A	B	C	D
GM56 type	700	765	640	750
GM80 type	1000	1065	940	1050
GM110, GM140, GM160 type	1400	1465	1340	1450



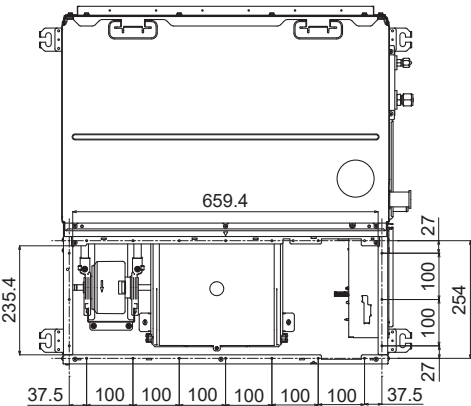
Model	A	B
GM56 type	750	700
GM80 type	1050	500
GM110, GM140, GM160 type	1450	700



Standard Duct

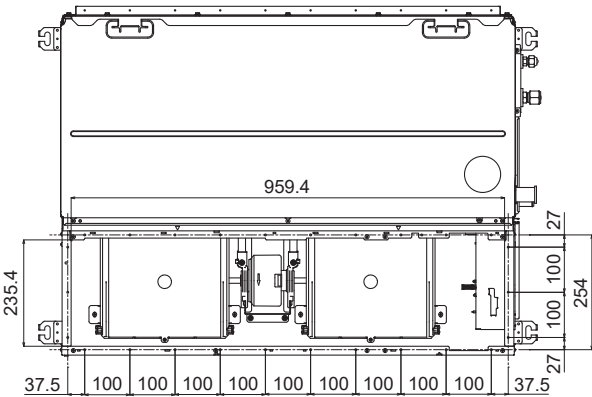
GM56

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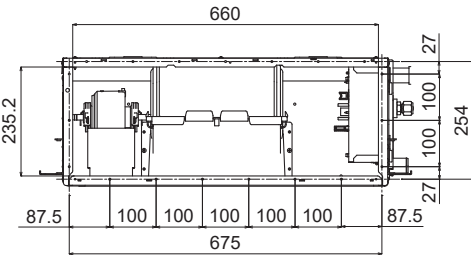


GM80

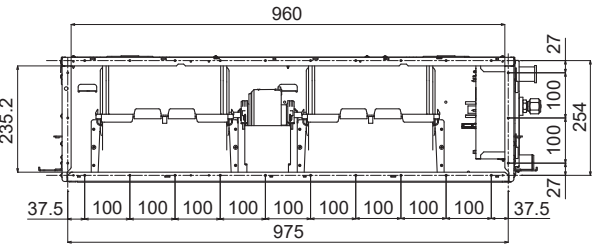
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<Back air intake>

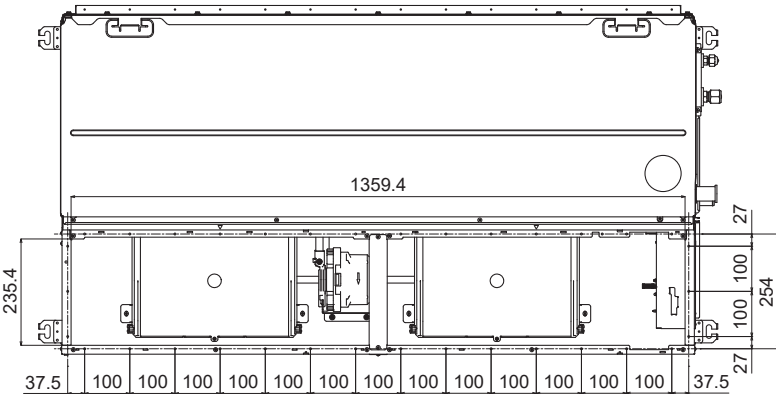


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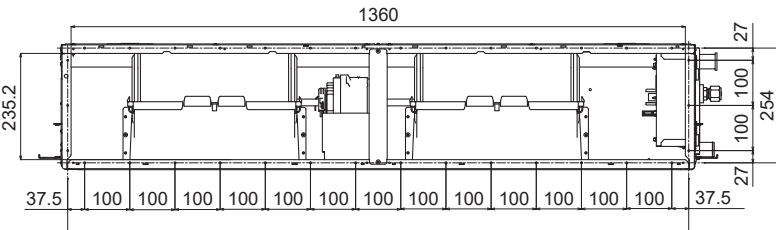


GM110, GM140, GM160

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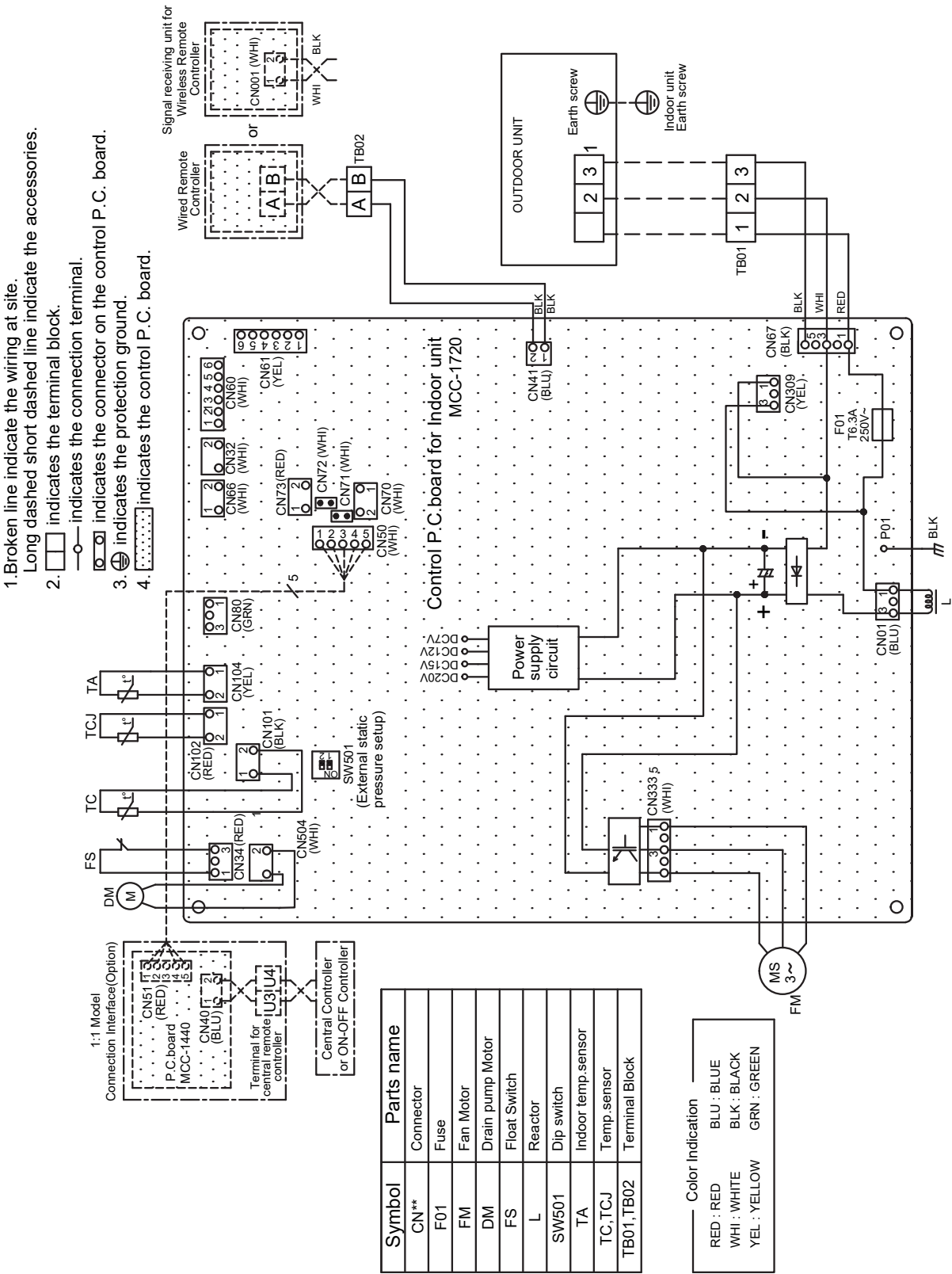


<Back air intake>



2-3-3. Wiring diagrams

RAV-GM*1BTP-A (*56 / 80 / 110 / 140 / 160)



2-3-4. Sensible Capacity Table

Product models : RAV-GM561BTP-A / RAV-GM561ATP-A

Standard Condition

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

Specification of product at standard condition.

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

Outdoor air temp. °C DB	Indoor Air temperature																	
	14.0 °C WB		15.0 °C WB		16.0 °C WB		17.0 °C WB		18.0 °C WB		19.0 °C WB		20.0 °C WB		22.0 °C WB		24.0 °C WB	
	20.0 °C DB		21.0 °C DB		23.0 °C DB		24.0 °C DB		26.0 °C DB		27.0 °C DB		28.0 °C DB		30.0 °C DB		32.0 °C DB	
	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
10.0	4.83	4.35	5.00	4.45	5.33	4.64	5.46	4.74	5.71	4.94	5.88	4.94	6.05	4.94	6.40	4.91	6.70	4.83
12.0	4.79	4.31	4.96	4.41	5.29	4.61	5.41	4.70	5.66	4.90	5.83	4.90	6.00	4.90	6.35	4.87	6.64	4.80
14.0	4.75	4.28	4.91	4.38	5.24	4.57	5.37	4.66	5.61	4.86	5.78	4.85	5.94	4.86	6.30	4.83	6.58	4.75
16.0	4.70	4.24	4.87	4.33	5.19	4.52	5.32	4.62	5.56	4.81	5.72	4.81	5.89	4.81	6.24	4.78	6.52	4.71
18.0	4.65	4.19	4.82	4.29	5.14	4.48	5.26	4.57	5.50	4.76	5.67	4.76	5.83	4.76	6.17	4.73	6.45	4.66
20.0	4.60	4.15	4.76	4.24	5.08	4.43	5.20	4.52	5.44	4.71	5.60	4.71	5.76	4.71	6.10	4.68	6.38	4.61
21.0	4.57	4.12	4.73	4.22	5.05	4.40	5.17	4.49	5.41	4.68	5.57	4.68	5.73	4.68	6.07	4.65	6.35	4.58
23.0	4.52	4.07	4.68	4.17	4.99	4.35	5.11	4.44	5.34	4.62	5.50	4.62	5.66	4.62	5.99	4.60	6.27	4.52
25.0	4.46	4.02	4.61	4.11	4.92	4.29	5.04	4.38	5.27	4.56	5.43	4.56	5.58	4.56	5.91	4.54	6.18	4.46
27.0	4.39	3.96	4.55	4.05	4.85	4.23	4.97	4.32	5.20	4.50	5.35	4.49	5.50	4.50	5.83	4.47	6.10	4.40
29.0	4.33	3.90	4.48	3.99	4.78	4.16	4.89	4.25	5.12	4.43	5.27	4.43	5.42	4.43	5.74	4.40	6.00	4.33
31.0	4.26	3.84	4.41	3.93	4.70	4.10	4.81	4.18	5.04	4.36	5.18	4.35	5.33	4.36	5.65	4.33	5.91	4.26
33.0	4.19	3.77	4.33	3.86	4.62	4.03	4.73	4.11	4.95	4.28	5.10	4.28	5.24	4.28	5.55	4.26	5.81	4.19
35.0	4.11	3.70	4.25	3.79	4.54	3.95	4.64	4.03	4.86	4.20	5.00	4.20	5.14	4.20	5.45	4.18	5.70	4.11
37.0	4.03	3.63	4.17	3.71	4.45	3.88	4.56	3.96	4.77	4.12	4.91	4.12	5.05	4.12	5.34	4.10	5.59	4.03
39.0	3.95	3.55	4.08	3.64	4.36	3.80	4.46	3.88	4.67	4.04	4.80	4.04	4.94	4.04	5.23	4.02	5.47	3.95
40.0	3.90	3.52	4.04	3.60	4.31	3.75	4.41	3.84	4.62	3.99	4.75	3.99	4.89	4.00	5.18	3.97	5.41	3.91
42.0	3.82	3.44	3.95	3.52	4.21	3.67	4.31	3.75	4.51	3.90	4.65	3.90	4.78	3.91	5.06	3.88	5.29	3.82
43.0	3.77	3.40	3.90	3.48	4.16	3.63	4.26	3.70	4.46	3.86	4.59	3.86	4.72	3.86	5.00	3.84	5.23	3.78
45.0	3.68	3.31	3.81	3.39	4.06	3.54	4.16	3.61	4.35	3.76	4.48	3.76	4.61	3.76	4.88	3.74	5.10	3.68
46.0	3.63	3.27	3.76	3.35	4.01	3.49	4.10	3.57	4.29	3.71	4.42	3.71	4.55	3.72	4.81	3.69	5.04	3.63

Product models : RAV-GM801BTP-A / RAV-GM801ATP-A

Standard Condition

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

Specification of product at standard condition.

Total Cooling Capacity (TC)	7.10 kW
Sensible Heat Capacity (SHC)	5.95 kW

Outdoor air temp. °C DB	Indoor Air temperature																	
	14.0 °C WB		15.0 °C WB		16.0 °C WB		17.0 °C WB		18.0 °C WB		19.0 °C WB		20.0 °C WB		22.0 °C WB		24.0 °C WB	
	20.0 °C DB		21.0 °C DB		23.0 °C DB		24.0 °C DB		26.0 °C DB		27.0 °C DB		28.0 °C DB		30.0 °C DB		32.0 °C DB	
	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
10.0	6.86	6.16	7.09	6.31	7.57	6.58	7.75	6.72	8.11	7.00	8.35	6.99	8.58	7.00	9.09	6.96	9.51	6.85
12.0	6.80	6.11	7.04	6.26	7.51	6.53	7.69	6.67	8.04	6.94	8.28	6.94	8.52	6.94	9.02	6.90	9.43	6.79
14.0	6.74	6.06	6.98	6.20	7.44	6.47	7.62	6.61	7.97	6.88	8.21	6.88	8.44	6.88	8.94	6.84	9.35	6.73
16.0	6.68	6.00	6.91	6.14	7.37	6.41	7.55	6.54	7.90	6.81	8.13	6.81	8.36	6.82	8.85	6.78	9.26	6.67
18.0	6.61	5.94	6.84	6.08	7.30	6.34	7.47	6.48	7.81	6.74	8.05	6.74	8.28	6.75	8.76	6.71	9.17	6.60
20.0	6.53	5.87	6.76	6.01	7.22	6.27	7.39	6.41	7.73	6.67	7.96	6.67	8.18	6.67	8.67	6.63	9.06	6.53
21.0	6.50	5.84	6.72	5.98	7.17	6.23	7.34	6.37	7.68	6.63	7.91	6.63	8.13	6.63	8.61	6.59	9.01	6.49
23.0	6.42	5.77	6.64	5.90	7.09	6.16	7.25	6.29	7.59	6.55	7.81	6.55	8.03	6.55	8.51	6.51	8.90	6.41
25.0	6.33	5.69	6.55	5.82	6.99	6.08	7.16	6.21	7.49	6.46	7.71	6.46	7.93	6.46	8.40	6.42	8.78	6.32
27.0	6.24	5.61	6.46	5.74	6.89	5.99	7.06	6.12	7.38	6.37	7.60	6.37	7.82	6.37	8.28	6.33	8.66	6.23
29.0	6.15	5.52	6.36	5.65	6.79	5.90	6.95	6.02	7.27	6.27	7.48	6.27	7.70	6.28	8.15	6.24	8.53	6.14
31.0	6.05	5.44	6.26	5.56	6.68	5.80	6.84	5.93	7.15	6.17	7.36	6.17	7.57	6.17	8.02	6.14	8.39	6.04
33.0	5.94	5.34	6.15	5.47	6.56	5.70	6.72	5.83	7.03	6.07	7.24	6.06	7.44	6.07	7.88	6.03	8.24	5.93
35.0	5.83	5.24	6.03	5.36	6.44	5.60	6.59	5.72	6.90	5.95	7.10	5.95	7.30	5.95	7.73	5.92	8.09	5.82
37.0	5.72	5.14	5.92	5.26	6.32	5.49	6.47	5.61	6.77	5.84	6.97	5.84	7.17	5.84	7.59	5.81	7.94	5.71
39.0	5.60	5.04	5.80	5.15	6.19	5.38	6.34	5.49	6.63	5.72	6.82	5.72	7.02	5.72	7.43	5.69	7.77	5.60
40.0	5.54	4.98	5.74	5.10	6.12	5.32	6.27	5.43	6.56	5.66	6.75	5.66	6.94	5.66	7.35	5.63	7.69	5.54
42.0	5.42	4.87	5.61	4.98	5.98	5.20	6.13	5.31	6.41	5.53	6.60	5.53	6.79	5.53	7.19	5.50	7.52	5.41
43.0	5.35	4.81	5.54	4.92	5.91	5.14	6.05	5.25	6.33	5.46	6.52	5.46	6.70	5.47	7.10	5.43	7.43	5.35
45.0	5.22	4.69	5.40	4.80	5.77	5.01	5.90	5.12	6.18	5.33	6.36	5.33	6.54	5.33	6.93	5.30	7.24	5.21
46.0	5.15	4.63	5.33	4.74	5.69	4.95	5.83	5.05	6.10	5.26	6.28	5.26	6.46	5.26	6.84	5.23	7.15	5.15

Product models : RAV-GM1101BTP-A / RAV-GM1101ATP-A

Standard Condition

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

Specification of product at standard condition.

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

Outdoor air temp. °C DB	Indoor Air temperature																	
	14.0 °C WB		15.0 °C WB		16.0 °C WB		17.0 °C WB		18.0 °C WB		19.0 °C WB		20.0 °C WB		22.0 °C WB		24.0 °C WB	
	20.0 °C DB		21.0 °C DB		23.0 °C DB		24.0 °C DB		26.0 °C DB		27.0 °C DB		28.0 °C DB		30.0 °C DB		32.0 °C DB	
	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
10.0	9.66	8.60	9.99	8.80	10.66	9.18	10.92	9.38	11.42	9.76	11.76	9.76	12.09	9.76	12.80	9.70	13.39	9.53
12.0	9.58	8.53	9.91	8.73	10.58	9.11	10.83	9.30	11.33	9.69	11.66	9.68	11.99	9.68	12.70	9.62	13.29	9.46
14.0	9.49	8.46	9.82	8.65	10.49	9.03	10.73	9.22	11.23	9.60	11.56	9.59	11.89	9.60	12.59	9.53	13.17	9.38
16.0	9.40	8.38	9.73	8.57	10.39	8.94	10.63	9.13	11.12	9.51	11.45	9.50	11.78	9.51	12.47	9.44	13.04	9.29
18.0	9.31	8.29	9.63	8.48	10.28	8.85	10.52	9.04	11.01	9.41	11.33	9.40	11.66	9.41	12.34	9.35	12.91	9.19
20.0	9.20	8.20	9.52	8.39	10.16	8.75	10.40	8.94	10.88	9.31	11.21	9.30	11.53	9.30	12.21	9.24	12.77	9.09
21.0	9.15	8.15	9.47	8.34	10.10	8.70	10.34	8.89	10.82	9.25	11.14	9.25	11.46	9.25	12.13	9.19	12.69	9.03
23.0	9.04	8.05	9.35	8.24	9.98	8.59	10.22	8.78	10.69	9.14	11.00	9.13	11.32	9.14	11.98	9.07	12.53	8.92
25.0	8.92	7.94	9.23	8.13	9.85	8.48	10.08	8.66	10.54	9.02	10.86	9.01	11.17	9.01	11.82	8.95	12.37	8.80
27.0	8.79	7.83	9.10	8.01	9.71	8.36	9.94	8.54	10.39	8.89	10.70	8.88	11.01	8.89	11.66	8.83	12.19	8.68
29.0	8.66	7.71	8.96	7.89	9.56	8.23	9.79	8.41	10.24	8.75	10.54	8.75	10.84	8.75	11.48	8.69	12.01	8.55
31.0	8.52	7.59	8.81	7.76	9.41	8.10	9.63	8.27	10.07	8.61	10.37	8.61	10.67	8.61	11.29	8.55	11.81	8.41
33.0	8.37	7.46	8.66	7.63	9.24	7.96	9.46	8.13	9.90	8.46	10.19	8.46	10.48	8.46	11.10	8.41	11.61	8.27
35.0	8.21	7.32	8.50	7.49	9.07	7.81	9.29	7.98	9.71	8.31	10.00	8.30	10.29	8.30	10.89	8.25	11.39	8.11
37.0	8.06	7.18	8.34	7.35	8.90	7.66	9.11	7.83	9.53	8.15	9.81	8.14	10.09	8.15	10.69	8.09	11.18	7.96
39.0	7.89	7.03	8.17	7.19	8.72	7.50	8.92	7.66	9.33	7.98	9.61	7.98	9.88	7.98	10.47	7.93	10.95	7.79
40.0	7.81	6.95	8.08	7.12	8.62	7.42	8.83	7.58	9.23	7.89	9.51	7.89	9.78	7.89	10.35	7.84	10.83	7.71
42.0	7.63	6.80	7.90	6.96	8.43	7.26	8.63	7.41	9.03	7.72	9.29	7.71	9.56	7.72	10.12	7.66	10.59	7.54
43.0	7.54	6.72	7.80	6.87	8.33	7.17	8.53	7.32	8.92	7.63	9.18	7.62	9.44	7.62	10.00	7.57	10.46	7.45
45.0	7.36	6.55	7.61	6.70	8.12	6.99	8.32	7.14	8.70	7.44	8.96	7.43	9.21	7.44	9.75	7.39	10.20	7.26
46.0	7.26	6.47	7.51	6.62	8.02	6.90	8.21	7.05	8.59	7.34	8.84	7.34	9.09	7.34	9.63	7.29	10.07	7.17

Product models : RAV-GM1401BTP-A / RAV-GM1401ATP-A

Standard Condition

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

Specification of product at standard condition.

Total Cooling Capacity (TC)	12.50 kW
Sensible Heat Capacity (SHC)	10.15 kW

Outdoor air temp. °C DB	Indoor Air temperature																	
	14.0 °C WB		15.0 °C WB		16.0 °C WB		17.0 °C WB		18.0 °C WB		19.0 °C WB		20.0 °C WB		22.0 °C WB		24.0 °C WB	
	20.0 °C DB		21.0 °C DB		23.0 °C DB		24.0 °C DB		26.0 °C DB		27.0 °C DB		28.0 °C DB		30.0 °C DB		32.0 °C DB	
	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
10.0	12.07	10.53	12.49	10.78	13.33	11.24	13.64	11.48	14.27	11.95	14.69	11.93	15.11	11.93	16.01	11.83	16.74	11.62
12.0	11.97	10.45	12.39	10.69	13.22	11.15	13.54	11.38	14.16	11.85	14.58	11.84	14.99	11.83	15.88	11.74	16.61	11.52
14.0	11.87	10.36	12.28	10.60	13.11	11.05	13.42	11.28	14.04	11.75	14.45	11.73	14.86	11.73	15.74	11.63	16.46	11.42
16.0	11.76	10.26	12.16	10.50	12.98	10.94	13.29	11.18	13.90	11.64	14.31	11.62	14.72	11.62	15.59	11.52	16.30	11.31
18.0	11.63	10.15	12.04	10.39	12.85	10.83	13.15	11.06	13.76	11.52	14.16	11.50	14.57	11.50	15.43	11.40	16.14	11.20
20.0	11.50	10.04	11.90	10.27	12.71	10.71	13.01	10.94	13.61	11.39	14.01	11.37	14.41	11.37	15.26	11.28	15.96	11.07
21.0	11.44	9.98	11.83	10.21	12.63	10.65	12.93	10.87	13.53	11.32	13.92	11.31	14.32	11.30	15.17	11.21	15.86	11.01
23.0	11.30	9.86	11.69	10.09	12.47	10.52	12.77	10.74	13.36	11.18	13.75	11.17	14.14	11.16	14.98	11.07	15.67	10.87
25.0	11.15	9.73	11.53	9.95	12.31	10.38	12.60	10.60	13.18	11.03	13.57	11.02	13.96	11.02	14.78	10.93	15.46	10.73
27.0	10.99	9.59	11.37	9.81	12.13	10.23	12.42	10.45	12.99	10.88	13.38	10.86	13.76	10.86	14.57	10.77	15.24	10.57
29.0	10.82	9.44	11.20	9.66	11.95	10.07	12.23	10.29	12.80	10.71	13.17	10.70	13.55	10.70	14.35	10.61	15.01	10.41
31.0	10.65	9.29	11.02	9.51	11.76	9.91	12.04	10.12	12.59	10.54	12.96	10.52	13.33	10.52	14.12	10.44	14.77	10.25
33.0	10.46	9.13	10.83	9.34	11.56	9.74	11.83	9.95	12.37	10.36	12.74	10.34	13.10	10.34	13.88	10.26	14.51	10.07
35.0	10.27	8.96	10.62	9.17	11.34	9.56	11.61	9.76	12.14	10.16	12.50	10.15	12.86	10.15	13.62	10.07	14.24	9.88
37.0	10.07	8.79	10.42	8.99	11.12	9.38	11.39	9.58	11.91	9.97	12.26	9.96	12.61	9.96	13.36	9.87	13.97	9.70
39.0	9.87	8.61	10.21	8.81	10.90	9.18	11.15	9.38	11.67	9.77	12.01	9.75	12.35	9.75	13.08	9.67	13.68	9.50
40.0	9.76	8.52	10.10	8.71	10.78	9.09	11.03	9.28	11.54	9.66	11.88	9.65	12.22	9.65	12.94	9.57	13.54	9.39
42.0	9.54	8.33	9.87	8.52	10.53	8.88	10.78	9.07	11.28	9.44	11.61	9.43	11.95	9.43	12.65	9.35	13.23	9.18
43.0	9.43	8.23	9.75	8.42	10.41	8.78	10.66	8.96	11.15	9.33	11.48	9.32	11.80	9.32	12.50	9.24	13.07	9.07
45.0	9.19	8.02	9.51	8.21	10.15	8.56	10.39	8.74	10.87	9.10	11.19	9.09	11.51	9.09	12.19	9.01	12.75	8.85
46.0	9.08	7.92	9.39	8.10	10.02	8.45	10.26	8.63	10.73	8.98	11.05	8.97	11.36	8.97	12.04	8.90	12.59	8.73

Product models : RAV-GM1601BTP-A / RAV-GP1601AT(8)P-A

Standard Condition

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

Specification of product at standard condition.

Total Cooling Capacity (TC)	14.00 kW
Sensible Heat Capacity (SHC)	11.20 kW

Outdoor air temp. °C DB	Indoor Air temperature																	
	14.0 °C WB		15.0 °C WB		16.0 °C WB		17.0 °C WB		18.0 °C WB		19.0 °C WB		20.0 °C WB		22.0 °C WB		24.0 °C WB	
	20.0 °C DB		21.0 °C DB		23.0 °C DB		24.0 °C DB		26.0 °C DB		27.0 °C DB		28.0 °C DB		30.0 °C DB		32.0 °C DB	
	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
10.0	13.52	11.64	13.99	11.90	14.93	12.41	15.28	12.67	15.99	13.19	16.46	13.17	16.93	13.16	17.93	13.04	18.75	12.79
12.0	13.41	11.54	13.88	11.81	14.81	12.31	15.16	12.57	15.86	13.08	16.33	13.06	16.79	13.05	17.78	12.93	18.60	12.68
14.0	13.29	11.44	13.75	11.70	14.68	12.20	15.03	12.46	15.72	12.97	16.18	12.95	16.65	12.94	17.63	12.82	18.44	12.57
16.0	13.17	11.33	13.62	11.59	14.54	12.08	14.88	12.34	15.57	12.85	16.03	12.82	16.49	12.82	17.46	12.70	18.26	12.45
18.0	13.03	11.22	13.48	11.47	14.39	11.96	14.73	12.21	15.41	12.71	15.86	12.69	16.32	12.68	17.28	12.57	18.07	12.32
20.0	12.89	11.09	13.33	11.34	14.23	11.82	14.57	12.08	15.24	12.57	15.69	12.55	16.14	12.54	17.09	12.43	17.87	12.19
21.0	12.81	11.03	13.25	11.28	14.15	11.76	14.48	12.00	15.15	12.50	15.59	12.48	16.04	12.47	16.99	12.35	17.77	12.12
23.0	12.65	10.89	13.09	11.14	13.97	11.61	14.30	11.86	14.96	12.34	15.40	12.32	15.84	12.31	16.78	12.20	17.55	11.97
25.0	12.48	10.75	12.92	10.99	13.79	11.46	14.11	11.70	14.76	12.18	15.20	12.16	15.63	12.15	16.55	12.04	17.31	11.81
27.0	12.31	10.59	12.73	10.83	13.59	11.29	13.91	11.53	14.55	12.01	14.98	11.99	15.41	11.98	16.32	11.87	17.07	11.64
29.0	12.12	10.43	12.54	10.67	13.38	11.12	13.70	11.36	14.33	11.82	14.75	11.80	15.18	11.80	16.07	11.69	16.81	11.46
31.0	11.92	10.26	12.34	10.50	13.17	10.94	13.48	11.18	14.10	11.63	14.52	11.61	14.93	11.61	15.81	11.50	16.54	11.28
33.0	11.72	10.09	12.13	10.32	12.94	10.75	13.25	10.98	13.86	11.43	14.27	11.41	14.68	11.41	15.54	11.30	16.25	11.08
35.0	11.50	9.90	11.90	10.12	12.70	10.55	13.00	10.78	13.60	11.22	14.00	11.20	14.40	11.19	15.25	11.09	15.95	10.88
37.0	11.28	9.71	11.67	9.93	12.46	10.35	12.75	10.57	13.34	11.01	13.74	10.99	14.13	10.98	14.96	10.88	15.65	10.67
39.0	11.05	9.51	11.43	9.73	12.20	10.14	12.49	10.36	13.07	10.78	13.45	10.76	13.84	10.76	14.65	10.66	15.33	10.45
40.0	10.93	9.41	11.31	9.62	12.07	10.03	12.36	10.24	12.93	10.66	13.31	10.65	13.69	10.64	14.50	10.54	15.16	10.34
42.0	10.68	9.20	11.06	9.41	11.80	9.80	12.08	10.01	12.64	10.42	13.01	10.41	13.38	10.40	14.17	10.30	14.82	10.11
43.0	10.56	9.09	10.92	9.30	11.66	9.69	11.94	9.89	12.49	10.30	12.85	10.28	13.22	10.28	14.00	10.18	14.64	9.99
45.0	10.30	8.86	10.66	9.07	11.37	9.45	11.64	9.65	12.18	10.05	12.54	10.03	12.90	10.02	13.66	9.93	14.28	9.74
46.0	10.16	8.75	10.52	8.95	11.22	9.33	11.49	9.53	12.02	9.92	12.37	9.90	12.73	9.89	13.48	9.80	14.10	9.61

Combination

Indoor: RAV-GM801BTP-A

Outdoor: RAV-GM801ATP-A

Operation range	Cooling		Heating	
	Q	P	Q	P
MINIMUM	W 1500	450	1500	400
RATING	W 7100	1970	8000	2000
MAXIMUM	W 8000	2400	9000	2400

Outdoor Temperature DB (°C)		Parts Load (%)																			
		100		90		80		70		60		50		40		30		20		10	
		Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P
20		8467	1546	7620	1395	6773	1244	5927	1093	5080	941	4233	790	3387	639	2540	487	1789	353	1789	353
21		8376	1575	7538	1421	6701	1267	5863	1113	5025	959	4188	804	3350	650	2513	496	1770	360	1770	360
22		8285	1603	7456	1446	6628	1289	5799	1133	4971	976	4142	819	3314	662	2485	505	1750	366	1750	366
23		8193	1631	7374	1472	6555	1312	5735	1152	4916	993	4097	833	3277	674	2458	514	1731	373	1731	373
24		8102	1659	7292	1497	6482	1335	5672	1172	4861	1010	4051	848	3241	685	2431	523	1712	379	1712	379
25		8011	1688	7210	1523	6409	1357	5608	1192	4807	1027	4006	862	3204	697	2403	532	1693	386	1693	386
26		7920	1716	7128	1548	6336	1380	5544	1212	4752	1044	3960	877	3168	709	2376	541	1673	392	1673	392
27		7829	1744	7046	1573	6263	1403	5480	1232	4697	1062	3914	891	3132	720	2349	550	1654	398	1654	398
28		7738	1772	6964	1599	6190	1426	5416	1252	4643	1079	3869	905	3095	732	2321	559	1635	405	1635	405
29		7647	1801	6882	1624	6117	1448	5353	1272	4588	1096	3823	920	3059	744	2294	568	1616	411	1616	411
30		7556	1829	6800	1650	6044	1471	5289	1292	4533	1113	3778	934	3022	755	2267	576	1596	418	1596	418
31		7464	1857	6718	1675	5972	1494	5225	1312	4479	1130	3732	949	2986	767	2239	585	1577	424	1577	424
32		7373	1885	6636	1701	5899	1516	5161	1332	4424	1148	3687	963	2949	779	2212	594	1558	431	1558	431
33		7282	1914	6554	1726	5826	1539	5098	1352	4369	1165	3641	978	2913	790	2185	603	1539	437	1539	437
34		7191	1942	6472	1752	5753	1562	5034	1372	4315	1182	3596	992	2876	802	2157	612	1519	444	1519	444
35		7100	1970	6390	1777	5680	1585	4970	1392	4260	1199	3550	1006	2840	814	2130	621	1500	450	1500	450
36		7009	1998	6308	1803	5607	1607	4906	1412	4205	1216	3504	1021	2804	825	2103	630	1481	456	1481	456
37		6918	2026	6226	1828	5534	1630	4842	1432	4151	1234	3459	1035	2767	837	2075	639	1462	463	1462	463
38		6827	2055	6144	1854	5461	1653	4779	1452	4096	1251	3413	1050	2731	849	2048	648	1442	469	1442	469
39		6736	2083	6062	1879	5388	1675	4715	1472	4041	1268	3368	1064	2694	860	2021	657	1423	476	1423	476
40		6644	2111	5980	1905	5316	1698	4651	1492	3987	1285	3322	1079	2658	872	1993	666	1404	482	1404	482
41		6553	2139	5898	1930	5243	1721	4587	1512	3932	1302	3277	1093	2621	884	1966	674	1385	489	1385	489
42		6462	2168	5816	1956	5170	1744	4524	1532	3877	1319	3231	1107	2585	895	1939	683	1365	495	1365	495
43		6371	2196	5734	1981	5097	1766	4460	1551	3823	1337	3186	1122	2548	907	1911	692	1346	502	1346	502
44		6280	2224	5652	2007	5024	1789	4396	1571	3768	1354	3140	1136	2512	919	1884	701	1327	508	1327	508
45		6189	2252	5570	2032	4951	1812	4332	1591	3713	1371	3094	1151	2476	930	1857	710	1308	515	1308	515
46		6098	2281	5488	2058	4878	1834	4268	1611	3659	1388	3049	1165	2439	942	1829	719	1288	521	1288	521

Heating		Parts Load (%)																			
Outdoor Temperature DB (°C)	100		90		80		70		60		50		40		30		20		10		
	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	
-15	4638	1301	4174	1173	3710	1045	3246	917	2783	789	2319	661	1855	533	1391	404	928	276	870	260	
-14	4707	1301	4237	1173	3766	1045	3295	917	2824	789	2354	661	1883	533	1412	404	941	276	883	260	
-13	4777	1301	4299	1173	3821	1045	3344	917	2866	789	2388	661	1911	533	1433	404	955	276	896	260	
-12	4846	1301	4362	1173	3877	1045	3392	917	2908	789	2423	661	1939	533	1454	404	969	276	909	260	
-11	4916	1301	4424	1173	3933	1045	3441	917	2950	789	2458	661	1966	533	1475	404	983	276	922	260	
-10	4986	1301	4487	1173	3988	1045	3490	917	2991	789	2493	661	1994	533	1496	404	997	276	935	260	
-9	5055	1301	4550	1173	4044	1045	3539	917	3033	789	2528	661	2022	533	1517	404	1011	276	948	260	
-8	5125	1301	4612	1173	4100	1045	3587	917	3075	789	2562	661	2050	533	1537	404	1025	276	961	260	
-7	5194	1301	4675	1173	4155	1045	3636	917	3117	789	2597	661	2078	533	1558	404	1039	276	974	260	
-6	5261	1353	4735	1220	4209	1087	3683	954	3157	820	2631	687	2104	554	1578	421	1052	287	986	271	
-5	5328	1406	4795	1267	4263	1129	3730	990	3197	852	2664	714	2131	575	1598	437	1066	298	999	281	
-4	5395	1458	4856	1314	4316	1171	3777	1027	3237	884	2698	740	2158	596	1619	453	1079	309	1012	292	
-3	5462	1510	4916	1361	4370	1212	3824	1064	3277	915	2731	766	2185	618	1639	469	1092	321	1024	302	
-2	5529	1562	4976	1408	4423	1254	3870	1100	3317	947	2765	793	2212	639	1659	485	1106	332	1037	312	
-1	5596	1614	5037	1455	4477	1296	3917	1137	3358	978	2798	819	2238	660	1679	502	1119	343	1049	323	
0	5663	1666	5097	1502	4530	1338	3964	1174	3398	1010	2832	846	2265	682	1699	518	1133	354	1062	333	
1	5730	1718	5157	1549	4584	1380	4011	1210	3438	1041	2865	872	2292	703	1719	534	1146	365	1074	344	
2	5797	1770	5217	1596	4638	1421	4058	1247	3478	1073	2899	899	2319	724	1739	550	1159	376	1087	354	
3	5892	1794	5303	1617	4714	1440	4124	1264	3535	1087	2946	911	2357	734	1768	557	1178	381	1105	359	
4	5987	1818	5388	1639	4790	1460	4191	1281	3592	1102	2994	923	2395	744	1796	565	1197	386	1123	364	
5	6082	1841	5474	1660	4866	1479	4257	1297	3649	1116	3041	935	2433	754	1825	572	1216	391	1140	368	
6	7794	1969	7014	1775	6235	1581	5455	1387	4676	1194	3897	1000	3117	806	2338	612	1559	418	1461	394	
7	8000	2000	7200	1803	6400	1606	5600	1409	4800	1212	4000	1015	3200	818	2400	622	1600	425	1500	400	
8	8206	2031	7386	1831	6565	1631	5745	1431	4924	1231	4103	1031	3283	831	2462	631	1641	431	1539	406	
9	8413	2062	7572	1859	6730	1656	5889	1453	5048	1250	4206	1047	3365	844	2524	641	1683	438	1577	412	
10	8619	2093	7757	1887	6895	1681	6034	1475	5172	1269	4310	1063	3448	856	2586	650	1724	444	1616	419	
11	8826	2124	7943	1915	7061	1706	6178	1497	5295	1287	4413	1078	3530	869	2648	660	1765	451	1655	425	
12	9032	2155	8129	1943	7226	1731	6323	1518	5419	1306	4516	1094	3613	882	2710	670	1806	457	1694	431	
13	9239	2186	8315	1971	7391	1755	6467	1540	5543	1325	4619	1110	3695	894	2772	679	1848	464	1732	437	
14	9445	2217	8501	1999	7556	1780	6612	1562	5667	1344	4723	1125	3778	907	2834	689	1889	471	1771	443	
15	9652	2248	8686	2026	7721	1805	6756	1584	5791	1362	4826	1141	3861	920	2895	699	1930	477	1810	450	
16	9858	2279	8872	2054	7886	1830	6901	1606	5915	1381	4929	1157	3943	933	2957	708	1972	484	1848	456	
17	10065	2310	9058	2082	8052	1855	7045	1627	6039	1400	5032	1173	4026	945	3019	718	2013	490	1887	462	
18	10271	2341	9244	2110	8217	1880	7190	1649	6163	1419	5135	1188	4108	958	3081	727	2054	497	1926	468	
19	10477	2372	9430	2138	8382	1905	7334	1671	6286	1438	5239	1204	4191	971	3143	737	2095	504	1965	474	
20	10684	2403	9615	2166	8547	1929	7479	1693	6410	1456	5342	1220	4274	983	3205	747	2137	510	2003	481	
21	10890	2434	9801	2194	8712	1954	7623	1715	6534	1475	5445	1235	4356	996	3267	756	2178	517	2042	487	
22	11097	2465	9987	2222	8877	1979	7768	1737	6658	1494	5548	1251	4439	1009	3329	766	2219	523	2081	493	
23	11303	2495	10173	2250	9043	2004	7912	1758	6782	1513	5652	1267	4521	1021	3391	776	2261	530	2119	499	
24	11510	2526	10359	2278	9208	2029	8057	1780	6906	1531	5755	1283	4604	1034	3453	785	2302	536	2158	505	

Combination

Indoor: RAV-GM1101BTP-A

Outdoor: RAV-GM1101ATP-A

Operation range		Cooling		Heating	
		Q	P	Q	P
MINIMUM	W	3000	600	3000	600
RATING	W	10000	2980	11200	2800
MAXIMUM	W	11200	4500	13000	4000

Outdoor Temperature DB (°C)	Parts Load (%)																			
	100		90		80		70		60		50		40		30		20		10	
	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P
20	11925	2339	10733	2072	9540	1806	8348	1539	7155	1272	5963	1005	4770	738	3578	471	3578	471	3578	471
21	11797	2382	10617	2110	9437	1838	8258	1567	7078	1295	5898	1023	4719	751	3539	480	3539	480	3539	480
22	11668	2425	10502	2148	9335	1871	8168	1595	7001	1318	5834	1041	4667	765	3501	488	3501	488	3501	488
23	11540	2467	10386	2186	9232	1904	8078	1623	6924	1341	5770	1060	4616	778	3462	497	3462	497	3462	497
24	11412	2510	10271	2224	9129	1937	7988	1651	6847	1365	5706	1078	4565	792	3424	505	3424	505	3424	505
25	11283	2553	10155	2262	9027	1970	7898	1679	6770	1388	5642	1097	4513	805	3385	514	3385	514	3385	514
26	11155	2596	10040	2299	8924	2003	7809	1707	6693	1411	5578	1115	4462	819	3347	523	3347	523	3347	523
27	11027	2638	9924	2337	8821	2036	7719	1735	6616	1434	5513	1133	4411	832	3308	531	3308	531	3308	531
28	10898	2681	9809	2375	8719	2069	7629	1763	6539	1457	5449	1152	4359	846	3270	540	3270	540	3270	540
29	10770	2724	9693	2413	8616	2102	7539	1791	6462	1481	5385	1170	4308	859	3231	548	3231	548	3231	548
30	10642	2766	9578	2451	8513	2135	7449	1820	6385	1504	5321	1188	4257	873	3193	557	3193	557	3193	557
31	10513	2809	9462	2489	8411	2168	7359	1848	6308	1527	5257	1207	4205	886	3154	566	3154	566	3154	566
32	10385	2852	9347	2526	8308	2201	7270	1876	6231	1550	5193	1225	4154	900	3116	574	3116	574	3116	574
33	10257	2895	9231	2564	8205	2234	7180	1904	6154	1574	5128	1243	4103	913	3077	583	3077	583	3077	583
34	10128	2937	9116	2602	8103	2267	7090	1932	6077	1597	5064	1262	4051	927	3039	591	3039	591	3039	591
35	10000	2980	9000	2640	8000	2300	7000	1960	6000	1620	5000	1280	4000	940	3000	600	3000	600	3000	600
36	9872	3023	8885	2678	7897	2333	6910	1988	5923	1643	4936	1298	3949	953	2962	609	2962	609	2962	609
37	9743	3065	8769	2716	7795	2366	6820	2016	5846	1666	4872	1317	3897	967	2923	617	2923	617	2923	617
38	9615	3108	8654	2754	7692	2399	6731	2044	5769	1690	4808	1335	3846	980	2885	626	2885	626	2885	626
39	9487	3151	8538	2791	7589	2432	6641	2072	5692	1713	4743	1353	3795	994	2846	634	2846	634	2846	634
40	9358	3194	8423	2829	7487	2465	6551	2100	5615	1736	4679	1372	3743	1007	2808	643	2808	643	2808	643
41	9230	3236	8307	2867	7384	2498	6461	2129	5538	1759	4615	1390	3692	1021	2769	652	2769	652	2769	652
42	9102	3279	8192	2905	7281	2531	6371	2157	5461	1783	4551	1408	3641	1034	2731	660	2731	660	2731	660
43	8973	3322	8076	2943	7179	2564	6281	2185	5384	1806	4487	1427	3589	1048	2692	669	2692	669	2692	669
44	8845	3364	7961	2981	7076	2597	6192	2213	5307	1829	4423	1445	3538	1061	2654	677	2654	677	2654	677
45	8717	3407	7845	3018	6973	2630	6102	2241	5230	1852	4358	1463	3487	1075	2615	686	2615	686	2615	686
46	8588	3450	7730	3056	6871	2663	6012	2269	5153	1875	4294	1482	3435	1088	2577	695	2577	695	2577	695

Heating																					
Outdoor Temperature DB (°C)	Parts Load (%)																				
	100		90		80		70		60		50		40		30		20		10		
	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	
-15	6493	607	5843	542	5194	477	4545	412	3896	347	3246	281	2597	216	1948	151	1739	130	1739	130	
-14	6590	653	5931	583	5272	513	4613	443	3954	373	3295	303	2636	232	1977	162	1765	140	1765	140	
-13	6688	698	6019	623	5350	549	4681	474	4013	399	3344	324	2675	249	2006	174	1791	150	1791	150	
-12	6785	744	6106	664	5428	584	4749	504	4071	425	3392	345	2714	265	2035	185	1817	159	1817	159	
-11	6882	790	6194	705	5506	620	4818	535	4129	451	3441	366	2753	281	2065	196	1843	169	1843	169	
-10	6980	835	6282	745	5584	656	4886	566	4188	477	3490	387	2792	297	2094	208	1870	179	1870	179	
-9	7077	881	6369	786	5662	692	4954	597	4246	503	3539	408	2831	314	2123	219	1896	189	1896	189	
-8	7174	926	6457	827	5740	727	5022	628	4305	529	3587	429	2870	330	2152	230	1922	198	1922	198	
-7	7272	972	6545	867	5818	763	5090	659	4363	555	3636	450	2909	346	2182	242	1948	208	1948	208	
-6	7366	1139	6629	1017	5893	895	5156	772	4419	650	3683	528	2946	406	2210	283	1973	244	1973	244	
-5	7459	1306	6714	1166	5968	1026	5222	886	4476	746	3730	605	2984	465	2238	325	1998	280	1998	280	
-4	7553	1474	6798	1316	6043	1157	5287	999	4532	841	3777	683	3021	525	2266	367	2023	316	2023	316	
-3	7647	1641	6882	1465	6118	1289	5353	1113	4588	937	3824	761	3059	584	2294	408	2048	352	2048	352	
-2	7741	1808	6967	1614	6193	1420	5419	1226	4644	1032	3870	838	3096	644	2322	450	2073	388	2073	388	
-1	7835	1976	7051	1764	6268	1552	5484	1340	4701	1128	3917	916	3134	704	2350	492	2099	423	2099	423	
0	7928	2143	7136	1913	6343	1683	5550	1453	4757	1223	3964	993	3171	763	2379	533	2124	459	2124	459	
1	8022	2311	7220	2063	6418	1815	5616	1567	4813	1319	4011	1071	3209	823	2407	575	2149	495	2149	495	
2	8116	2478	7304	2212	6493	1946	5681	1680	4870	1414	4058	1148	3246	882	2435	616	2174	531	2174	531	
3	8249	2511	7424	2242	6599	1972	5774	1703	4949	1433	4124	1164	3300	894	2475	625	2210	538	2210	538	
4	8382	2545	7544	2271	6705	1998	5867	1725	5029	1452	4191	1179	3353	906	2515	633	2245	545	2245	545	
5	8515	2578	7663	2301	6812	2025	5960	1748	5109	1471	4257	1195	3406	918	2554	641	2281	552	2281	552	
6	10911	2757	9820	2461	8729	2165	7638	1869	6547	1573	5455	1277	4364	982	3273	686	2923	591	2923	591	
7	11200	2800	10080	2500	8960	2199	7840	1899	6720	1598	5600	1298	4480	997	3360	697	3000	600	3000	600	
8	11489	2843	10340	2538	9191	2233	8042	1928	6893	1623	5745	1318	4596	1013	3447	707	3077	609	3077	609	
9	11778	2887	10600	2577	9422	2267	8245	1957	7067	1648	5889	1338	4711	1028	3533	718	3155	619	3155	619	
10	12067	2930	10860	2616	9654	2301	8447	1987	7240	1672	6034	1358	4827	1043	3620	729	3232	628	3232	628	
11	12356	2973	11121	2654	9885	2335	8649	2016	7414	1697	6178	1378	4942	1059	3707	740	3310	637	3310	637	
12	12645	3017	11381	2693	10116	2369	8852	2046	7587	1722	6323	1398	5058	1074	3794	751	3387	646	3387	646	
13	12934	3060	11641	2732	10347	2403	9054	2075	7761	1747	6467	1418	5174	1090	3880	761	3465	656	3465	656	
14	13223	3103	11901	2770	10579	2437	9256	2104	7934	1771	6612	1438	5289	1105	3967	772	3542	665	3542	665	
15	13512	3147	12161	2809	10810	2471	9459	2134	8107	1796	6756	1458	5405	1121	4054	783	3619	674	3619	674	
16	13801	3190	12421	2848	11041	2505	9661	2163	8281	1821	6901	1478	5521	1136	4140	794	3697	684	3697	684	
17	14090	3234	12681	2887	11272	2540	9863	2193	8454	1845	7045	1498	5636	1151	4227	804	3774	693	3774	693	
18	14379	3277	12941	2925	11503	2574	10066	2222	8628	1870	7190	1519	5752	1167	4314	815	3852	702	3852	702	
19	14668	3320	13202	2964	11735	2608	10268	2251	8801	1895	7334	1539	5867	1182	4401	826	3929	711	3929	711	
20	14957	3364	13462	3003	11966	2642	10470	2281	8974	1920	7479	1559	5983	1198	4487	837	4006	721	4006	721	
21	15246	3407	13722	3041	12197	2676	10673	2310	9148	1944	7623	1579	6099	1213	4574	848	4084	730	4084	730	
22	15535	3450	13982	3080	12428	2710	10875	2339	9321	1969	7768	1599	6214	1229	4661	858	4161	739	4161	739	
23	15825	3494	14242	3119	12660	2744	11077	2369	9495	1994	7912	1619	6330	1244	4747	869	4239	749	4239	749	
24	16114	3537	14502	3157	12891	2778	11279	2398	9668	2019	8057	1639	6445	1260	4834	880	4316	758	4316	758	

Combination

Indoor: RAV-GM1401BTP-A
Outdoor: RAV-GM1401ATP-A

Operation range	Cooling		Heating	
	Q	P	Q	P
MINIMUM	W 3000	950	3000	720
RATING	W 12500	4030	14000	3880
MAXIMUM	W 14000	5200	16000	4850

Cooling

Outdoor Temperature DB (°C)	Parts Load (%)																			
	100		90		80		70		60		50		40		30		20		10	
	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P
20	14906	3164	13416	2845	11925	2527	10434	2209	8944	1891	7453	1573	5963	1255	4472	937	3578	746	3578	746
21	14746	3221	13271	2897	11797	2573	10322	2249	8848	1926	7373	1602	5898	1278	4424	954	3539	759	3539	759
22	14585	3279	13127	2949	11668	2620	10210	2290	8751	1960	7293	1630	5834	1301	4376	971	3501	773	3501	773
23	14425	3337	12983	3001	11540	2666	10098	2330	8655	1995	7213	1659	5770	1323	4328	988	3462	787	3462	787
24	14265	3395	12838	3053	11412	2712	9985	2371	8559	2029	7132	1688	5706	1346	4279	1005	3424	800	3424	800
25	14104	3452	12694	3105	11283	2758	9873	2411	8463	2064	7052	1716	5642	1369	4231	1022	3385	814	3385	814
26	13944	3510	12549	3157	11155	2804	9761	2451	8366	2098	6972	1745	5578	1392	4183	1039	3347	827	3347	827
27	13783	3568	12405	3209	11027	2850	9648	2492	8270	2133	6892	1774	5513	1415	4135	1056	3308	841	3308	841
28	13623	3626	12261	3261	10898	2896	9536	2532	8174	2167	6811	1803	5449	1438	4087	1073	3270	855	3270	855
29	13463	3683	12116	3313	10770	2943	9424	2572	8078	2202	6731	1831	5385	1461	4039	1091	3231	868	3231	868
30	13302	3741	11972	3365	10642	2989	9311	2613	7981	2236	6651	1860	5321	1484	3991	1108	3193	882	3193	882
31	13142	3799	11828	3417	10513	3035	9199	2653	7885	2271	6571	1889	5257	1507	3943	1125	3154	896	3154	896
32	12981	3857	11683	3469	10385	3081	9087	2693	7789	2305	6491	1918	5193	1530	3894	1142	3116	909	3116	909
33	12821	3914	11539	3521	10257	3127	8975	2734	7693	2340	6410	1946	5128	1553	3846	1159	3077	923	3077	923
34	12660	3972	11394	3573	10128	3173	8862	2774	7596	2374	6330	1975	5064	1576	3798	1176	3039	936	3039	936
35	12500	4030	11250	3625	10000	3219	8750	2814	7500	2409	6250	2004	5000	1598	3750	1193	3000	950	3000	950
36	12340	4088	11106	3677	9872	3266	8638	2855	7404	2443	6170	2032	4936	1621	3702	1210	2962	964	2962	964
37	12179	4146	10961	3729	9743	3312	8525	2895	7308	2478	6090	2061	4872	1644	3654	1227	2923	977	2923	977
38	12019	4203	10817	3781	9615	3358	8413	2935	7211	2513	6009	2090	4808	1667	3606	1244	2885	991	2885	991
39	11862	4108	10496	3695	9329	3282	8163	2869	6997	2455	5831	2042	4665	1629	3499	1216	2799	968	2799	968
40	11427	4108	10285	3695	9142	3282	7999	2869	6856	2455	5714	2042	4571	1629	3428	1216	2743	968	2743	968
41	11193	4108	10074	3695	8954	3282	7835	2869	6716	2455	5596	2042	4477	1629	3358	1216	2686	968	2686	968
42	10958	4108	9863	3695	8767	3282	7671	2869	6575	2455	5479	2042	4383	1629	3288	1216	2630	968	2630	968
43	10724	4108	9652	3695	8579	3282	7507	2869	6434	2455	5362	2042	4290	1629	3217	1216	2574	968	2574	968
44	10237	3911	9214	3518	8190	3125	7166	2731	6142	2338	5119	1945	4095	1551	3071	1158	2457	922	2457	922
45	10003	3911	9003	3518	8002	3125	7002	2731	6002	2338	5001	1945	4001	1551	3001	1158	2401	922	2401	922
46	9768	3911	8792	3518	7815	3125	6838	2731	5861	2338	4884	1945	3907	1551	2931	1158	2344	922	2344	922

Heating

Outdoor Temperature DB (°C)	Parts Load (%)																			
	100		90		80		70		60		50		40		30		20		10	
	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P
-15	8116	842	7304	754	6493	667	5681	580	4870	493	4058	405	3246	318	2435	231	1739	156	1739	156
-14	8238	905	7414	811	6590	717	5766	623	4943	530	4119	436	3295	342	2471	248	1765	168	1765	168
-13	8359	968	7523	867	6688	767	5852	667	5016	567	4180	466	3344	366	2508	266	1791	180	1791	180
-12	8481	1031	7633	924	6785	817	5937	710	5089	603	4241	497	3392	390	2544	283	1817	191	1817	191
-11	8603	1094	7743	981	6882	867	6022	754	5162	640	4301	527	3441	414	2581	300	1843	203	1843	203
-10	8725	1157	7852	1037	6980	917	6107	797	5235	677	4362	557	3490	437	2617	318	1870	215	1870	215
-9	8846	1220	7962	1094	7077	967	6192	841	5308	714	4423	588	3539	461	2654	335	1896	226	1896	226
-8	8968	1283	8071	1150	7174	1017	6278	884	5381	751	4484	618	3587	485	2690	352	1922	238	1922	238
-7	9090	1347	8181	1207	7272	1067	6363	928	5454	788	4545	649	3636	509	2727	370	1948	250	1948	250
-6	9207	1578	8286	1415	7366	1251	6445	1088	5524	924	4604	760	3683	597	2762	433	1973	293	1973	293
-5	9324	1810	8392	1623	7459	1435	6527	1247	5595	1060	4662	872	3730	684	2797	497	1998	336	1998	336
-4	9442	2042	8497	1831	7553	1619	6609	1407	5665	1195	4721	984	3777	772	2832	560	2023	379	2023	379
-3	9559	2274	8603	2038	7647	1803	6691	1567	5735	1331	4779	1096	3824	860	2868	624	2048	422	2048	422
-2	9676	2506	8708	2246	7741	1987	6773	1727	5806	1467	4838	1207	3870	947	2903	688	2073	465	2073	465
-1	9793	2738	8814	2454	7835	2170	6855	1887	5876	1603	4897	1319	3917	1035	2938	751	2099	508	2099	508
0	9910	2970	8919	2662	7928	2354	6937	2046	5946	1738	4955	1431	3964	1123	2973	815	2124	551	2124	551
1	10028	3202	9025	2870	8022	2538	7019	2206	6017	1874	5014	1542	4011	1210	3008	879	2149	594	2149	594
2	10145	3434	9130	3078	8116	2722	7101	2366	6087	2010	5072	1654	4058	1298	3043	942	2174	637	2174	637
3	10311	3480	9280	3119	8249	2758	7218	2398	6187	2037	5156	1676	4124	1316	3093	955	2210	646	2210	646
4	10477	3526	9430	3160	8382	2795	7334	2430	6286	2064	5239	1699	4191	1333	3143	968	2245	654	2245	654
5	10643	3572	9579	3202	8515	2832	7450	2461	6386	2091	5322	1721	4257	1351	3193	980	2281	663	2281	663
6	13639	3820	12275	3424	10911	3028	9547	2632	8183	2236	6819	1840	5455	1444	4092	1048	2923	709	2923	709
7	14000	3880	12600	3478	11200	3076	9800	2673	8400	2271	7000	1869	5600	1467	4200	1065	3000	720	3000	720
8	14361	3940	12925	3532	11489	3123	10053	2715	8617	2306	7181	1898	5745	1490	4308	1081	3077	731	3077	731
9	14723	4000	13250	3586	11778	3171	10306	2756	8834	2342	7361	1927	5889	1512	4417	1098	3155	742	3155	742
10	15084	4060	13575	3639	12067	3219	10559	2798	9050	2377	7542	1956	6034	1535	4525	1114	3232	753	3232	753
11	15445	4120	13901	3693	12356	3266	10812	2839	9267	2412	7723	1985	6178	1558	4634	1131	3310	765	3310	765
12	15806	4180	14226	3747	12645	3314	11065	2880	9484	2447	7903	2014	6323	1580	4742	1147	3387	776	3387	776
13	16168	4240	14551	3801	12934	3361	11317	2922	9701	2482	8084	2043	6467	1603	4850	1164	3465	787	3465	787
14	16529	4301	14876	3855	13223	3409	11570	2963	9917	2517	8265	2072	6612	1626	4959	1180	3542	798	3542	798
15	16890	4361	15201	3909	13512	3457	11823	3005	10134	2553	8445	2101	6756	1649	5067	1197	3619	809	3619	809
16	17252	4421	15526	3962	13801	3504	12076	3046	10351	2588	8626	2130	6901	1671	5175	1213	3697	820	3697	820
17	17613	4481	15852	4016	14090	3552	12329	3087	10568	2623	8806	2158	7045	1694	5284	1230	3774	831	3774	831
18	17974	4541	16177	4070	14379	3599	12582	3129	10765	2658	8987	2187	7190	1717	5392	1246	3852	843	3852	843
19	18335	4601	16502	4124	14668	3647	12835	3170	11001	2693	9168	2216	7334	1739	5501	1263	3929	854	3929	854
20	18697	4661	16827	4178	14957	3695	13088	3212	11218	2728	9348	2245	7479	1762	5609	1279	4006	865	4006	865
21	19058	4721	17152	4232	15246	3742	13341	3253	11435	2764	9529	2274	7623	1785	5717	1296	4084	876	4084	876
22	19419	4781	17477	4286	15535	3790	13594	3294	11652	2799	9710	2303	7768	1808	5826	1312	4161	887	4161	887
23	19781	4841	17803	4339	15825	3838	13846	3336	11868	2834	9890	2332	7912	1830	5934	1329	4239	898	4239	898
24	20142	4901	18128	4393	16114	3885	14099	3377	12085	2869	10071	2361	8057	1853	6043	1345	4316	910	4316	910

Combination

Indoor: RAV-GM1601BTP-A
Outdoor: RAV-GM1601ATP-A

Operation range		Cooling		Heating	
		Q	P	Q	P
MINIMUM	W	3000	900	3000	700
RATING	W	14000	4370	16000	4570
MAXIMUM	W	16000	6500	18000	5800

Cooling

Outdoor Temperature DB (°C)	Parts Load (%)																			
	100		90		80		70		60		50		40		30		20		10	
	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P
20	16695	3430	15026	3084	13356	2737	11687	2390	10017	2044	8348	1697	6678	1350	5009	1004	3578	707	3578	707
21	16515	3493	14864	3140	13212	2787	11561	2434	9909	2081	8258	1728	6606	1375	4955	1022	3539	719	3539	719
22	16336	3556	14702	3196	13069	2837	11435	2478	9801	2118	8168	1759	6534	1400	4901	1040	3501	732	3501	732
23	16156	3618	14540	3253	12925	2887	11309	2521	9694	2156	8078	1790	6462	1424	4847	1059	3462	745	3462	745
24	15976	3681	14379	3309	12781	2937	11183	2565	9586	2193	7988	1821	6391	1449	4793	1077	3424	758	3424	758
25	15797	3744	14217	3365	12637	2987	11058	2609	9478	2230	7898	1852	6319	1474	4739	1095	3385	771	3385	771
26	15617	3806	14055	3422	12494	3037	10932	2652	9370	2268	7809	1883	6247	1498	4685	1114	3347	784	3347	784
27	15437	3869	13894	3478	12350	3087	10806	2696	9262	2305	7719	1914	6175	1523	4631	1132	3308	797	3308	797
28	15258	3932	13732	3534	12206	3137	10680	2740	9155	2342	7629	1945	6103	1548	4577	1150	3270	810	3270	810
29	15078	3994	13570	3591	12062	3187	10555	2783	9047	2380	7539	1976	6031	1572	4523	1169	3231	823	3231	823
30	14898	4057	13409	3647	11919	3237	10429	2827	8939	2417	7449	2007	5959	1597	4470	1187	3193	836	3193	836
31	14719	4119	13247	3703	11775	3287	10303	2871	8831	2454	7359	2038	5887	1622	4416	1205	3154	848	3154	848
32	14539	4182	13085	3759	11631	3337	10177	2914	8723	2492	7270	2069	5816	1646	4362	1224	3116	861	3116	861
33	14359	4245	12923	3816	11487	3387	10052	2958	8616	2529	7180	2100	5744	1671	4308	1242	3077	874	3077	874
34	14180	4307	12762	3872	11344	3437	9926	3001	8508	2566	7090	2131	5672	1696	4254	1260	3039	887	3039	887
35	14000	4370	12600	3928	11200	3487	9800	3045	8400	2603	7000	2162	5600	1720	4200	1279	3000	900	3000	900
36	13820	4433	12438	3985	11056	3537	9674	3089	8292	2641	6910	2193	5528	1745	4146	1297	2962	913	2962	913
37	13641	4495	12277	4041	10913	3587	9548	3132	8184	2678	6820	2224	5456	1769	4092	1315	2923	926	2923	926
38	13461	4558	12115	4097	10769	3637	9423	3176	8077	2715	6731	2255	5384	1794	4038	1334	2885	939	2885	939
39	13281	4621	11953	4154	10625	3687	9297	3220	7969	2753	6641	2286	5313	1819	3984	1352	2846	952	2846	952
40	13102	4683	11792	4210	10481	3737	9171	3263	7861	2790	6551	2317	5241	1843	3931	1370	2808	965	2808	965
41	12922	4746	11630	4266	10338	3787	9045	3307	7753	2827	6461	2348	5169	1868	3877	1389	2769	977	2769	977
42	12742	4808	11468	4323	10194	3837	8920	3351	7645	2865	6371	2379	5097	1893	3823	1407	2731	990	2731	990
43	12563	4871	11306	4379	10050	3887	8794	3394	7538	2902	6281	2410	5025	1917	3769	1425	2692	1003	2692	1003
44	12383	4934	11145	4435	9906	3937	8668	3438	7430	2939	6192	2441	4953	1942	3715	1443	2654	1016	2654	1016
45	12203	4996	10983	4491	9763	3986	8542	3482	7322	2977	6102	2472	4881	1967	3661	1462	2615	1029	2615	1029
46	12024	5059	10821	4548	9619	4036	8417	3525	7214	3014	6012	2503	4809	1991	3607	1480	2577	1042	2577	1042

Heating

Outdoor Temperature DB (°C)	Parts Load (%)																			
	100		90		80		70		60		50		40		30		20		10	
	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P
-15	9275	991	8348	888	7420	785	6493	681	5565	578	4638	475	3710	371	2783	268	1855	165	1739	152
-14	9414	1066	8473	955	7532	843	6590	732	5649	621	4707	510	3766	399	2824	288	1883	177	1765	163
-13	9554	1140	8598	1021	7643	902	6688	783	5732	665	4777	546	3821	427	2866	308	1911	189	1791	175
-12	9693	1214	8723	1088	7754	961	6785	835	5816	708	4846	581	3877	455	2908	328	1939	202	1817	186
-11	9832	1289	8849	1154	7866	1020	6882	886	5899	751	4916	617	3933	483	2950	348	1966	214	1843	197
-10	9971	1363	8974	1221	7977	1079	6980	937	5983	795	4986	653	3988	511	2991	369	1994	227	1870	209
-9	10110	1437	9099	1287	8088	1138	7077	988	6066	838	5055	688	4044	538	3033	389	2022	239	1896	220
-8	10249	1512	9224	1354	8199	1197	7174	1039	6150	881	5125	724	4100	566	3075	409	2050	251	1922	232
-7	10388	1586	9350	1421	8311	1255	7272	1090	6233	925	5194	759	4155	594	3117	429	2078	264	1948	243
-6	10522	1659	9470	1488	8418	1472	7366	1278	6313	1084	5261	890	4209	697	3157	503	2104	309	1973	285
-5	10656	1732	9591	1551	8525	1688	7459	1466	6394	1243	5328	1021	4263	799	3197	577	2131	354	1998	327
-4	10790	1805	9711	1615	8632	1904	7553	1653	6474	1403	5395	1152	4316	901	3237	650	2158	400	2023	368
-3	10924	1879	9832	1689	8739	2120	7647	1841	6555	1562	5462	1283	4370	1004	3277	724	2185	445	2048	410
-2	11058	1952	9952	1744	8847	2336	7741	2029	6635	1721	5529	1413	4423	1106	3317	798	2212	491	2073	452
-1	11192	2025	10073	1819	8954	2553	7835	2217	6715	1880	5596	1544	4477	1208	3358	872	2238	536	2099	494
0	11326	2098	10194	1900	9061	2769	7928	2404	6796	2040	5663	1675	4530	1311	3398	946	2265	581	2124	536
1	11460	2171	10314	1981	9168	2985	8022	2592	6876	2199	5730	1806	4584	1413	3438	1020	2292	627	2149	578
2	11594	2244	10435	2063	9275	3201	8116	2780	6957	2358	5797	1937	4638	1515	3478	1094	2319	672	2174	619
3	11728	2319	10606	2147	9427	3244	8249	2817	7070	2390	5892	1963	4714	1536	3535	1108	2357	681	2210	628
4	11874	2403	10777	2232	9579	3287	8382	2854	7184	2422	5987	1989	4790	1556	3592	1123	2395	690	2245	636
5	12164	2507	10948	2329	9731	3330	8515	2892	7298	2453	6082	2015	4866	1576	3649	1138	2433	699	2281	644
6	12587	2629	11208	2438	10020	3561	8911	3092	7552	2624	6394	2155	5045	1686	3766	1217	2517	748	2323	689
7	16000	4570	14400	4094	12800	3617	11200	3141	9600	2665	7790	2188	6400	1712	4800	1236	3200	760	3000	700
8	16413	4641	14772	4157	13130	3673	11489	3190	9848	2706	8206	2222	6565	1739	4924	1255	3283	771	3077	711
9	16826	4712	15143	4220	13461	3729	11778	3238	10095	2747	8413	2256	6730	1765	5048	1274	3365	783	3155	722
10	17239	4782	15515	4284	13791	3785	12067	3287	10343	2789	8619	2290	6895	1792	5172	1293	3448	795	3232	733
11	17652	4853	15886	4347	14121	3841	12356	3336	10591	2830	8826	2324	7061	1818	5295	1312	3530	807	3310	743
12	18065	4924	16258	4411	14452	3897	12645	3384	10839	2871	9032	2358	7226	1845	5419	1332	3613	818	3387	754
13	18477	4995	16630	4474	14782	3953	12934	3433	11086	2912	9239	2392	7391	1871	5543	1351	3695	830	3465	765
14	18890	5065	17001	4537	15112	4009	13223	3482	11334	2954	9445	2426	7556	1898	5667	1370	3778	842	3542	776
15	19303	5136	17373	4601	15443	4065	13512	3530	11582	2995	9652	2460	7721	1924	5791	1389	3861	854	3619	787
16	19716	5207	17745	4664	15773	4121	13801	3579	11830	3036	9858	2493	7886	1951	5915	1408	3943	865	3697	798
17	20129	5278	18116	4728	16103	4177	14090	3627	12077	3077	10065	2527	8052	1977	6039	1427	4026	877	3774	808
18	20542	5348	18488	4791	16434	4234	14379	3676	12325	3119	10271	2561	8217	2004	6163	1446	4108	889	3852	819
19	20955	5419	18859	4854	16764	4290	14668	3725	12573	3160	10477	2595	8382	2030	6286	1465	4191	901	3929	830
20	21368	5490	19231	4918	17094	4346	14957	3773	12821	3201	10684	2629	8547	2057	6410	1485	4274	912	4006	841
21	21781	5561	19603	4981	17425	4402	15246	3822	13068	3242	10890	2663	8712	2083	6534	1504	4356	924	4084	852
22	22194	5631	19974	5044	17755	4458	15535	3871	13316	3284	11097	2697	8877	2110	6658	1523	4439	936	4161	863
23	22606	5702	20346	5108	18085	4514	15825	3919	13564	3325	11303	2731	9043	2136	6782	1542	4521	948	4239	873
24	23019	5773	20717	5171	18415	4570	16114	3968	13812	3366	11510	2765	9208	2163	6906	1561	4604	959	4316	884

Combination

Indoor: RAV-GM1601BTP-A
Outdoor: RAV-GM1601AT8P-A

Operation range	Cooling		Heating	
	Q	P	Q	P
MINIMUM	W 3000	900	3000	700
RATING	W 14000	4370	16000	4570
MAXIMUM	W 16000	6500	18000	5800

Cooling

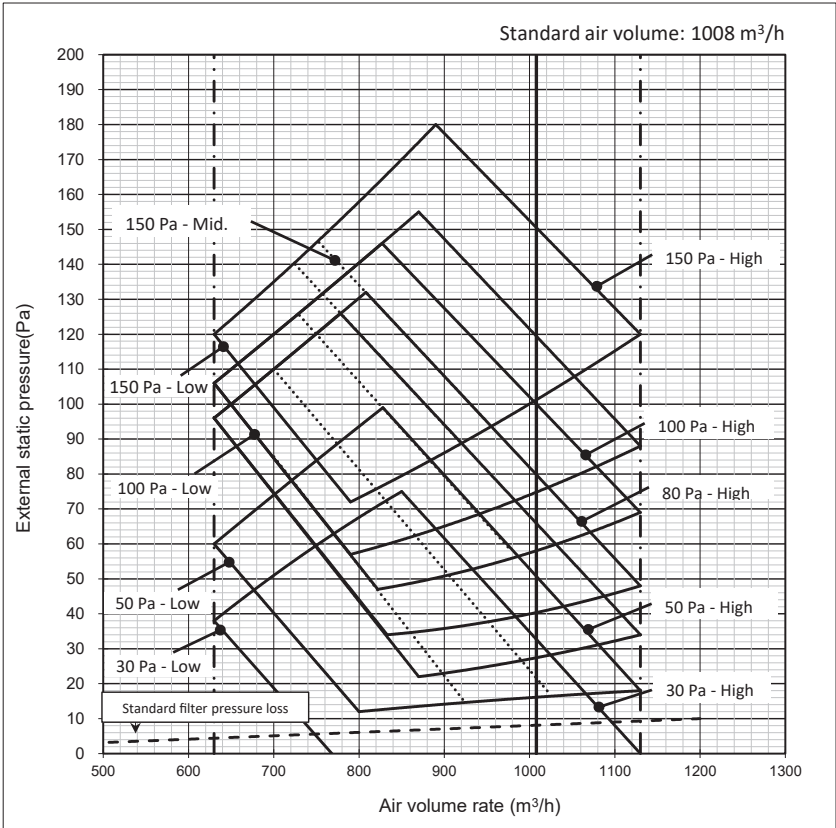
Outdoor Temperature DB (°C)	Parts Load (%)																			
	100		90		80		70		60		50		40		30		20		10	
	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P
20	16695	3430	15026	3084	13356	2737	11687	2390	10017	2044	8348	1697	6678	1350	5009	1004	3578	707	3578	707
21	16515	3493	14864	3140	13212	2787	11561	2434	9909	2081	8258	1728	6606	1375	4955	1022	3539	719	3539	719
22	16336	3556	14702	3196	13069	2837	11435	2478	9801	2118	8168	1759	6534	1400	4901	1040	3501	732	3501	732
23	16156	3618	14540	3253	12925	2887	11309	2521	9694	2156	8078	1790	6462	1424	4847	1059	3462	745	3462	745
24	15976	3681	14379	3309	12781	2937	11183	2565	9586	2193	7988	1821	6391	1449	4793	1077	3424	758	3424	758
25	15797	3744	14217	3365	12637	2987	11058	2609	9478	2230	7898	1852	6319	1474	4739	1095	3385	771	3385	771
26	15617	3806	14055	3422	12494	3037	10932	2652	9370	2268	7809	1883	6247	1498	4685	1114	3347	784	3347	784
27	15437	3869	13894	3478	12350	3087	10806	2696	9262	2305	7719	1914	6175	1523	4631	1132	3308	797	3308	797
28	15258	3932	13732	3534	12206	3137	10680	2740	9155	2342	7629	1945	6103	1548	4577	1150	3270	810	3270	810
29	15078	3994	13570	3591	12062	3187	10555	2783	9047	2380	7539	1976	6031	1572	4523	1169	3231	823	3231	823
30	14898	4057	13409	3647	11919	3237	10429	2827	8939	2417	7449	2007	5959	1597	4470	1187	3193	836	3193	836
31	14719	4119	13247	3703	11775	3287	10303	2871	8831	2454	7359	2038	5887	1622	4416	1205	3154	848	3154	848
32	14539	4182	13085	3759	11631	3337	10177	2914	8723	2492	7270	2069	5816	1646	4362	1224	3116	861	3116	861
33	14359	4245	12923	3816	11487	3387	10052	2958	8616	2529	7180	2100	5744	1671	4308	1242	3077	874	3077	874
34	14180	4307	12762	3872	11344	3437	9926	3001	8508	2566	7090	2131	5672	1696	4254	1260	3039	887	3039	887
35	14000	4370	12600	3928	11200	3487	9800	3045	8400	2603	7000	2162	5600	1720	4200	1279	3000	900	3000	900
36	13820	4433	12438	3985	11056	3537	9674	3089	8292	2641	6910	2193	5528	1745	4146	1297	2962	913	2962	913
37	13641	4495	12277	4041	10913	3587	9548	3132	8184	2678	6820	2224	5456	1769	4092	1315	2923	926	2923	926
38	13461	4558	12115	4097	10769	3637	9423	3176	8077	2715	6731	2255	5384	1794	4038	1334	2885	939	2885	939
39	13281	4621	11953	4154	10625	3687	9297	3220	7969	2753	6641	2286	5313	1819	3984	1352	2846	952	2846	952
40	13102	4683	11792	4210	10481	3737	9171	3263	7861	2790	6551	2317	5241	1843	3931	1370	2808	965	2808	965
41	12922	4746	11630	4266	10338	3787	9045	3307	7753	2827	6461	2348	5169	1868	3877	1389	2769	977	2769	977
42	12742	4808	11468	4323	10194	3837	8920	3351	7645	2865	6371	2379	5097	1893	3823	1407	2731	990	2731	990
43	12563	4871	11306	4379	10050	3887	8794	3394	7538	2902	6281	2410	5025	1917	3769	1425	2692	1003	2692	1003
44	12383	4934	11145	4435	9906	3937	8668	3438	7430	2939	6192	2441	4953	1942	3715	1443	2654	1016	2654	1016
45	12203	4996	10983	4491	9763	3986	8542	3482	7322	2977	6102	2472	4881	1967	3661	1462	2615	1029	2615	1029
46	12024	5059	10821	4548	9619	4036	8417	3525	7214	3014	6012	2503	4809	1991	3607	1480	2577	1042	2577	1042

Heating

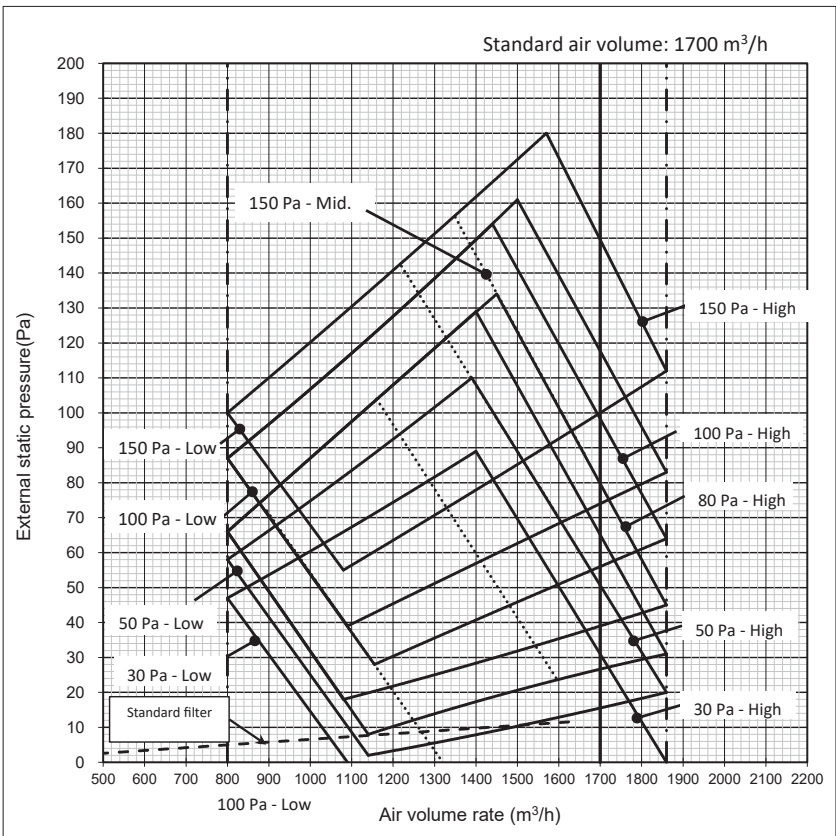
Outdoor Temperature DB (°C)	Parts Load (%)																			
	100		90		80		70		60		50		40		30		20		10	
	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P
-15	8696	1011	7826	906	6957	800	6087	695	5217	590	4348	484	3478	379	2609	273	1739	168	1630	155
-14	8877	1025	7989	918	7101	811	6214	704	5326	598	4438	491	3551	384	2663	277	1775	170	1664	157
-13	9058	1039	8152	930	7246	822	6341	714	5435	606	4529	497	3623	389	2717	281	1812	173	1698	159
-12	9239	1052	8315	943	7391	833	6467	723	5543	614	4620	504	3696	394	2772	285	1848	175	1732	161
-11	9420	1066	8478	955	7536	844	6594	733	5652	622	4710	511	3768	399	2826	288	1884	177	1766	163
-10	9601	1080	8641	967	7681	855	6721	742	5761	630	4801	517	3841	405	2880	292	1920	179	1800	165
-9	9783	1094	8804	980	7826	866	6848	752	5870	638	4891	524	3913	410	2935	296	1957	182	1834	168
-8	9964	1108	8967	992	7971	877	6975	761	5978	646	4982	530	3986	415	2989	300	1993	184	1868	170
-7	10145	1121	9130	1004	8116	888	7101	771	6087	654	5072	537	4058	420	3043	303	2029	186	1902	172
-6	10306	1146	9275	1295	8245	1145	7214	994	6184	843	5153	693	4122	542	3092	391	2061	240	1932	222
-5	10467	1171	9420	1586	8374	1402	7327	1217	6280	1033	5233	848	4187	663	3140	479	2093	294	1963	271
-4	10628	2096	9565	1877	8502	1659	7440	1440	6377	1222	5314	1004	4251	785	3188	567	2126	348	1993	321
-3	10789	2420	9710	2168	8631	1916	7552	1664	6473	1411	5395	1159	4316	907	3237	655	2158	402	2023	371
-2	10950	2745	9855	2459	8760	2173	7665	1887	6570	1601	5475	1315	4380	1028	3285	742	2190	456	2053	420
-1	11111	3070	10000	2750	8889	2430	7778	2110	6667	1790	5556	1470	4444	1150	3333	830	2222	510	2083	470
0	11272	3395	10145	3041	9018	2687	7890	2333	6763	1979	5636	1626	4509	1272	3382	918	2254	564	2114	520
1	11433	3719	10290	3332	9147	2944	8003	2556	6860	2169	5717	1781	4573	1394	3430	1006	2287	618	2144	570
2	11594	4044	10435	3623	9275	3201	8116	2780	6957	2358	5797	1937	4638	1515	3478	1094	2319	672	2174	619
3	11784	4099	10606	3671	9427	3244	8249	2817	7070	2390	5892	1963	4714	1536	3535	1108	2357	681	2210	628
4	11974	4153	10777	3720	9579	3287	8382	2854	7184	2422	5987	1989	4790	1556	3592	1123	2395	690	2245	636
5	12164	4207	10948	3769	9731	3330	8515	2892	7298	2453	6082	2015	4866	1576	3649	1138	2433	699	2281	644
6	15587	4499	14028	4030	12470	3561	10911	3092	9352	2624	7794	2155	6235	1686	4676	1217	3117	748	2923	689
7	16000	4570	14400	4094	12800	3617	11200	3141	9600	2665	8000	2188	6400	1712	4800	1236	3200	760	3000	700
8	16413	4641	14772	4157	13130	3673	11489	3190	9848	2706	8206	2222	6565	1739	4924	1255	3283	771	3077	711
9	16826	4712	15143	4220	13461	3729	11778	3238	10095	2747	8413	2256	6730	1765	5048	1274	3365	783	3155	722
10	17239	4782	15515	4284	13791	3785	12067	3287	10343	2789	8619	2290	6895	1792	5172	1293	3448	795	3232	733
11	17652	4853	15886	4347	14121	3841	12356	3336	10591	2830	8826	2324	7061	1818	5295	1312	3530	807	3310	743
12	18065	4924	16258	4411	14452	3897	12645	3384	10839	2871	9032	2358	7226	1845	5419	1332	3613	818	3387	754
13	18477	4995	16630	4474	14782	3953	12934	3433	11086	2912	9239	2392	7391	1871	5543	1351	3695	830	3465	765
14	18890	5065	17001	4537	15112	4009	13223	3482	11334	2954	9445	2426	7556	1898	5667	1370	3778	842	3542	776
15	19303	5136	17373	4601	15443	4065	13512	3530	11582	2995	9652	2460	7721	1924	5791	1389	3861	854	3619	787
16	19716	5207	17745	4664	15773	4121	13801	3579	11830	3036	9858	2493	7886	1951	5915	1408	3943	865	3697	798
17	20129	5278	18116	4728	16103	4177	14090	3627	12077	3077	10065	2527	8052	1977	6039	1427	4026	877	3774	808
18	20542	5348	18488	4791	16434	4234	14379	3676	12325	3119	10271	2561	8217	2004	6163	1446	4108	889	3852	819
19	20955	5419	18859	4854	16764	4290	14668	3725	12573	3160	10477	2595	8382	2030	6286	1465	4191	901	3929	830
20	21368	5490	19231	4918	17094	4346	14957	3773	12821	3201	10684	2629	8547	2057	6410	1485	4274	912	4006	841
21	21781	5561	19603	4981	17425	4402	15246	3822	13068	3242	10890	2663	8712	2083	6534	1504	4356	924	4084	852
22	22194	5631	19974	5044	17755	4458	15535	3871	13316	3284	11097	2697	8877	2110	6658	1523	4439	936	4161	863
23	22606	5702	20346	5108	18085	4514	15825	3919	13564	3325	11303	2731	9043	2138	6782	1542	4521	948	4239	873
24	23019	5773	20717	5171	18415	4570	16114	3968	13812	3366	11510	2765	9208	2163	6906	1561	4604	959	4316	884

2-3-6. Fan Static Characteristic

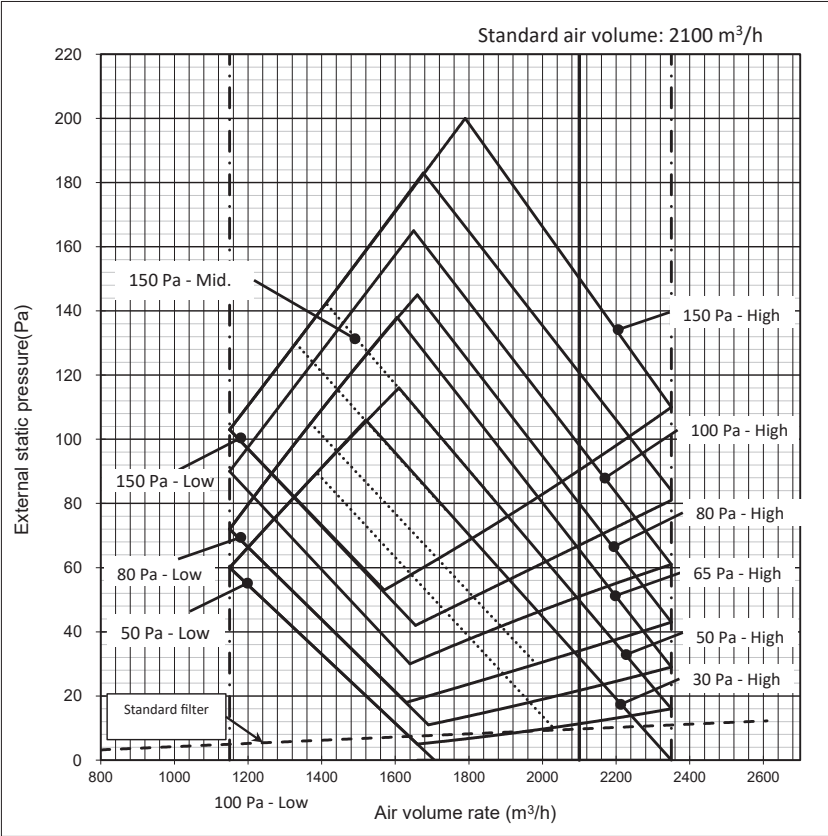
RAV-GM561BTP-A



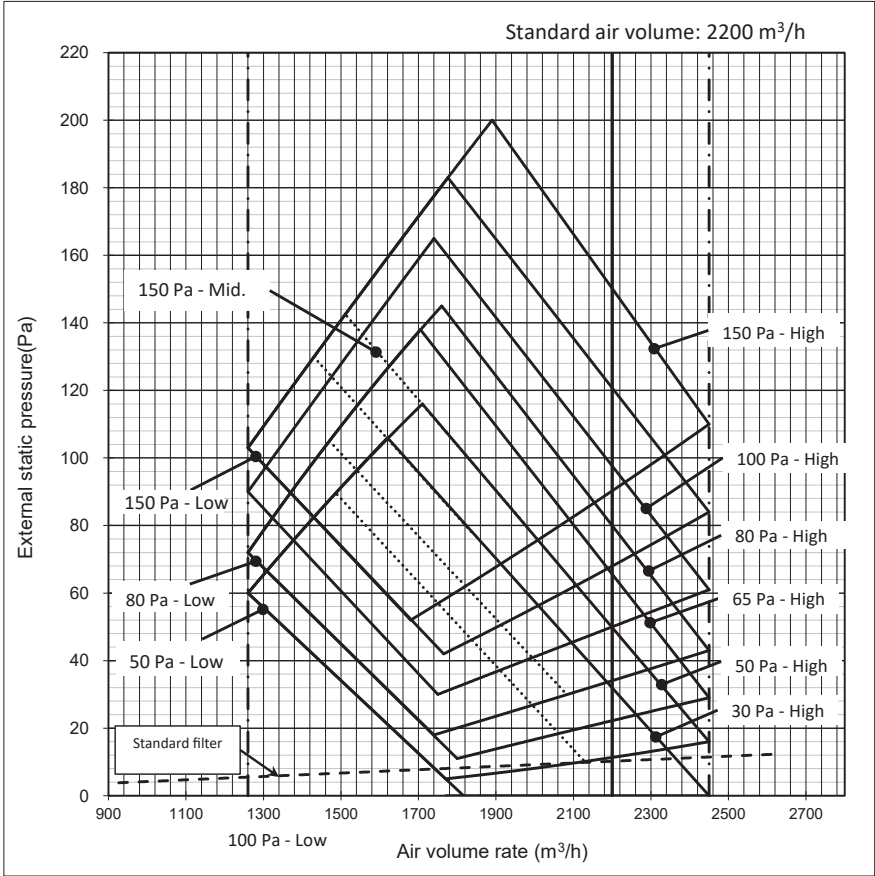
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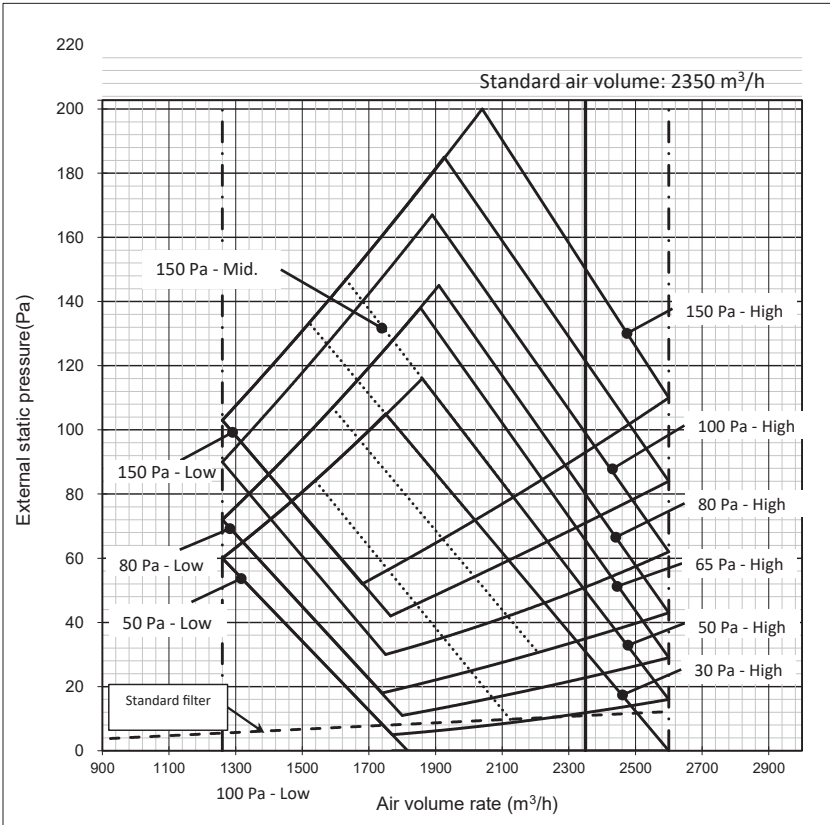
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RAV-GM1401BTP-A



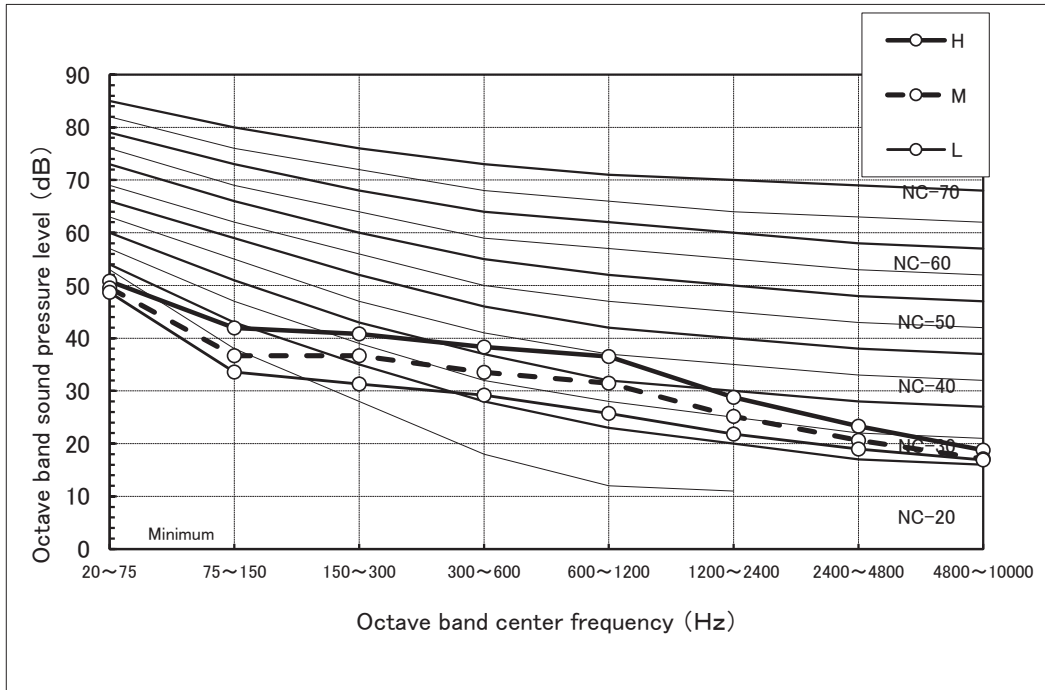
RAV-GM1601BTP-A



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

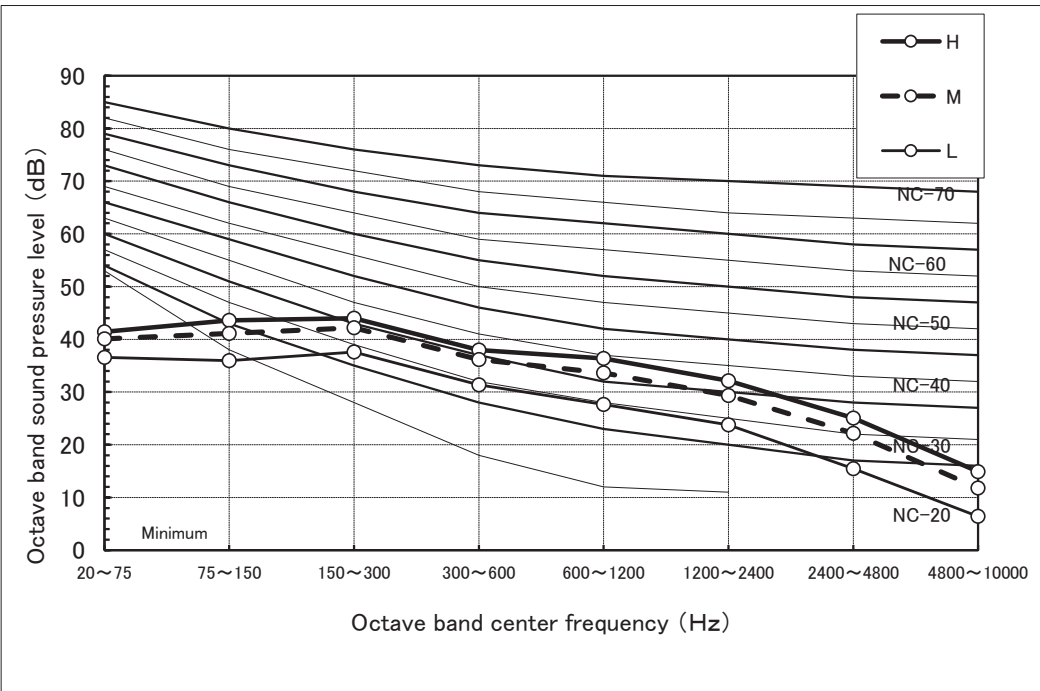
RAV-GM561BTP-A

Specification (dB)			
Fan tap	H	M	L
Sound pressure level (dB(A))	38	35	32



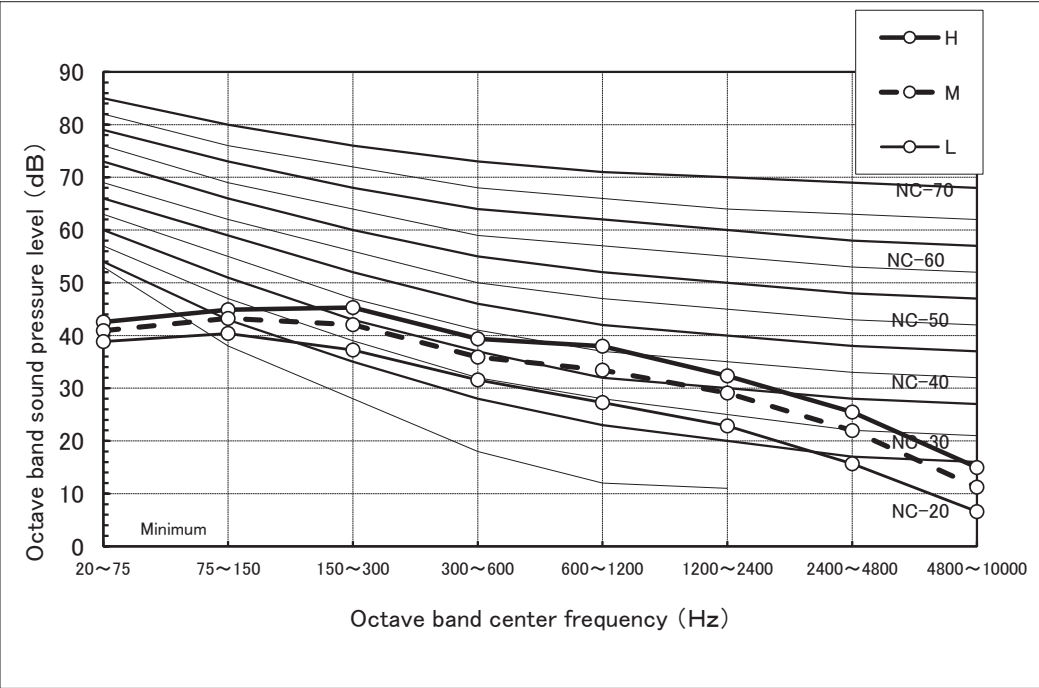
RAV-GM801BTP-A

Specification (dB)			
Fan tap	H	M	L
Sound pressure level (dB(A))	40	37	32



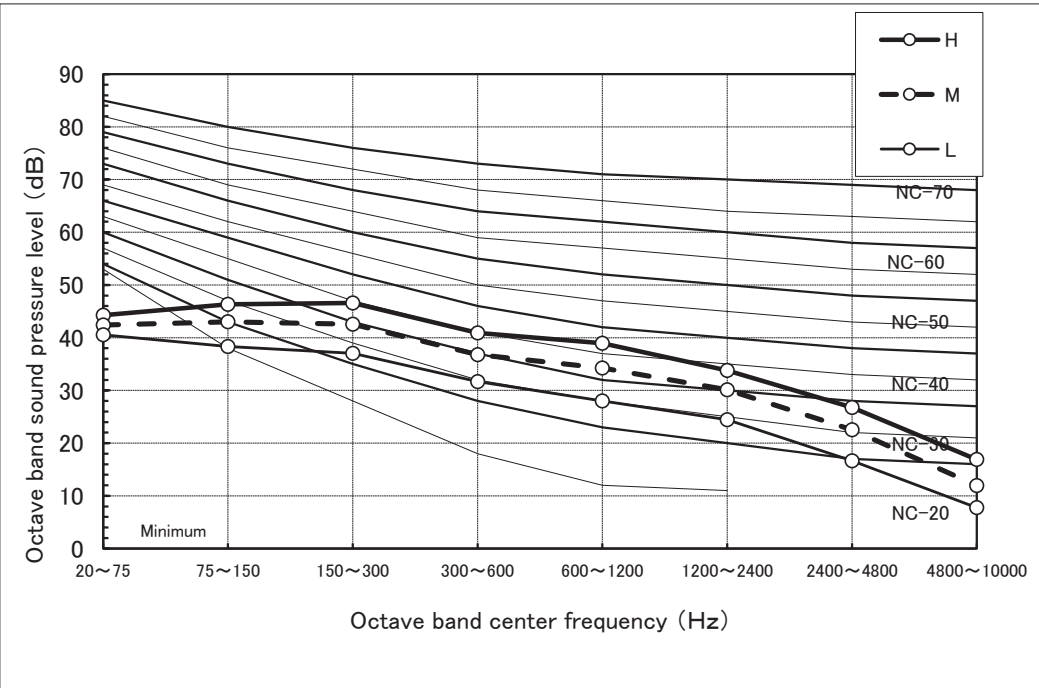
RAV-GM1101BTP-A

Specification (dB)			
Fan tap	H	M	L
Sound pressure level (dB(A))	40	37	32



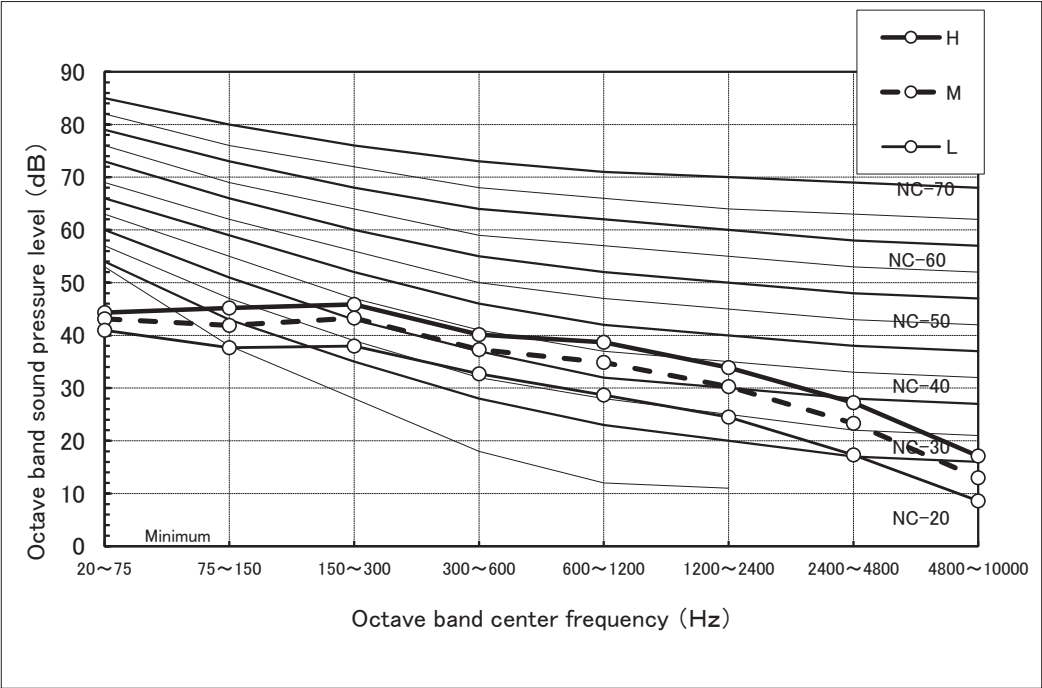
RAV-GM1401BTP-A

Specification (dB)			
Fan tap	H	M	L
Sound pressure level (dB(A))	41	38	33



RAV-GM1601BTP-A

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



2-4. High Static Pressure Duct Type

2-4-1. Specifications

2-4-2. Dimension

2-4-3. Wiring Diagrams

2-4-4. Sensible Capacity Table

2-4-5. Part Load Performance

2-4-6. Air Throw Distance Chart

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

2-4-1. Specifications

High static pressure duct type

Model			Indoor unit		RAV-GM561DTP-A	RAV-GM801DTP-A	RAV-GM1101DTP-A	RAV-GM1401DTP-A	RAV-GM1601DTP-A	RAV-GM1601DTP-A
			Outdoor unit		RAV-GM561ATP-A	RAV-GM801ATP-A	RAV-GM1101ATP-A	RAV-GM1401ATP-A	RAV-GM1601ATP-A	RAV-GM1601AT8P-A
Cooling capacity			(kW)	5.0 < 1.5 - 5.6 >	7.1 < 1.5 - 8.0 >	10.0 < 3.0 - 11.2 >	12.5 < 3.0 - 14.0 >	14.0 <3.0 - 16.0>	14.0 <3.0 - 16.0>	
Heating capacity			(kW)	5.3 < 1.5 - 6.3 >	8.0 < 1.5 - 9.0 >	11.2 < 3.0 - 13.0 >	14.0 < 3.0 - 16.0 >	16.0 <3.0 - 18.0>	16.0 <3.0 - 18.0>	
Power supply				1 phase 220V-240V/50Hz						3 phase 380V-415V/50Hz
Electrical characteristics	Cooling	Running current		(A)	2.42 - 8.85	3.60 - 11.5	3.65 - 21.5	7.55 - 26.0	8.30 - 28.7	2.70 - 9.60
		Power consumption		(kW)	1.49	1.82	3.03	3.91	4.37	4.37
		Power factor		(%)	94	93	94	96	93	92
		EER			3.36	3.90	3.30	3.20	3.20	3.20
		AEER			3.30	3.86	3.27	3.18	3.18	3.18
	Heating	Running current		(A)	2.42 - 12.2	3.25 - 11.5	3.65 - 20.1	6.45 - 21.55	7.55 - 24.65	2.43 - 8.25
		Power consumption		(kW)	1.23	2.00	2.80	3.88	4.15	4.15
	Besides, ne Under ceiling	Power factor		(%)	95	93	94	95	93	92
		COP			4.31	4.00	4.00	3.61	3.86	3.86
		ACOP			4.22	3.96	3.97	3.59	3.83	3.83
Indoor unit										
Appearance		Main unit			Zinc hot dipping hot steel					
Outer dimension		Main unit	Height (mm)		298					
			Width (mm)		1,000		1,400			
			Depth (mm)		750					
Total weight		Main unit (kg)			34		42			
Fan unit		Fan			Centrifugal fan					
		Air Flow		H/M/L (m3/h)	1400-1200-1000	2100-1550-1300	2900-2500-1680	3150-2850-2050	3500-3250-2150	3500-3250-2150
External static pressure		Standard (Upper - Lower) (Pa)			100 (100 - 50)					
Air filter				Sold separately (TCB-LK1401D-E)						
Sound pressure level			H/M/L (dB)	36-34-30	41-39-33	48-47-40	49-48-41	50-49-42	50-49-42	
Connecting pipe		Drain port			VP25					

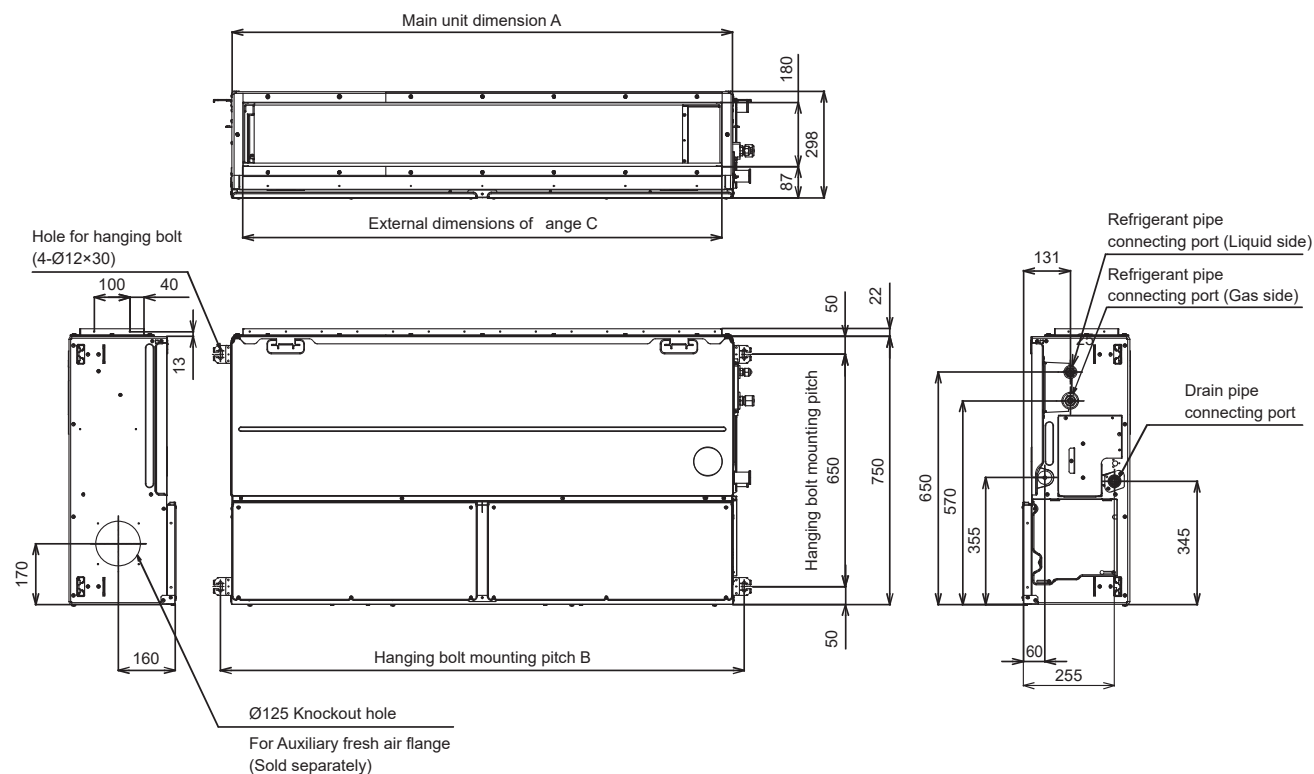
1 : The cooling capacities and electrical characteristics are measured under the conditions specified by JIS B 8615 based on the reference piping.
The reference piping consists of 5 m of main piping and 2.5 m of branch piping connected with 0 meter height.

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 :

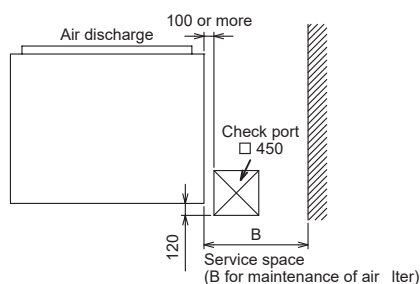
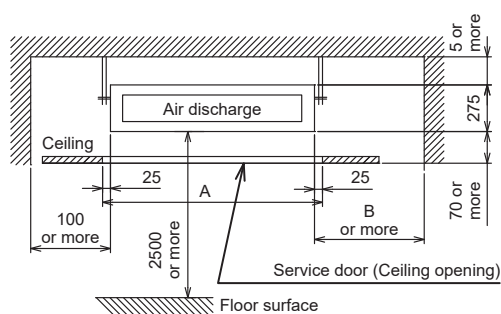
Rated conditions Cooling : Indoor air temperature 27°C DB/19°C WB, Outdoor air temperature 35°C DB

2-4-2. Dimension

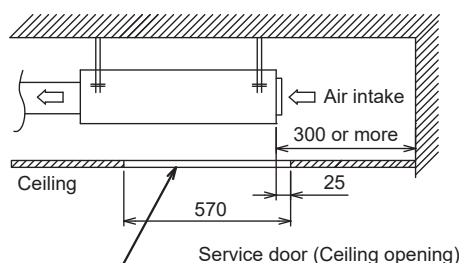
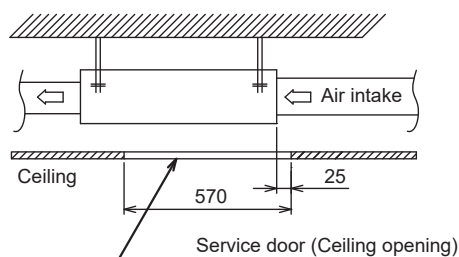
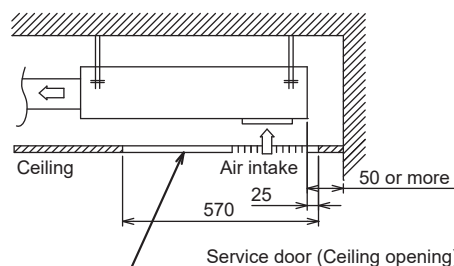
RAV-GM*1DTP-A (*56 / 80 / 110 / 140 / 160)

▼ Dimension

Model	A	B	C
GM561, GM801	1000	1065	940
GM1101 ~ GM1601	1400	1465	1340

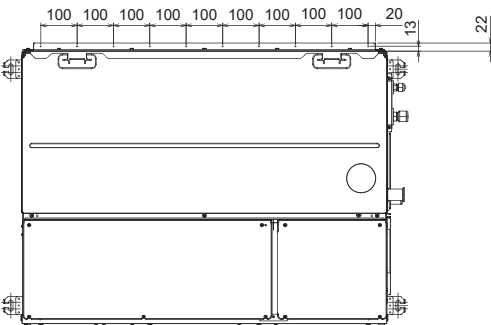
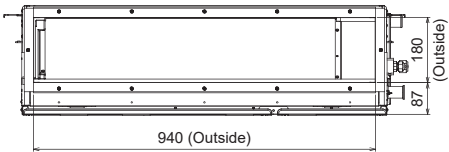


Model	A	B
GM561, GM801	1050	500
GM1101 ~ GM1601	1450	700

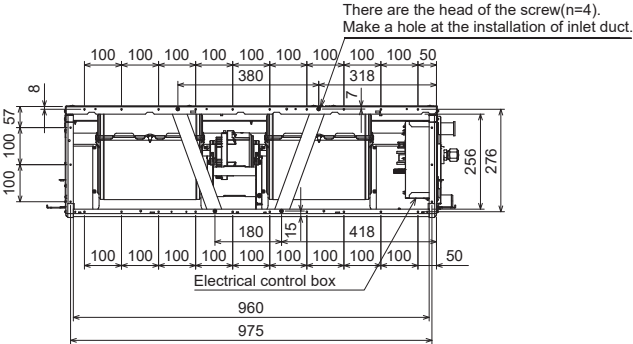


GM561, GM801

<Air outlet>

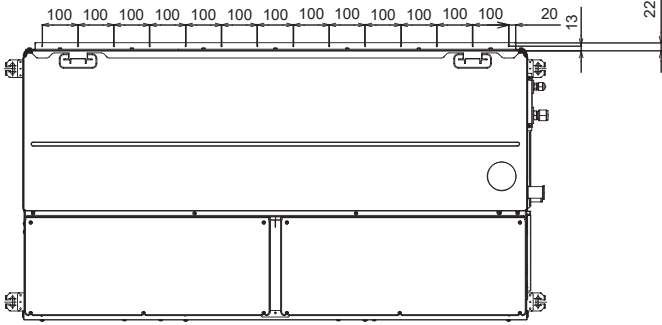
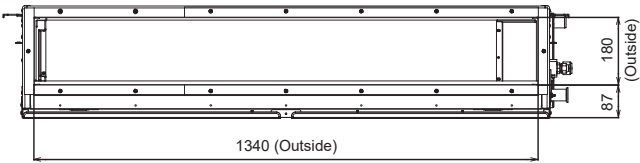


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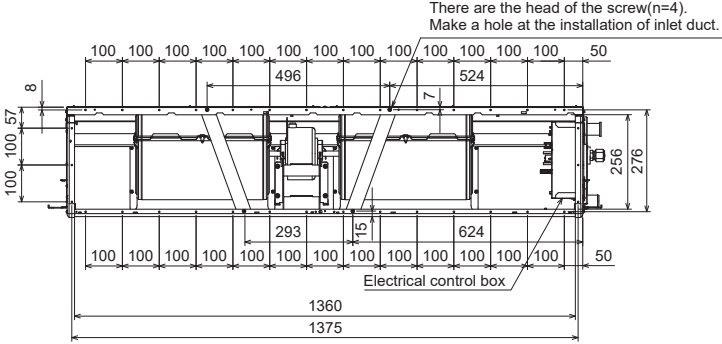


GM1101, GM1401, GM1601

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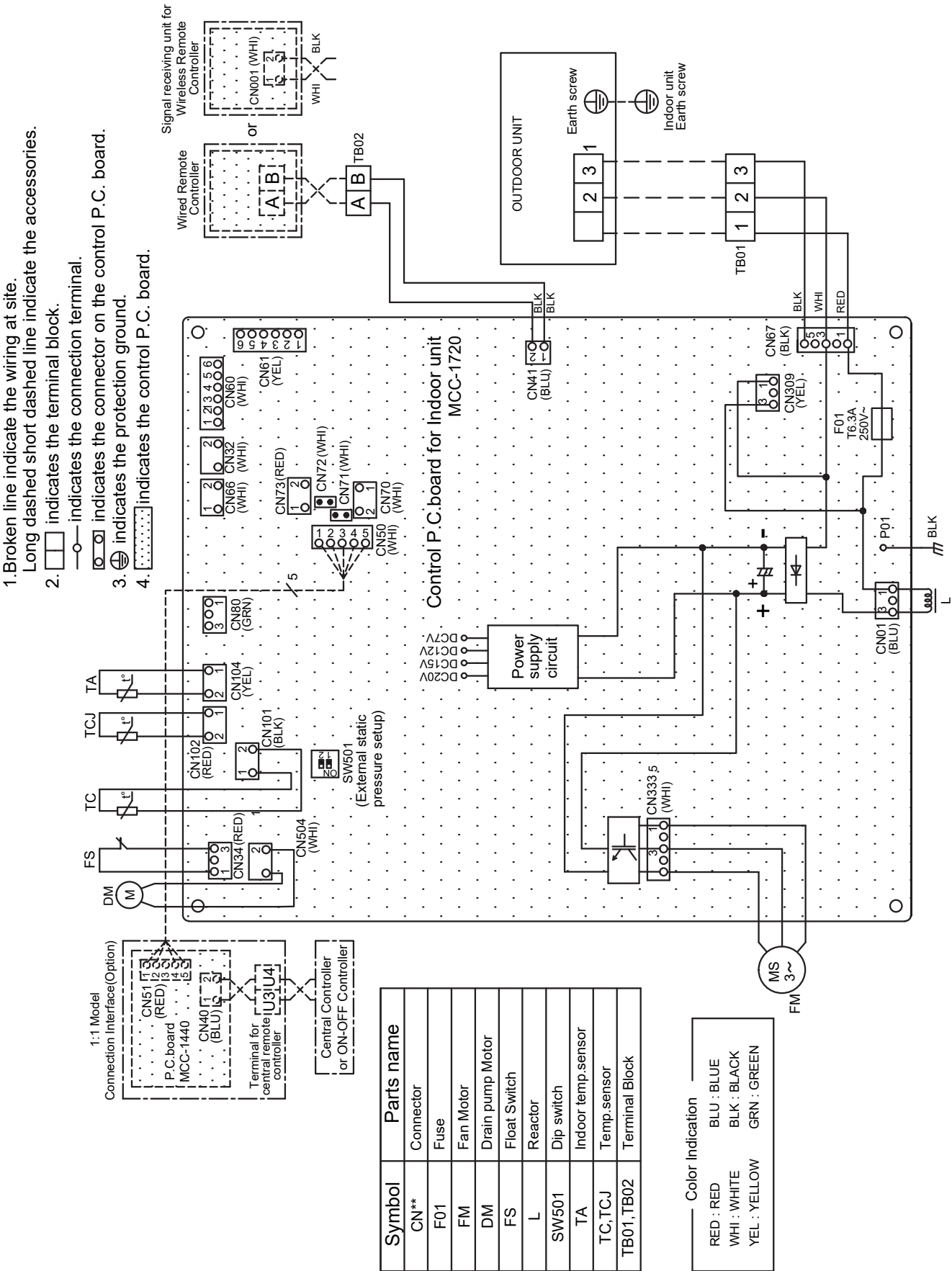


<Air inlet>



2-4-3. Wiring diagrams

RAV-GM*1DTP-A (*56 / 80 / 110 / 140 / 160)



2-4-4. Sensible Capacity Table

Product models : RAV-GM561DTP-A / RAV-GM561ATP-A

Standard Condition

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

Specification of product at standard condition.

Total Cooling Capacity (TC)	5.00 kW
Sensible Heat Capacity (SHC)	4.45 kW

Outdoor air temp. °C DB	Indoor Air temperature																	
	14.0 °C WB		15.0 °C WB		16.0 °C WB		17.0 °C WB		18.0 °C WB		19.0 °C WB		20.0 °C WB		22.0 °C WB		24.0 °C WB	
	20.0 °C DB		21.0 °C DB		23.0 °C DB		24.0 °C DB		26.0 °C DB		27.0 °C DB		28.0 °C DB		30.0 °C DB		32.0 °C DB	
°C DB	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
10.0	4.83	4.59	5.00	4.70	5.33	4.91	5.46	5.02	5.71	5.22	5.88	5.23	6.05	5.24	6.40	5.23	6.70	5.17
12.0	4.79	4.55	4.96	4.66	5.29	4.87	5.41	4.98	5.66	5.18	5.83	5.19	6.00	5.20	6.35	5.19	6.64	5.13
14.0	4.75	4.51	4.91	4.62	5.24	4.83	5.37	4.93	5.61	5.14	5.78	5.14	5.94	5.16	6.30	5.14	6.58	5.08
16.0	4.70	4.47	4.87	4.58	5.19	4.78	5.32	4.89	5.56	5.09	5.72	5.09	5.89	5.11	6.24	5.10	6.52	5.03
18.0	4.65	4.42	4.82	4.53	5.14	4.73	5.26	4.83	5.50	5.04	5.67	5.04	5.83	5.05	6.17	5.04	6.45	4.98
20.0	4.60	4.38	4.76	4.48	5.08	4.68	5.20	4.78	5.44	4.98	5.60	4.99	5.76	5.00	6.10	4.99	6.38	4.93
21.0	4.57	4.35	4.73	4.45	5.05	4.65	5.17	4.75	5.41	4.95	5.57	4.96	5.73	4.97	6.07	4.96	6.35	4.90
23.0	4.52	4.30	4.68	4.40	4.99	4.60	5.11	4.69	5.34	4.89	5.50	4.90	5.66	4.91	5.99	4.90	6.27	4.84
25.0	4.46	4.24	4.61	4.34	4.92	4.53	5.04	4.63	5.27	4.82	5.43	4.83	5.58	4.84	5.91	4.83	6.18	4.77
27.0	4.39	4.18	4.55	4.28	4.85	4.47	4.97	4.57	5.20	4.76	5.35	4.76	5.50	4.77	5.83	4.76	6.10	4.71
29.0	4.33	4.12	4.48	4.21	4.78	4.40	4.89	4.50	5.12	4.68	5.27	4.69	5.42	4.70	5.74	4.69	6.00	4.63
31.0	4.26	4.05	4.41	4.15	4.70	4.33	4.81	4.42	5.04	4.61	5.18	4.61	5.33	4.63	5.65	4.62	5.91	4.56
33.0	4.19	3.98	4.33	4.07	4.62	4.26	4.73	4.35	4.95	4.53	5.10	4.53	5.24	4.55	5.55	4.54	5.81	4.48
35.0	4.11	3.90	4.25	4.00	4.54	4.18	4.64	4.27	4.86	4.44	5.00	4.45	5.14	4.46	5.45	4.45	5.70	4.40
37.0	4.03	3.83	4.17	3.92	4.45	4.10	4.56	4.19	4.77	4.36	4.91	4.37	5.05	4.38	5.34	4.37	5.59	4.31
39.0	3.95	3.75	4.08	3.84	4.36	4.01	4.46	4.10	4.67	4.27	4.80	4.28	4.94	4.29	5.23	4.28	5.47	4.23
40.0	3.90	3.71	4.04	3.80	4.31	3.97	4.41	4.06	4.62	4.22	4.75	4.23	4.89	4.24	5.18	4.23	5.41	4.18
42.0	3.82	3.63	3.95	3.72	4.21	3.88	4.31	3.96	4.51	4.13	4.65	4.13	4.78	4.14	5.06	4.14	5.29	4.09
43.0	3.77	3.59	3.90	3.67	4.16	3.84	4.26	3.92	4.46	4.08	4.59	4.09	4.72	4.10	5.00	4.09	5.23	4.04
45.0	3.68	3.50	3.81	3.58	4.06	3.74	4.16	3.82	4.35	3.98	4.48	3.98	4.61	3.99	4.88	3.99	5.10	3.94
46.0	3.63	3.45	3.76	3.53	4.01	3.69	4.10	3.77	4.29	3.93	4.42	3.93	4.55	3.94	4.81	3.93	5.04	3.89

Product models : RAV-GM801DTP-A / RAV-GM801ATP-A

Standard Condition

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

Specification of product at standard condition.

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

Outdoor air temp. °C DB	Indoor Air temperature																	
	14.0 °C WB		15.0 °C WB		16.0 °C WB		17.0 °C WB		18.0 °C WB		19.0 °C WB		20.0 °C WB		22.0 °C WB		24.0 °C WB	
	20.0 °C DB		21.0 °C DB		23.0 °C DB		24.0 °C DB		26.0 °C DB		27.0 °C DB		28.0 °C DB		30.0 °C DB		32.0 °C DB	
°C DB	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
10.0	6.86	6.40	7.09	6.56	7.57	6.85	7.75	6.99	8.11	7.28	8.35	7.29	8.58	7.30	9.09	7.28	9.51	7.18
12.0	6.80	6.35	7.04	6.50	7.51	6.79	7.69	6.94	8.04	7.22	8.28	7.23	8.52	7.24	9.02	7.22	9.43	7.12
14.0	6.74	6.30	6.98	6.45	7.44	6.73	7.62	6.88	7.97	7.16	8.21	7.17	8.44	7.18	8.94	7.16	9.35	7.06
16.0	6.68	6.24	6.91	6.38	7.37	6.67	7.55	6.81	7.90	7.09	8.13	7.10	8.36	7.11	8.85	7.09	9.26	6.99
18.0	6.61	6.17	6.84	6.32	7.30	6.60	7.47	6.74	7.81	7.02	8.05	7.03	8.28	7.04	8.76	7.01	9.17	6.92
20.0	6.53	6.10	6.76	6.25	7.22	6.53	7.39	6.67	7.73	6.94	7.96	6.95	8.18	6.96	8.67	6.94	9.06	6.84
21.0	6.50	6.07	6.72	6.21	7.17	6.49	7.34	6.63	7.68	6.90	7.91	6.91	8.13	6.92	8.61	6.90	9.01	6.80
23.0	6.42	5.99	6.64	6.13	7.09	6.41	7.25	6.54	7.59	6.82	7.81	6.82	8.03	6.83	8.51	6.81	8.90	6.72
25.0	6.33	5.91	6.55	6.05	6.99	6.32	7.16	6.46	7.49	6.72	7.71	6.73	7.93	6.74	8.40	6.72	8.78	6.63
27.0	6.24	5.83	6.46	5.97	6.89	6.23	7.06	6.37	7.38	6.63	7.60	6.63	7.82	6.65	8.28	6.62	8.66	6.54
29.0	6.15	5.74	6.36	5.88	6.79	6.14	6.95	6.17	7.27	6.53	7.48	6.53	7.70	6.55	8.15	6.52	8.53	6.44
31.0	6.05	5.65	6.26	5.78	6.68	6.04	6.84	6.17	7.15	6.42	7.36	6.43	7.57	6.44	8.02	6.42	8.39	6.33
33.0	5.94	5.55	6.15	5.68	6.56	5.93	6.72	6.06	7.03	6.31	7.24	6.32	7.44	6.33	7.88	6.31	8.24	6.23
35.0	5.83	5.45	6.03	5.58	6.44	5.82	6.59	5.95	6.90	6.20	7.10	6.20	7.30	6.21	7.73	6.19	8.09	6.11
37.0	5.72	5.34	5.92	5.47	6.32	5.71	6.47	5.84	6.77	6.08	6.97	6.08	7.17	6.09	7.59	6.07	7.94	5.99
39.0	5.60	5.23	5.80	5.36	6.19	5.60	6.34	5.72	6.63	5.95	6.82	5.96	7.02	5.97	7.43	5.95	7.77	5.87
40.0	5.54	5.18	5.74	5.30	6.12	5.54	6.27	5.65	6.56	5.89	6.75	5.89	6.94	5.90	7.35	5.88	7.69	5.81
42.0	5.42	5.06	5.61	5.18	5.98	5.41	6.13	5.53	6.41	5.76	6.60	5.76	6.79	5.77	7.19	5.75	7.52	5.68
43.0	5.35	5.00	5.54	5.12	5.91	5.35	6.05	5.46	6.33	5.69	6.52	5.69	6.70	5.70	7.10	5.68	7.43	5.61
45.0	5.22	4.88	5.40	4.99	5.77	5.22	5.90	5.33	6.18	5.55	6.36	5.55	6.54	5.56	6.93	5.54	7.24	5.47
46.0	5.15	4.81	5.33	4.93	5.69	5.15	5.83	5.26	6.10	5.48	6.28	5.48	6.46	5.49	6.84	5.47	7.15	5.40

Product models : RAV-GM1101DTP-A / RAV-GM1101ATP-A

Standard Condition

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

Specification of product at standard condition.

Total Cooling Capacity (TC)	10.00 kW
Sensible Heat Capacity (SHC)	8.90 kW

Outdoor air temp. °C DB	Indoor Air temperature																	
	14.0 °C WB		15.0 °C WB		16.0 °C WB		17.0 °C WB		18.0 °C WB		19.0 °C WB		20.0 °C WB		22.0 °C WB		24.0 °C WB	
	20.0 °C DB		21.0 °C DB		23.0 °C DB		24.0 °C DB		26.0 °C DB		27.0 °C DB		28.0 °C DB		30.0 °C DB		32.0 °C DB	
	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
10.0	9.66	9.18	9.99	9.40	10.66	9.82	10.92	10.03	11.42	10.45	11.76	10.46	12.09	10.49	12.80	10.46	13.39	10.34
12.0	9.58	9.11	9.91	9.33	10.58	9.74	10.83	9.95	11.33	10.36	11.66	10.38	11.99	10.40	12.70	10.38	13.29	10.25
14.0	9.49	9.03	9.82	9.24	10.49	9.66	10.73	9.86	11.23	10.27	11.56	10.29	11.89	10.31	12.59	10.29	13.17	10.17
16.0	9.40	8.94	9.73	9.16	10.39	9.56	10.63	9.77	11.12	10.18	11.45	10.19	11.78	10.21	12.47	10.19	13.04	10.07
18.0	9.31	8.85	9.63	9.06	10.28	9.47	10.52	9.67	11.01	10.07	11.33	10.08	11.66	10.11	12.34	10.09	12.91	9.96
20.0	9.20	8.75	9.52	8.96	10.16	9.36	10.40	9.56	10.88	9.96	11.21	9.97	11.53	10.00	12.21	9.97	12.77	9.85
21.0	9.15	8.70	9.47	8.91	10.10	9.31	10.34	9.51	10.82	9.90	11.14	9.91	11.46	9.94	12.13	9.92	12.69	9.80
23.0	9.04	8.59	9.35	8.80	9.98	9.19	10.22	9.39	10.69	9.78	11.00	9.79	11.32	9.81	11.98	9.79	12.53	9.67
25.0	8.92	8.48	9.23	8.68	9.85	9.07	10.08	9.26	10.54	9.65	10.86	9.66	11.17	9.68	11.82	9.66	12.37	9.55
27.0	8.79	8.36	9.10	8.56	9.71	8.94	9.94	9.13	10.39	9.51	10.70	9.52	11.01	9.55	11.66	9.53	12.19	9.41
29.0	8.66	8.23	8.96	8.43	9.56	8.80	9.79	8.99	10.24	9.37	10.54	9.38	10.84	9.40	11.48	9.38	12.01	9.27
31.0	8.52	8.10	8.81	8.29	9.41	8.66	9.63	8.85	10.07	9.22	10.37	9.23	10.67	9.25	11.29	9.23	11.81	9.12
33.0	8.37	7.96	8.66	8.15	9.24	8.51	9.46	8.70	9.90	9.06	10.19	9.07	10.48	9.09	11.10	9.07	11.61	8.96
35.0	8.21	7.81	8.50	8.00	9.07	8.35	9.29	8.53	9.71	8.89	10.00	8.90	10.29	8.92	10.89	8.90	11.39	8.79
37.0	8.06	7.66	8.34	7.85	8.90	8.20	9.11	8.37	9.53	8.72	9.81	8.73	10.09	8.75	10.69	8.73	11.18	8.63
39.0	7.89	7.50	8.17	7.68	8.72	8.03	8.92	8.20	9.33	8.54	9.61	8.55	9.88	8.57	10.47	8.55	10.95	8.45
40.0	7.81	7.42	8.08	7.60	8.62	7.94	8.83	8.11	9.23	8.45	9.51	8.46	9.78	8.48	10.35	8.46	10.83	8.36
42.0	7.63	7.26	7.90	7.43	8.43	7.76	8.63	7.93	9.03	8.26	9.29	8.27	9.56	8.29	10.12	8.27	10.59	8.17
43.0	7.54	7.17	7.80	7.34	8.33	7.67	8.53	7.83	8.92	8.16	9.18	8.17	9.44	8.19	10.00	8.17	10.46	8.07
45.0	7.36	6.99	7.61	7.16	8.12	7.48	8.32	7.64	8.70	7.96	8.96	7.97	9.21	7.99	9.75	7.97	10.20	7.88
46.0	7.26	6.90	7.51	7.07	8.02	7.38	8.21	7.54	8.59	7.86	8.84	7.87	9.09	7.89	9.63	7.87	10.07	7.77

Product models : RAV-GM1401DTP-A / RAV-GM1401ATP-A

Standard Condition

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

Specification of product at standard condition.

Total Cooling Capacity (TC)	12.50 kW
Sensible Heat Capacity (SHC)	10.90 kW

Outdoor air temp. °C DB	Indoor Air temperature																	
	14.0 °C WB		15.0 °C WB		16.0 °C WB		17.0 °C WB		18.0 °C WB		19.0 °C WB		20.0 °C WB		22.0 °C WB		24.0 °C WB	
	20.0 °C DB		21.0 °C DB		23.0 °C DB		24.0 °C DB		26.0 °C DB		27.0 °C DB		28.0 °C DB		30.0 °C DB		32.0 °C DB	
	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
10.0	12.07	11.26	12.49	11.53	13.33	12.04	13.64	12.29	14.27	12.80	14.69	12.81	15.11	12.84	16.01	12.79	16.74	12.62
12.0	11.97	11.17	12.39	11.43	13.22	11.94	13.54	12.20	14.16	12.70	14.58	12.71	14.99	12.73	15.88	12.69	16.61	12.52
14.0	11.87	11.07	12.28	11.33	13.11	11.84	13.42	12.09	14.04	12.59	14.45	12.60	14.86	12.62	15.74	12.58	16.46	12.41
16.0	11.76	10.97	12.16	11.23	12.98	11.72	13.29	11.97	13.90	12.47	14.31	12.48	14.72	12.50	15.59	12.46	16.30	12.29
18.0	11.63	10.85	12.04	11.11	12.85	11.60	13.15	11.85	13.76	12.34	14.16	12.35	14.57	12.37	15.43	12.33	16.14	12.17
20.0	11.50	10.73	11.90	10.99	12.71	11.47	13.01	11.72	13.61	12.20	14.01	12.21	14.41	12.24	15.26	12.19	15.96	12.03
21.0	11.44	10.67	11.83	10.92	12.63	11.41	12.93	11.65	13.53	12.13	13.92	12.14	14.32	12.16	15.17	12.12	15.86	11.96
23.0	11.30	10.54	11.69	10.79	12.47	11.26	12.77	11.51	13.36	11.98	13.75	11.99	14.14	12.01	14.98	11.97	15.67	11.81
25.0	11.15	10.40	11.53	10.64	12.31	11.11	12.60	11.35	13.18	11.82	13.57	11.83	13.96	11.85	14.78	11.81	15.46	11.65
27.0	10.99	10.25	11.37	10.49	12.13	10.96	12.42	11.19	12.99	11.66	13.38	11.66	13.76	11.69	14.57	11.64	15.24	11.49
29.0	10.82	10.09	11.20	10.33	11.95	10.79	12.23	11.02	12.80	11.48	13.17	11.49	13.55	11.51	14.35	11.47	15.01	11.32
31.0	10.65	9.93	11.02	10.17	11.76	10.62	12.04	10.84	12.59	11.29	12.96	11.30	13.33	11.32	14.12	11.28	14.77	11.13
33.0	10.46	9.76	10.83	9.99	11.56	10.43	11.83	10.66	12.37	11.10	12.74	11.11	13.10	11.13	13.88	11.09	14.51	10.94
35.0	10.27	9.58	10.62	9.81	11.34	10.24	11.61	10.46	12.14	10.89	12.50	10.90	12.86	10.92	13.62	10.88	14.24	10.74
37.0	10.07	9.40	10.42	9.62	11.12	10.05	11.39	10.26	11.91	10.69	12.26	10.69	12.61	10.71	13.36	10.68	13.97	10.53
39.0	9.87	9.20	10.21	9.42	10.90	9.84	11.15	10.05	11.67	10.47	12.01	10.47	12.35	10.49	13.08	10.46	13.68	10.32
40.0	9.76	9.10	10.10	9.32	10.78	9.73	11.03	9.94	11.54	10.35	11.88	10.36	12.22	10.38	12.94	10.34	13.54	10.21
42.0	9.54	8.90	9.87	9.11	10.53	9.51	10.78	9.72	11.28	10.12	11.61	10.13	11.95	10.15	12.65	10.11	13.23	9.98
43.0	9.43	8.79	9.75	9.00	10.41	9.40	10.66	9.60	11.15	10.00	11.48	10.01	11.80	10.03	12.50	9.99	13.07	9.86
45.0	9.19	8.58	9.51	8.78	10.15	9.17	10.39	9.37	10.87	9.75	11.19	9.76	11.51	9.78	12.19	9.74	12.75	9.61
46.0	9.08	8.47	9.39	8.67	10.02	9.05	10.26	9.24	10.73	9.63	11.05	9.63	11.36	9.65	12.04	9.62	12.59	9.49

Product models : RAV-GM1601DTP-A / RAV-GM1601AT(8)P-A

Standard Condition

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

Specification of product at standard condition.

Total Cooling Capacity (TC)	14.00 kW
Sensible Heat Capacity (SHC)	12.20 kW

Outdoor air temp. °C DB	Indoor Air temperature																	
	14.0 °C WB		15.0 °C WB		16.0 °C WB		17.0 °C WB		18.0 °C WB		19.0 °C WB		20.0 °C WB		22.0 °C WB		24.0 °C WB	
	20.0 °C DB		21.0 °C DB		23.0 °C DB		24.0 °C DB		26.0 °C DB		27.0 °C DB		28.0 °C DB		30.0 °C DB		32.0 °C DB	
	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
10.0	13.52	12.60	13.99	12.90	14.93	13.47	15.28	13.76	15.99	14.33	16.46	14.34	16.93	14.37	17.93	14.32	18.75	14.12
12.0	13.41	12.50	13.88	12.80	14.81	13.36	15.16	13.65	15.86	14.22	16.33	14.23	16.79	14.25	17.78	14.20	18.60	14.01
14.0	13.29	12.39	13.75	12.69	14.68	13.25	15.03	13.53	15.72	14.09	16.18	14.10	16.65	14.13	17.63	14.08	18.44	13.89
16.0	13.17	12.27	13.62	12.57	14.54	13.12	14.88	13.40	15.57	13.96	16.03	13.97	16.49	13.99	17.46	13.94	18.26	13.76
18.0	13.03	12.15	13.48	12.44	14.39	12.99	14.73	13.26	15.41	13.81	15.86	13.82	16.32	13.85	17.28	13.80	18.07	13.62
20.0	12.89	12.01	13.33	12.30	14.23	12.84	14.57	13.12	15.24	13.66	15.69	13.67	16.14	13.69	17.09	13.65	17.87	13.46
21.0	12.81	11.94	13.25	12.22	14.15	12.77	14.48	13.04	15.15	13.58	15.59	13.59	16.04	13.61	16.99	13.57	17.77	13.38
23.0	12.65	11.79	13.09	12.07	13.97	12.61	14.30	12.88	14.96	13.41	15.40	13.42	15.84	13.45	16.78	13.40	17.55	13.22
25.0	12.48	11.64	12.92	11.91	13.79	12.44	14.11	12.71	14.76	13.23	15.20	13.24	15.63	13.27	16.55	13.22	17.31	13.04
27.0	12.31	11.47	12.73	11.74	13.59	12.26	13.91	12.53	14.55	13.05	14.98	13.06	15.41	13.08	16.32	13.03	17.07	12.86
29.0	12.12	11.30	12.54	11.57	13.38	12.08	13.70	12.34	14.33	12.85	14.75	12.86	15.18	12.88	16.07	12.84	16.81	12.66
31.0	11.92	11.12	12.34	11.38	13.17	11.88	13.48	12.14	14.10	12.64	14.52	12.65	14.93	12.67	15.81	12.63	16.54	12.46
33.0	11.72	10.93	12.13	11.18	12.94	11.68	13.25	11.93	13.86	12.42	14.27	12.43	14.68	12.46	15.54	12.41	16.25	12.25
35.0	11.50	10.72	11.90	10.97	12.70	11.46	13.00	11.71	13.60	12.19	14.00	12.20	14.40	12.22	15.25	12.18	15.95	12.02
37.0	11.28	10.52	11.67	10.77	12.46	11.24	12.75	11.48	13.34	11.96	13.74	11.97	14.13	11.99	14.96	11.95	15.65	11.79
39.0	11.05	10.30	11.43	10.55	12.20	11.01	12.49	11.25	13.07	11.71	13.45	11.72	13.84	11.74	14.65	11.70	15.33	11.55
40.0	10.93	10.19	11.31	10.43	12.07	10.89	12.36	11.13	12.93	11.59	13.31	11.60	13.69	11.62	14.50	11.58	15.16	11.42
42.0	10.68	9.96	11.06	10.20	11.80	10.65	12.08	10.88	12.64	11.33	13.01	11.34	13.38	11.36	14.17	11.32	14.82	11.16
43.0	10.56	9.84	10.92	10.08	11.66	10.52	11.94	10.75	12.49	11.19	12.85	11.20	13.22	11.22	14.00	11.18	14.64	11.03
45.0	10.30	9.60	10.66	9.83	11.37	10.26	11.64	10.48	12.18	10.92	12.54	10.93	12.90	10.94	13.66	10.91	14.28	10.76
46.0	10.16	9.48	10.52	9.70	11.22	10.13	11.49	10.35	12.02	10.78	12.37	10.78	12.73	10.80	13.48	10.77	14.10	10.62

Combination

Indoor: RAV-GM1401DTP-A
Outdoor: RAV-GM1401ATP-A

Operation range		Cooling		Heating	
		Q	P	Q	P
MINIMUM	W	3000	1260	3000	1060
RATING	W	12500	3910	14000	3880
MAXIMUM	W	14000	5500	16000	4550

Cooling

Outdoor Temperature DB (°C)	Parts Load (%)																			
	100		90		80		70		60		50		40		30		20		10	
	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P
20	14906	3069	13416	2796	11925	2522	10434	2248	8944	1974	7453	1701	5963	1427	4472	1153	3578	989	3578	989
21	14746	3125	13271	2847	11797	2568	10322	2289	8848	2011	7373	1732	5898	1453	4424	1174	3539	1007	3539	1007
22	14585	3181	13127	2898	11668	2614	10210	2330	8751	2047	7293	1763	5834	1479	4376	1195	3501	1025	3501	1025
23	14425	3237	12983	2949	11540	2660	10098	2371	8655	2083	7213	1794	5770	1505	4328	1217	3462	1043	3462	1043
24	14265	3294	12838	3000	11412	2706	9985	2412	8559	2119	7132	1825	5706	1531	4279	1238	3424	1061	3424	1061
25	14104	3350	12694	3051	11283	2752	9873	2453	8463	2155	7052	1856	5642	1557	4231	1259	3385	1079	3385	1079
26	13944	3406	12549	3102	11155	2798	9761	2494	8366	2191	6972	1887	5578	1583	4183	1280	3347	1097	3347	1097
27	13783	3462	12405	3153	11027	2844	9648	2536	8270	2227	6892	1918	5513	1609	4135	1301	3308	1116	3308	1116
28	13623	3518	12261	3204	10898	2890	9536	2577	8174	2263	6811	1949	5449	1635	4087	1322	3270	1134	3270	1134
29	13463	3574	12116	3255	10770	2936	9424	2618	8078	2299	6731	1980	5385	1662	4039	1343	3231	1152	3231	1152
30	13302	3630	11972	3306	10642	2982	9311	2659	7981	2335	6651	2011	5321	1688	3991	1364	3193	1170	3193	1170
31	13142	3686	11828	3357	10513	3028	9199	2700	7885	2371	6571	2042	5257	1714	3943	1385	3154	1188	3154	1188
32	12981	3742	11683	3408	10385	3074	9087	2741	7789	2407	6491	2073	5193	1740	3894	1406	3116	1206	3116	1206
33	12821	3798	11539	3459	10257	3121	8975	2782	7693	2443	6410	2104	5128	1766	3846	1427	3077	1224	3077	1224
34	12660	3854	11394	3510	10128	3167	8862	2823	7596	2479	6330	2136	5064	1792	3798	1448	3039	1242	3039	1242
35	12500	3910	11250	3561	10000	3213	8750	2864	7500	2515	6250	2167	5000	1818	3750	1469	3000	1260	3000	1260
36	12340	3966	11106	3612	9872	3259	8638	2905	7404	2551	6170	2198	4936	1844	3702	1490	2962	1278	2962	1278
37	12179	4022	10961	3663	9743	3305	8525	2946	7308	2587	6090	2229	4872	1870	3654	1511	2923	1296	2923	1296
38	12019	4078	10817	3714	9615	3351	8413	2987	7211	2623	6009	2260	4808	1896	3606	1532	2885	1314	2885	1314
39	11858	4134	10673	3765	9487	3397	8301	3028	7115	2659	5929	2291	4743	1922	3558	1553	2846	1332	2846	1332
40	11661	4151	10495	3781	9329	3411	8163	3041	6997	2670	5830	2300	4664	1930	3498	1560	2799	1338	2799	1338
41	11448	4151	10303	3781	9158	3411	8013	3041	6869	2670	5724	2300	4579	1930	3434	1560	2747	1338	2747	1338
42	11234	4151	10111	3781	8988	3411	7864	3041	6741	2670	5617	2300	4494	1930	3370	1560	2696	1338	2696	1338
43	11021	4151	9919	3781	8817	3411	7715	3041	6613	2670	5511	2300	4408	1930	3306	1560	2645	1338	2645	1338
44	10620	3952	9558	3600	8496	3247	7434	2895	6372	2542	5310	2190	4248	1838	3186	1485	2549	1274	2549	1274
45	10407	3952	9366	3600	8326	3247	7285	2895	6244	2542	5204	2190	4163	1838	3122	1485	2498	1274	2498	1274
46	10194	3952	9174	3600	8155	3247	7136	2895	6116	2542	5097	2190	4078	1838	3058	1485	2447	1274	2447	1274

Heating

Outdoor Temperature DB (°C)	Parts Load (%)																			
	100		90		80		70		60		50		40		30		20		10	
	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P
-15	8116	842	7304	764	6493	686	5681	608	4870	530	4058	452	3246	374	2435	297	1739	230	1739	230
-14	8238	905	7414	821	6590	737	5766	654	4943	570	4119	486	3295	403	2471	319	1765	247	1765	247
-13	8359	968	7523	878	6688	789	5852	699	5016	610	4180	520	3344	431	2508	341	1791	264	1791	264
-12	8481	1031	7633	936	6785	840	5937	745	5089	649	4241	554	3392	459	2544	363	1817	282	1817	282
-11	8603	1094	7743	993	6882	892	6022	790	5162	689	4301	588	3441	487	2581	386	1843	299	1843	299
-10	8725	1157	7852	1050	6980	943	6107	836	5235	729	4362	622	3490	515	2617	408	1870	316	1870	316
-9	8846	1220	7962	1107	7077	995	6192	882	5308	769	4423	656	3539	543	2654	430	1896	333	1896	333
-8	8968	1283	8071	1165	7174	1046	6278	927	5381	809	4484	690	3587	571	2690	452	1922	351	1922	351
-7	9090	1347	8181	1222	7272	1097	6363	973	5454	848	4545	724	3636	599	2727	475	1948	368	1948	368
-6	9207	1578	8286	1432	7366	1286	6445	1140	5524	994	4604	848	3683	702	2762	556	1973	431	1973	431
-5	9324	1810	8392	1643	7459	1475	6527	1308	5595	1140	4662	973	3730	806	2797	638	1998	495	1998	495
-4	9442	2042	8497	1853	7553	1664	6609	1475	5665	1287	4721	1098	3777	909	2832	720	2023	558	2023	558
-3	9559	2274	8603	2064	7647	1853	6691	1643	5735	1433	4779	1222	3824	1012	2868	802	2048	621	2048	621
-2	9676	2506	8708	2274	7741	2042	6773	1811	5806	1579	4838	1347	3870	1115	2903	883	2073	685	2073	685
-1	9793	2738	8814	2485	7835	2231	6855	1978	5876	1725	4897	1472	3917	1218	2938	965	2099	748	2099	748
0	9910	2970	8919	2695	7928	2420	6937	2146	5946	1871	4955	1596	3964	1322	2973	1047	2124	811	2124	811
1	10028	3202	9025	2906	8022	2609	7019	2313	6017	2017	5014	1721	4011	1425	3008	1129	2149	875	2149	875
2	10145	3434	9130	3116	8116	2798	7101	2481	6087	2163	5072	1846	4058	1528	3043	1210	2174	938	2174	938
3	10311	3480	9280	3158	8249	2836	7218	2514	6187	2192	5156	1870	4124	1548	3093	1227	2210	951	2210	951
4	10477	3526	9430	3200	8382	2874	7334	2547	6286	2221	5239	1895	4191	1569	3143	1243	2245	963	2245	963
5	10643	3572	9579	3242	8515	2911	7450	2581	6386	2250	5322	1920	4257	1590	3193	1259	2281	976	2281	976
6	13639	3820	12275	3467	10911	3113	9547	2760	8183	2407	6819	2053	5455	1700	4092	1346	2923	1044	2923	1044
7	14000	3880	12600	3521	11200	3162	9800	2803	8400	2444	7000	2085	5600	1727	4200	1368	3000	1060	3000	1060
8	14361	3940	12925	3576	11489	3211	10053	2847	8617	2482	7181	2118	5745	1753	4308	1389	3077	1076	3077	1076
9	14723	4000	13250	3630	11778	3260	10306	2890	8834	2520	7361	2150	5889	1780	4417	1410	3155	1093	3155	1093
10	15084	4060	13575	3685	12067	3309	10559	2933	9050	2558	7542	2182	6034	1807	4525	1431	3232	1109	3232	1109
11	15445	4120	13901	3739	12356	3358	10812	2977	9267	2596	7723	2215	6178	1833	4634	1452	3310	1126	3310	1126
12	15806	4180	14226	3794	12645	3407	11065	3020	9484	2634	7903	2247	6323	1860	4742	1474	3387	1142	3387	1142
13	16168	4240	14551	3848	12934	3456	11317	3064	9701	2671	8084	2279	6467	1887	4850	1495	3465	1158	3465	1158
14	16529	4301	14876	3903	13223	3505	11570	3107	9917	2709	8265	2311	6612	1914	4959	1516	3542	1175	3542	1175
15	16890	4361	15201	3957	13512	3554	11823	3151	10134	2747	8445	2344	6756	1940	5067	1537	3619	1191	3619	1191
16	17252	4421	15526	4012	13801	3603	12076	3194	10351	2785	8626	2376	6901	1967	5175	1558	3697	1208	3697	1208
17	17613	4481	15852	4066	14090	3652	12329	3237	10568	2823	8806	2408	7045	1994	5284	1579	3774	1224	3774	1224
18	17974	4541	16177	4121	14379	3701	12582	3281	10785	2861	8987	2441	7190	2021	5392	1601	3852	1241	3852	1241
19	18335	4601	16502	4175	14668	3750	12835	3324	11001	2899	9168	2473	7334	2047	5501	1622	3929	1257	3929	1257
20	18697	4661	16827	4230	14957	3799	13088	3368	11218	2936	9348	2505	7479	2074	5609	1643	4006	1273	4006	1273
21	19058	4721	17152	4284	15246	3848	13341	3411	11435	2974	9529	2538	7623	2101	5717	1664	4084	1290	4084	1290
22	19419	4781	17477	4339	15535	3897	13594	3454	11652	3012	9710	2570	7768	2128	5826	1685	4161	1306	4161	1306
23	19781	4841	17803	4393	15825	3946	13846	3498	11868	3050	9890	2602	7912	2154	5934	1706	4239	1323	4239	1323
24	20142	4901	18128	4448	16114	3995	14099	3541	12085	3088	10071	2634	8057	2181	6043	1728	4316	1339	4316	1339

Combination

Indoor: RAV-GM1601DTP-A
Outdoor: RAV-GM1601ATP-A

Operation range		Cooling		Heating	
		Q	P	Q	P
MINIMUM	W	3000	1310	3000	1180
RATING	W	14000	4370	16000	4150
MAXIMUM	W	16000	6000	18000	5150

Cooling

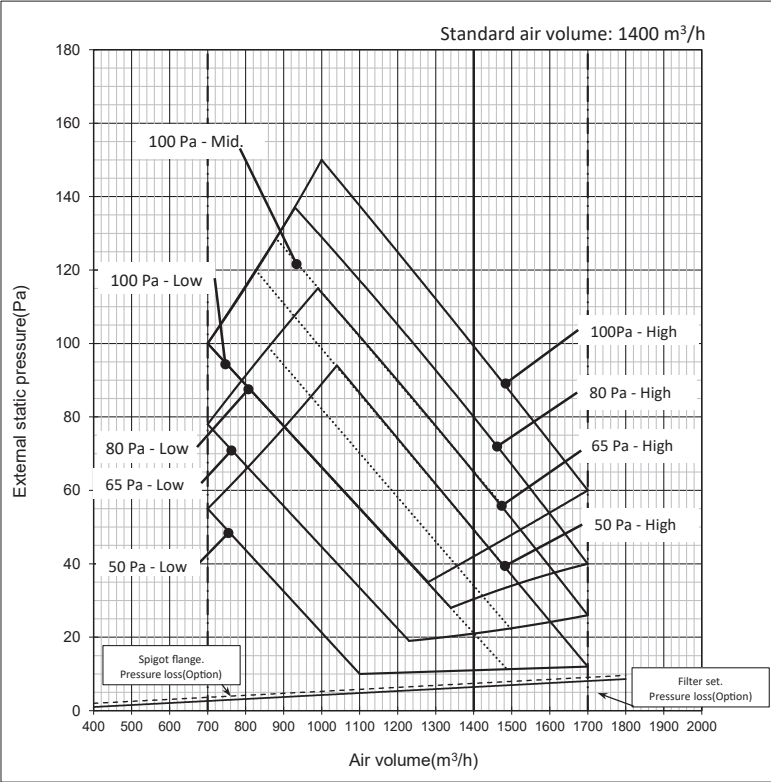
Outdoor Temperature DB (°C)	Parts Load (%)																			
	100		90		80		70		60		50		40		30		20		10	
	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P
20	16695	3430	15026	3125	13356	2819	11687	2513	10017	2208	8348	1902	6678	1596	5009	1290	3578	1028	3578	1028
21	16515	3493	14864	3182	13212	2870	11561	2559	9909	2248	8258	1937	6606	1625	4955	1314	3539	1047	3539	1047
22	16336	3556	14702	3239	13069	2922	11435	2605	9801	2288	8168	1971	6534	1654	4901	1338	3501	1066	3501	1066
23	16156	3618	14540	3296	12925	2973	11309	2651	9694	2328	8078	2006	6462	1684	4847	1361	3462	1085	3462	1085
24	15976	3681	14379	3353	12781	3025	11183	2697	9586	2369	7988	2041	6391	1713	4793	1385	3424	1103	3424	1103
25	15797	3744	14217	3410	12637	3076	11058	2743	9478	2409	7898	2075	6319	1742	4739	1408	3385	1122	3385	1122
26	15617	3806	14055	3467	12494	3128	10932	2789	9370	2449	7809	2110	6247	1771	4685	1432	3347	1141	3347	1141
27	15437	3869	13894	3524	12350	3179	10806	2835	9262	2490	7719	2145	6175	1800	4631	1455	3308	1160	3308	1160
28	15258	3932	13732	3581	12206	3231	10680	2880	9155	2530	7629	2180	6103	1829	4577	1479	3270	1179	3270	1179
29	15078	3994	13570	3638	12062	3282	10555	2926	9047	2570	7539	2214	6031	1858	4523	1502	3231	1197	3231	1197
30	14898	4057	13409	3695	11919	3334	10429	2972	8939	2611	7449	2249	5959	1888	4470	1526	3193	1216	3193	1216
31	14719	4119	13247	3752	11775	3385	10303	3018	8831	2651	7359	2284	5887	1917	4416	1550	3154	1235	3154	1235
32	14539	4182	13085	3809	11631	3437	10177	3064	8723	2691	7270	2319	5816	1946	4362	1573	3116	1254	3116	1254
33	14359	4245	12923	3866	11487	3488	10052	3110	8616	2732	7180	2353	5744	1975	4308	1597	3077	1272	3077	1272
34	14180	4307	12762	3923	11344	3540	9926	3156	8508	2772	7090	2388	5672	2004	4254	1620	3039	1291	3039	1291
35	14000	4370	12600	3981	11200	3591	9800	3202	8400	2812	7000	2423	5600	2033	4200	1644	3000	1310	3000	1310
36	13820	4433	12438	4038	11056	3643	9674	3248	8292	2852	6910	2457	5528	2062	4146	1667	2962	1329	2962	1329
37	13641	4495	12277	4095	10913	3694	9548	3293	8184	2893	6820	2492	5456	2092	4092	1691	2923	1348	2923	1348
38	13461	4558	12115	4152	10769	3746	9423	3339	8077	2933	6731	2527	5384	2121	4038	1715	2885	1366	2885	1366
39	13281	4621	11953	4209	10625	3797	9297	3385	7969	2973	6641	2562	5313	2150	3984	1738	2846	1385	2846	1385
40	13102	4683	11792	4266	10481	3848	9171	3431	7861	3014	6551	2596	5241	2179	3931	1762	2808	1404	2808	1404
41	12922	4746	11630	4323	10338	3900	9045	3477	7753	3054	6461	2631	5169	2208	3877	1785	2769	1423	2769	1423
42	12742	4808	11468	4380	10194	3951	8920	3523	7645	3094	6371	2666	5097	2237	3823	1809	2731	1441	2731	1441
43	12563	4871	11306	4437	10050	4003	8794	3569	7538	3135	6281	2701	5025	2266	3769	1832	2692	1460	2692	1460
44	12383	4934	11145	4494	9906	4054	8668	3615	7430	3175	6192	2735	4953	2296	3715	1856	2654	1479	2654	1479
45	12203	4996	10983	4551	9763	4106	8542	3661	7322	3215	6102	2770	4881	2325	3661	1879	2615	1498	2615	1498
46	12024	5059	10821	4608	9619	4157	8417	3706	7214	3256	6012	2805	4809	2354	3607	1903	2577	1517	2577	1517

Heating

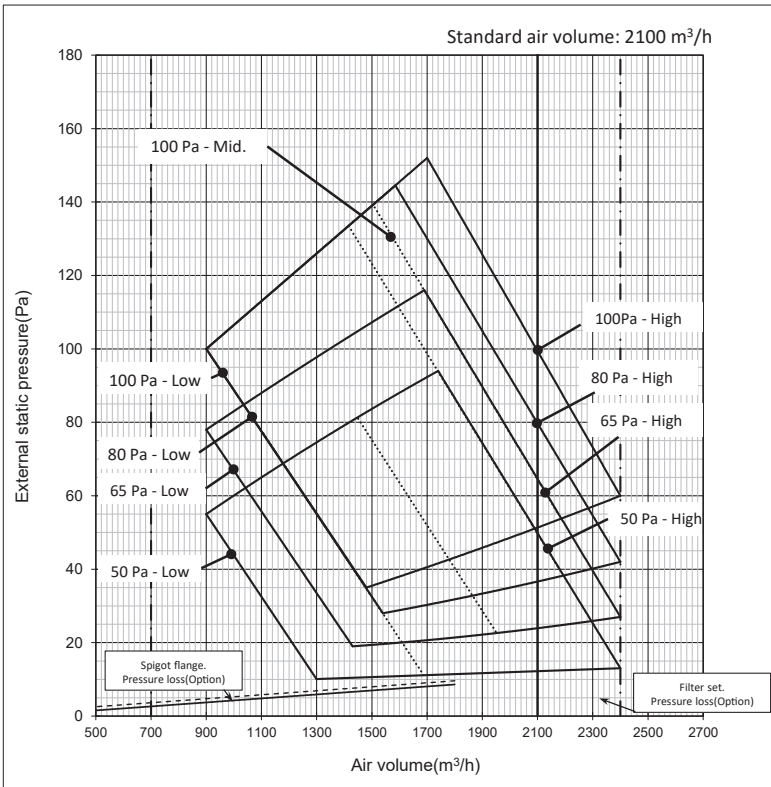
Outdoor Temperature DB (°C)	Parts Load (%)																			
	100		90		80		70		60		50		40		30		20		10	
	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P
-15	9275	900	8348	821	7420	742	6493	662	5565	583	4638	504	3710	424	2783	345	1855	266	1739	256
-14	9414	968	8473	882	7532	797	6590	712	5649	627	4707	541	3766	456	2824	371	1883	286	1765	275
-13	9554	1035	8598	944	7643	853	6688	762	5732	670	4777	579	3821	488	2866	397	1911	306	1791	294
-12	9693	1103	8723	1006	7754	908	6785	811	5816	714	4846	617	3877	520	2908	423	1939	326	1817	314
-11	9832	1170	8849	1067	7866	964	6882	861	5899	758	4916	655	3933	552	2950	449	1966	346	1843	333
-10	9971	1238	8974	1129	7977	1020	6980	911	5983	802	4986	693	3988	584	2991	475	1994	366	1870	352
-9	10110	1305	9099	1190	8088	1075	7077	960	6066	845	5055	730	4044	615	3033	500	2022	385	1896	371
-8	10249	1373	9224	1252	8199	1131	7174	1010	6150	889	5125	768	4100	647	3075	526	2050	405	1922	390
-7	10388	1440	9350	1313	8311	1187	7272	1060	6233	933	5194	806	4155	679	3117	552	2078	425	1948	410
-6	10522	1508	9470	1340	8418	1242	7366	1093	6313	993	5261	845	4209	716	3157	577	2104	444	1973	420
-5	10656	1576	9591	1367	8525	1297	7459	1115	6394	1048	5328	894	4263	747	3197	602	2131	463	1998	439
-4	10790	1644	9711	1387	8632	1352	7553	1140	6474	1074	5395	922	4316	770	3237	627	2158	482	2023	451
-3	10924	1712	9832	1407	8739	1407	7647	1160	6555	1093	5462	951	4370	797	3277	652	2185	501	2048	462
-2	11058	1780	9952	1427	8847	1462	7741	1177	6635	1113	5529	970	4423	824	3317	677	2212	520	2073	473
-1	11192	1848	10073	1447	8954	1517	7835	1193	6715	1133	5596	989	4477	841	3358	702	2238	539	2099	484
0	11326	1916	10194	1467	9061	1572	7928	1213	6796	1153	5663	1008	4530	868	3398	727	2265	558	2124	495
1	11460	1984	10314	1487	9168	1627	8022	1233	6876	1173	5730	1028	4584	888	3438	747	2292	577	2149	506
2	11594	2052	10435	1507	9275	1682	8116	1253	6957	1193	5797	1048	4638	908	3478	767	2319	596	2174	517
3	11728	2120	10556	1527	9382	1737	8209	1273	7037	1213	5864	1068	4692	928	3518	787	2340	615	2199	528
4	11862	2188	10677	1547	9489	1792	8302	1293	7117	1233	5931	1088	4746	948	3558	807	2361	634	2224	539
5	12000	2256	10798	1567	9596	1847	8395	1313	7197	1253	6000	1108	4799	968	3598	827	2382	653	2249	550
6	12134	2324	10919	1587	9703	1902	8488	1333	7277	1273	6069	1128	4853	988	3638	847	2403	672	2274	561
7	12268	2392	11040	1607	9810	1957	8581	1353	7357	1293	6138	1148	4907	1008	3678	867	2424	691	2299	572
8	12402	2460	11161	1627	9917	2012	8674	1373	7437	1313	6207	1168	4961	1028	3718	887	2445	710	2324	583
9	12536	2528	11282	1647	10024	2067	8767	1393	7517	1333	6276	1188	5015	1048	3758	907	2466	729	2349	594
10	12670	2596	11403	1667	10131	2122	8860	1413	7597	1353	6345	1208	5069	1068	3798	927	2487	748	2374	605
11	12804	2664	11524	1687	10238	2177	8953	1433	7677	1373	6414	1228	5123	1088	3838	947	2508	767	2399	616
12	12938	2732	11645	1707	10345	2232	9046	1453	7757	1393	6483	1248	5177	1108	3878	967	2529	786	2424	627
13	13072	2800	11766	1727	10452	2287	9139	1473	7837	1413	6552	1268	5231	1128	3918	987	2550	805	2449	638
14	13206	2868	11887	1747	10559	2342	9232	1493	7917	1433	6621	1288	5283	1148	3958	1007	2571	824	2474	649
15	13340	2936	12008	1767	10666	2397	9325	1513	8000	1453	6690	1308	5335	1168	3998	1027	2592	843	2499	660
16	13474	3004	12129	1787	10773	2452	9418	1533	8080	1473	6759	1328	5387	1188	4038	1047	2613	862	2524	671
17	13608	3072	12250	1807	10880	2507	9511	1553	8160	1493	6828	1348	5439	1208	4078	1067	2634	881	2549	682
18	13742	3140	12371	1827	10987	2562	9604	1573	8240	1513	6897	1368	5491	1228	4118	1087	2655	900	2574	693
19	13876	3208	12492	1847	11094	2617	9697	1593	8320	1533	6966	1388	5543	1248	4158	1107	2676	919	2599	704
20	14010	3276	12613	1867	11201	2672	9790	1613	8400	1553	7035	1408	5595	1268	4198	1127	2697	938	2624	715
21	14144	3344	12734	1887	11308	2727	9883	1633	8480	1573	7104	1428	5647	1288	4238	1147	2718	957	2649	726
22	14278	3412	12855	1907	11415	2782	9976	1653	8560	1593	7173	1448	5699	1308	4278	1167	2739	976	2674	737
23	14412	3480	12976	1927	11522	2837	10069	1673	8640	1613	7242	1468	5751	1328	4318	1187	2760	995	2699	748
24	14546	3548	13097	1947	11629	2892	10162	1693	8720	1633	7311	1488	5803	1348	4358	1207	2781	1014	2724	759

2-4-6. Air Speed Distribution

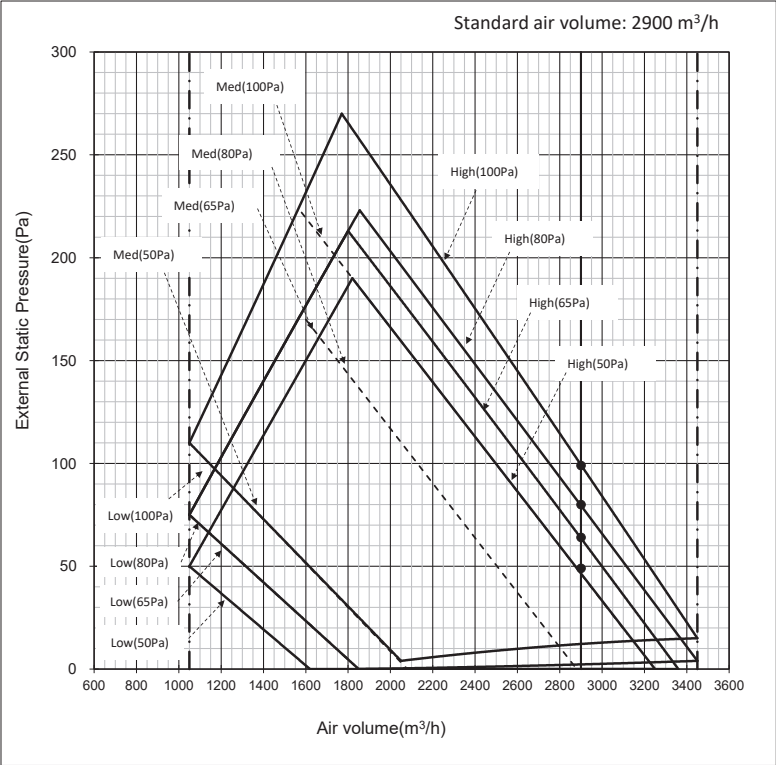
RAV-GM561DTP-A



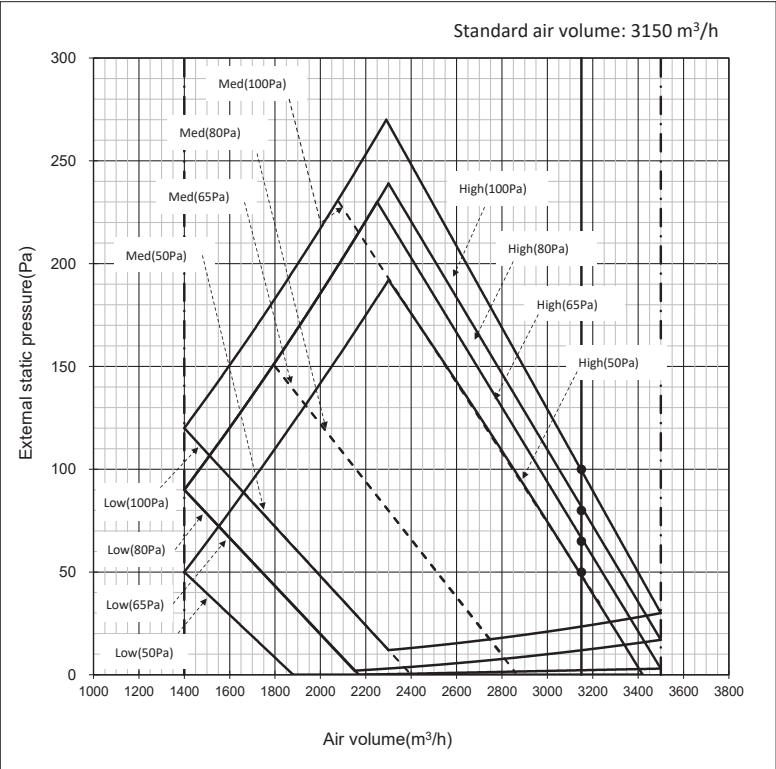
RAV-GM801DTP-A



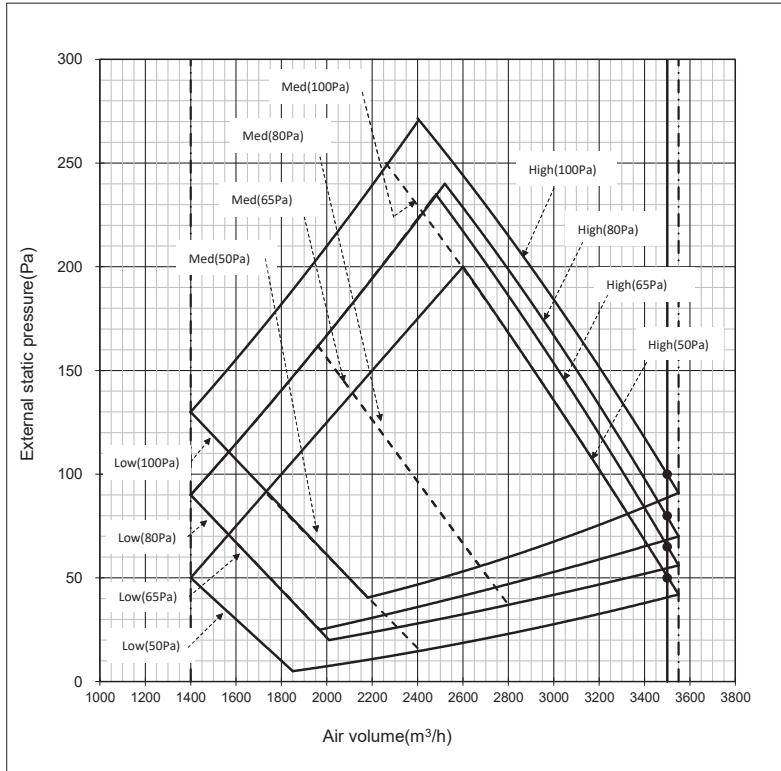
RAV-GM1101DTP-A



RAV-GM1401DTP-A



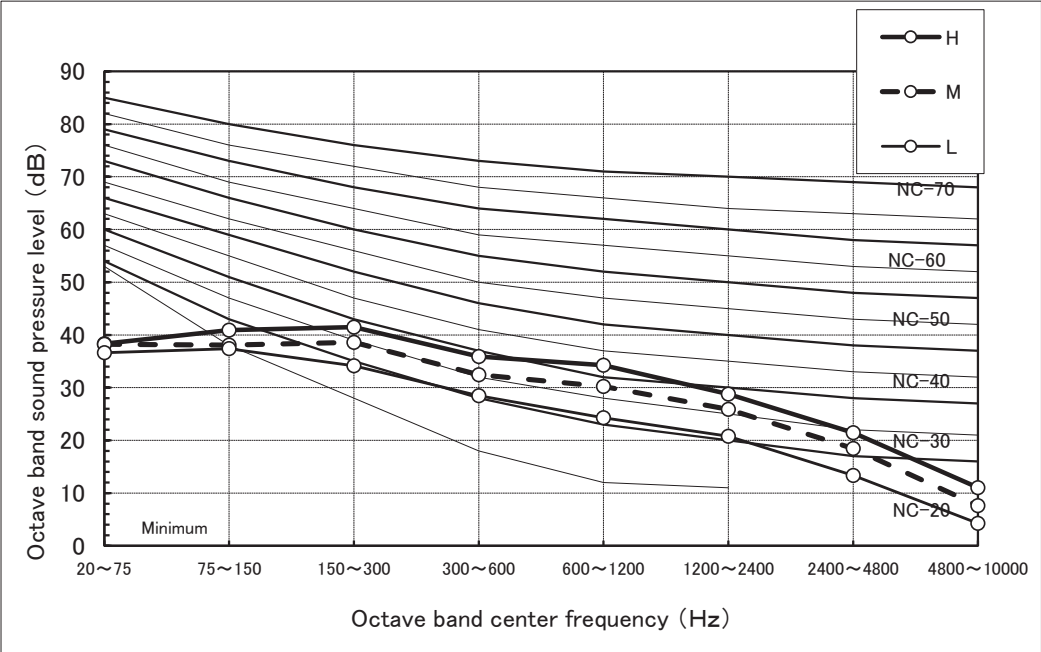
RAV-GM161DTP-A



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

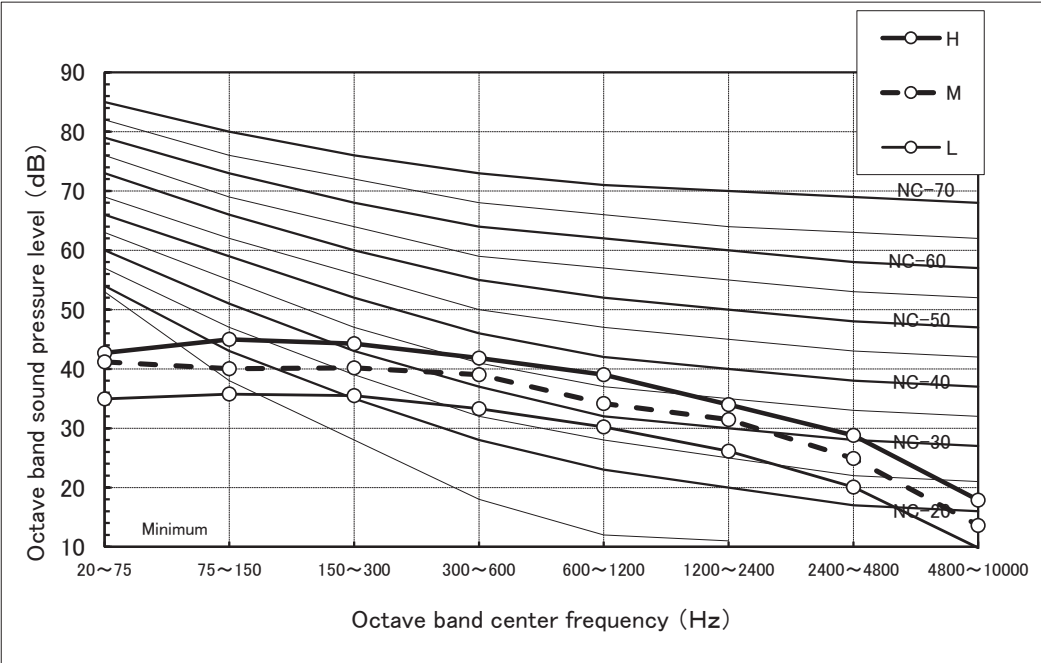
RAV-GM561DTP-A

Specification (dB)			
Fan tap	H	M	L
Sound pressure level (dB(A))	36	34	30



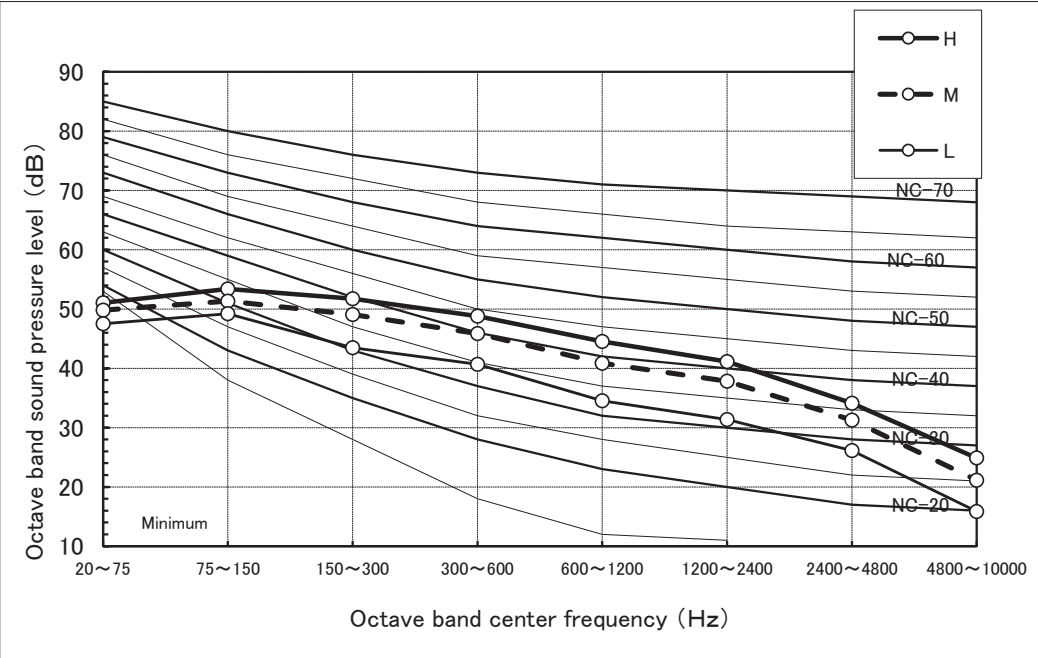
RAV-GM801DTP-A

Specification (dB)			
Fan tap	H	M	L
Sound pressure level (dB(A))	41	39	33



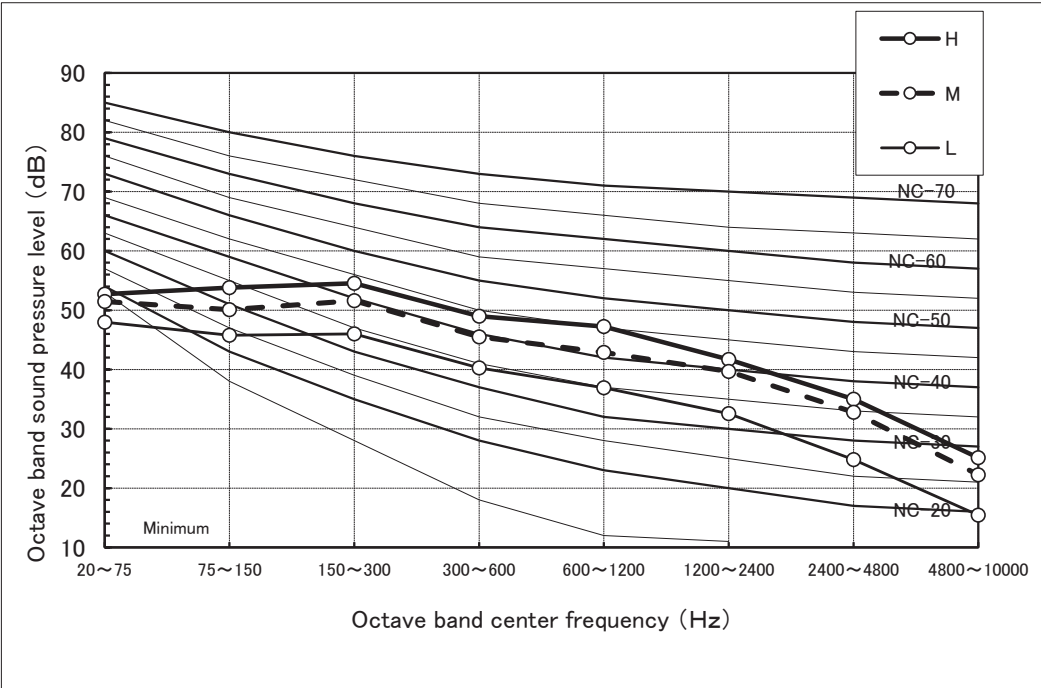
RAV-GM1101DTP-A

Specification (dB)			
Fan tap	H	M	L
Sound pressure level (dB(A))	48	47	40



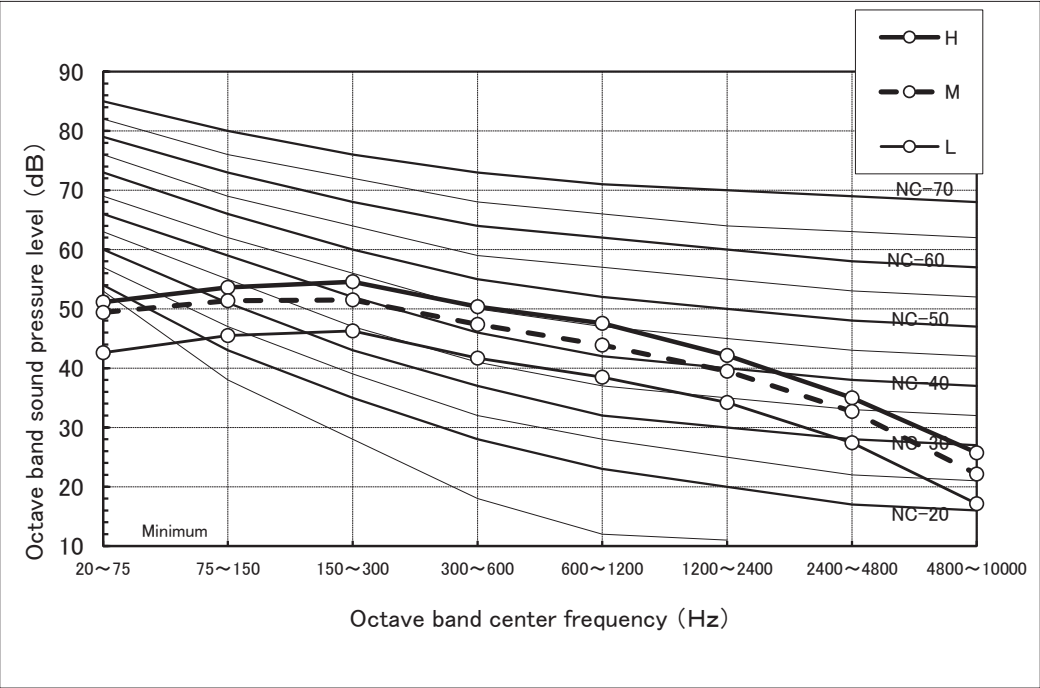
RAV-GM1401DTP-A

Specification (dB)			
Fan tap	H	M	L
Sound pressure level (dB(A))	49	48	41



RAV-GM1601DTP-A

Specification (dB)			
Fan tap	H	M	L
Sound pressure level (dB(A))	50	49	42



2-5. High-wall Type

2-5-1. Specifications

2-5-2. Dimension

2-5-3. Wiring Diagrams

2-5-4. Sensible Capacity Table

2-5-5. Part Load Performance

2-5-6. Air Throw Distance Chart

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

2-5-1. Specifications

High-wall type

Model		Indoor unit		RAV-GM301KRTP-A	RAV-GM401KRTP-A	RAV-GM561KRTP-A	RAV-GM801KRTP-A	
		Outdoor unit		RAV-GM301ATP-A	RAV-GM401ATP-A	RAV-GM561ATP-A	RAV-GM801ATP-A	
Cooling capacity				(kW)	2.5 < 0.9-3.0 >	3.6 < 0.9-4.0 >	5.0 < 1.5 - 5.6 >	7.1 < 1.5 - 8.0 >
Heating capacity				(kW)	3.4 < 0.8-4.5 >	4.0 < 0.8-5.0 >	5.3 < 1.5 - 6.3 >	8.0 < 1.5 - 9.0 >
Power supply				1 phase 220V-240V/50Hz				
Electrical characteristics	Cooling	Running current		(A)	1.06 - 4.20	1.44 - 9.35	1.77 - 8.80	1.90 - 12.9
		Power consumption		(kW)	0.59	0.97	1.51	2.12
		Power factor		(%)	90	94	95	97
		EER			4.24	3.71	3.31	3.35
		AEER			4.06	3.62	3.26	3.32
		Energy rating (Mixed zone)			3.0	3.0	2.5	2.5
	Besides, new Under ceiling	Running current		(A)	1.06 - 6.55	1.06 - 7.97	1.77 - 11.35	1.64 - 14.1
		Power consumption		(kW)	0.85	1.00	1.36	2.35
		Power factor		(%)	93	94	95	97
		COP			4.00	4.00	2.50	3.00
		ACOP			3.88	3.90	3.90	3.40
		Energy rating (Mixed zone)			2.5	2.0	2.0	2.0
Indoor unit								
Outer dimension		Main unit	Height	(mm)	293		320	
			Width	(mm)	798		1050	
			Depth	(mm)	230		250	
Total weight		Main unit		(kg)	10		14	
Fan unit		Fan			Cross flow fan			
		Standard air flow	H/M/L	(m3/h)	670/540/450	700/580/450	960 / 830 / 680	1040 / 910 / 680
Controller (Packed with unit)				Wireless Remote controller				
Air filter				Standard filter (Long life filter)				
Sound pressure level			H/M/L	(dB)	40 / 34 / 29	41 / 36 / 30	42 / 39 / 35	45 / 41 / 35
Connecting pipe		Drain port		VP16				

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.

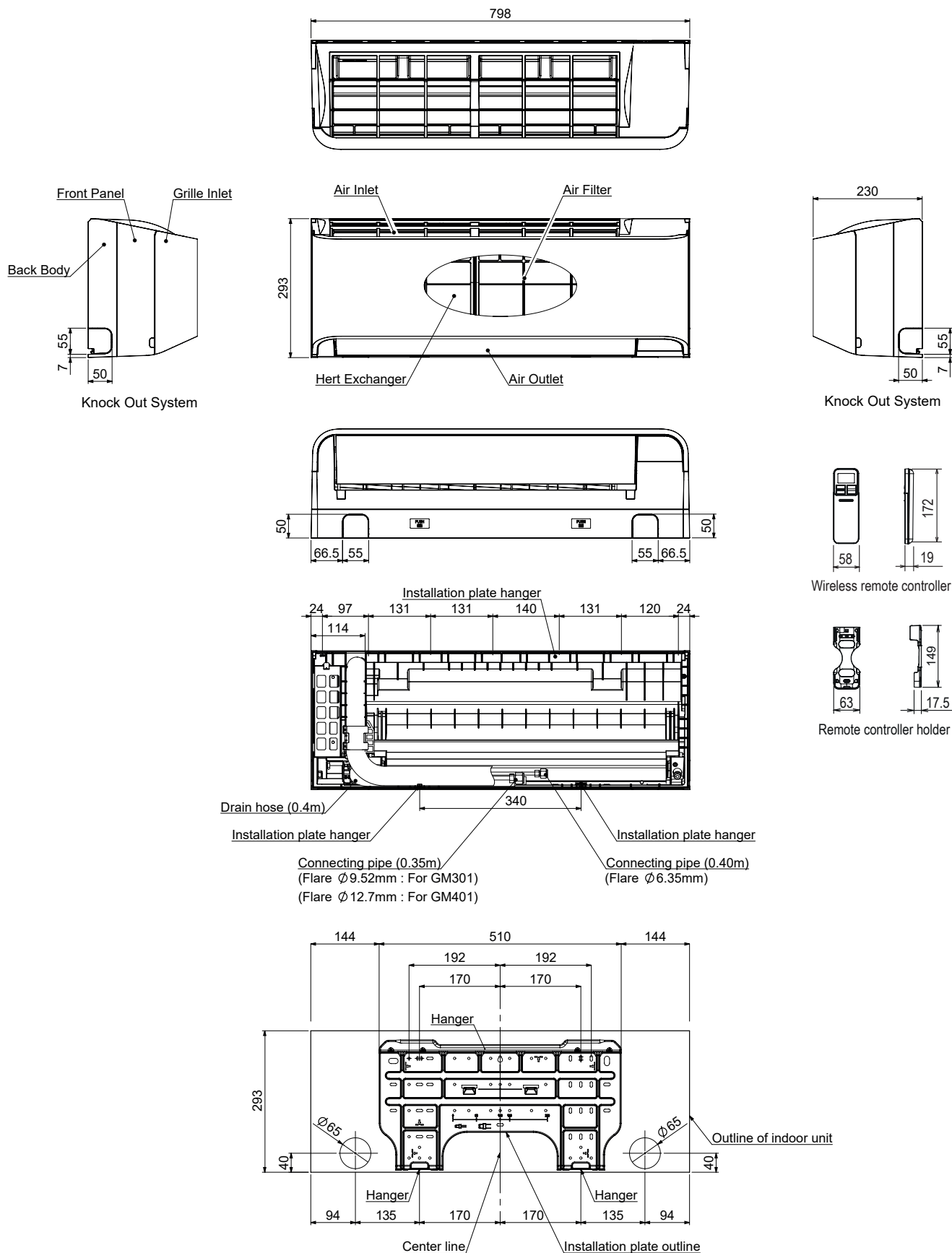
2 : The sound level are measured in an anechoic chamber in accordance with JIS B 8616. Normally, the values measured in the actual operating environment become larger than the indicated values due to the effects of external sound.

Note :

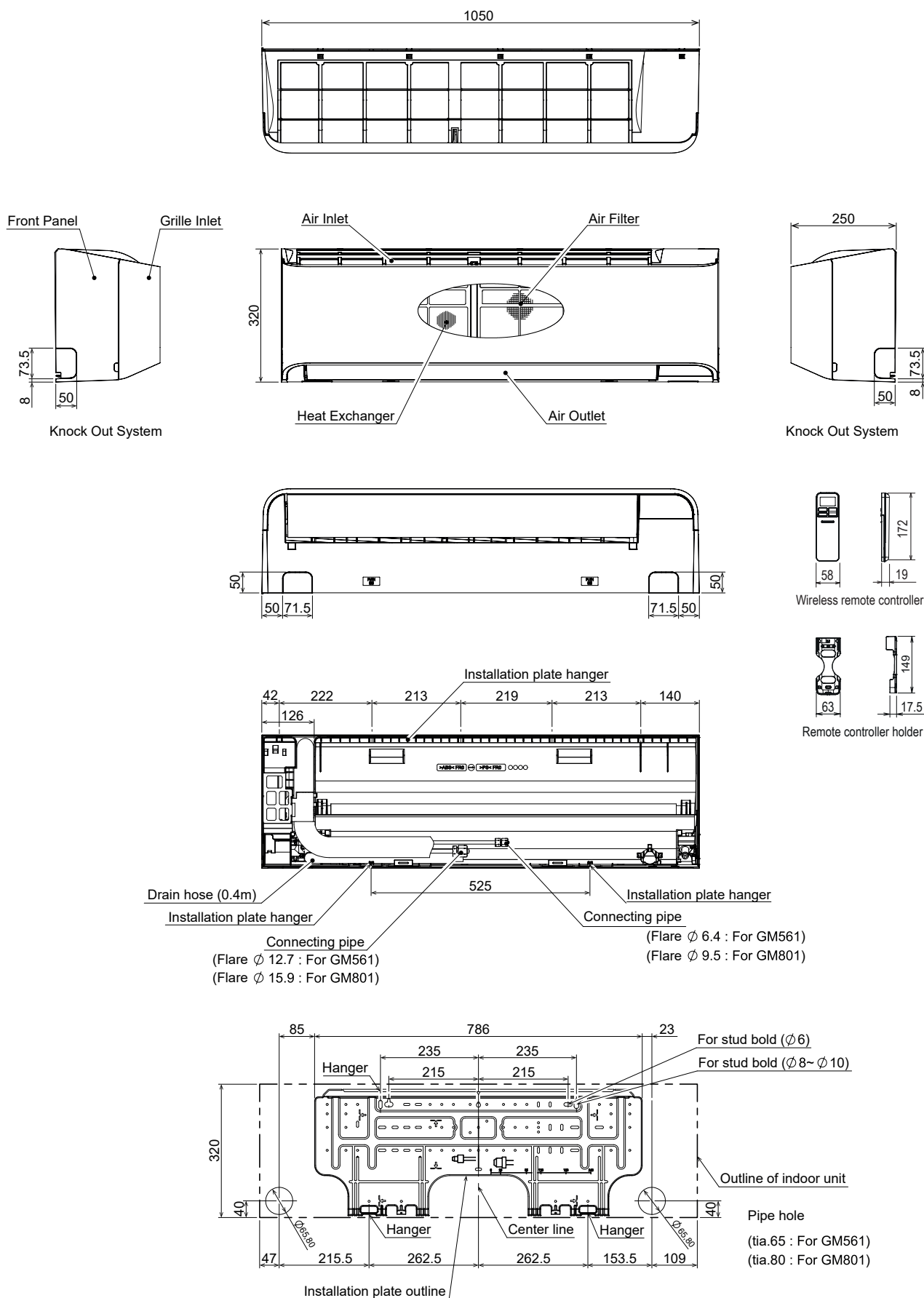
Rated conditions Cooling : Indoor air temperature 27°C DB/19°C WB, Outdoor air temperature 35°C DB

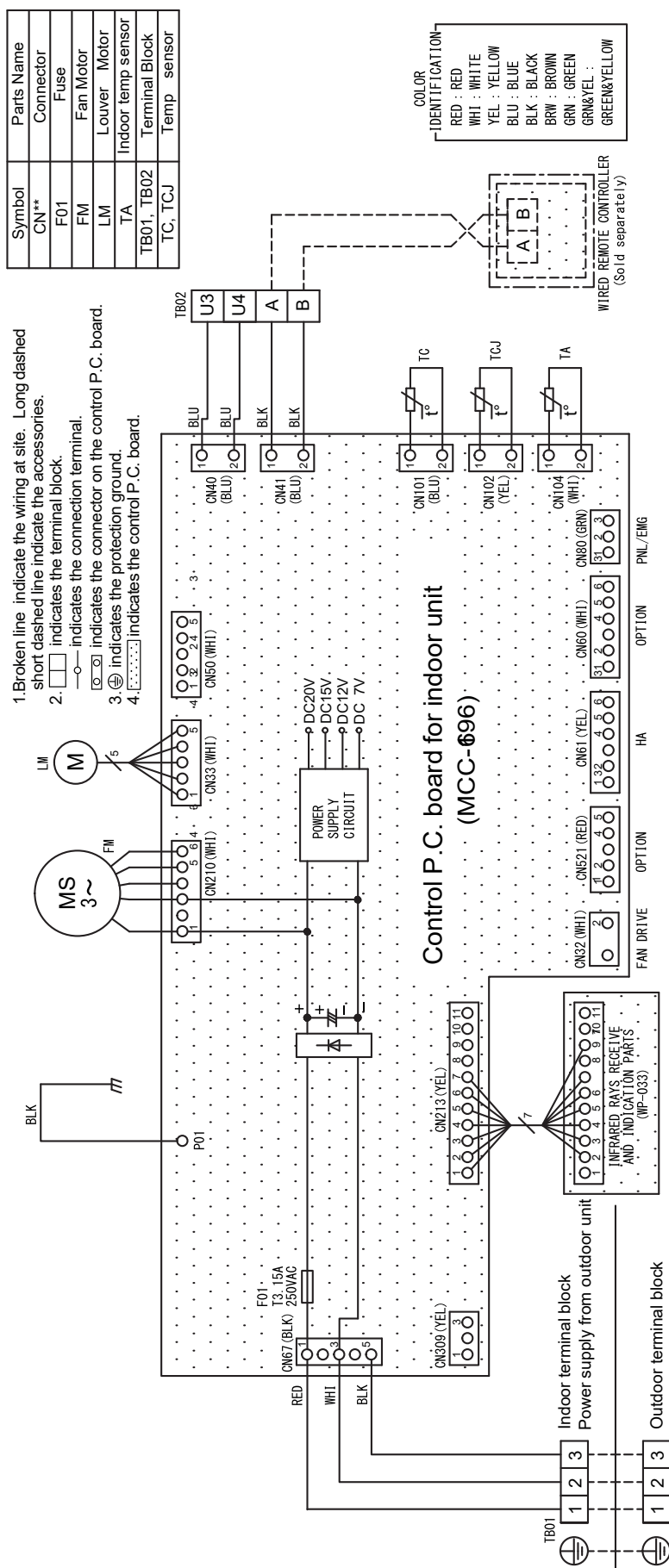
2-5-2. Dimension

RAV-GM*1KRTP-A (*30 / 40)



RAV-GM*1KRTP-A (*56 / 80)



RAV-GM*1KRTP-A (*56 / 80)

2-5-4. Sensible Capacity Table

Product models : RAV-GM30KRTP-A / RAV-GM301ATP-A

Standard Condition

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

Specification of product at standard condition.

Total Cooling Capacity (TC)	2.50 kW
Sensible Heat Capacity (SHC)	2.10 kW

	Indoor Air temperature																	
Outdoor air temp. °C DB	14.0 °C WB		15.0 °C WB		16.0 °C WB		17.0 °C WB		18.0 °C WB		19.0 °C WB		20.0 °C WB		22.0 °C WB		24.0 °C WB	
	20.0 °C DB		21.0 °C DB		23.0 °C DB		24.0 °C DB		26.0 °C DB		27.0 °C DB		28.0 °C DB		30.0 °C DB		32.0 °C DB	
	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
10.0	2.41	2.17	2.50	2.23	2.67	2.32	2.73	2.37	2.85	2.47	2.94	2.47	3.02	2.47	3.20	2.46	3.35	2.42
12.0	2.39	2.16	2.48	2.21	2.64	2.30	2.71	2.35	2.83	2.45	2.92	2.45	3.00	2.45	3.18	2.44	3.32	2.40
14.0	2.37	2.14	2.46	2.19	2.62	2.28	2.68	2.33	2.81	2.43	2.89	2.43	2.97	2.43	3.15	2.41	3.29	2.38
16.0	2.35	2.12	2.43	2.17	2.60	2.26	2.66	2.31	2.78	2.41	2.86	2.40	2.94	2.41	3.12	2.39	3.26	2.35
18.0	2.33	2.10	2.41	2.14	2.57	2.24	2.63	2.29	2.75	2.38	2.83	2.38	2.91	2.38	3.09	2.37	3.23	2.33
20.0	2.30	2.07	2.38	2.12	2.54	2.21	2.60	2.26	2.72	2.35	2.80	2.35	2.88	2.35	3.05	2.34	3.19	2.30
21.0	2.29	2.06	2.37	2.11	2.53	2.20	2.59	2.25	2.71	2.34	2.78	2.34	2.86	2.34	3.03	2.33	3.17	2.29
23.0	2.26	2.03	2.34	2.08	2.49	2.17	2.55	2.22	2.67	2.31	2.75	2.31	2.83	2.31	3.00	2.30	3.13	2.26
25.0	2.23	2.01	2.31	2.05	2.46	2.14	2.52	2.19	2.64	2.28	2.71	2.28	2.79	2.28	2.96	2.27	3.09	2.23
27.0	2.20	1.98	2.27	2.03	2.43	2.11	2.48	2.16	2.60	2.25	2.68	2.25	2.75	2.25	2.91	2.24	3.05	2.20
29.0	2.16	1.95	2.24	2.00	2.39	2.08	2.45	2.13	2.56	2.21	2.63	2.21	2.71	2.21	2.87	2.20	3.00	2.17
31.0	2.13	1.92	2.20	1.96	2.35	2.05	2.41	2.09	2.52	2.18	2.59	2.18	2.67	2.18	2.82	2.17	2.95	2.13
33.0	2.09	1.89	2.17	1.93	2.31	2.01	2.37	2.06	2.47	2.14	2.55	2.14	2.62	2.14	2.78	2.13	2.90	2.10
35.0	2.05	1.85	2.12	1.89	2.27	1.98	2.32	2.02	2.43	2.10	2.50	2.10	2.57	2.10	2.72	2.09	2.85	2.06
37.0	2.01	1.81	2.08	1.86	2.22	1.94	2.28	1.98	2.38	2.06	2.45	2.06	2.52	2.06	2.67	2.05	2.79	2.02
39.0	1.97	1.78	2.04	1.82	2.18	1.90	2.23	1.94	2.33	2.02	2.40	2.02	2.47	2.02	2.62	2.01	2.74	1.98
40.0	1.95	1.76	2.02	1.80	2.16	1.88	2.21	1.92	2.31	2.00	2.38	2.00	2.44	2.00	2.59	1.99	2.71	1.95
42.0	1.91	1.72	1.97	1.76	2.11	1.84	2.16	1.87	2.26	1.95	2.32	1.95	2.39	1.95	2.53	1.94	2.65	1.91
43.0	1.89	1.70	1.95	1.74	2.08	1.81	2.13	1.85	2.23	1.93	2.30	1.93	2.36	1.93	2.50	1.92	2.61	1.89
45.0	1.84	1.66	1.90	1.70	2.03	1.77	2.08	1.81	2.17	1.88	2.24	1.88	2.30	1.88	2.44	1.87	2.55	1.84
46.0	1.82	1.64	1.88	1.67	2.00	1.75	2.05	1.78	2.15	1.86	2.21	1.86	2.27	1.86	2.41	1.85	2.52	1.82

Product models : RAV-GM401KRTP-A / RAV-GM401ATP-A

Standard Condition

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

Specification of product at standard condition.

Total Cooling Capacity (TC)	3.60 kW
Sensible Heat Capacity (SHC)	3.00 kW

	Indoor Air temperature																	
Outdoor air temp. °C DB	14.0 °C WB		15.0 °C WB		16.0 °C WB		17.0 °C WB		18.0 °C WB		19.0 °C WB		20.0 °C WB		22.0 °C WB		24.0 °C WB	
	20.0 °C DB		21.0 °C DB		23.0 °C DB		24.0 °C DB		26.0 °C DB		27.0 °C DB		28.0 °C DB		30.0 °C DB		32.0 °C DB	
	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
10.0	3.48	3.11	3.60	3.18	3.84	3.32	3.93	3.39	4.11	3.53	4.23	3.53	4.35	3.53	4.61	3.51	4.82	3.45
12.0	3.45	3.08	3.57	3.15	3.81	3.29	3.90	3.36	4.08	3.50	4.20	3.50	4.32	3.50	4.57	3.48	4.78	3.42
14.0	3.42	3.06	3.54	3.13	3.77	3.26	3.86	3.33	4.04	3.47	4.16	3.47	4.28	3.47	4.53	3.45	4.74	3.39
16.0	3.39	3.03	3.50	3.10	3.74	3.23	3.83	3.30	4.00	3.44	4.12	3.43	4.24	3.44	4.49	3.41	4.70	3.36
18.0	3.35	3.00	3.47	3.07	3.70	3.20	3.79	3.27	3.96	3.40	4.08	3.40	4.20	3.40	4.44	3.38	4.65	3.32
20.0	3.31	2.96	3.43	3.03	3.66	3.16	3.75	3.23	3.92	3.36	4.03	3.36	4.15	3.36	4.39	3.34	4.60	3.29
21.0	3.29	2.95	3.41	3.01	3.64	3.14	3.72	3.21	3.90	3.34	4.01	3.34	4.12	3.34	4.37	3.32	4.57	3.27
23.0	3.25	2.91	3.37	2.98	3.59	3.11	3.68	3.17	3.85	3.30	3.96	3.30	4.07	3.30	4.31	3.28	4.51	3.23
25.0	3.21	2.87	3.32	2.94	3.54	3.06	3.63	3.13	3.80	3.26	3.91	3.26	4.02	3.26	4.26	3.24	4.45	3.18
27.0	3.16	2.83	3.27	2.90	3.49	3.02	3.58	3.08	3.74	3.21	3.85	3.21	3.96	3.21	4.20	3.19	4.39	3.14
29.0	3.12	2.79	3.22	2.85	3.44	2.97	3.52	3.04	3.69	3.16	3.79	3.16	3.90	3.16	4.13	3.14	4.32	3.09
31.0	3.07	2.74	3.17	2.81	3.39	2.93	3.47	2.99	3.63	3.11	3.73	3.11	3.84	3.11	4.07	3.09	4.25	3.04
33.0	3.01	2.69	3.12	2.76	3.33	2.88	3.41	2.94	3.56	3.06	3.67	3.06	3.77	3.06	4.00	3.04	4.18	2.99
35.0	2.96	2.64	3.06	2.71	3.27	2.82	3.34	2.88	3.50	3.00	3.60	3.00	3.70	3.00	3.92	2.98	4.10	2.93
37.0	2.90	2.59	3.00	2.65	3.20	2.77	3.28	2.83	3.43	2.94	3.53	2.94	3.63	2.95	3.85	2.93	4.02	2.88
39.0	2.84	2.54	2.94	2.60	3.14	2.71	3.21	2.77	3.36	2.88	3.46	2.88	3.56	2.88	3.77	2.87	3.94	2.82
40.0	2.81	2.51	2.91	2.57	3.10	2.68	3.18	2.74	3.32	2.85	3.42	2.85	3.52	2.85	3.73	2.83	3.90	2.79
42.0	2.75	2.46	2.84	2.51	3.03	2.62	3.11	2.68	3.25	2.79	3.34	2.79	3.44	2.79	3.64	2.77	3.81	2.73
43.0	2.71	2.43	2.81	2.48	3.00	2.59	3.07	2.65	3.21	2.76	3.31	2.75	3.40	2.76	3.60	2.74	3.77	2.69
45.0	2.65	2.37	2.74	2.42	2.92	2.53	2.99	2.58	3.13	2.69	3.22	2.69	3.32	2.69	3.51	2.67	3.67	2.63
46.0	2.61	2.34	2.70	2.39	2.89	2.49	2.95	2.55	3.09	2.65	3.18	2.65	3.27	2.65	3.47	2.64	3.63	2.59

Product models : RAV-GM56KRTP-A / RAV-GM561ATP-A

Standard Condition

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

Specification of product at standard condition.

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

Outdoor air temp. °C DB	Indoor Air temperature																	
	14.0 °C WB		15.0 °C WB		16.0 °C WB		17.0 °C WB		18.0 °C WB		19.0 °C WB		20.0 °C WB		22.0 °C WB		24.0 °C WB	
	20.0 °C DB		21.0 °C DB		23.0 °C DB		24.0 °C DB		26.0 °C DB		27.0 °C DB		28.0 °C DB		30.0 °C DB		32.0 °C DB	
	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
10.0	4.83	4.35	5.00	4.45	5.33	4.64	5.46	4.74	5.71	4.94	5.88	4.94	6.05	4.94	6.40	4.91	6.70	4.83
12.0	4.79	4.31	4.96	4.41	5.29	4.61	5.41	4.70	5.66	4.90	5.83	4.90	6.00	4.90	6.35	4.87	6.64	4.80
14.0	4.75	4.28	4.91	4.38	5.24	4.57	5.37	4.66	5.61	4.86	5.78	4.85	5.94	4.86	6.30	4.83	6.58	4.75
16.0	4.70	4.24	4.87	4.33	5.19	4.52	5.32	4.62	5.56	4.81	5.72	4.81	5.89	4.81	6.24	4.78	6.52	4.71
18.0	4.65	4.19	4.82	4.29	5.14	4.48	5.26	4.57	5.50	4.76	5.67	4.76	5.83	4.76	6.17	4.73	6.45	4.66
20.0	4.60	4.15	4.76	4.24	5.08	4.43	5.20	4.52	5.44	4.71	5.60	4.71	5.76	4.71	6.10	4.68	6.38	4.61
21.0	4.57	4.12	4.73	4.22	5.05	4.40	5.17	4.49	5.41	4.68	5.57	4.68	5.73	4.68	6.07	4.65	6.35	4.58
23.0	4.52	4.07	4.68	4.17	4.99	4.35	5.11	4.44	5.34	4.62	5.50	4.62	5.66	4.62	5.99	4.60	6.27	4.52
25.0	4.46	4.02	4.61	4.11	4.92	4.29	5.04	4.38	5.27	4.56	5.43	4.56	5.58	4.56	5.91	4.54	6.18	4.46
27.0	4.39	3.96	4.55	4.05	4.85	4.23	4.97	4.32	5.20	4.50	5.35	4.49	5.50	4.50	5.83	4.47	6.10	4.40
29.0	4.33	3.90	4.48	3.99	4.78	4.16	4.89	4.25	5.12	4.43	5.27	4.43	5.42	4.43	5.74	4.40	6.00	4.33
31.0	4.26	3.84	4.41	3.93	4.70	4.10	4.81	4.18	5.04	4.36	5.18	4.35	5.33	4.36	5.65	4.33	5.91	4.26
33.0	4.19	3.77	4.33	3.86	4.62	4.03	4.73	4.11	4.95	4.28	5.10	4.28	5.24	4.28	5.55	4.26	5.81	4.19
35.0	4.11	3.70	4.25	3.79	4.54	3.95	4.64	4.03	4.86	4.20	5.00	4.20	5.14	4.20	5.45	4.18	5.70	4.11
37.0	4.03	3.63	4.17	3.71	4.45	3.88	4.56	3.96	4.77	4.12	4.91	4.12	5.05	4.12	5.34	4.10	5.59	4.03
39.0	3.95	3.55	4.08	3.64	4.36	3.80	4.46	3.88	4.67	4.04	4.80	4.04	4.94	4.04	5.23	4.02	5.47	3.95
40.0	3.90	3.52	4.04	3.60	4.31	3.75	4.41	3.84	4.62	3.99	4.75	3.99	4.89	4.00	5.18	3.97	5.41	3.91
42.0	3.82	3.44	3.95	3.52	4.21	3.67	4.31	3.75	4.51	3.90	4.65	3.90	4.78	3.91	5.06	3.88	5.29	3.82
43.0	3.77	3.40	3.90	3.48	4.16	3.63	4.26	3.70	4.46	3.86	4.59	3.86	4.72	3.86	5.00	3.84	5.23	3.78
45.0	3.68	3.31	3.81	3.39	4.06	3.54	4.16	3.61	4.35	3.76	4.48	3.76	4.61	3.76	4.88	3.74	5.10	3.68
46.0	3.63	3.27	3.76	3.35	4.01	3.49	4.10	3.57	4.29	3.71	4.42	3.71	4.55	3.72	4.81	3.69	5.04	3.63

Product models : RAV-GM801KRTP-A / RAV-GM801ATP-A

Standard Condition

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

Specification of product at standard condition.

Total Cooling Capacity (TC)	7.10 kW
Sensible Heat Capacity (SHC)	5.25 kW

Outdoor air temp. °C DB	Indoor Air temperature																	
	14.0 °C WB		15.0 °C WB		16.0 °C WB		17.0 °C WB		18.0 °C WB		19.0 °C WB		20.0 °C WB		22.0 °C WB		24.0 °C WB	
	20.0 °C DB		21.0 °C DB		23.0 °C DB		24.0 °C DB		26.0 °C DB		27.0 °C DB		28.0 °C DB		30.0 °C DB		32.0 °C DB	
	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
10.0	6.86	5.49	7.09	5.61	7.57	5.83	7.75	5.96	8.11	6.20	8.35	6.17	8.58	6.15	9.09	6.06	9.51	5.91
12.0	6.80	5.44	7.04	5.56	7.51	5.79	7.69	5.91	8.04	6.15	8.28	6.12	8.52	6.10	9.02	6.01	9.43	5.86
14.0	6.74	5.39	6.98	5.51	7.44	5.74	7.62	5.86	7.97	6.09	8.21	6.07	8.44	6.05	8.94	5.96	9.35	5.81
16.0	6.68	5.34	6.91	5.46	7.37	5.68	7.55	5.80	7.90	6.04	8.13	6.01	8.36	5.99	8.85	5.90	9.26	5.75
18.0	6.61	5.29	6.84	5.40	7.30	5.62	7.47	5.74	7.81	5.97	8.05	5.95	8.28	5.93	8.76	5.84	9.17	5.69
20.0	6.53	5.23	6.76	5.34	7.22	5.56	7.39	5.68	7.73	5.91	7.96	5.88	8.18	5.87	8.67	5.78	9.06	5.63
21.0	6.50	5.20	6.72	5.31	7.17	5.53	7.34	5.64	7.68	5.87	7.91	5.85	8.13	5.83	8.61	5.74	9.01	5.60
23.0	6.42	5.13	6.64	5.25	7.09	5.46	7.25	5.57	7.59	5.80	7.81	5.78	8.03	5.76	8.51	5.67	8.90	5.53
25.0	6.33	5.07	6.55	5.18	6.99	5.39	7.16	5.50	7.49	5.72	7.71	5.70	7.93	5.68	8.40	5.60	8.78	5.46
27.0	6.24	4.99	6.46	5.10	6.89	5.31	7.06	5.42	7.38	5.64	7.60	5.62	7.82	5.60	8.28	5.52	8.66	5.38
29.0	6.15	4.92	6.36	5.03	6.79	5.23	6.95	5.34	7.27	5.56	7.48	5.53	7.70	5.52	8.15	5.43	8.53	5.30
31.0	6.05	4.84	6.26	4.95	6.68	5.15	6.84	5.25	7.15	5.47	7.36	5.44	7.57	5.43	8.02	5.35	8.39	5.21
33.0	5.94	4.76	6.15	4.86	6.56	5.06	6.72	5.16	7.03	5.37	7.24	5.35	7.44	5.33	7.88	5.25	8.24	5.12
35.0	5.83	4.67	6.03	4.77	6.44	4.96	6.59	5.07	6.90	5.27	7.10	5.25	7.30	5.23	7.73	5.16	8.09	5.03
37.0	5.72	4.58	5.92	4.68	6.32	4.87	6.47	4.97	6.77	5.17	6.97	5.15	7.17	5.14	7.59	5.06	7.94	4.93
39.0	5.60	4.48	5.80	4.58	6.19	4.77	6.34	4.87	6.63	5.07	6.82	5.04	7.02	5.03	7.43	4.95	7.77	4.83
40.0	5.54	4.44	5.74	4.53	6.12	4.72	6.27	4.82	6.56	5.01	6.75	4.99	6.94	4.98	7.35	4.90	7.69	4.78
42.0	5.42	4.34	5.61	4.43	5.98	4.61	6.13	4.71	6.41	4.90	6.60	4.88	6.79	4.86	7.19	4.79	7.52	4.67
43.0	5.35	4.28	5.54	4.38	5.91	4.56	6.05	4.65	6.33	4.84	6.52	4.82	6.70	4.81	7.10	4.73	7.43	4.61
45.0	5.22	4.18	5.40	4.27	5.77	4.44	5.90	4.54	6.18	4.72	6.36	4.70	6.54	4.69	6.93	4.62	7.24	4.50
46.0	5.15	4.13	5.33	4.22	5.69	4.39	5.83	4.48	6.10	4.66	6.28	4.64	6.46	4.63	6.84	4.56	7.15	4.44

2-5-5. Part load performance

Combination

Indoor: RAV-GM301KRTP-A

Outdoor: RAV-GM301ATP-A

Operation range	Cooling		Heating	
	Q	P	Q	P
MINIMUM	W 900	170	800	170
RATING	W 2500	590	3400	850
MAXIMUM	W 3000	860	4500	1400

Cooling

Outdoor Temperature DB (°C)	Parts Load (%)																			
	100		90		80		70		60		50		40		30		20		10	
	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P
20	2981	463	2683	412	2385	360	2087	309	1789	257	1491	206	1193	154	1073	133	1073	133	1073	133
21	2949	472	2654	419	2359	367	2064	314	1770	262	1475	209	1180	157	1062	136	1062	136	1062	136
22	2917	480	2625	427	2334	373	2042	320	1750	266	1459	213	1167	160	1050	138	1050	138	1050	138
23	2885	489	2597	434	2308	380	2020	326	1731	271	1443	217	1154	162	1039	141	1039	141	1039	141
24	2853	497	2568	442	2282	386	1997	331	1712	276	1426	221	1141	165	1027	143	1027	143	1027	143
25	2821	505	2539	449	2257	393	1975	337	1693	281	1410	224	1128	168	1016	146	1016	146	1016	146
26	2789	514	2510	457	2231	400	1952	342	1673	285	1394	228	1116	171	1004	148	1004	148	1004	148
27	2757	522	2481	464	2205	406	1930	348	1654	290	1378	232	1103	174	992	151	992	151	992	151
28	2725	531	2452	472	2180	413	1907	354	1635	295	1362	236	1090	177	981	153	981	153	981	153
29	2693	539	2423	479	2154	419	1885	359	1616	299	1346	239	1077	179	969	155	969	155	969	155
30	2660	548	2394	487	2128	426	1862	365	1596	304	1330	243	1064	182	958	158	958	158	958	158
31	2628	556	2366	494	2103	432	1840	371	1577	309	1314	247	1051	185	946	160	946	160	946	160
32	2596	565	2337	502	2077	439	1817	376	1558	313	1298	251	1039	188	935	163	935	163	935	163
33	2564	573	2308	509	2051	446	1795	382	1539	318	1282	254	1026	191	923	165	923	165	923	165
34	2532	582	2279	517	2026	452	1772	387	1519	323	1266	258	1013	193	912	168	912	168	912	168
35	2500	590	2250	524	2000	459	1750	393	1500	328	1250	262	1000	196	900	170	900	170	900	170
36	2468	598	2221	532	1974	465	1728	399	1481	332	1234	266	987	199	888	172	888	172	888	172
37	2436	607	2192	539	1949	472	1705	404	1462	337	1218	269	974	202	877	175	877	175	877	175
38	2404	615	2163	547	1923	478	1683	410	1442	342	1202	273	962	205	865	177	865	177	865	177
39	2372	624	2135	554	1897	485	1660	416	1423	346	1186	277	949	208	854	180	854	180	854	180
40	2340	632	2106	562	1872	492	1638	421	1404	351	1170	281	936	210	842	182	842	182	842	182
41	2308	641	2077	569	1846	498	1615	427	1385	356	1154	284	923	213	831	185	831	185	831	185
42	2275	649	2048	577	1820	505	1593	433	1365	360	1138	288	910	216	819	187	819	187	819	187
43	2243	658	2019	585	1795	511	1570	438	1346	365	1122	292	897	219	808	189	808	189	808	189
44	2211	666	1990	592	1769	518	1548	444	1327	370	1106	296	885	222	796	192	796	192	796	192
45	2179	675	1961	600	1743	525	1525	449	1308	374	1090	299	872	224	785	194	785	194	785	194
46	2147	683	1932	607	1718	531	1503	455	1288	379	1074	303	859	227	773	197	773	197	773	197

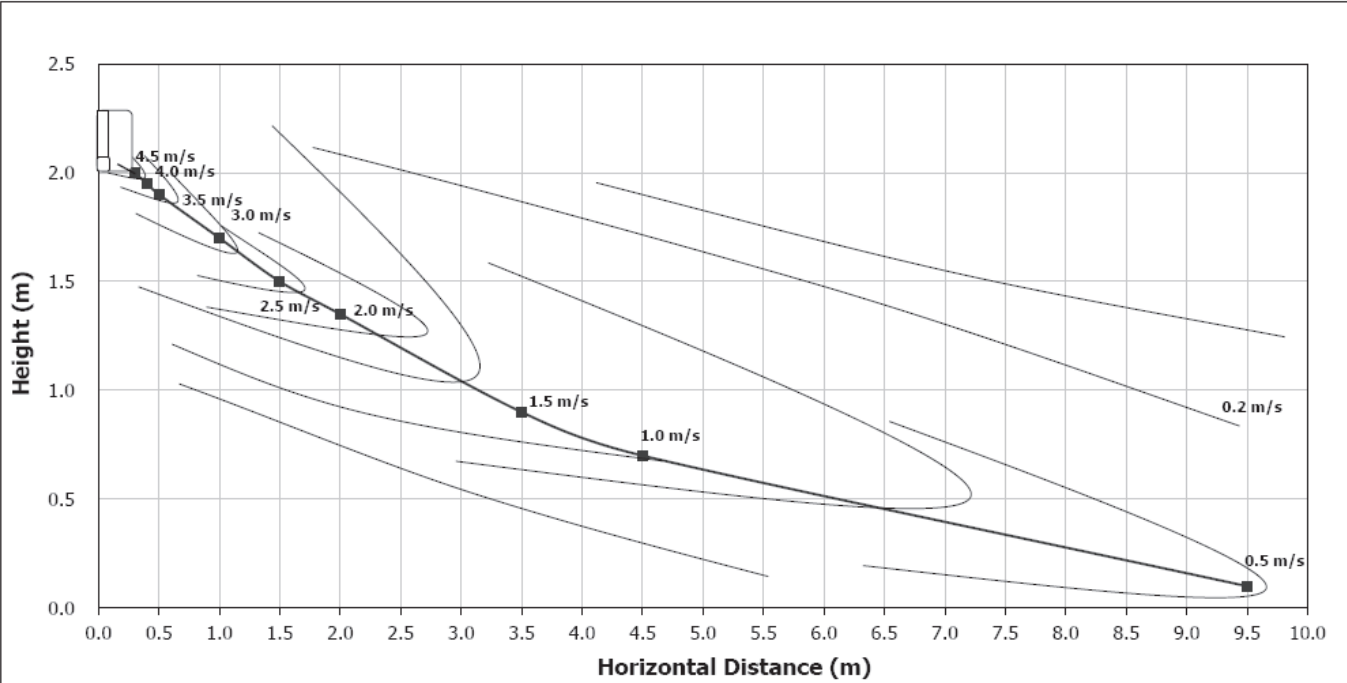
Heating

Outdoor Temperature DB (°C)	Parts Load (%)																			
	100		90		80		70		60		50		40		30		20		10	
	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P
-15	1675	508	1508	455	1340	402	1173	349	1005	296	838	242	670	189	503	136	394	102	394	102
-14	1725	546	1552	489	1380	432	1207	375	1035	318	862	261	690	203	517	146	406	109	406	109
-13	1774	584	1597	523	1419	462	1242	401	1064	340	887	279	710	218	532	156	417	117	417	117
-12	1823	623	1641	557	1459	492	1276	427	1094	362	912	297	729	232	547	167	429	125	429	125
-11	1872	661	1685	592	1498	522	1311	453	1123	384	936	315	749	246	562	177	441	132	441	132
-10	1922	699	1730	626	1537	553	1345	480	1153	406	961	333	769	260	577	187	452	140	452	140
-9	1971	737	1774	660	1577	583	1380	506	1183	429	986	351	788	274	591	197	464	147	464	147
-8	2020	775	1818	694	1616	613	1414	532	1212	451	1010	370	808	289	606	207	475	155	475	155
-7	2070	813	1863	728	1656	643	1449	558	1242	473	1035	388	828	303	621	218	487	163	487	163
-6	2113	806	1902	722	1691	638	1479	553	1268	469	1057	385	845	300	634	216	497	161	497	161
-5	2157	800	1941	716	1726	632	1510	549	1294	465	1079	381	863	298	647	214	508	160	508	160
-4	2201	793	1981	710	1761	627	1541	544	1321	461	1100	378	880	295	660	212	518	159	518	159
-3	2245	786	2020	704	1796	622	1571	539	1347	457	1122	375	898	293	673	210	528	157	528	157
-2	2289	779	2060	698	1831	616	1602	535	1373	453	1144	372	915	290	687	209	538	156	538	156
-1	2332	773	2099	692	1866	611	1633	530	1399	449	1166	368	933	288	700	207	549	155	549	155
0	2376	766	2139	686	1901	606	1663	525	1426	445	1188	365	950	285	713	205	559	153	559	153
1	2420	759	2178	680	1936	600	1694	521	1452	441	1210	362	968	283	726	203	569	152	569	152
2	2464	752	2217	674	1971	595	1725	516	1478	437	1232	359	986	280	739	201	580	150	580	150
3	2504	762	2254	683	2003	603	1753	523	1502	443	1252	364	1002	284	751	204	589	152	589	152
4	2544	772	2290	692	2036	611	1781	530	1527	449	1272	368	1018	288	763	207	599	154	599	154
5	2585	783	2326	701	2068	619	1809	537	1551	455	1292	373	1034	291	775	209	608	157	608	157
6	3312	837	2981	749	2650	662	2319	574	1987	487	1656	399	1325	312	994	224	779	167	779	167
7	3400	850	3060	761	2720	672	2380	583	2040	494	1700	405	1360	316	1020	228	800	170	800	170
8	3488	863	3139	773	2790	683	2441	592	2093	502	1744	412	1395	321	1046	231	821	173	821	173
9	3575	876	3218	785	2860	693	2503	601	2145	510	1788	418	1430	326	1073	235	841	175	841	175
10	3663	889	3297	796	2931	703	2564	610	2198	517	1832	424	1465	331	1099	238	862	178	862	178
11	3751	903	3376	808	3001	714	2626	619	2251	525	1875	430	1500	336	1125	242	883	181	883	181
12	3839	916	3455	820	3071	724	2687	628	2303	533	1919	437	1535	341	1152	245	903	183	903	183
13	3926	929	3534	832	3141	735	2749	637	2356	540	1963	443	1571	346	1178	249	924	186	924	186
14	4014	942	3613	844	3211	745	2810	646	2409	548	2007	449	1606	351	1204	252	945	188	945	188
15	4102	955	3692	855	3282	755	2871	655	2461	556	2051	456	1641	356	1231	256	965	191	965	191
16	4190	968	3771	867	3352	766	2933	665	2514	563	2095	462	1676	361	1257	259	986	194	986	194

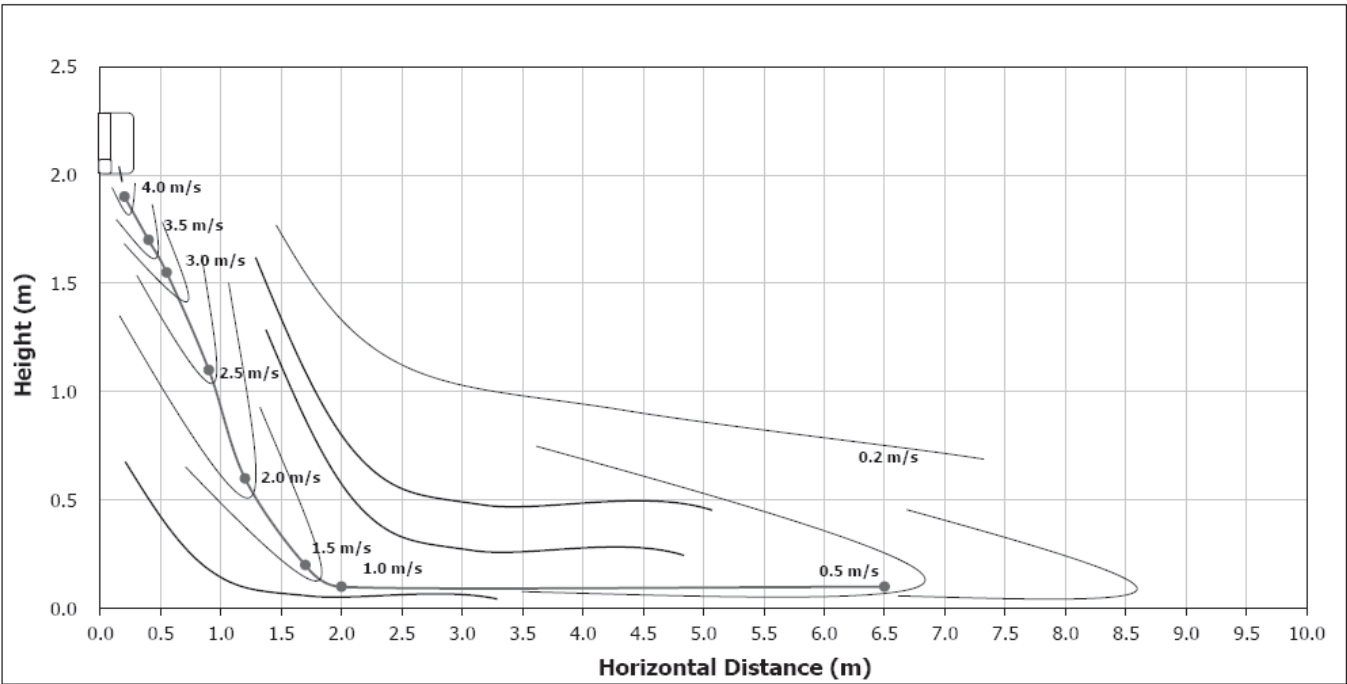
2-5-6. Air Speed Distribution

RAV-GM301KRTP-A

Cooling

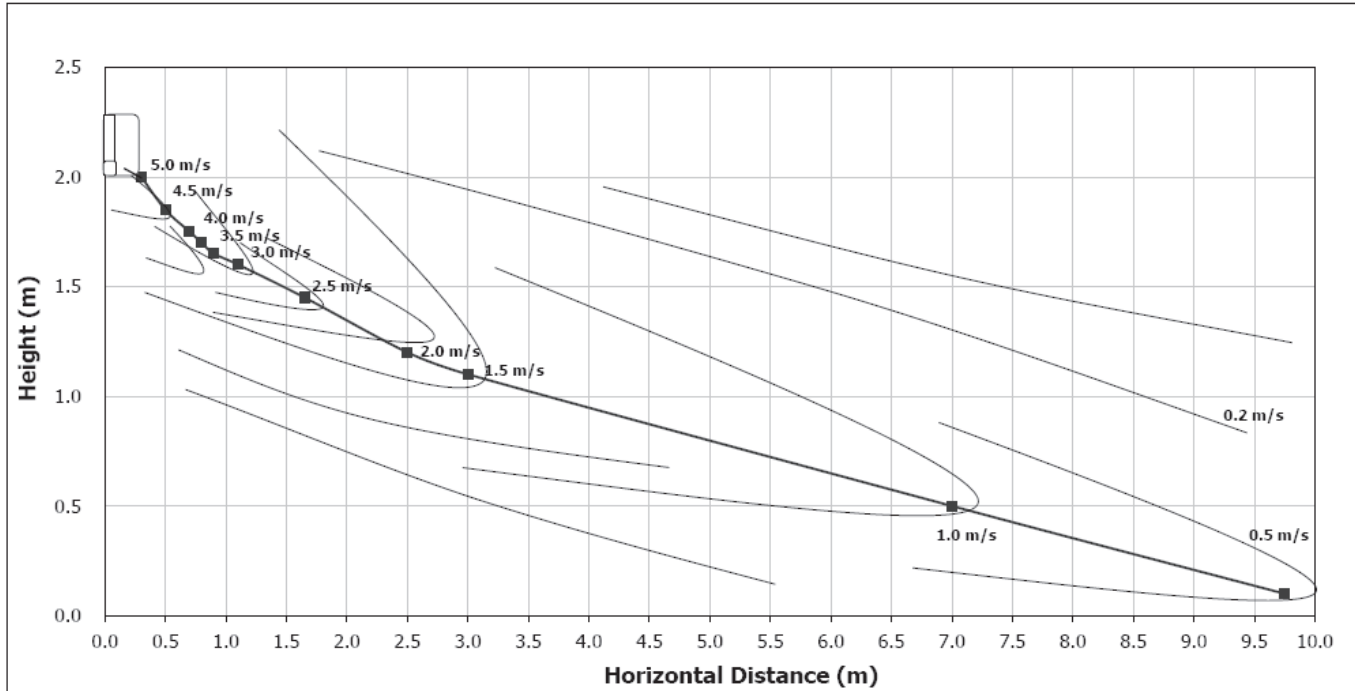


Heating

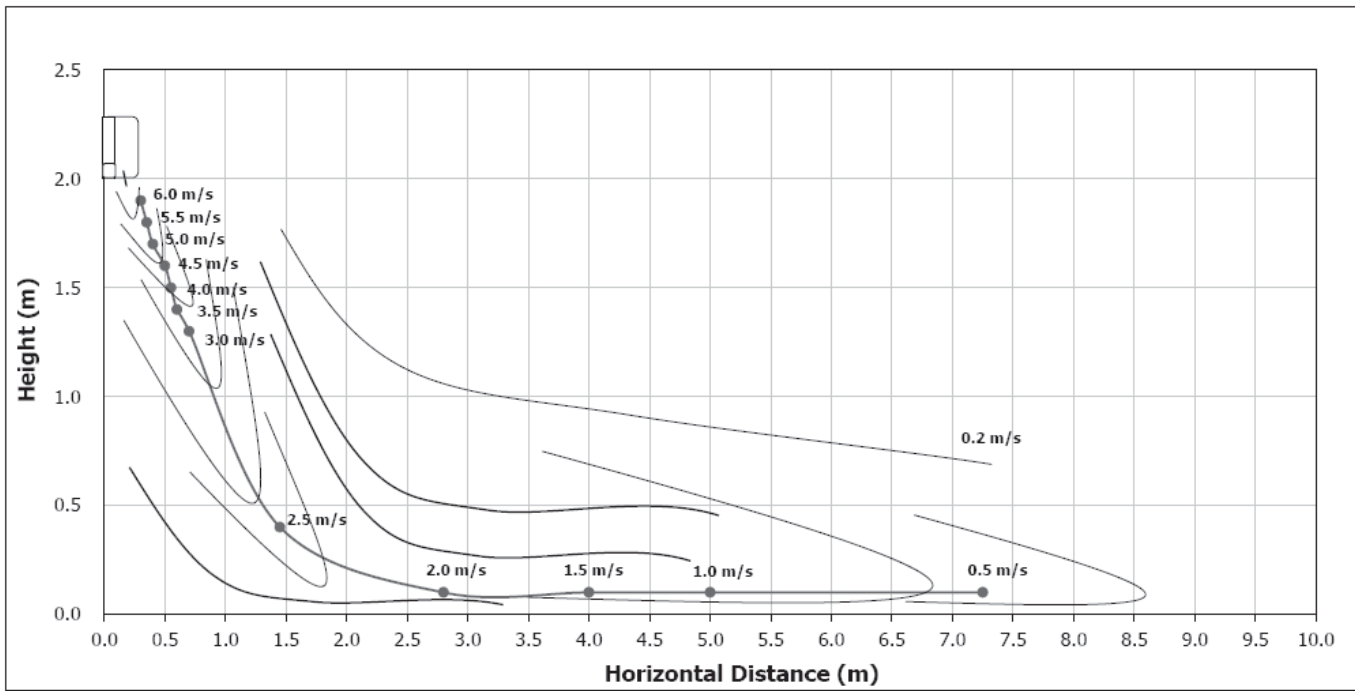


RAV-GM401KRTP-A

Cooling

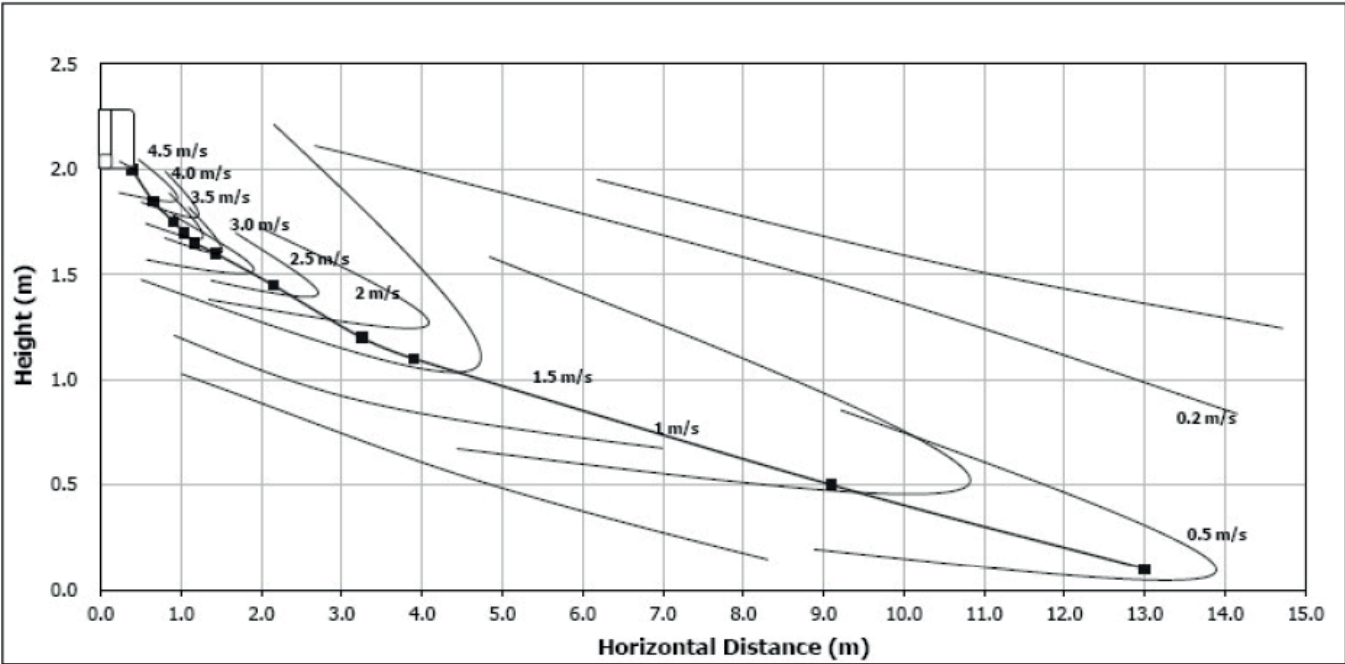


Heating

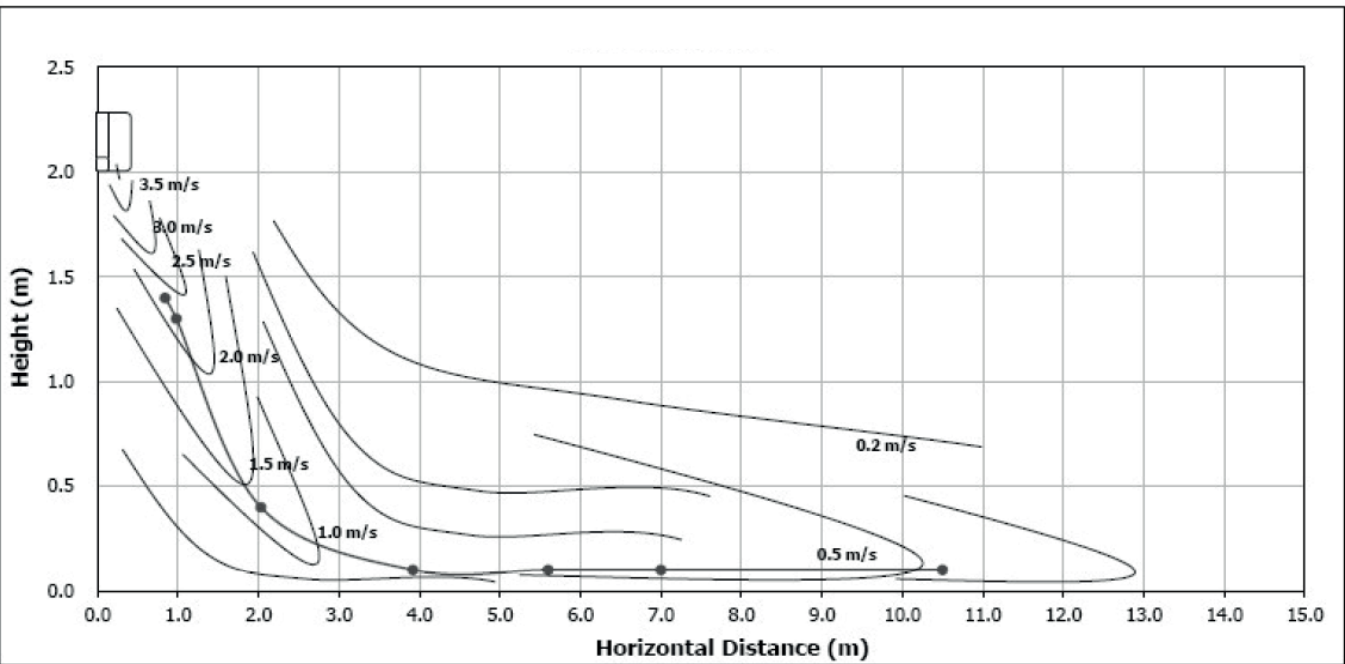


RAV-GM561KRTP-A

Cooling

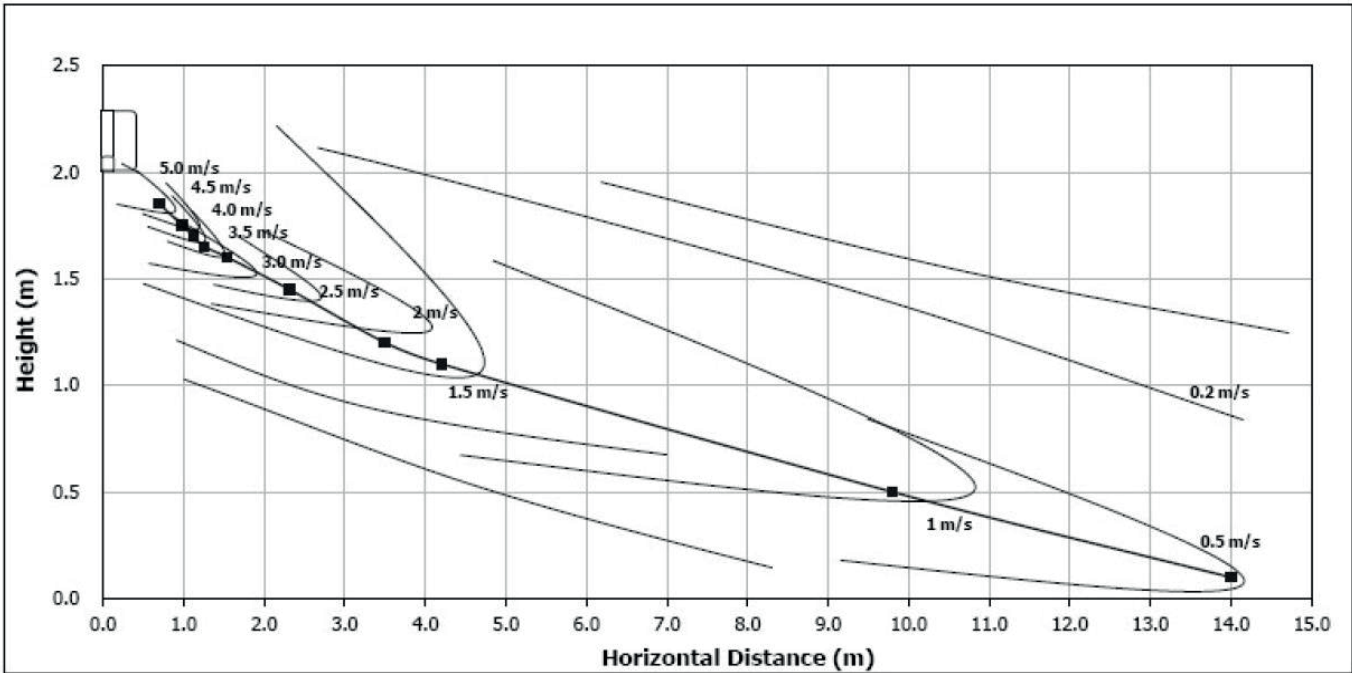


Heating

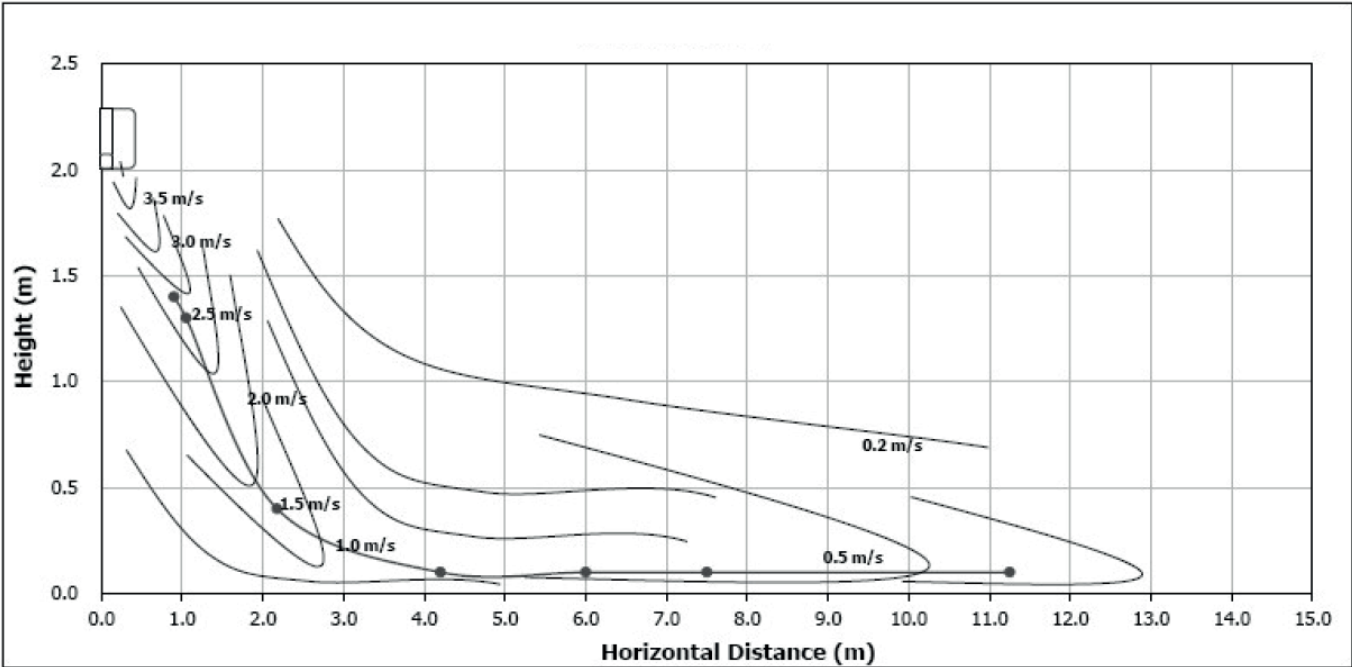


RAV-GM801KRTP-A

Cooling



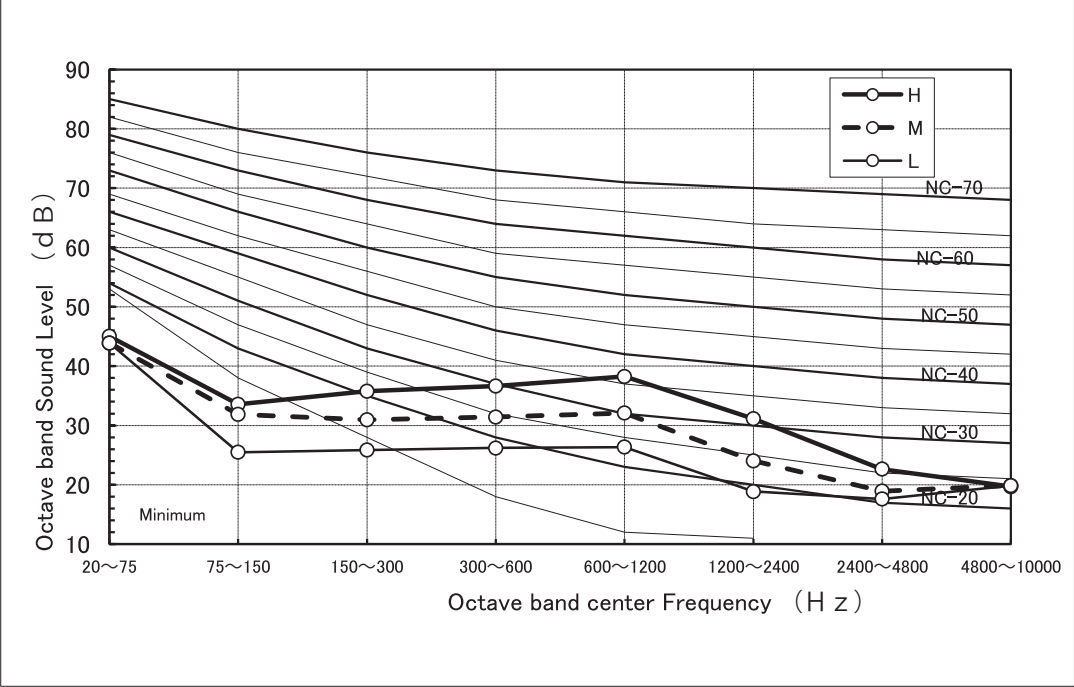
Heating



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

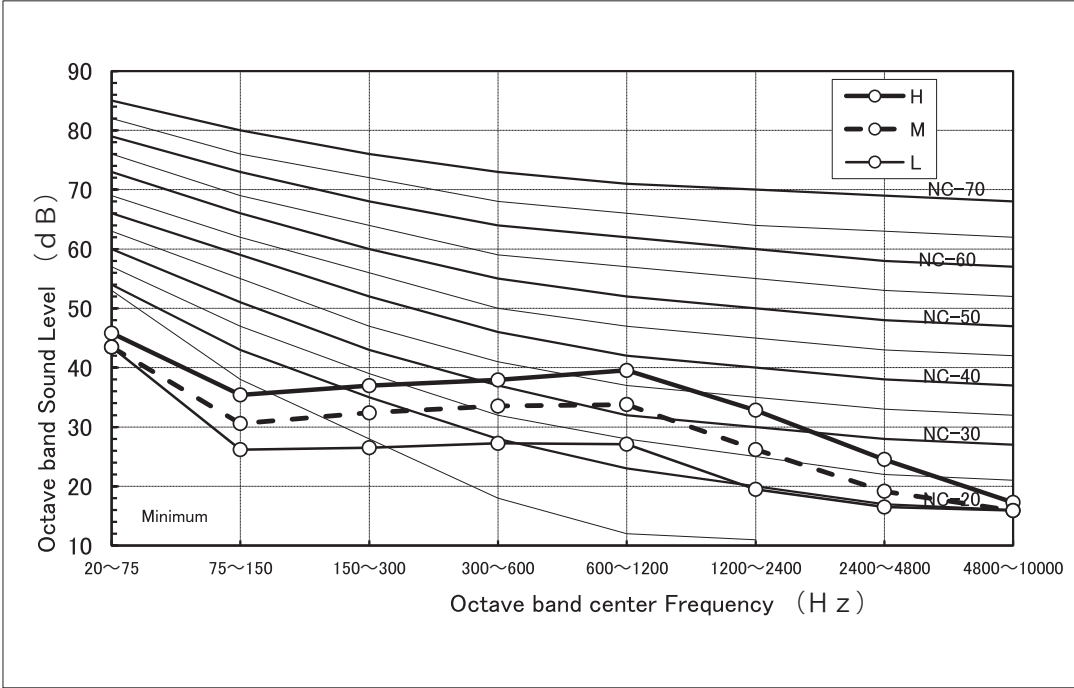
RAV-GM301KRTP-A

Specification (d B)			
Fan tap	H	M	L
Sound pressure level (dB(A))	40	34	29



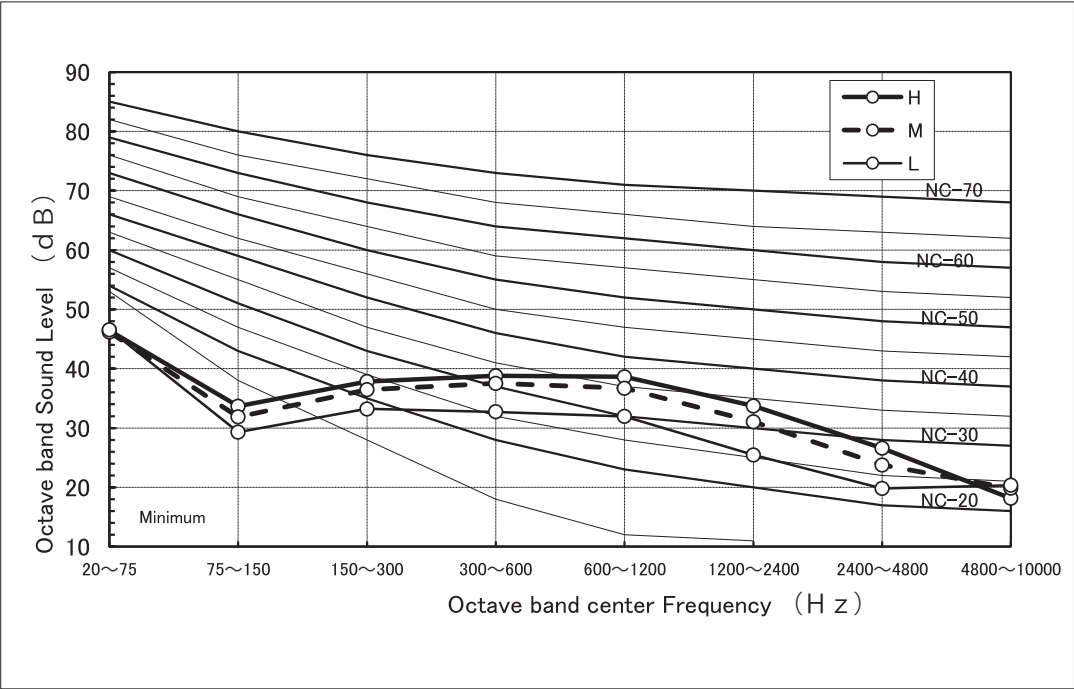
RAV-GM401KRTP-A

Specification (d B)			
Fan tap	H	M	L
Sound pressure level (dB(A))	41	36	30



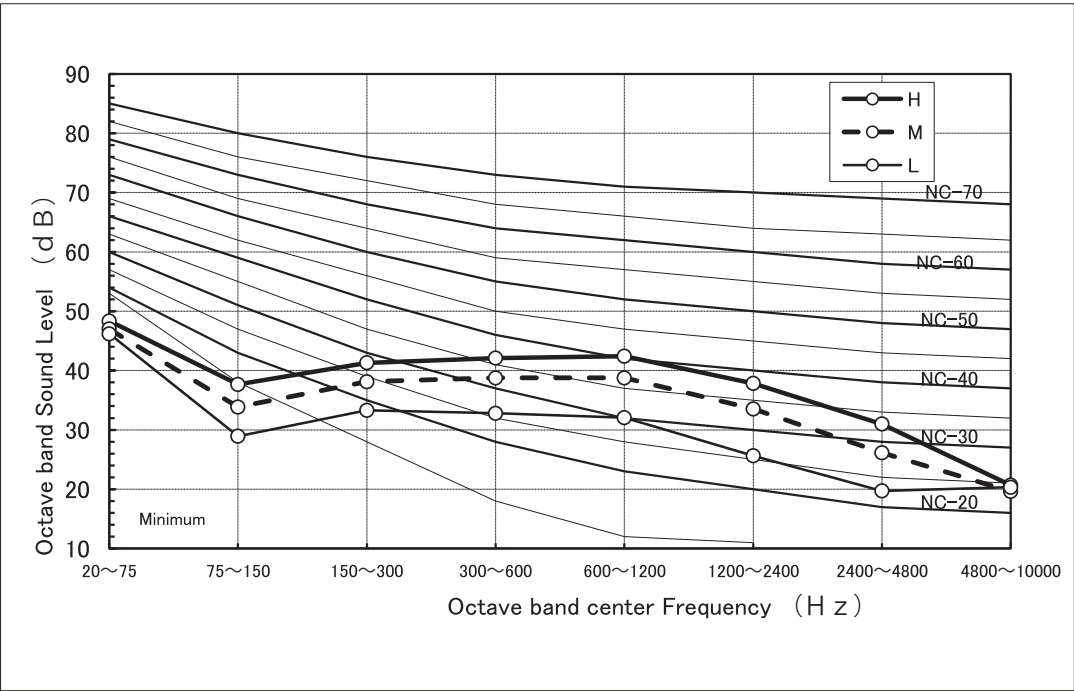
RAV-GM561KRTP-A

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



RAV-GM801KRTP-A

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



2-6. Compact 4-way Cassette 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

Compact 4-way cassette type

Model		Indoor unit		RAV-RM301MUT-E	RAV-RM401MUT-E	RAV-RM561MUT-E	
		Outdoor unit		RAV-GM301ATP-A	RAV-GM401ATP-A	RAV-GM561ATP-A	
Cooling capacity (kW)				2.5 < 0.9-3.0 >	3.6 < 0.9-4.0 >	5.0 < 1.5 - 5.6 >	
Heating capacity (kW)				3.4 < 0.8-4.5 >	4.0 < 0.8-5.0 >	5.3 < 1.5 - 6.3 >	
Power supply				1 phase 220V-240V/50Hz			
Electrical characteristics	Cooling	Running current (A)		1.14 - 4.05	1.12 - 9.57	1.77 - 8.80	
		Power consumption (kW)		0.59	0.90	1.55	
		Power factor (%)		90	93	95	
		EER		4.24	4.00	3.23	
		AEER		4.06	3.90	3.17	
	Heating	Running current (A)		1.07 - 6.55	0.87 - 8.05	1.77 - 11.35	
		Besides, r Under cell	Power consumption (kW)		0.76	0.95	1.47
			Power factor (%)		92	93	96
			COP		4.47	4.21	3.61
			ACOP		4.33	4.11	3.54
Indoor unit							
Appearance		Main unit		Zinc hot dipping steel plate			
		Ceiling panel (Sold separately)	Model	RBC-UM21PG(W)-E			
			Panel color	Gran White (Mansell 5PB9/1)			
Outer dimension		Main unit	Height (mm)	256			
			Width (mm)	575			
			Depth (mm)	575			
		Ceiling panel (Sold separately)	Height (mm)	12			
			Width (mm)	620			
			Depth (mm)	620			
Total weight		Main unit (kg)		15.0			
		Ceiling panel (Sold separately) (kg)		3.0			
Fan unit		Fan		Turbo fan			
		Standard air flow	H/M/L (m3/h)	640 / 520 / 440	660 / 552 / 468	798 / 672 / 546	
Air filter				Standard filter (Long life filter)			
Sound pressure level			H/M/L (dB)	38 / 36 / 30	41 / 36 / 32	44 / 39 / 35	
Connecting pipe		Drain port		VP20			

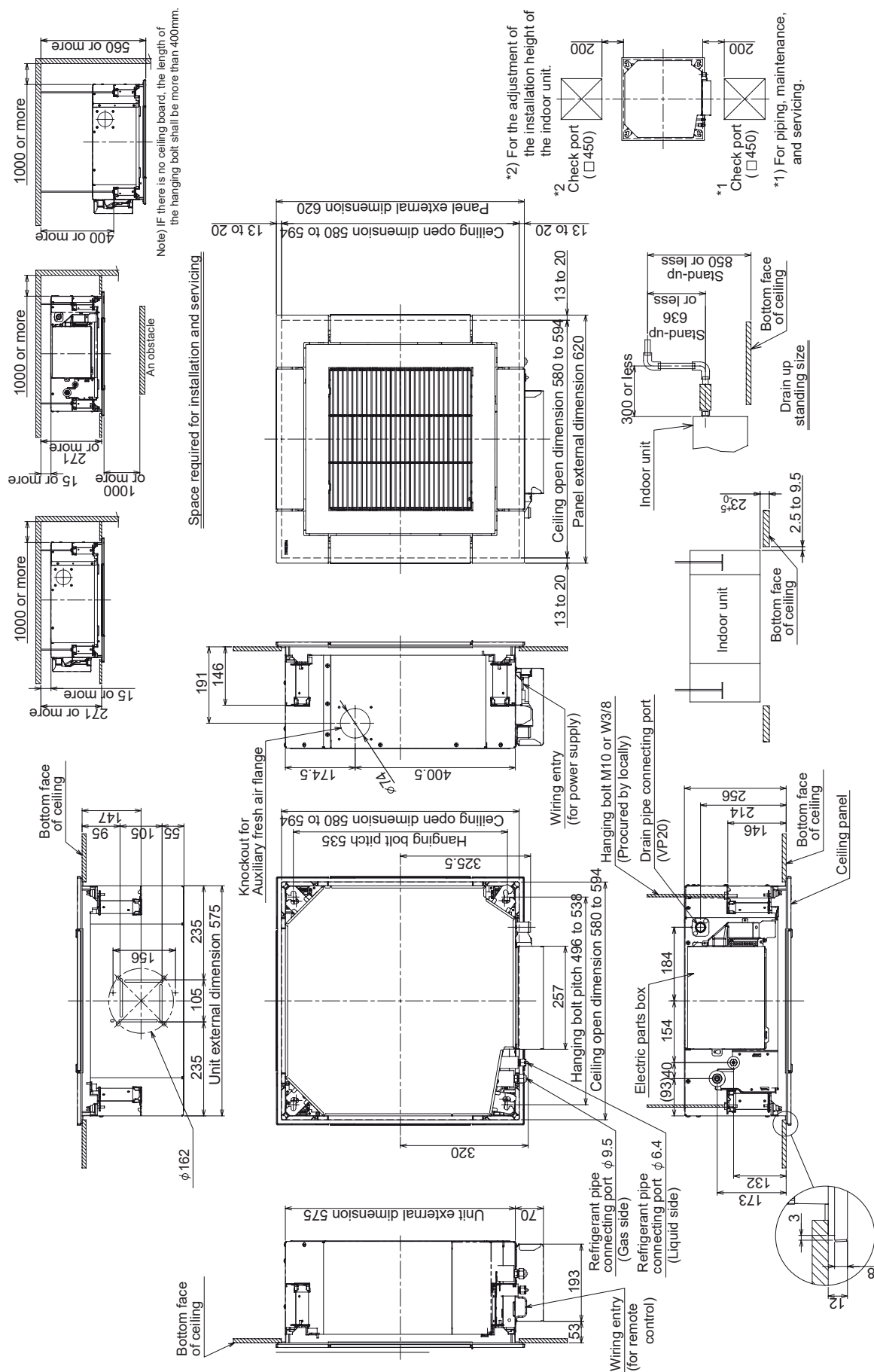
- 1 : The cooling capacities and electrical characteristics are measured under the conditions specified by JIS B 8615 based on the reference piping. The reference piping consists of 5 m of main piping and 2.5 m of branch piping connected with 0 meter height.
- 2 : The sound level are measured in an anechoic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

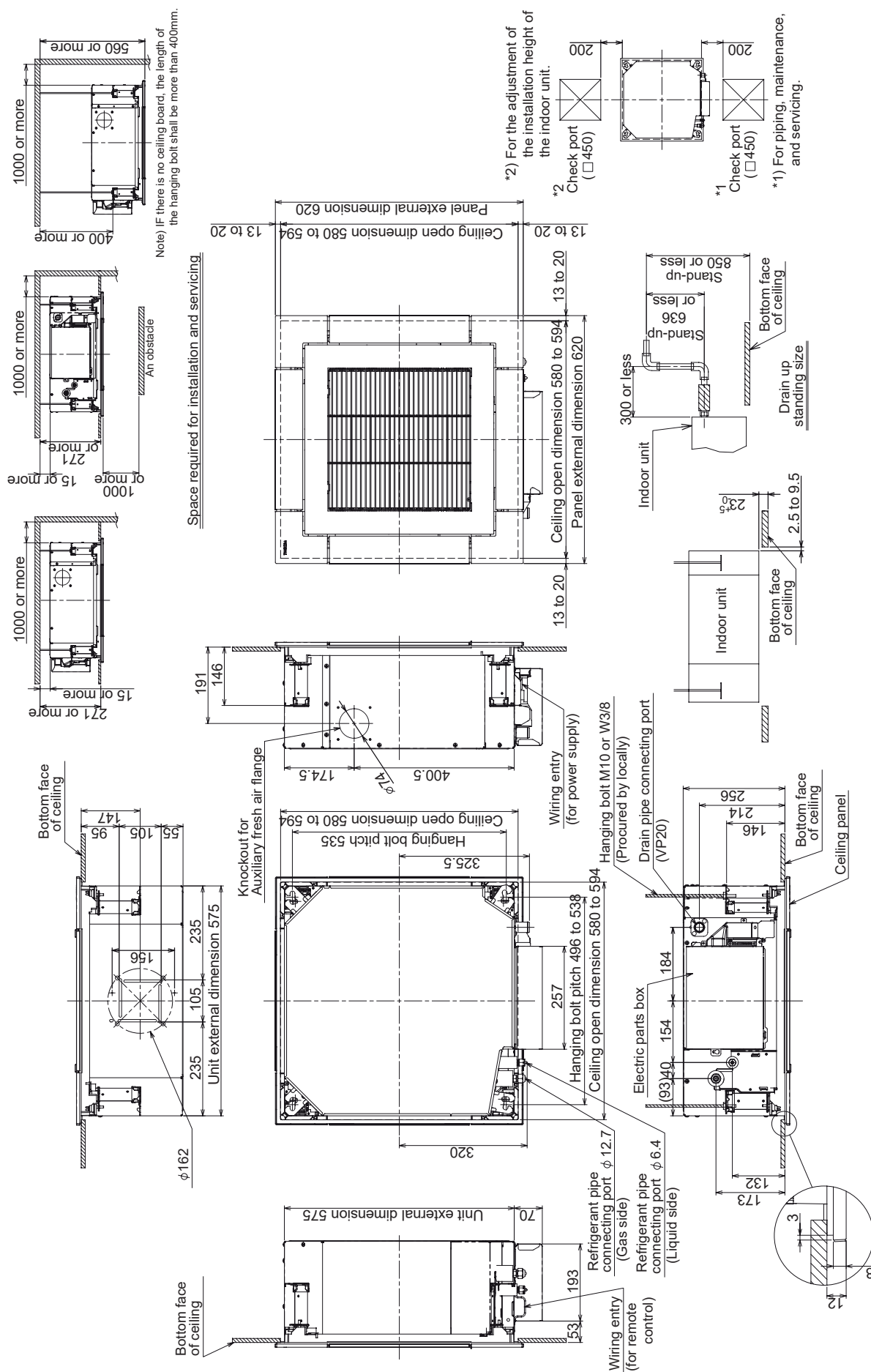
2-6-2. Dimension

RAV-RM301MUT-E



(Unit:mm)

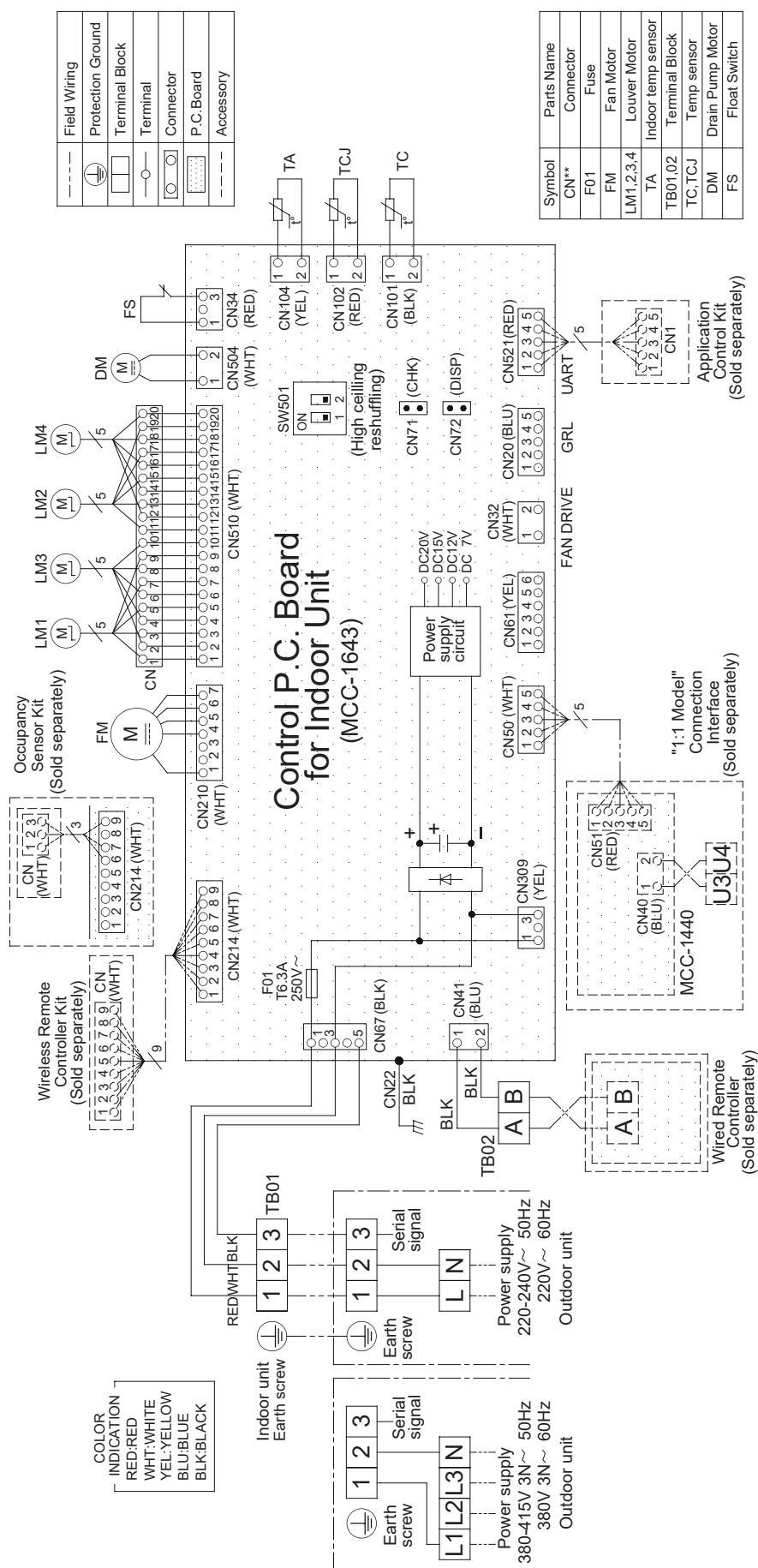
RAV-RM*1MUT-E (*40 / 56)



(Unit:mm)

2-6-3. Wiring diagrams

RAV-RM*1MUT-E (*30 / 40 / 56)



2-6-4. Sensible Capacity Table

Product models : RAV-RM30MUT-E / RAV-RM301MUTP-A

Standard Condition

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

Specification of product at standard condition.

Total Cooling Capacity (TC)	2.50 kW
Sensible Heat Capacity (SHC)	2.12 kW

Outdoor air temp. °C DB	Indoor Air temperature																	
	14.0 °C WB		15.0 °C WB		16.0 °C WB		17.0 °C WB		18.0 °C WB		19.0 °C WB		20.0 °C WB		22.0 °C WB		24.0 °C WB	
	20.0 °C DB		21.0 °C DB		23.0 °C DB		24.0 °C DB		26.0 °C DB		27.0 °C DB		28.0 °C DB		30.0 °C DB		32.0 °C DB	
	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
10.0	2.41	2.19	2.50	2.25	2.67	2.34	2.73	2.39	2.85	2.49	2.94	2.49	3.02	2.49	3.20	2.48	3.35	2.44
12.0	2.39	2.18	2.48	2.23	2.64	2.32	2.71	2.37	2.83	2.47	2.92	2.47	3.00	2.47	3.18	2.46	3.32	2.42
14.0	2.37	2.16	2.46	2.21	2.62	2.30	2.68	2.35	2.81	2.45	2.89	2.45	2.97	2.45	3.15	2.44	3.29	2.40
16.0	2.35	2.14	2.43	2.19	2.60	2.28	2.66	2.33	2.78	2.43	2.86	2.43	2.94	2.43	3.12	2.42	3.26	2.38
18.0	2.33	2.11	2.41	2.16	2.57	2.26	2.63	2.31	2.75	2.40	2.83	2.40	2.91	2.40	3.09	2.39	3.23	2.36
20.0	2.30	2.09	2.38	2.14	2.54	2.23	2.60	2.28	2.72	2.38	2.80	2.38	2.88	2.38	3.05	2.37	3.19	2.33
21.0	2.29	2.08	2.37	2.13	2.53	2.22	2.59	2.27	2.71	2.36	2.78	2.36	2.86	2.36	3.03	2.35	3.17	2.32
23.0	2.26	2.05	2.34	2.10	2.49	2.19	2.55	2.24	2.67	2.33	2.75	2.33	2.83	2.33	3.00	2.32	3.13	2.29
25.0	2.23	2.03	2.31	2.07	2.46	2.16	2.52	2.21	2.64	2.30	2.71	2.30	2.79	2.30	2.96	2.29	3.09	2.26
27.0	2.20	2.00	2.27	2.04	2.43	2.13	2.48	2.18	2.60	2.27	2.68	2.27	2.75	2.27	2.91	2.26	3.05	2.22
29.0	2.16	1.97	2.24	2.01	2.39	2.10	2.45	2.15	2.56	2.23	2.63	2.23	2.71	2.24	2.87	2.22	3.00	2.19
31.0	2.13	1.94	2.20	1.98	2.35	2.07	2.41	2.11	2.52	2.20	2.59	2.20	2.67	2.20	2.82	2.19	2.95	2.16
33.0	2.09	1.90	2.17	1.95	2.31	2.03	2.37	2.07	2.47	2.16	2.55	2.16	2.62	2.16	2.78	2.15	2.90	2.12
35.0	2.05	1.87	2.12	1.91	2.27	1.99	2.32	2.04	2.43	2.12	2.50	2.12	2.57	2.12	2.72	2.11	2.85	2.08
37.0	2.01	1.83	2.08	1.87	2.22	1.96	2.28	2.00	2.38	2.08	2.45	2.08	2.52	2.08	2.67	2.07	2.79	2.04
39.0	1.97	1.79	2.04	1.84	2.18	1.92	2.23	1.96	2.33	2.04	2.40	2.04	2.47	2.04	2.62	2.03	2.74	2.00
40.0	1.95	1.77	2.02	1.82	2.16	1.89	2.21	1.94	2.31	2.02	2.38	2.02	2.44	2.02	2.59	2.01	2.71	1.98
42.0	1.91	1.73	1.97	1.77	2.11	1.85	2.16	1.89	2.26	1.97	2.32	1.97	2.39	1.97	2.53	1.96	2.65	1.93
43.0	1.89	1.71	1.95	1.75	2.08	1.83	2.13	1.87	2.23	1.95	2.30	1.95	2.36	1.95	2.50	1.94	2.61	1.91
45.0	1.84	1.67	1.90	1.71	2.03	1.79	2.08	1.82	2.17	1.90	2.24	1.90	2.30	1.90	2.44	1.89	2.55	1.86
46.0	1.82	1.65	1.88	1.69	2.00	1.76	2.05	1.80	2.15	1.87	2.21	1.87	2.27	1.88	2.41	1.87	2.52	1.84

Product models : RAV-RM401MUT-E/ RAV-RM401MUT-A

Standard Condition

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

Specification of product at standard condition.

Total Cooling Capacity (TC)	3.60 kW
Sensible Heat Capacity (SHC)	3.05 kW

Outdoor air temp. °C DB	Indoor Air temperature																	
	14.0 °C WB		15.0 °C WB		16.0 °C WB		17.0 °C WB		18.0 °C WB		19.0 °C WB		20.0 °C WB		22.0 °C WB		24.0 °C WB	
	20.0 °C DB		21.0 °C DB		23.0 °C DB		24.0 °C DB		26.0 °C DB		27.0 °C DB		28.0 °C DB		30.0 °C DB		32.0 °C DB	
	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
10.0	3.48	3.16	3.60	3.23	3.84	3.37	3.93	3.44	4.11	3.59	4.23	3.59	4.35	3.59	4.61	3.57	4.82	3.52
12.0	3.45	3.13	3.57	3.20	3.81	3.34	3.90	3.42	4.08	3.56	4.20	3.56	4.32	3.56	4.57	3.54	4.78	3.49
14.0	3.42	3.10	3.54	3.18	3.77	3.31	3.86	3.39	4.04	3.53	4.16	3.53	4.28	3.53	4.53	3.51	4.74	3.46
16.0	3.39	3.07	3.50	3.15	3.74	3.28	3.83	3.35	4.00	3.49	4.12	3.49	4.24	3.50	4.49	3.48	4.70	3.42
18.0	3.35	3.04	3.47	3.11	3.70	3.25	3.79	3.32	3.96	3.46	4.08	3.46	4.20	3.46	4.44	3.44	4.65	3.39
20.0	3.31	3.01	3.43	3.08	3.66	3.21	3.75	3.28	3.92	3.42	4.03	3.42	4.15	3.42	4.39	3.40	4.60	3.35
21.0	3.29	2.99	3.41	3.06	3.64	3.19	3.72	3.26	3.90	3.40	4.01	3.40	4.12	3.40	4.37	3.38	4.57	3.33
23.0	3.25	2.95	3.37	3.02	3.59	3.15	3.68	3.22	3.85	3.36	3.96	3.36	4.07	3.36	4.31	3.34	4.51	3.29
25.0	3.21	2.91	3.32	2.98	3.54	3.11	3.63	3.18	3.80	3.31	3.91	3.31	4.02	3.31	4.26	3.30	4.45	3.25
27.0	3.16	2.87	3.27	2.94	3.49	3.07	3.58	3.13	3.74	3.26	3.85	3.26	3.96	3.27	4.20	3.25	4.39	3.20
29.0	3.12	2.83	3.22	2.90	3.44	3.02	3.52	3.09	3.69	3.21	3.79	3.21	3.90	3.22	4.13	3.20	4.32	3.15
31.0	3.07	2.78	3.17	2.85	3.39	2.97	3.47	3.04	3.63	3.16	3.73	3.16	3.84	3.17	4.07	3.15	4.25	3.10
33.0	3.01	2.74	3.12	2.80	3.33	2.92	3.41	2.99	3.56	3.11	3.67	3.11	3.77	3.11	4.00	3.09	4.18	3.05
35.0	2.96	2.69	3.06	2.75	3.27	2.87	3.34	2.93	3.50	3.05	3.60	3.05	3.70	3.05	3.92	3.04	4.10	2.99
37.0	2.90	2.63	3.00	2.70	3.20	2.81	3.28	2.87	3.43	2.99	3.53	2.99	3.63	3.00	3.85	2.98	4.02	2.93
39.0	2.84	2.58	2.94	2.64	3.14	2.76	3.21	2.81	3.36	2.93	3.46	2.93	3.56	2.93	3.77	2.92	3.94	2.87
40.0	2.81	2.55	2.91	2.61	3.10	2.73	3.18	2.78	3.32	2.90	3.42	2.90	3.52	2.90	3.73	2.89	3.90	2.84
42.0	2.75	2.49	2.84	2.55	3.03	2.66	3.11	2.72	3.25	2.83	3.34	2.83	3.44	2.84	3.64	2.82	3.81	2.78
43.0	2.71	2.47	2.81	2.52	3.00	2.63	3.07	2.69	3.21	2.80	3.31	2.80	3.40	2.80	3.60	2.79	3.77	2.75
45.0	2.65	2.40	2.74	2.46	2.92	2.57	2.99	2.62	3.13	2.73	3.22	2.73	3.32	2.73	3.51	2.72	3.67	2.68
46.0	2.61	2.37	2.70	2.43	2.89	2.53	2.95	2.59	3.09	2.70	3.18	2.70	3.27	2.70	3.47	2.68	3.63	2.64

Product models : RAV-RM56MUT-E / RAV-RM561MUTP-A

Standard Condition

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

Specification of product at standard condition.

Total Cooling Capacity (TC)	5.00 kW
Sensible Heat Capacity (SHC)	4.05 kW

Outdoor air temp.	Indoor Air temperature																	
	14.0 °C WB		15.0 °C WB		16.0 °C WB		17.0 °C WB		18.0 °C WB		19.0 °C WB		20.0 °C WB		22.0 °C WB		24.0 °C WB	
	20.0 °C DB		21.0 °C DB		23.0 °C DB		24.0 °C DB		26.0 °C DB		27.0 °C DB		28.0 °C DB		30.0 °C DB		32.0 °C DB	
°C DB	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
10.0	4.83	4.20	5.00	4.30	5.33	4.48	5.46	4.58	5.71	4.77	5.88	4.76	6.05	4.76	6.40	4.72	6.70	4.63
12.0	4.79	4.17	4.96	4.27	5.29	4.45	5.41	4.54	5.66	4.73	5.83	4.72	6.00	4.72	6.35	4.68	6.64	4.60
14.0	4.75	4.13	4.91	4.23	5.24	4.41	5.37	4.50	5.61	4.69	5.78	4.68	5.94	4.68	6.30	4.64	6.58	4.56
16.0	4.70	4.09	4.87	4.19	5.19	4.37	5.32	4.46	5.56	4.64	5.72	4.64	5.89	4.64	6.24	4.60	6.52	4.51
18.0	4.65	4.05	4.82	4.15	5.14	4.32	5.26	4.41	5.50	4.60	5.67	4.59	5.83	4.59	6.17	4.55	6.45	4.47
20.0	4.60	4.01	4.76	4.10	5.08	4.27	5.20	4.36	5.44	4.54	5.60	4.54	5.76	4.54	6.10	4.50	6.38	4.42
21.0	4.57	3.98	4.73	4.08	5.05	4.25	5.17	4.34	5.41	4.52	5.57	4.51	5.73	4.51	6.07	4.47	6.35	4.39
23.0	4.52	3.93	4.68	4.02	4.99	4.20	5.11	4.29	5.34	4.46	5.50	4.46	5.66	4.45	5.99	4.42	6.27	4.34
25.0	4.46	3.88	4.61	3.97	4.92	4.14	5.04	4.23	5.27	4.40	5.43	4.40	5.58	4.40	5.91	4.36	6.18	4.28
27.0	4.39	3.83	4.55	3.92	4.85	4.08	4.97	4.17	5.20	4.34	5.35	4.33	5.50	4.33	5.83	4.30	6.10	4.22
29.0	4.33	3.77	4.48	3.86	4.78	4.02	4.89	4.11	5.12	4.27	5.27	4.27	5.42	4.27	5.74	4.23	6.00	4.15
31.0	4.26	3.71	4.41	3.79	4.70	3.96	4.81	4.04	5.04	4.21	5.18	4.20	5.33	4.20	5.65	4.16	5.91	4.09
33.0	4.19	3.64	4.33	3.73	4.62	3.89	4.73	3.97	4.95	4.13	5.10	4.13	5.24	4.13	5.55	4.09	5.81	4.02
35.0	4.11	3.58	4.25	3.66	4.54	3.81	4.64	3.90	4.86	4.06	5.00	4.05	5.14	4.05	5.45	4.02	5.70	3.94
37.0	4.03	3.51	4.17	3.59	4.45	3.74	4.56	3.82	4.77	3.98	4.91	3.97	5.05	3.97	5.34	3.94	5.59	3.87
39.0	3.95	3.44	4.08	3.52	4.36	3.67	4.46	3.74	4.67	3.90	4.80	3.89	4.94	3.89	5.23	3.86	5.47	3.79
40.0	3.90	3.40	4.04	3.48	4.31	3.63	4.41	3.70	4.62	3.85	4.75	3.85	4.89	3.85	5.18	3.82	5.41	3.75
42.0	3.82	3.32	3.95	3.40	4.21	3.54	4.31	3.62	4.51	3.77	4.65	3.76	4.78	3.76	5.06	3.73	5.29	3.66
43.0	3.77	3.28	3.90	3.36	4.16	3.50	4.26	3.58	4.46	3.72	4.59	3.72	4.72	3.72	5.00	3.69	5.23	3.62
45.0	3.68	3.20	3.81	3.28	4.06	3.42	4.16	3.49	4.35	3.63	4.48	3.63	4.61	3.63	4.88	3.60	5.10	3.53
46.0	3.63	3.16	3.76	3.23	4.01	3.37	4.10	3.44	4.29	3.58	4.42	3.58	4.55	3.58	4.81	3.55	5.04	3.48

2-5-5. Part load performance

Combination

Indoor: RAV-RM301MUT-E
Outdoor: RAV-GM301ATP-A

Operation range	Cooling		Heating	
	Q	P	Q	P
MINIMUM	W 900	180	800	170
RATING	W 2500	590	3400	760
MAXIMUM	W 3000	820	4500	1400

Cooling																				
Outdoor Temperature DB (°C)	Parts Load (%)																			
	100		90		80		70		60		50		40		30		20		10	
	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P
20	2981	463	2683	413	2385	363	2087	312	1789	262	1491	212	1193	161	1073	141	1073	141	1073	141
21	2949	472	2654	420	2359	369	2064	318	1770	267	1475	216	1180	164	1062	144	1062	144	1062	144
22	2917	480	2625	428	2334	376	2042	324	1750	272	1459	219	1167	167	1050	146	1050	146	1050	146
23	2885	489	2597	435	2308	382	2020	329	1731	276	1443	223	1154	170	1039	149	1039	149	1039	149
24	2853	497	2568	443	2282	389	1997	335	1712	281	1426	227	1141	173	1027	152	1027	152	1027	152
25	2821	505	2539	451	2257	396	1975	341	1693	286	1410	231	1128	176	1016	154	1016	154	1016	154
26	2789	514	2510	458	2231	402	1952	346	1673	291	1394	235	1116	179	1004	157	1004	157	1004	157
27	2757	522	2481	466	2205	409	1930	352	1654	295	1378	239	1103	182	992	159	992	159	992	159
28	2725	531	2452	473	2180	416	1907	358	1635	300	1362	243	1090	185	981	162	981	162	981	162
29	2693	539	2423	481	2154	422	1885	364	1616	305	1346	246	1077	188	969	165	969	165	969	165
30	2660	548	2394	488	2128	429	1862	369	1596	310	1330	250	1064	191	958	167	958	167	958	167
31	2628	556	2366	496	2103	435	1840	375	1577	315	1314	254	1051	194	946	170	946	170	946	170
32	2596	565	2337	503	2077	442	1817	381	1558	319	1298	258	1039	197	935	172	935	172	935	172
33	2564	573	2308	511	2051	449	1795	386	1539	324	1282	262	1026	200	923	175	923	175	923	175
34	2532	582	2279	518	2026	455	1772	392	1519	329	1266	266	1013	203	912	177	912	177	912	177
35	2500	590	2250	526	2000	462	1750	398	1500	334	1250	270	1000	206	900	180	900	180	900	180
36	2468	598	2221	533	1974	468	1728	404	1481	339	1234	274	987	209	888	183	888	183	888	183
37	2436	607	2192	541	1949	475	1705	409	1462	343	1218	277	974	212	877	185	877	185	877	185
38	2404	615	2163	549	1923	482	1683	415	1442	348	1202	281	962	214	865	188	865	188	865	188
39	2372	624	2135	556	1897	488	1660	421	1423	353	1186	285	949	217	854	190	854	190	854	190
40	2340	632	2106	564	1872	495	1638	426	1404	358	1170	289	936	220	842	193	842	193	842	193
41	2308	641	2077	571	1846	502	1615	432	1385	362	1154	293	923	223	831	195	831	195	831	195
42	2275	649	2048	579	1820	508	1593	438	1365	367	1138	297	910	226	819	198	819	198	819	198
43	2243	658	2019	586	1795	515	1570	443	1346	372	1122	301	897	229	808	201	808	201	808	201
44	2211	666	1990	594	1769	521	1548	449	1327	377	1106	304	885	232	796	203	796	203	796	203
45	2179	675	1961	601	1743	528	1525	455	1308	382	1090	308	872	235	785	206	785	206	785	206
46	2147	683	1932	609	1718	535	1503	461	1288	386	1074	312	859	238	773	208	773	208	773	208

Heating																				
Outdoor Temperature DB (°C)	Parts Load (%)																			
	100		90		80		70		60		50		40		30		20		10	
	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P
-15	1675	454	1508	408	1340	362	1173	316	1005	270	838	224	670	178	503	132	394	102	394	102
-14	1725	489	1552	439	1380	389	1207	340	1035	290	862	241	690	191	517	141	406	109	406	109
-13	1774	523	1597	470	1419	416	1242	363	1064	310	887	257	710	204	532	151	417	117	417	117
-12	1823	557	1641	500	1459	444	1276	387	1094	331	912	274	729	218	547	161	429	125	429	125
-11	1872	591	1685	531	1498	471	1311	411	1123	351	936	291	749	231	562	171	441	132	441	132
-10	1922	625	1730	561	1537	498	1345	435	1153	371	961	308	769	244	577	181	452	140	452	140
-9	1971	659	1774	592	1577	525	1380	458	1183	391	986	324	788	258	591	191	464	147	464	147
-8	2020	693	1818	623	1616	552	1414	482	1212	412	1010	341	808	271	606	201	475	155	475	155
-7	2070	727	1863	653	1656	579	1449	506	1242	432	1035	358	828	284	621	210	487	163	487	163
-6	2113	721	1902	648	1691	575	1479	501	1268	428	1057	355	845	282	634	209	497	161	497	161
-5	2157	715	1941	642	1726	570	1510	497	1294	425	1079	352	863	279	647	207	508	160	508	160
-4	2201	709	1981	637	1761	565	1541	493	1321	421	1100	349	880	277	660	205	518	159	518	159
-3	2245	703	2020	632	1796	560	1571	489	1347	417	1122	346	898	275	673	203	528	157	528	157
-2	2289	697	2060	626	1831	555	1602	485	1373	414	1144	343	915	272	687	202	538	156	538	156
-1	2332	691	2099	621	1866	550	1633	480	1399	410	1166	340	933	270	700	200	549	155	549	155
0	2376	685	2139	615	1901	546	1663	476	1426	407	1188	337	950	268	713	198	559	153	559	153
1	2420	679	2178	610	1936	541	1694	472	1452	403	1210	334	968	265	726	196	569	152	569	152
2	2464	673	2217	604	1971	536	1725	468	1478	399	1232	331	986	263	739	195	580	150	580	150
3	2504	682	2254	612	2003	543	1753	474	1502	405	1252	336	1002	266	751	197	589	152	589	152
4	2544	691	2290	621	2036	550	1781	480	1527	410	1272	340	1018	270	763	200	599	154	599	154
5	2585	700	2326	629	2068	558	1809	487	1551	416	1292	345	1034	274	775	202	608	157	608	157
6	3312	748	2981	672	2650	596	2319	520	1987	444	1656	368	1325	292	994	217	779	167	779	167
7	3400	760	3060	683	2720	606	2380	529	2040	451	1700	374	1360	297	1020	220	800	170	800	170
8	3488	772	3139	693	2790	615	2441	537	2093	458	1744	380	1395	302	1046	223	821	173	821	173
9	3575	784	3218	704	2860	624	2503	545	2145	465	1788	386	1430	306	1073	227	841	175	841	175
10	3663	795	3297	715	2931	634	2564	553	2198	472	1832	392	1465	311	1099	230	862	178	862	178
11	3751	807	3376	725	3001	643	2626	561	2251	479	1875	397	1500	315	1125	234	883	181	883	181
12	3839	819	3455	736	3071	653	2687	569	2303	486	1919	403	1535	320	1152	237	903	183	903	183
13	3926	831	3534	746	3141	662	2749	578	2356	493	1963	409	1571	325	1178	240	924	186	924	186
14	4014	842	3613	757	3211	671	2810	586	2409	500	2007	415	1606	329	1204	244	945	188	945	188
15	4102	854	3692	767	3282	681	2871	594	2461	507	2051	421	1641	334	1231	247	965	191	965	191
16	4190	866	3771	778	3352	690	2933	602	2514	514	2095	426	1676	338	1257	251	986	194	986	194
17	4277	878	3850	789	3422	699	2994	610	2566	521	2139	432	1711	343	1283	254	1006	196	1006	196
18	4365	889	3929	799	3492	709	3056	619	2619	528	2183	438	1746	348	1310	257	1027	199	1027	199
19	4453	901	4008	810	3562	718	3117	627	2672	535	2226	444	1781	352	1336	261	1048	202	1048	202
20	4541	913	4087	820	3633	728	3178	635	2724	542	2270	450	1816	357	1362	264	1068	204	1068	204
21	4628	925	4166	831	3703	737	3240	643	2777	549	2314	455	1851	361	1389	268	1089	207	1089	207
22	4716	937	4245	841	3773	746	3301	651	2830	556	2358	461	1886	366	1415	271	1110	209	1110	209
23	4804	948	4323	852	3843	756	3363	659	2882	563	2402	467	1922	371	1441	274	1130	212	1130	212
24	4892	960	4402	863	3913	765	3424	668	2935	570	2446	473	1957	375	1467	278	1151	215	1151	215

Combination

Indoor: RAV-RM401MUT-E
Outdoor: RAV-GM401ATP-A

Operation range	Cooling		Heating	
	Q	P	Q	P
MINIMUM	W	900	180	800
RATING	W	3600	900	4000
MAXIMUM	W	4000	2000	5000

Cooling

Outdoor Temperature DB (°C)	Parts Load (%)																			
	100		90		80		70		60		50		40		30		20		10	
	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P
20	4293	707	3864	631	3434	556	3005	480	2576	405	2147	330	1717	254	1288	179	1073	141	1073	141
21	4247	719	3822	643	3397	566	2973	489	2548	412	2123	336	1699	259	1274	182	1062	144	1062	144
22	4201	732	3781	654	3360	576	2940	498	2520	420	2100	342	1680	264	1260	186	1050	146	1050	146
23	4154	745	3739	666	3324	586	2908	507	2493	427	2077	348	1662	268	1246	189	1039	149	1039	149
24	4108	758	3697	677	3287	596	2876	516	2465	435	2054	354	1643	273	1232	192	1027	152	1027	152
25	4062	771	3656	689	3250	607	2843	524	2437	442	2031	360	1625	278	1219	195	1016	154	1016	154
26	4016	784	3614	700	3213	617	2811	533	2409	449	2008	366	1606	282	1205	199	1004	157	1004	157
27	3970	797	3573	712	3176	627	2779	542	2382	457	1985	372	1588	287	1191	202	992	159	992	159
28	3923	810	3531	723	3139	637	2746	551	2354	464	1962	378	1569	291	1177	205	981	162	981	162
29	3877	823	3489	735	3102	647	2714	559	2326	472	1939	384	1551	296	1163	208	969	165	969	165
30	3831	836	3448	746	3065	657	2682	568	2299	479	1916	390	1532	301	1149	212	958	167	958	167
31	3785	848	3406	758	3028	667	2649	577	2271	486	1892	396	1514	305	1135	215	946	170	946	170
32	3739	861	3365	769	2991	678	2617	586	2243	494	1869	402	1495	310	1122	218	935	172	935	172
33	3692	874	3323	781	2954	688	2585	594	2215	501	1846	408	1477	315	1108	221	923	175	923	175
34	3646	887	3282	792	2917	698	2552	603	2188	509	1823	414	1458	319	1094	225	912	177	912	177
35	3600	900	3240	804	2880	708	2520	612	2160	516	1800	420	1440	324	1080	228	900	180	900	180
36	3554	913	3198	816	2843	718	2488	621	2132	523	1777	426	1422	329	1066	231	888	183	888	183
37	3508	926	3157	827	2806	728	2455	630	2105	531	1754	432	1403	333	1052	235	877	185	877	185
38	3461	939	3115	839	2769	738	2423	638	2077	538	1731	438	1385	338	1038	238	865	188	865	188
39	3415	952	3074	850	2732	749	2391	647	2049	546	1708	444	1366	343	1025	241	854	190	854	190
40	3369	965	3032	862	2695	759	2358	656	2021	553	1685	450	1348	347	1011	244	842	193	842	193
41	3323	977	2991	873	2658	769	2326	665	1994	560	1661	456	1329	352	997	248	831	195	831	195
42	3277	990	2949	885	2621	779	2294	673	1966	568	1638	462	1311	357	983	251	819	198	819	198
43	3230	1003	2907	896	2584	789	2261	682	1938	575	1615	468	1292	361	969	254	808	201	808	201
44	3184	1016	2866	908	2547	799	2229	691	1911	583	1592	474	1274	366	955	257	796	203	796	203
45	3138	1029	2824	919	2510	809	2197	700	1883	590	1569	480	1255	370	941	261	785	206	785	206
46	3092	1042	2783	931	2473	820	2164	708	1855	597	1546	486	1237	375	928	264	773	208	773	208

Heating

Outdoor Temperature DB (°C)	Parts Load (%)																			
	100		90		80		70		60		50		40		30		20		10	
	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P
-15	2070	457	1863	408	1656	360	1449	311	1242	262	1035	213	828	165	621	116	414	67	414	67
-14	2122	491	1910	439	1698	386	1486	334	1273	282	1061	229	849	177	637	125	424	72	424	72
-13	2174	525	1957	469	1739	413	1522	357	1304	301	1087	245	870	189	652	133	435	77	435	77
-12	2226	560	2003	500	1781	440	1558	381	1335	321	1113	261	890	202	668	142	445	82	445	82
-11	2277	594	2050	531	1822	467	1594	404	1366	341	1139	277	911	214	683	151	455	88	455	88
-10	2329	628	2096	561	1863	494	1630	427	1398	360	1165	293	932	226	699	160	466	93	466	93
-9	2381	663	2143	592	1905	521	1667	451	1429	380	1190	309	952	239	714	168	476	98	476	98
-8	2433	697	2189	623	1946	548	1703	474	1460	400	1216	325	973	251	730	177	487	103	487	103
-7	2484	731	2236	653	1988	575	1739	497	1491	419	1242	341	994	264	745	186	497	108	497	108
-6	2530	743	2277	664	2024	585	1771	506	1518	426	1265	347	1012	268	759	189	506	110	506	110
-5	2576	755	2319	675	2061	594	1804	514	1546	433	1288	353	1031	272	773	192	515	111	515	111
-4	2622	768	2360	686	2098	604	1836	522	1573	440	1311	359	1049	277	787	195	524	113	524	113
-3	2669	780	2402	697	2135	614	1868	530	1601	447	1334	364	1067	281	801	198	534	115	534	115
-2	2715	792	2443	708	2172	623	1900	539	1629	454	1357	370	1086	286	814	201	543	117	543	117
-1	2761	804	2484	718	2208	633	1932	547	1656	461	1380	376	1104	290	828	204	552	119	552	119
0	2807	816	2526	729	2245	642	1965	555	1684	468	1403	381	1123	294	842	207	561	120	561	120
1	2853	829	2567	740	2282	652	1997	564	1712	475	1426	387	1141	299	856	210	571	122	571	122
2	2899	841	2609	751	2319	662	2029	572	1739	482	1449	393	1159	303	870	213	580	124	580	124
3	2946	852	2651	761	2357	670	2062	580	1768	489	1473	398	1178	307	884	216	589	126	589	126
4	2994	863	2694	771	2395	679	2095	587	1796	495	1497	403	1197	311	898	219	599	127	599	127
5	3041	875	2737	781	2433	688	2129	595	1825	502	1520	409	1216	315	912	222	608	129	608	129
6	3897	935	3507	836	3117	736	2728	636	2338	537	1948	437	1559	337	1169	238	779	138	779	138
7	4000	950	3600	849	3200	748	2800	646	2400	545	2000	444	1600	343	1200	241	800	140	800	140
8	4103	965	3693	862	3283	759	2872	656	2462	553	2052	451	1641	348	1231	245	821	142	821	142
9	4206	979	3786	875	3365	771	2945	666	2524	562	2103	457	1683	353	1262	249	841	144	841	144
10	4310	994	3879	888	3448	782	3017	676	2586	570	2155	464	1724	358	1293	252	862	147	862	147
11	4413	1009	3972	901	3530	794	3089	686	2648	579	2206	471	1765	364	1324	256	883	149	883	149
12	4516	1024	4065	914	3613	805	3161	696	2710	587	2258	478	1806	369	1355	260	903	151	903	151
13	4619	1038	4157	928	3695	817	3234	706	2772	596	2310	485	1848	374	1386	264	924	153	924	153
14	4723	1053	4250	941	3778	829	3306	716	2834	604	2361	492	1889	380	1417	267	945	155	945	155
15	4826	1068	4343	954	3861	840	3378	726	2895	613	2413	499	1930	385	1448	271	965	157	965	157
16	4929	1082	4436	967	3943	852	3450	736	2957	621	2465	506	1972	390	1479	275	986	160	986	160
17	5032	1097	4529	980	4026	863	3523	746	3019	629	2516	512	2013	396	1510	279	1006	162	1006	162
18	5135	1112	4622	993	4108	875	3595	756	3081	638	2568	519	2054	401	1541	282	1027	164	1027	164
19	5239	1127	4715	1006	4191	886	3667	766	3143	646	2619	526	2095	406	1572	286	1048	166	1048	166
20	5342	1141	4808	1020	4274	898	3739	776	3205	655	2671	533	2137	411	1603	290	1068	168	1068	168
21	5445	1156	4901	1033	4356	910	3812	786	3267	663	2723	540	2178	417	1634	294	1089	170	1089	170
22	5548	1171	4994	1046	4439	921	3884	796	3329	672	2774	547	2219	422	1665	297	1110	173	1110	173
23	5652	1185	5086	1059	4521	933	3956	806	3391	680	2826	554	2261	427	1695	301	1130	175	1130	175
24	5755	1200	5179	1072	4604	944	4028	816	3453	688	2877	561	2302	433	1726	305	1151	177	1151	177

Combination

Indoor: RAV-RM561MUT-E
Outdoor: RAV-GM561ATP-A

Operation range		Cooling		Heating	
		Q	P	Q	P
MINIMUM	W	1500	300	1500	300
RATING	W	5000	1550	5300	1470
MAXIMUM	W	5600	1860	6300	2400

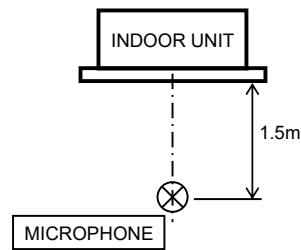
Cooling

Outdoor Temperature DB (°C)	Parts Load (%)																			
	100		90		80		70		60		50		40		30		20		10	
	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P
20	5963	1217	5366	1077	4770	936	4174	796	3578	656	2981	516	2385	376	1789	236	1789	236	1789	236
21	5898	1239	5309	1096	4719	953	4129	811	3539	668	2949	525	2359	383	1770	240	1770	240	1770	240
22	5834	1261	5251	1116	4667	971	4084	825	3501	680	2917	535	2334	389	1750	244	1750	244	1750	244
23	5770	1283	5193	1136	4616	988	4039	840	3462	692	2885	544	2308	396	1731	248	1731	248	1731	248
24	5706	1306	5135	1155	4565	1005	3994	854	3424	704	2853	554	2282	403	1712	253	1712	253	1712	253
25	5642	1328	5078	1175	4513	1022	3949	869	3385	716	2821	563	2257	410	1693	257	1693	257	1693	257
26	5578	1350	5020	1195	4462	1039	3904	883	3347	728	2789	572	2231	417	1673	261	1673	261	1673	261
27	5513	1372	4962	1214	4411	1056	3859	898	3308	740	2757	582	2205	424	1654	266	1654	266	1654	266
28	5449	1394	4904	1234	4359	1073	3814	913	3270	752	2725	591	2180	431	1635	270	1635	270	1635	270
29	5385	1417	4847	1253	4308	1090	3770	927	3231	764	2693	601	2154	437	1616	274	1616	274	1616	274
30	5321	1439	4789	1273	4257	1107	3725	942	3193	776	2660	610	2128	444	1596	279	1596	279	1596	279
31	5257	1461	4731	1293	4205	1124	3680	956	3154	788	2628	619	2103	451	1577	283	1577	283	1577	283
32	5193	1483	4673	1312	4154	1142	3635	971	3116	800	2596	629	2077	458	1558	287	1558	287	1558	287
33	5128	1506	4616	1332	4103	1159	3590	985	3077	812	2564	638	2051	465	1539	291	1539	291	1539	291
34	5064	1528	4558	1352	4051	1176	3545	1000	3039	824	2532	648	2026	472	1519	296	1519	296	1519	296
35	5000	1550	4500	1371	4000	1193	3500	1014	3000	836	2500	657	2000	479	1500	300	1500	300	1500	300
36	4936	1572	4442	1391	3949	1210	3455	1029	2962	848	2468	667	1974	485	1481	304	1481	304	1481	304
37	4872	1594	4385	1411	3897	1227	3410	1043	2923	860	2436	676	1949	492	1462	309	1462	309	1462	309
38	4808	1617	4327	1430	3846	1244	3365	1058	2885	872	2404	685	1923	499	1442	313	1442	313	1442	313
39	4743	1639	4269	1450	3795	1261	3320	1072	2846	884	2372	695	1897	506	1423	317	1423	317	1423	317
40	4298	1464	3868	1295	3438	1127	3008	958	2579	789	2149	621	1719	452	1289	283	1289	283	1289	283
41	4190	1464	3771	1295	3352	1127	2933	958	2514	789	2095	621	1676	452	1257	283	1257	283	1257	283
42	4083	1464	3675	1295	3267	1127	2858	958	2450	789	2042	621	1633	452	1225	283	1225	283	1225	283
43	3976	1464	3579	1295	3181	1127	2783	958	2386	789	1988	621	1590	452	1193	283	1193	283	1193	283
44	3869	1464	3482	1295	3095	1127	2708	958	2321	789	1934	621	1548	452	1161	283	1161	283	1161	283
45	3127	1136	2815	1005	2502	874	2189	744	1876	613	1564	482	1251	351	938	220	938	220	938	220
46	3020	1136	2718	1005	2416	874	2114	744	1812	613	1510	482	1208	351	906	220	906	220	906	220

Heating

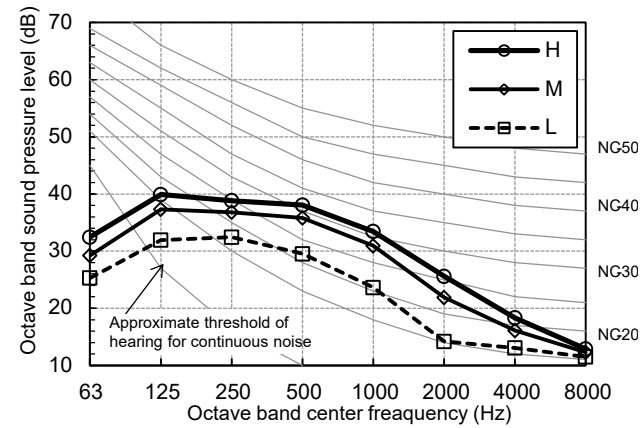
Outdoor Temperature DB (°C)	Parts Load (%)																			
	100		90		80		70		60		50		40		30		20		10	
	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P
-15	2736	542	2462	482	2189	422	1915	362	1642	301	1368	241	1094	181	821	121	774	111	774	111
-14	2794	583	2515	518	2235	453	1956	389	1676	324	1397	259	1118	195	838	130	791	119	791	119
-13	2852	623	2567	554	2282	485	1996	416	1711	347	1426	277	1141	208	856	139	807	127	807	127
-12	2910	664	2619	590	2328	517	2037	443	1746	369	1455	295	1164	222	873	148	824	136	824	136
-11	2968	705	2671	626	2375	548	2078	470	1781	392	1484	314	1187	235	890	157	840	144	840	144
-10	3026	745	2724	663	2421	580	2118	497	1816	414	1513	332	1211	249	908	166	856	152	856	152
-9	3084	786	2776	699	2467	611	2159	524	1851	437	1542	350	1234	262	925	175	873	160	873	160
-8	3142	827	2828	735	2514	643	2200	551	1885	460	1571	368	1257	276	943	184	889	169	889	169
-7	3200	867	2880	771	2560	675	2240	578	1920	482	1600	386	1280	290	960	193	906	177	906	177
-6	3272	915	2944	814	2617	712	2290	611	1963	509	1636	407	1309	306	981	204	926	187	926	187
-5	3343	964	3008	857	2674	750	2340	643	2006	536	1671	429	1337	322	1003	215	946	197	946	197
-4	3414	1012	3072	899	2731	787	2390	675	2048	563	1707	450	1366	338	1024	226	966	206	966	206
-3	3485	1060	3136	942	2788	825	2439	707	2091	589	1742	472	1394	354	1045	236	986	216	986	216
-2	3556	1108	3200	985	2845	862	2489	739	2134	616	1778	493	1422	370	1067	247	1006	226	1006	226
-1	3627	1156	3264	1028	2902	900	2539	771	2176	643	1814	515	1451	386	1088	258	1027	236	1027	236
0	3698	1205	3329	1071	2959	937	2589	803	2219	670	1849	536	1479	402	1110	269	1047	246	1047	246
1	3769	1253	3393	1114	3016	975	2639	836	2262	696	1885	557	1508	418	1131	279	1067	256	1067	256
2	3841	1301	3457	1156	3072	1012	2688	868	2304	723	1920	579	1536	434	1152	290	1087	265	1087	265
3	3903	1318	3513	1172	3123	1026	2732	879	2342	733	1952	587	1561	440	1171	294	1105	269	1105	269
4	3966	1336	3570	1188	3173	1039	2776	891	2380	743	1983	594	1587	446	1190	298	1123	273	1123	273
5	4029	1353	3626	1203	3223	1053	2821	903	2418	752	2015	602	1612	452	1209	302	1140	276	1140	276
6	5163	1447	4647	1287	4131	1126	3614	965	3098	805	2582	644	2065	483	1549	323	1461	295	1461	295
7	5300	1470	4770	1307	4240	1144	3710	980	3180	817	2650	654	2120	491	1590	328	1500	300	1500	300
8	5437	1493	4893	1327	4349	1161	3806	996	3262	830	2718	664	2175	498	1631	333	1539	305	1539	305
9	5574	1516	5016	1347	4459	1179	3901	1011	3344	843	2787	674	2229	506	1672	338	1577	309	1577	309
10	5710	1538	5139	1368	4568	1197	3997	1026	3426	855	2855	684	2284	514	1713	343	1616	314	1616	314
11	5847	1561	5262	1388	4678	1214	4093	1041	3508	868	2924	695	2339	521	1754	348	1655	319	1655	319
12	5984	1584	5385	1408	4787	1232	4189	1056	3590	881	2992	705	2394	529	1795	353	1694	323	1694	323
13	6121	1607	5509	1428	4897	1250	4284	1072	3672	893	3060	715	2448	537	1836	358	1732	328	1732	328
14	6257	1629	5632	1448	5006	1268	4380	1087	3754	906	3129	725	2503	544	1877	363	1771	333	1771	333
15	6394	1652	5755	1469	5115	1285	4476	1102	3837	918	3197	735	2558	552	1918	368	1810	337	1810	337
16	6531	1675	5878	1489	5225	1303	4572	1117	3919	931	3265	745	2612	559	1959	373	1848	342	1848	342
17	6668	1698	6001	1509	5334	1321	4667	1132	4001	944	3334	755	2667	567	2000	378	1887	346	1887	346
18	6805	1720	6124	1529	5444	1338	4763	1147	4083	956	3402	765	2722	575	2041	384	1926	351	1926	351
19	6941	1743	6247	1550	5553	1356	4859	1163	4165	969	3471	776	2777	582	2082	389	1965	356	1965	356
20	7078	1766	6370	1570	5662	1374	4955	1178	4247	982	3539	786	2831	590	2123	394	2003	360	2003	360
21	7215	1789	6493	1590	5772	1392	5050	1193	4329	994	3607	796	2886	597	2164	399	2042	365	2042	365
22	7352	1811	6616	1610	5881	1409	5146	1208	4411	1007	3676	806	2941	605	2205	404	2081	370	2081	370
23	7488	1834	6740	1631	5991	1427	5242	1223	4493	1020	3744	816	2995	613	2247	409	2119	374	2119	374
24	7625	1857	6863	1651	6100	1445	5338	1239	4575	1032	3813	826	3050	620	2288	414	2158	379	2158	379

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



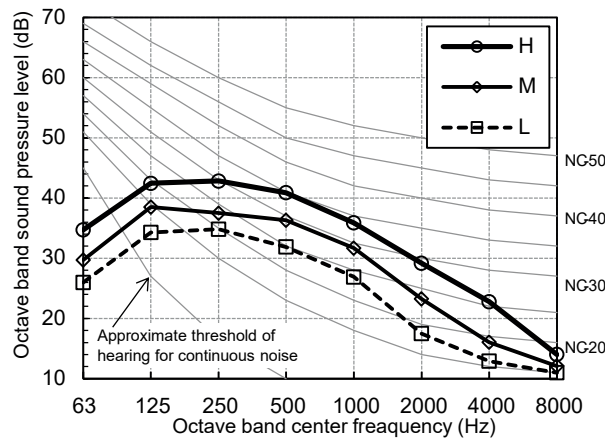
RAV-RM301MUT-E

Fan tap	H	M	L
Sound pressure level (dB(A))	38	36	30



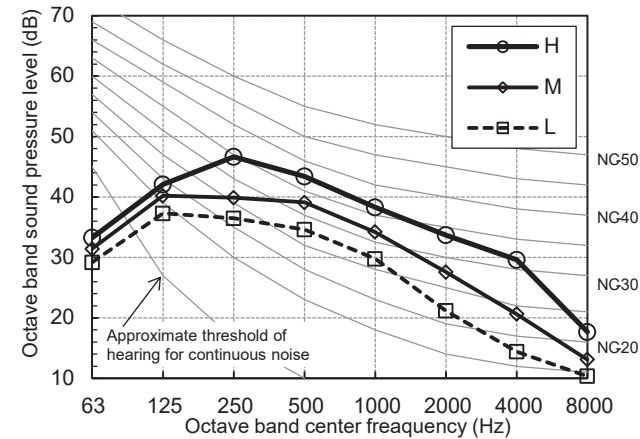
RAV-RM401MUT-E

Fan tap	H	M	L
Sound pressure level (dB(A))	41	36	32



RAV-RM561MUT-E

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



3. Outdoor Unit

3-1. Specifications

3-2. Dimension

3-3. Wiring Diagrams

3-4. Refrigerant Cycle Diagram

3-5. Sound Characteristic

3-6. Connecting Pipe Length and Lift Difference Between Indoor Units VS. Capacity Correction Value

3-1 Specification

<Digital Inverter>

Model name	Outdoor unit		RAV-GM	301ATP-A	401ATP-A
Power supply				1 phase 220-240V, 50Hz	
Compressor	Type		Rotary DC Invertor		
	Motor		(kW)	0.75	1.1
	Pole			6	6
Refrigerant charged			(kg)	0.63	0.90
Refrigerant control				Pulse motor valve	
Inter connecting pipe	Standard length		(m)	7.5	7.5
	Min. length		(m)	2.0	2.0
	Max. total length		(m)	20	20
	Additional refrigerant charge under long piping connector			20g/m (15m to 20m)	20g/m (15m to 20m)
	Height difference	Outdoor lower	(m)	10	10
		Outdoor higher	(m)	10	10
Outer dimension	Height		(mm)	550	550
	Width		(mm)	780	780
	Depth		(mm)	290	290
Appearance				Silky shade (Muncel 1Y8.5/0.5)	
Total weight			(kg)	29	34
Heat exchanger				Finned tube	
Fan unit	Fan		Propeller fan		
	Standard air flow high		(m³/min)	30	37
	Motor		(W)	43	43
Connecting pipe	Gas side		(mm)	9.5	12.7
	Liquid side		(mm)	6.4	6.4
Sound pressure level			Cooling/Heating (dB·A)	46/47	49/50
Sound power level			Cooling/Heating (dB·A)	61/62	64/65
Outside air temperature, Cooling			°C (Dry bulb temp.)	46 to -15	
Outside air temperature, Heating			°C (Wet bulb temp.)	15 to -15	

<Digital Inverter>

Model name	Outdoor unit		RAV-GM	561ATP-A
Power supply				1 phase 220-240V, 50Hz (Power exclusive to outdoor is required.)
Compressor	Type		Hermetic compressor	
	Motor		(kW)	1.1
	Pole		4	
Refrigerant charged			(kg)	0.9
Refrigerant control				Pulse motor valve
Inter connecting pipe	Standard length		(m)	7.5
	Min. length		(m)	5
	Max. total length		(m)	30
	Additional refrigerant charge under long piping connector		20g/m (21m to 30m)	
	Height difference	Outdoor lower	(m)	30
		Outdoor higher	(m)	30
Outer dimension	Height		(mm)	550
	Width		(mm)	780
	Depth		(mm)	290
Appearance				Silky shade (Muncel 1Y8.5/0.5)
Total weight			(kg)	40
Heat exchanger				Finned tube
Fan unit	Fan		Propeller fan	
	Standard air flow high		(m3/min)	40
	Motor		(W)	43
Connecting pipe	Gas side		(mm)	12.7
	Liquid side		(mm)	6.4
Sound pressure level			Cooling/Heating (dB·A)	46/48
Sound power level			Cooling/Heating (dB·A)	63/65
Outside air temperature, Cooling			°C (Dry bulb temp.)	46 to -15
Outside air temperature, Heating			°C (Wet bulb temp.)	15 to -15

<Digital Inverter>

Model name	Outdoor unit		RAV-GM	801ATP-A
Power supply				1 phase 220-240V, 50Hz (Power exclusive to outdoor is required)
Compressor	Type		Hermetic compressor	
	Motor		(kW)	1.5
	Pole		6	
Refrigerant charged			(kg)	1.7
Refrigerant control				Pulse motor valve
Inter connecting pipe	Standard length		(m)	7.5
	Min. length		(m)	3
	Max. total length		(m)	50
	Additional refrigerant charge under long piping connector		35g/m (21m to 50m)	
	Height difference	Outdoor lower	(m)	30
		Outdoor higher	(m)	30
Outer dimension	Height		(mm)	630
	Width		(mm)	800
	Depth		(mm)	300
Appearance				Silky shade (Muncel 1Y8.5/0.5)
Total weight			(kg)	47
Heat exchanger				Finned tube
Fan unit	Fan		Propeller fan	
	Standard air flow high		(m³/min.)	48.3
	Motor		(W)	71
Connecting pipe	Gas side		(mm)	15.88
	Liquid side		(mm)	9.52
Sound pressure level			Cooling/Heating (dB·A)	48/51
Sound power level			Cooling/Heating (dB·A)	65/68
Outside air temperature, Cooling			°C	46 to -15
Outside air temperature, Heating			°C	15 to -15

<Digital Inverter>

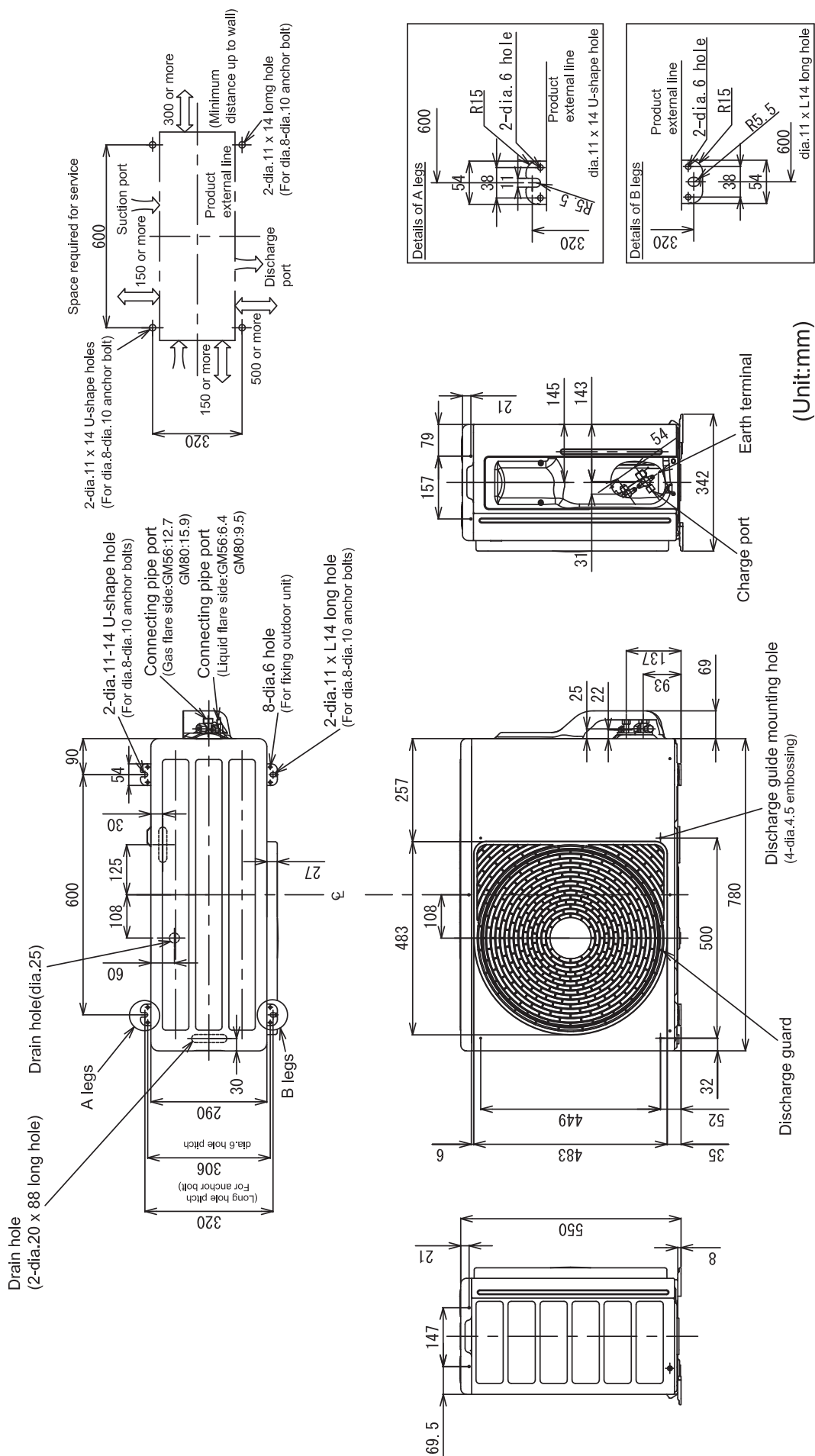
Model name	Outdoor unit		RAV-GM	1101ATP-A	1401ATP-A
Power supply				1 phase 220-240V, 50Hz 1 phase 220V, 60Hz (Power exclusive to outdoor is required.)	
Compressor	Type		Hermetic compressor		
	Motor (kW)		3.0	3.75	
	Pole		4	4	
Refrigerant charged (kg)			2.1	2.2	
Refrigerant control			Pulse motor valve		
Inter connecting pipe	Standard length (m)		7.5	7.5	
	Min. length (m)		5	5	
	Max. total length (m)		50	50	
	Additional refrigerant charge under long piping connector		35g/m (31m to 50m)	35g/m (31m to 50m)	
	Height difference	Outdoor lower (m)	30	30	
		Outdoor higher (m)	30	30	
Outer dimension	Height (mm)		890	890	
	Width (mm)		900	900	
	Depth (mm)		320	320	
Appearance			Silky shade (Muncel 1Y8.5/0.5)		
Total weight (kg)			64	68	
Heat exchanger			Finned tube		
Fan unit	Fan		Propeller fan		
	Standard air flow high (m3/min)		68	70	
	Motor (W)		100	100	
Connecting pipe	Gas side (mm)		15.9	15.9	
	Liquid side (mm)		9.5	9.5	
Sound pressure level Cooling/Heating (dB·A)			53/55	54/57	
Sound power level Cooling/Heating (dB·A)			70/72	71/74	
Outside air temperature, Cooling °C (Dry bulb temp.)			46 to -15		
Outside air temperature, Heating °C (Wet bulb temp.)			15 to -15		

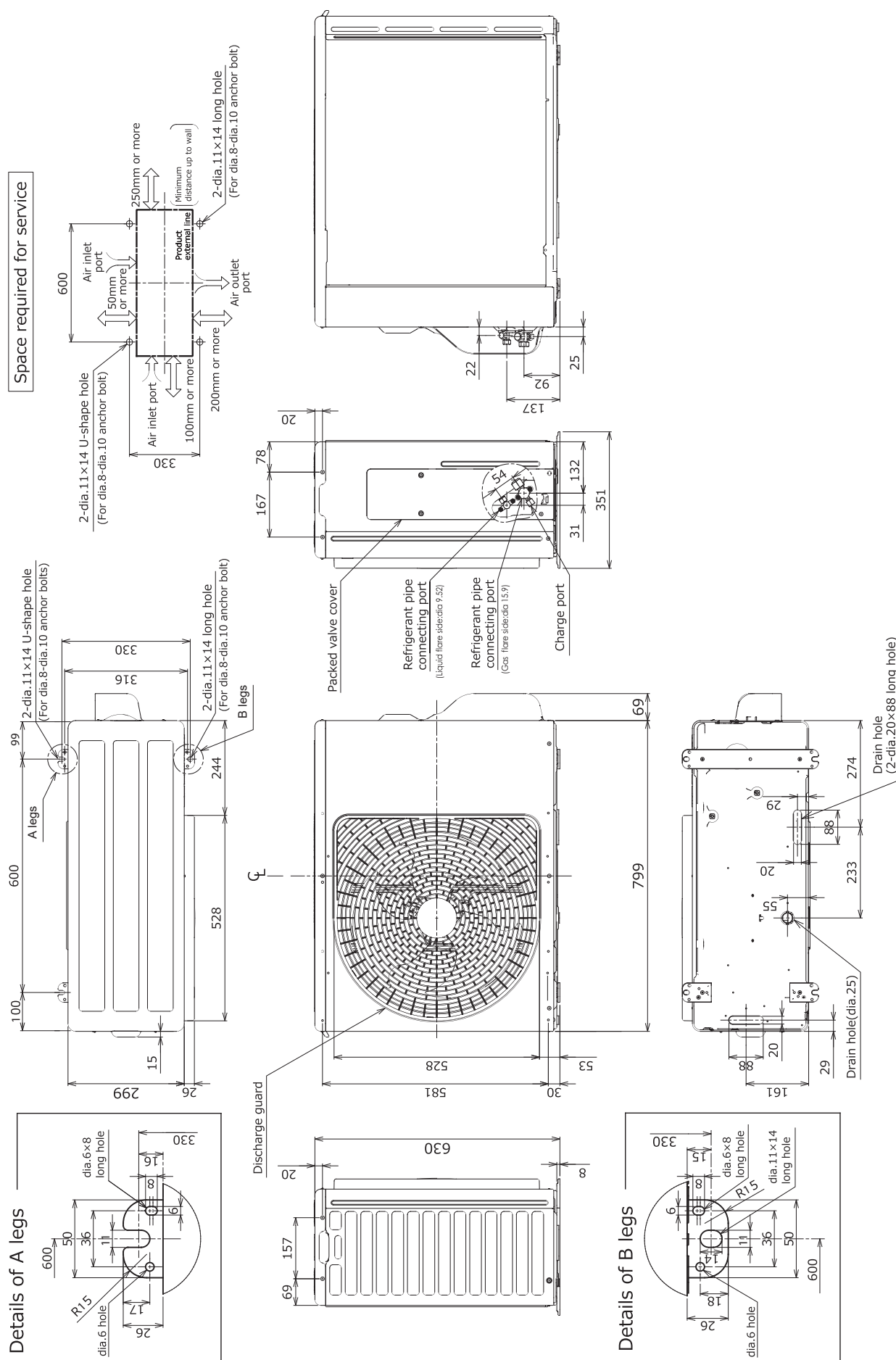
<Digital Inverter>

Model name	Outdoor unit		RAV-GM1601ATP-A	
Power supply			1 phase 220-240V, 50Hz (Power exclusive to outdoor is required.)	
Compressor	Type		Hermetic compressor	
	Motor (kW)		3.75	
	Pole		4	
Refrigerant charged (kg)			2.5	
Refrigerant control			Pulse motor valve	
Inter connecting pipe	Standard length (m)		7.5	
	Min. length (m)		5	
	Max. total length (m)		50	
	Additional refrigerant charge under long piping connector		35g/m (31m to 50m)	
	Height difference	Outdoor lower (m)	30	
		Outdoor higher (m)	30	
Outer dimension	Height (mm)		1340	
	Width (mm)		900	
	Depth (mm)		320	
Appearance			Silky shade (Muncel 1Y8.5/0.5)	
Total weight (kg)			97	
Heat exchanger			Finned tube	
Fan unit	Fan		Propeller fan	
	Standard air flow high (m³/min.)		113	
	Motor (W)		100+100	
Connecting pipe	Gas side (mm)		15.9	
	Liquid side (mm)		9.5	
Sound pressure level Cooling/Heating (dB·A)			56/57	
Sound power level Cooling/Heating (dB·A)			73/75	
Outside air temperature, Cooling °C (Dry bulb temp.)			-15 to 46	
Outside air temperature, Heating °C (Wet bulb temp.)			-15 to 24	

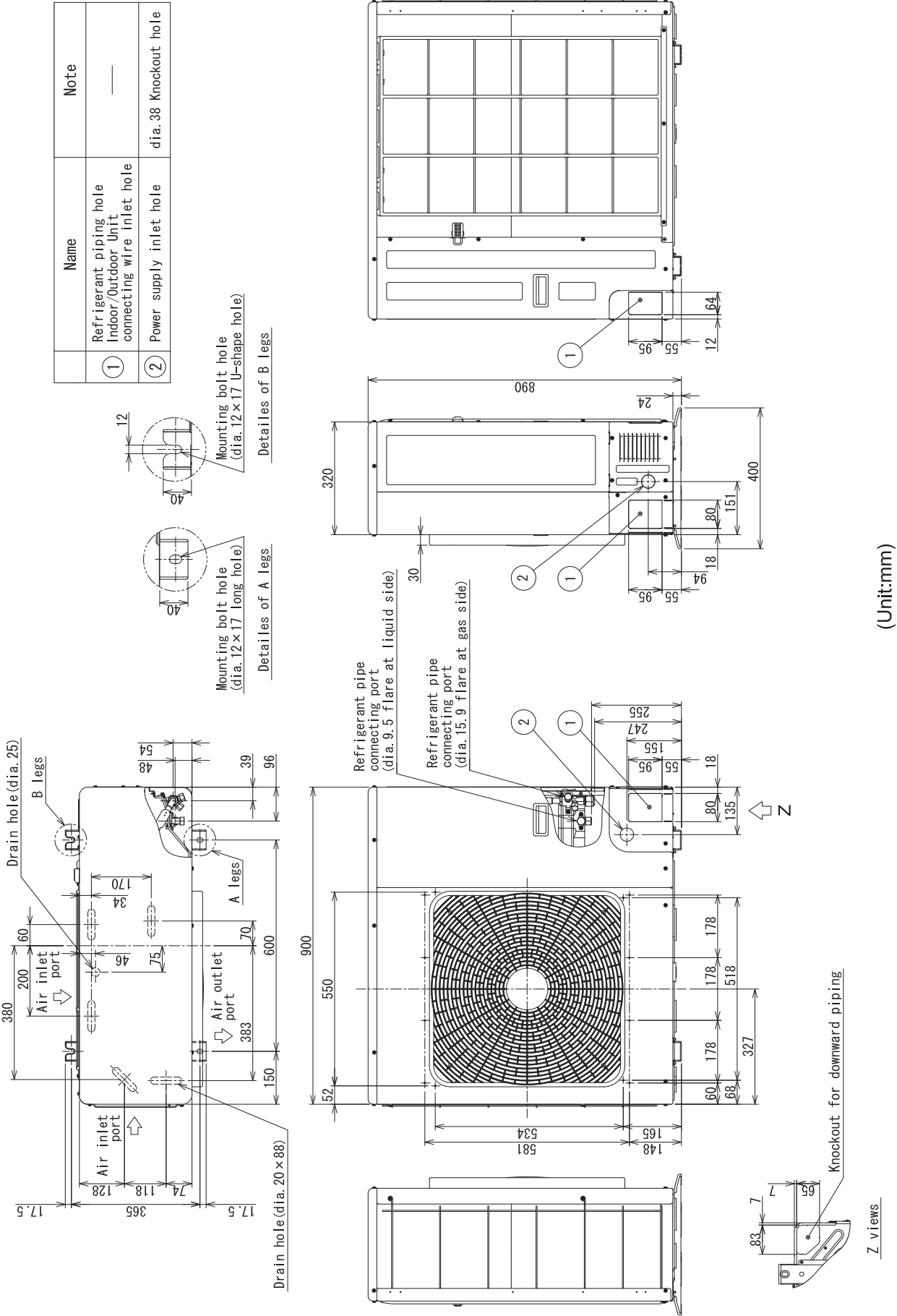
<Digital Inverter>

Model name	Outdoor unit	RAV-GM1601AT8P-A	
Power supply		3 phase 380-415V 50Hz (Power exclusive to outdoor is required.)	
Compressor	Type		Hermetic compressor
	Motor	(kW)	3.75
	Pole		4
Refrigerant charged		(kg)	2.5
Refrigerant control		Pulse motor valve	
Inter connecting pipe	Standard length		(m) 7.5
	Max. total length		(m) 50
	Additional refrigerant charge under long piping connector		35g/m (Over 30m)
	Height difference	Outdoor lower	(m) 30
		Outdoor higher	(m) 30
Outer dimension	Height		(mm) 1340
	Width		(mm) 900
	Depth		(mm) 320
Appearance		Silky shade (Muncel 1Y8.5/0.5)	
Total weight		(kg)	96
Heat exchanger		Finned tube	
Fan unit	Fan		Propeller fan
	Standard air flow high		(m ³ /min) 113
	Motor		(W) 100+100
Connecting pipe	Gas side		(mm) 15.9
	Liquid side		(mm) 9.52
Sound pressure level		Cooling/Heating (dB·A)	56/57
Sound power level		Cooling/Heating (dB·A)	73/74
Outside air temperature, Cooling		°C (Dry bulb temp.)	-15 to 46
Outside air temperature, Heating		°C (Wet bulb temp.)	-15 to 24

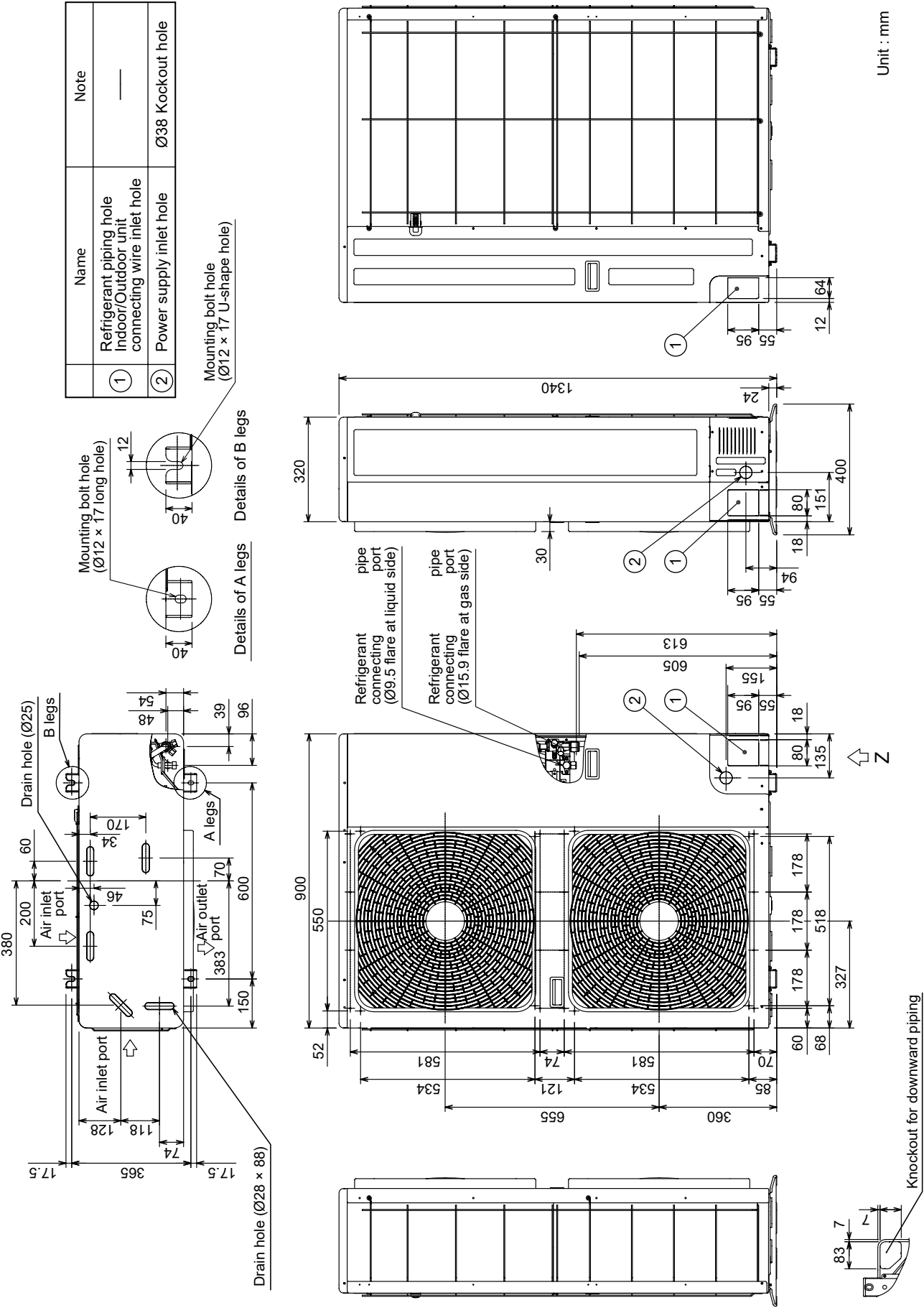
RAV-GM561ATP-A

RAV-GM801ATP-A

RAV-GM*1ATP-A (*110 / 140)

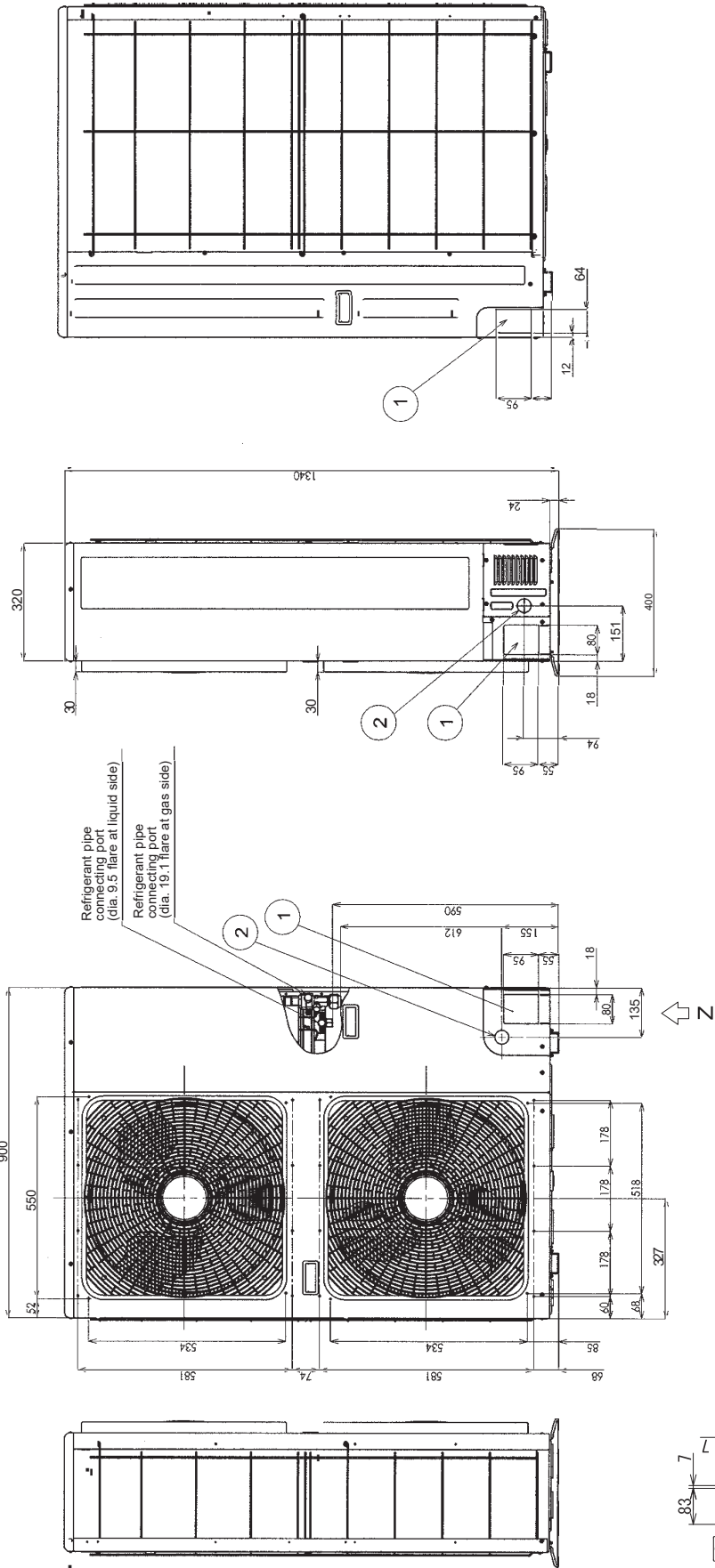
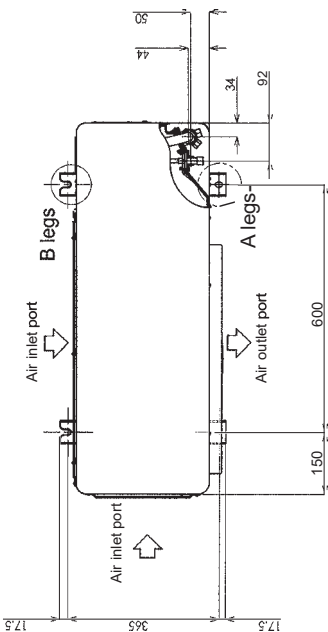
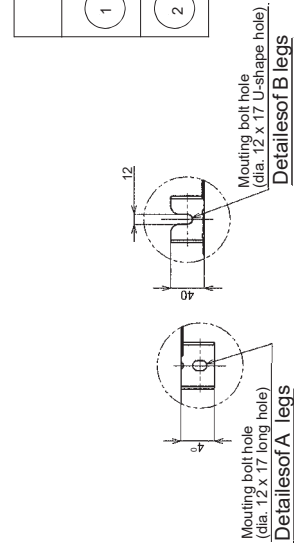


RAV-GM1601ATP-A

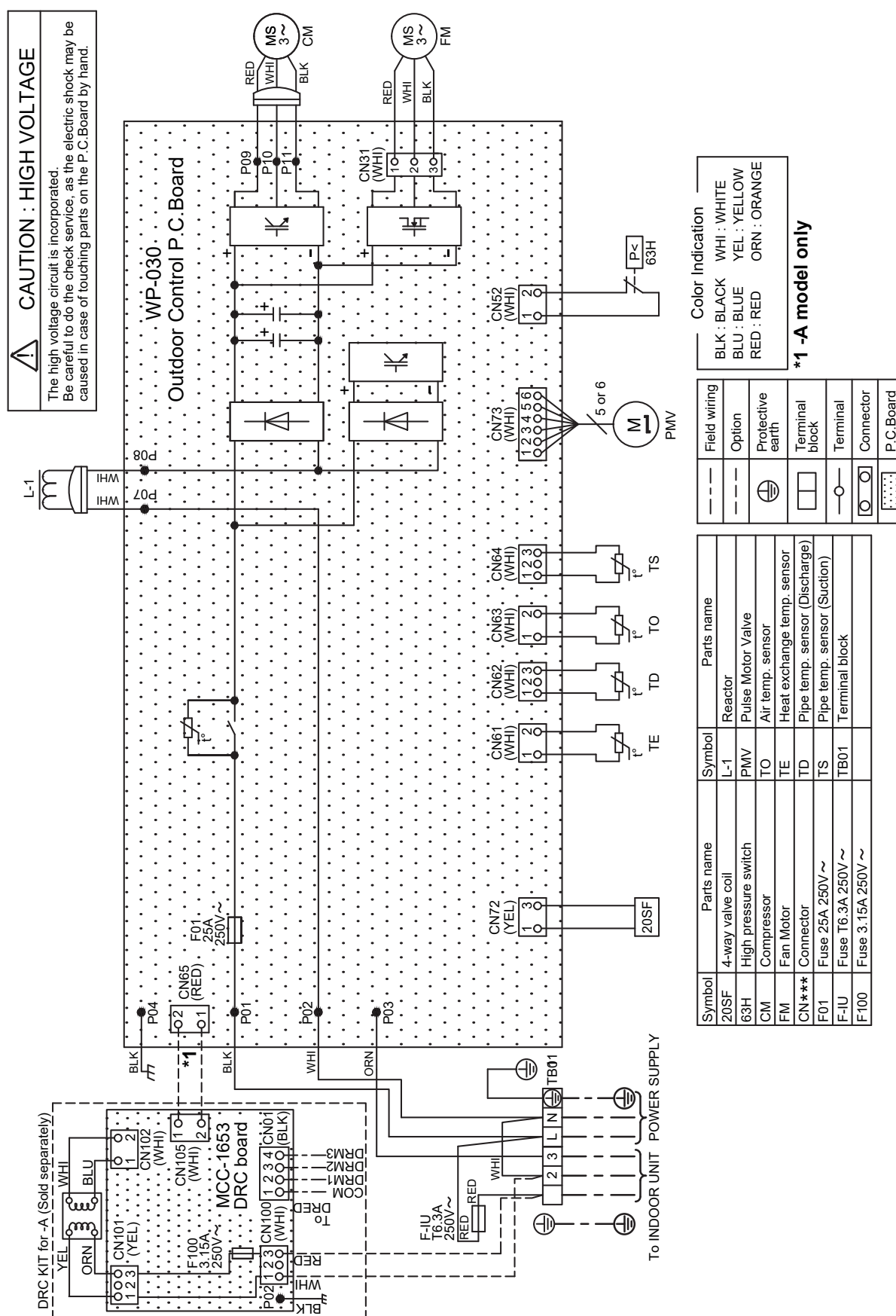


RAV-GM1601AT8P-A

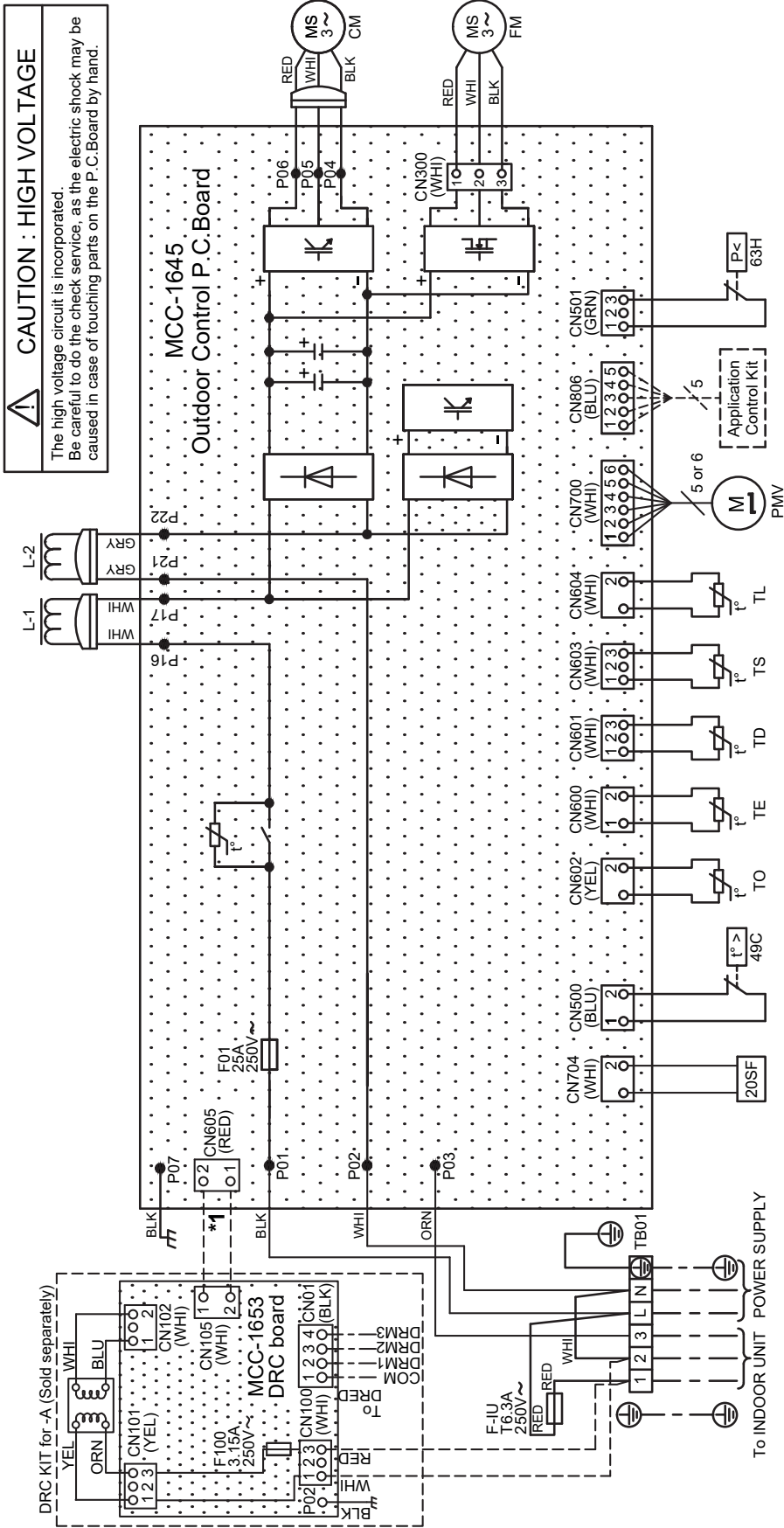
	Name	Note
1	Refrigerant piping hole Indoor/Outdoor Unit connecting wire inlet hole	---
2	Power supply/inlet hole	dia.38 Knockout hole



3-3. Wiring Diagram

RAV-GM*1ATP-A (*30 / 40)

RAV-GM561ATP-A



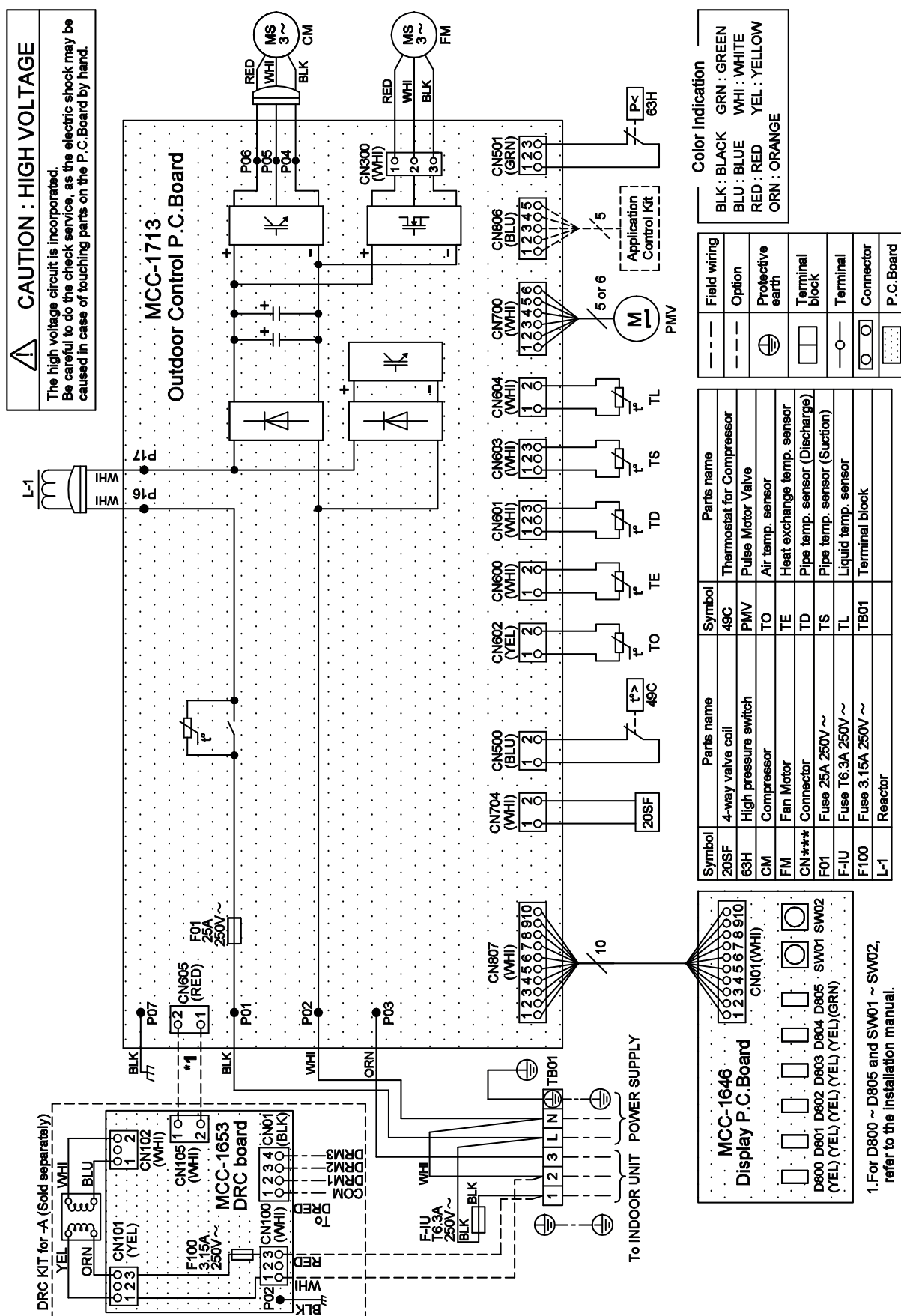
Symbol	Parts name	Symbol	Parts name
20SF	4-way valve coil	PMV	Pulse Motor Valve
63H	High pressure switch	TB01	Terminal block
CM	Compressor	TO	Air temp. sensor
FM	Fan Motor	TE	Heat exchange temp. sensor
CN***	Connector	TD	Pipe temp. sensor (Discharge)
F01	Fuse 25A 250V~	TS	Pipe temp. sensor (Suction)
F-IU	Fuse T6.3A 250V~	TL	Liquid temp. sensor
F100	Fuse 3.15A 250V~	L-1,L-2	Reactor
49C	Thermostat for Compressor		

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

Color Indication	BLK : BLACK	GRN : GREEN
BLU : BLUE	WHI : WHITE	
RED : RED	YEL : YELLOW	
GRY : GRAY	ORN : ORANGE	

***1 -A model only**

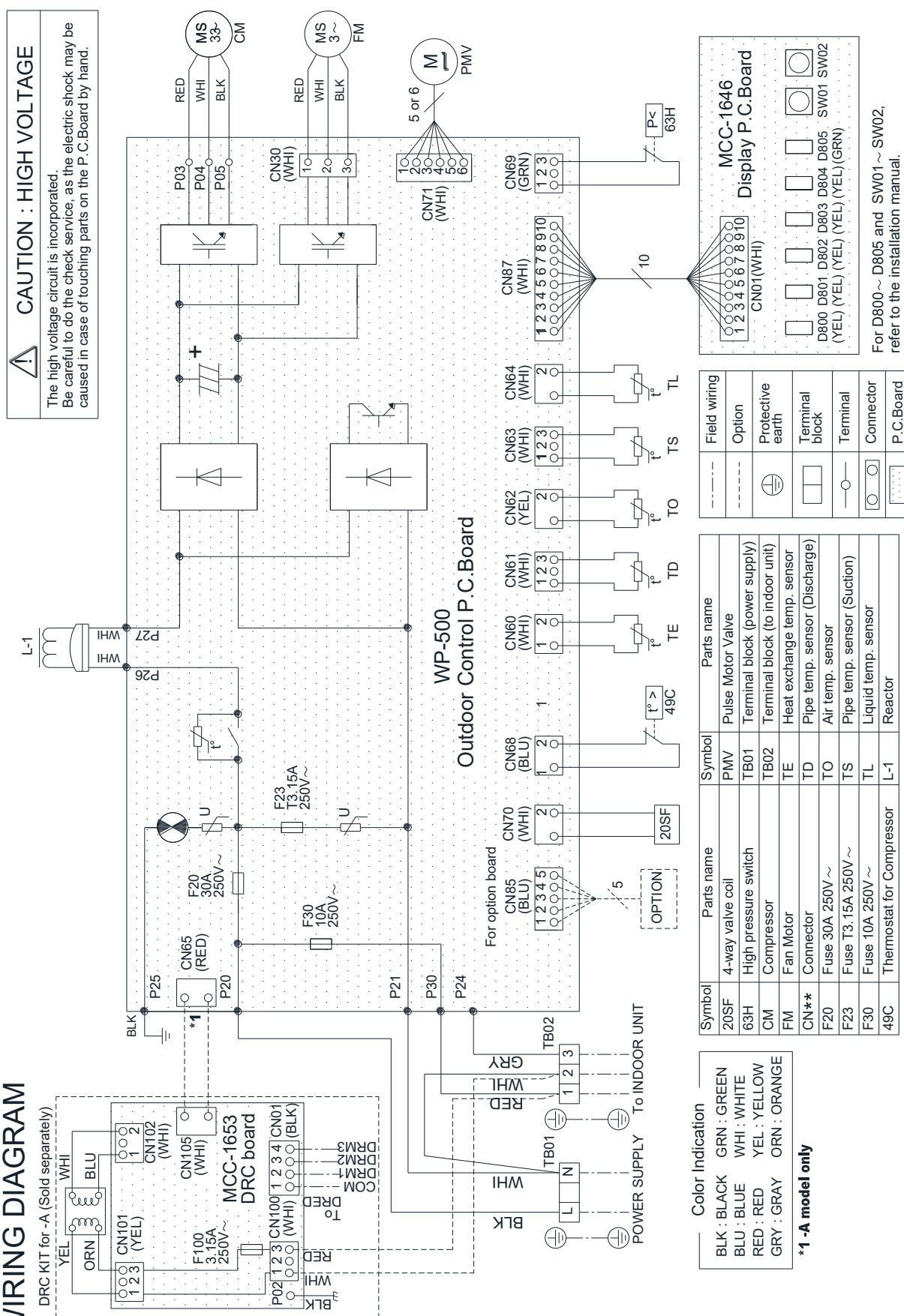
RAV-GM801ATP-A



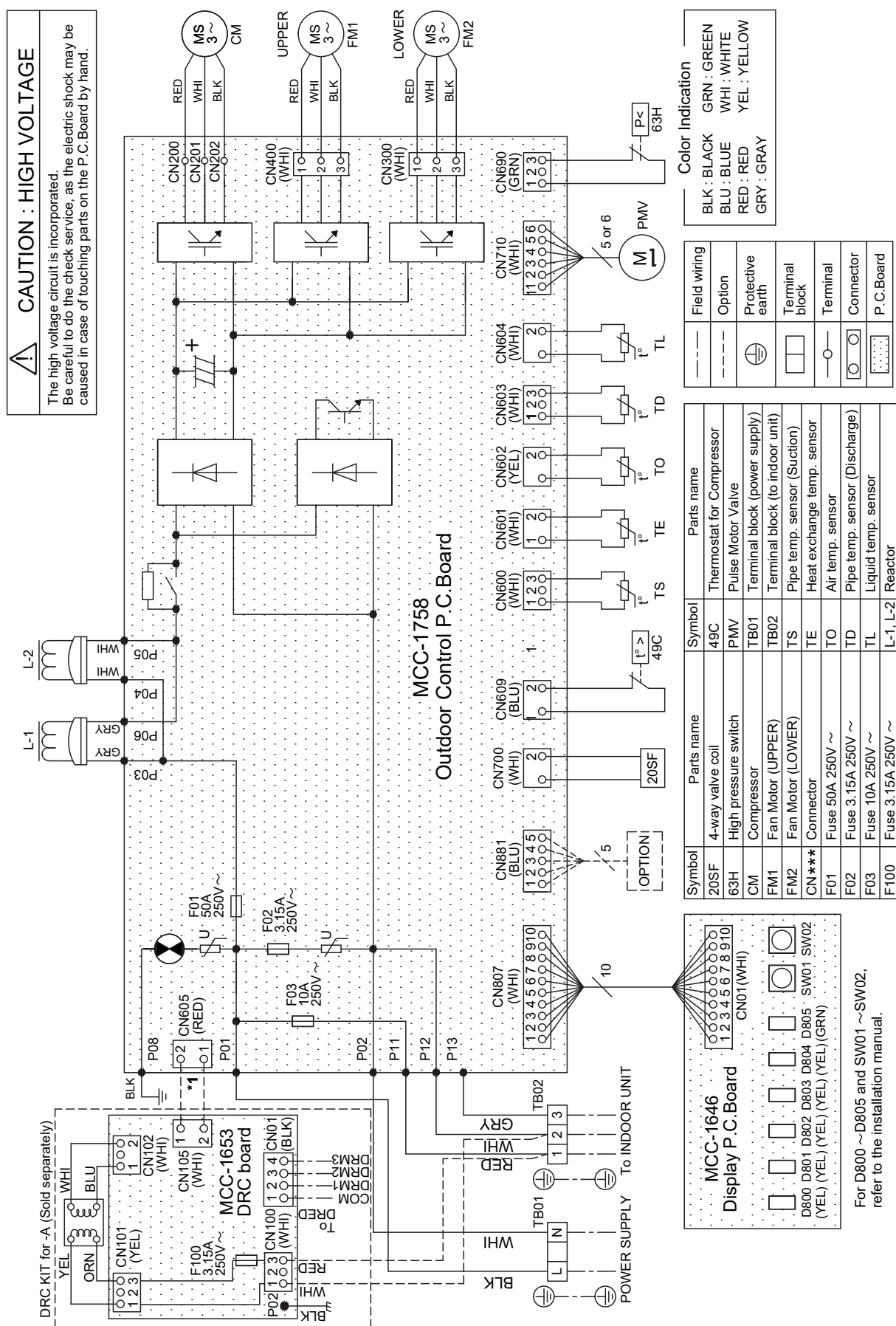
RAV-GM*1ATP-A (*110/ 140)

WIRING DIAGRAM

DRC KIT for -A (Sold separately)



RAV-GM1601ATP-A



RAV-GM1601AT8P-A

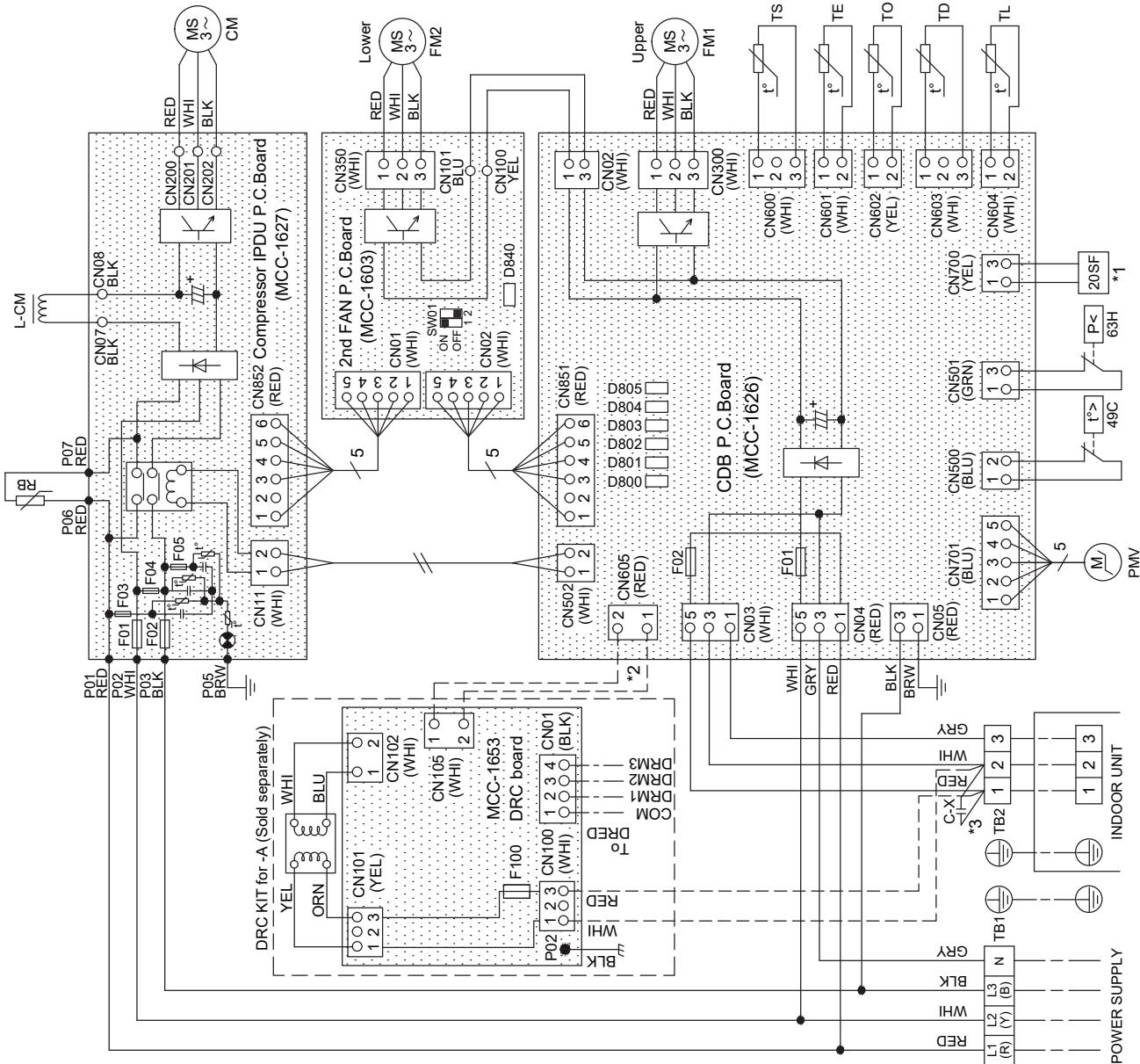
P.C.Board	
Symbol	Parts name
MCC-1626	CDB P.C.Board
MCC-1627	Compressor IPDU P.C.Board
MCC-1603	2nd FAN P.C.Board
MCC-1653	DRC board

Symbol	Parts name
63H	High pressure switch
20SF	AC 4-Way valve coil
49C	Compressor case thermostat
CM	Compressor
CN***	Connector
Fuse (MCC-1626)	
F01	T6.3A 250V ~
F02	T10A 250V ~
(MCC-1627)	
F01, F02	Fuse (IPDU Board)
F03, F04, F05	31.5A 500V ~
T6.3A 250V ~	
FM1, FM2	Fan motor
L-CM	Reader for compressor
PMV	Pulse motor valve
RB	Rush current protect resistor
TS	Pipe temp. sensor (Suction)
TE	Heat exchange temp. sensor
TO	Air temp. sensor
TD	Pipe temp. sensor (Discharge)
TL	Liquid temp. sensor
TB1	Terminal block (power supply)
TB2	Terminal block (to indoor unit)
C-X	X-capacitor
(MCC-1603)	
SW01	Dip switch
(MCC-1653)	
F100	3.15A 250V ~

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

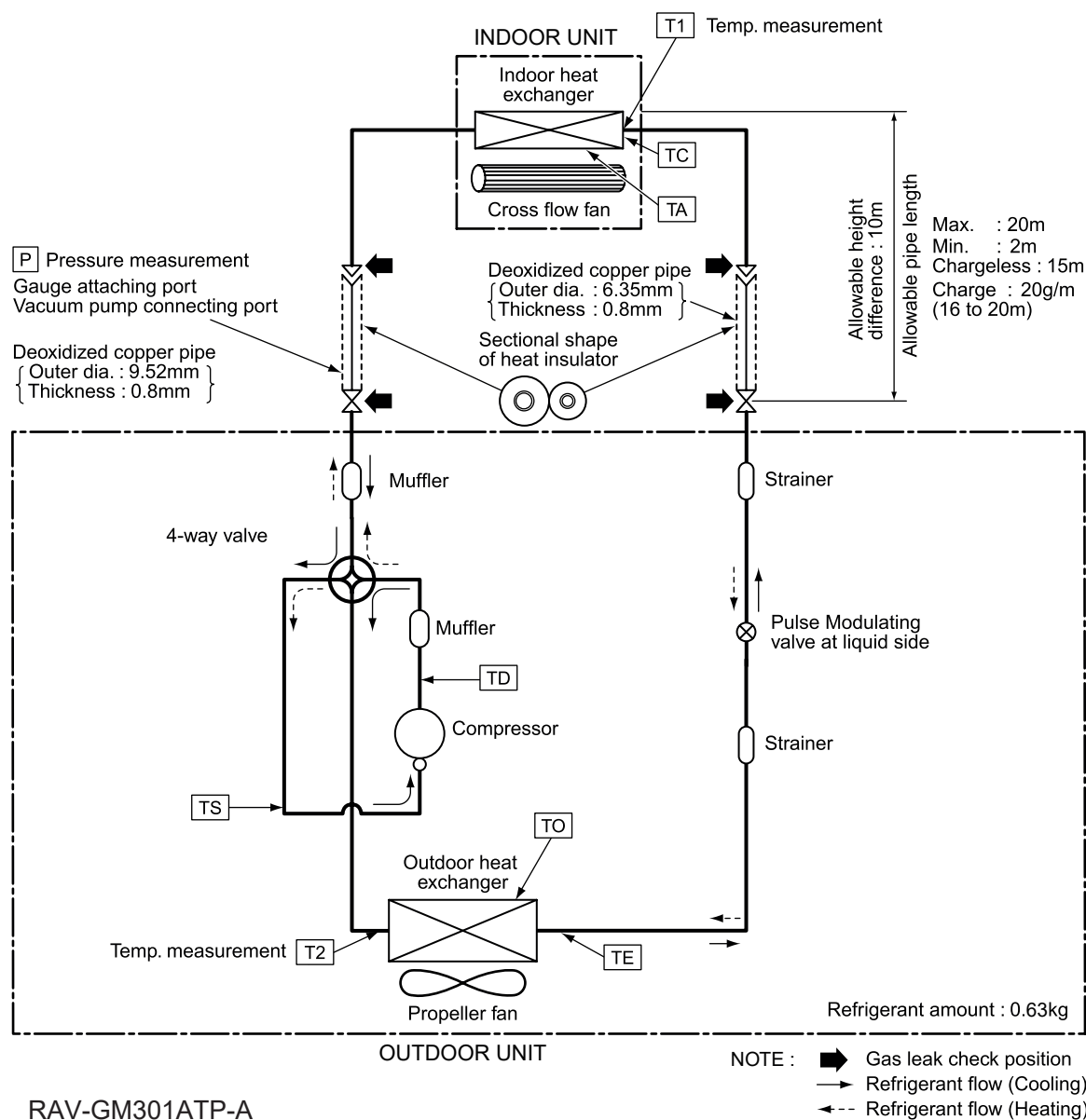
Parts Layout	
FRONT	BACK

*1 Heat pump model only
*2 -A model only
*3 For all model except SPI-IN model



3-4. Refrigerant cycle diagram

RAV-GM301ATP-A



RAV-GM301ATP-A

<Cooling>

Temperature condition(°C)		Standard pressure P (MPa)	Heat exchanger pipe temp.			Indoor fan mode	Outdoor fan mode	Compressor revolution (rps)
Indoor	Outdoor		TC (°C)	TS (°C)	TE (°C)			
27/19	35/-	0.9 to 1.1	13 to 15	13 to 15	37 to 41	High	High	46

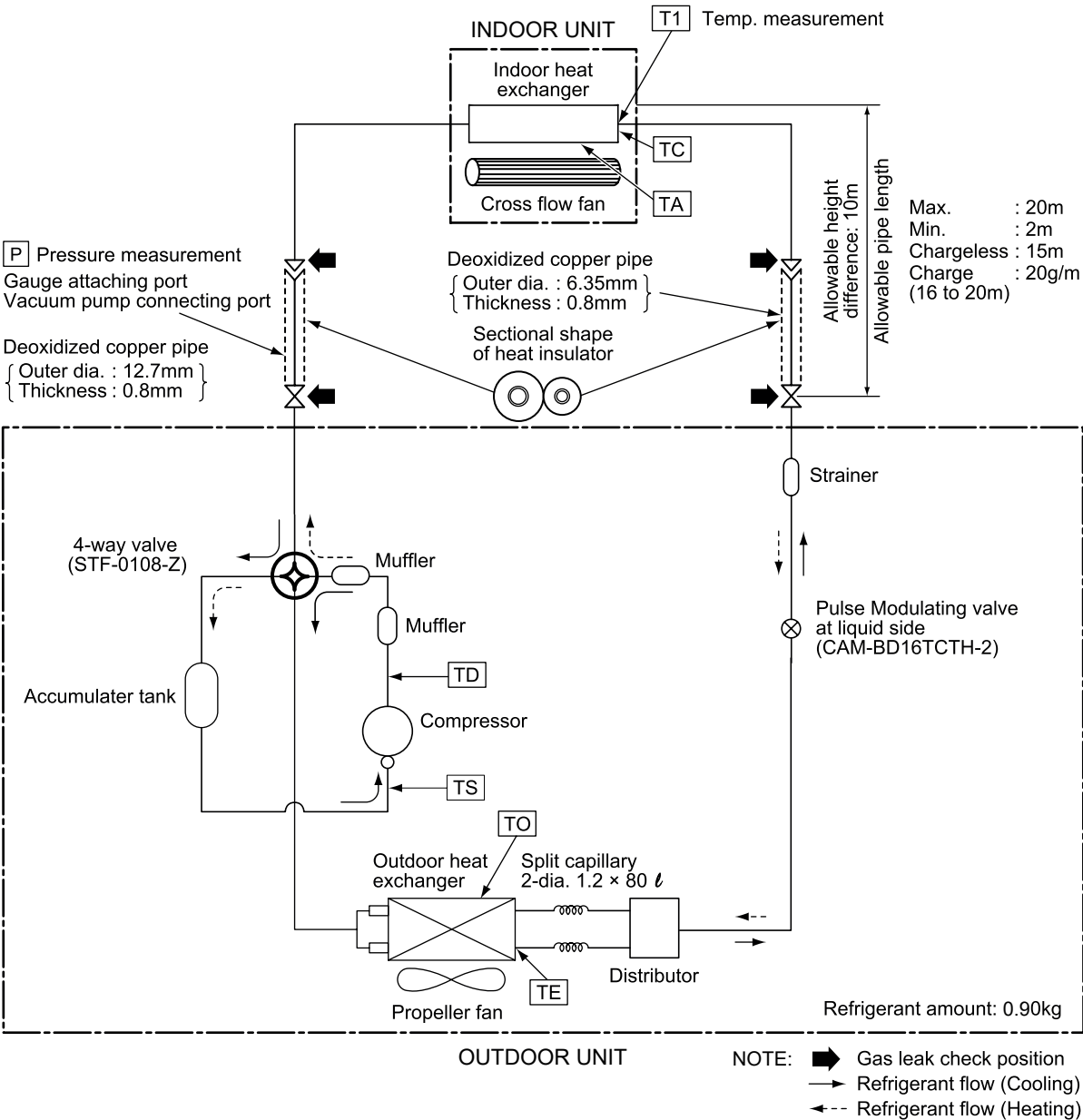
<Heating>

Temperature condition(°C)		Standard pressure P (MPa)	Heat exchanger pipe temp.			Indoor fan mode	Outdoor fan mode	Compressor revolution (rps)
Indoor	Outdoor		TC (°C)	TS (°C)	TE (°C)			
20/-	7/6	2.5 to 2.7	35 to 37	5 to 6	3 to 5	High	High	74

NOTE :

- The maximum pipe length of this air conditioner is 20 m. When the pipe length exceeds 15m, the additional charging of refrigerant, 20g per 1m for the part of pipe exceeded 15m is required. (Max. 100g)

RAV-GM401ATP-A



RAV-GM401ATP-A

<Cooling>

Tempeature condition(°C)		Standard pressure P (MPa)	Heat exchanger pipe temp.			Indoor fan mode	Outdoor fan mode	Compressor revolution (rps)
Indoor	Outdoor		TC (°C)	TS (°C)	TE (°C)			
27/19	35/-	0.9 to 1.1	11 to 13	11 to 13	39 to 42	High	High	51

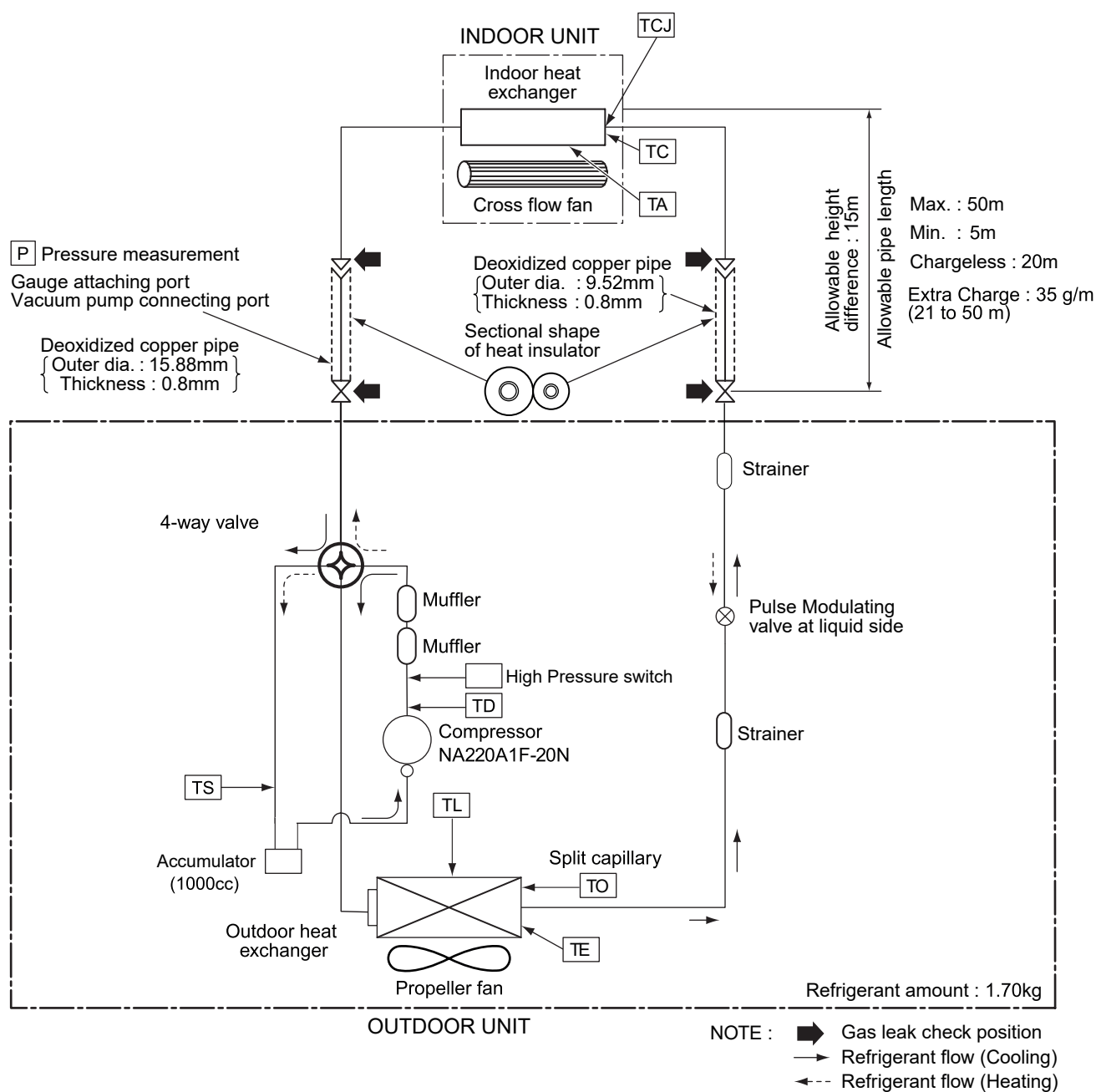
<Heating>

Tempeature condition(°C)		Standard pressure P (MPa)	Heat exchanger pipe temp.			Indoor fan mode	Outdoor fan mode	Compressor revolution (rps)
Indoor	Outdoor		TC (°C)	TS (°C)	TE (°C)			
20/-	7/6	2.5 to 2.6	35 to 42	4 to 6	3 to 5	High	High	53

NOTE :

- The maximum pipe length of this air conditioner is 20m. When the pipe length exceeds 15m, the additional charging of refrigerant, 20g per 1m for the part of pipe exceeded 15m is required. (Max. 100g)

RAV-GM801ATP-A

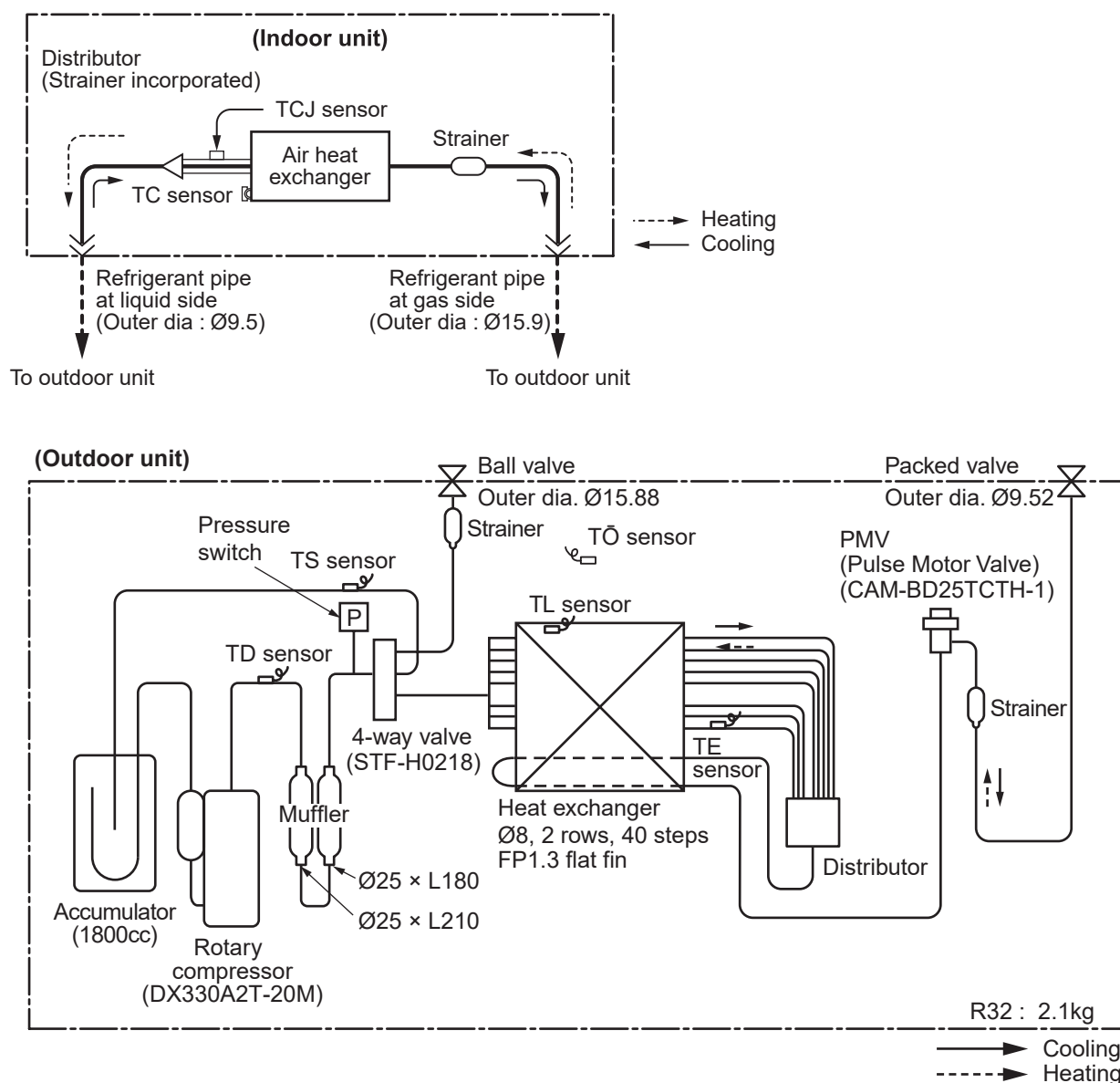


		(Mpa)		(kg/cm ² G)		Pipe surface temperature				Comp. Hz	Temp.	
		Pd	Ps	Pd	Ps	TD	TS	TC	TE		In	Out
Cooling	Std.	3.20	0.89	32.6	9.0	92	11	9	37	59	27/19	35/-
	Overload	3.50	1.26	35.7	12.8	78	19	18	55	47	32/23	46/-
	Low temp.	2.49	0.78	25.4	8.0	52	5	3	3	33	18/15	-15/-
Heating	Std.	3.18	0.69	32.4	7.0	85	2	47	3	67	20/-	7/6
	Overload	3.32	1.14	33.9	11.6	82	15	53	16	55	27/-	24/18
	Low temp.	1.35	0.282	13.8	2.9	35	-20	18	-19	78	0/-	-15/-

NOTE :

- 4 poles are provided to this compressor.
The compressor frequency (Hz) measured with a clamp meter is 2 times of revolutions (rps) of the compressor.
- The maximum pipe length of this air conditioner is 20 m. When the pipe length exceeds 15m, the additional charging of refrigerant, 20g per 1m for the part of pipe exceeded 15m is required. (Max. 100g)

RAV-GM1101ATP-A

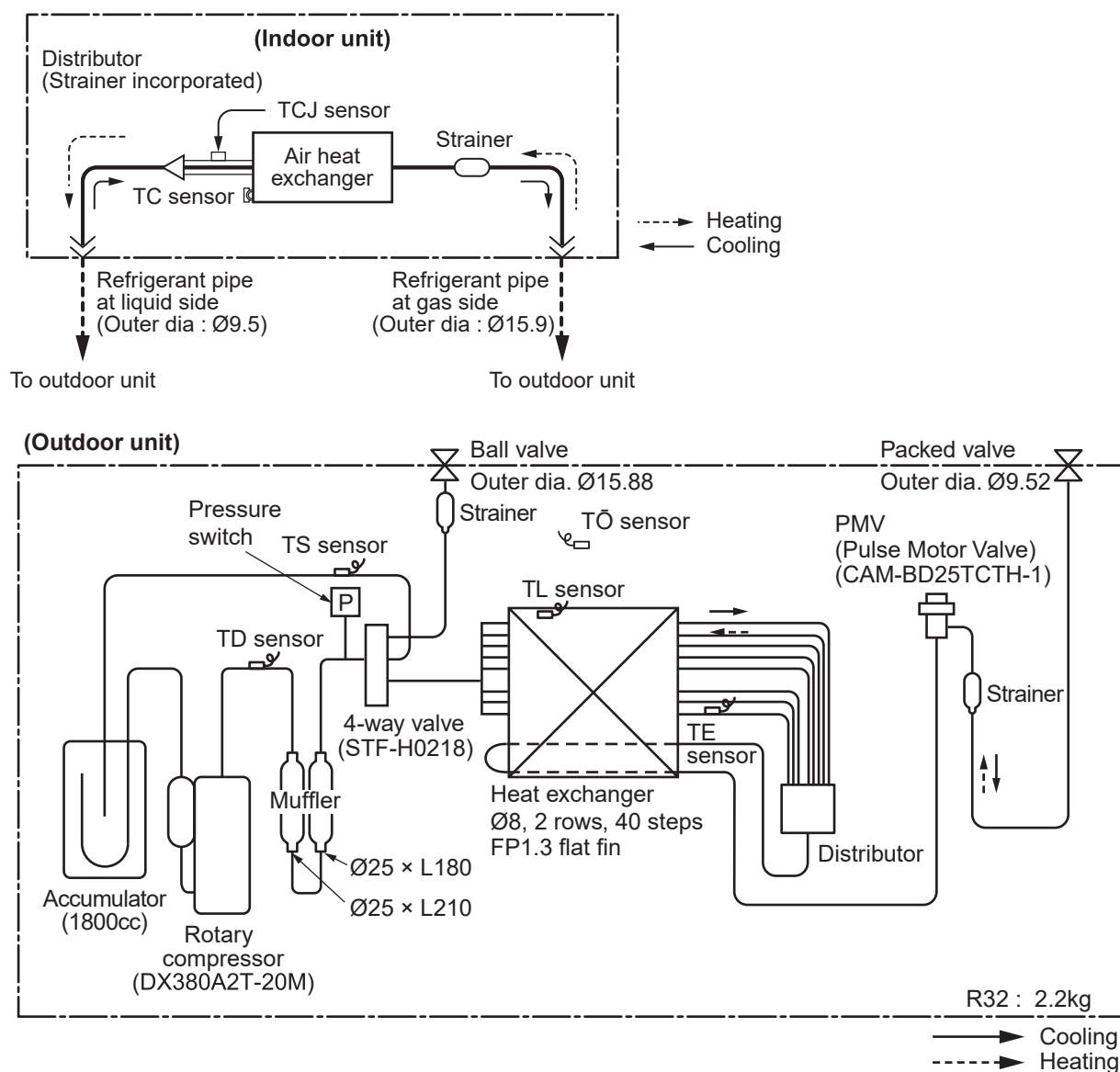


		Pressure				Pipe surface temperature (°C)				* Comp. Hz	Fan	Temp	
		(MPa)		(kg/cm²G)								In	Out
		Pd	Ps	Pd	Ps	(TD)	(TS)	(TC)	(TE)				
Cooling	Standard	3.10	0.94	31.6	9.6	90	12	11	39	47	HIGH	27/19	35/-
	Overload	3.60	1.13	36.7	11.5	78	16	18	54	50	HIGH	32/24	46/-
	Low load	2.03	0.82	20.7	8.4	55	11	8	4	30	LOW	18/15.5	-15/-
Heating	Standard	2.57	0.65	26.2	6.6	90	1	41	1	58	HIGH	20/-	7/6
	Overload	3.13	1.12	31.9	11.4	76	19	52	16	30	LOW	30/-	24/18
	Low load	2.15	0.24	21.9	2.4	82	-19	34	-17	79	HIGH	15/-	-15/-

NOTE :

- 4 poles are provided to this compressor.
The compressor frequency (Hz) measured with a clamp meter is 2 times of revolutions (rps) of the compressor.
- The maximum pipe length of this air conditioner is 20 m. When the pipe length exceeds 15m, the additional charging of refrigerant, 20g per 1m for the part of pipe exceeded 15m is required. (Max. 100g)

RAV-GM1401ATP-A

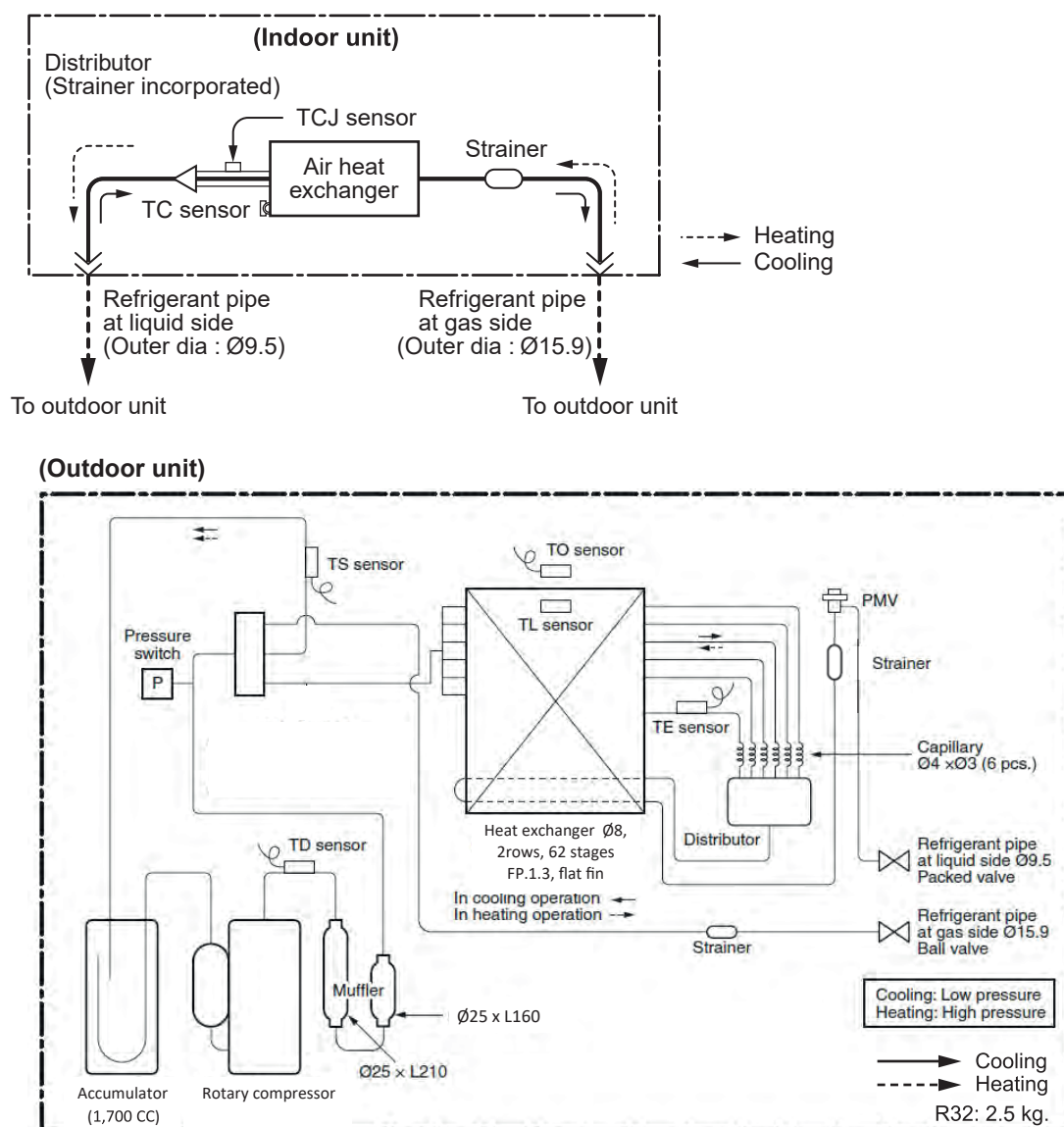


		Pressure				Pipe surface temperature (°C)				* Comp. Hz	Fan	Temp	
		(MPa)		(kg/cm²G)								In	Out
		Pd	Ps	Pd	Ps	(TD)	(TS)	(TC)	(TE)				
Cooling	Standard	3.27	0.91	33.4	9.3	95	10	11	40	56	HIGH	27/19	35/-
	Overload	3.72	1.19	37.9	12.1	93	18	19	56	45	HIGH	32/23	46/-
	Low load	3.33	0.80	34	8.2	85	6	6	21	33	LOW	18/15	-15/-
Heating	Standard	2.67	0.63	27.2	6.5	71	2	42	2	65	HIGH	20/-	7/6
	Overload	3.48	0.96	35.5	9.8	90	11	13	48	30	LOW	27/-	24/18
	Low load	1.4	0.24	14.3	2.5	58	-21	19	-19	80	HIGH	0/-	-15/-

NOTE :

- 4 poles are provided to this compressor.
The compressor frequency (Hz) measured with a clamp meter is 2 times of revolutions (rps) of the compressor.
- The maximum pipe length of this air conditioner is 20 m. When the pipe length exceeds 15m, the additional charging of refrigerant, 20g per 1m for the part of pipe exceeded 15m is required. (Max. 100g)

RAV-GM1601AT(8)P-A



		(Mpa)		(kg/cm ² G)		Pipe surface temperature				Comp. Hz	Temp.	
		Pd	Ps	Pd	Ps	TD	TS	TC	TE		In	Out
Cooling	Std.	2.83	0.86	28.9	8.8	92	8	9	42	67	27/19	35/-
	Overload	3.36	1.18	34.3	12.0	86	17	17	54	44	32/23	46/-
	Low temp.	1.56	0.50	15.9	5.1	25	1	5	-10	21	18/15	-15/-
Heating	Std.	3.01	0.71	30.7	7.2	91	2	48	3	67	20/-	7/6
	Overload	3.33	1.11	34.0	11.3	87	15	52	16	41	27/-	24/18
	Low temp.	1.85	0.33	18.9	3.4	88	-15	28	-13	88	0/-	-15/-

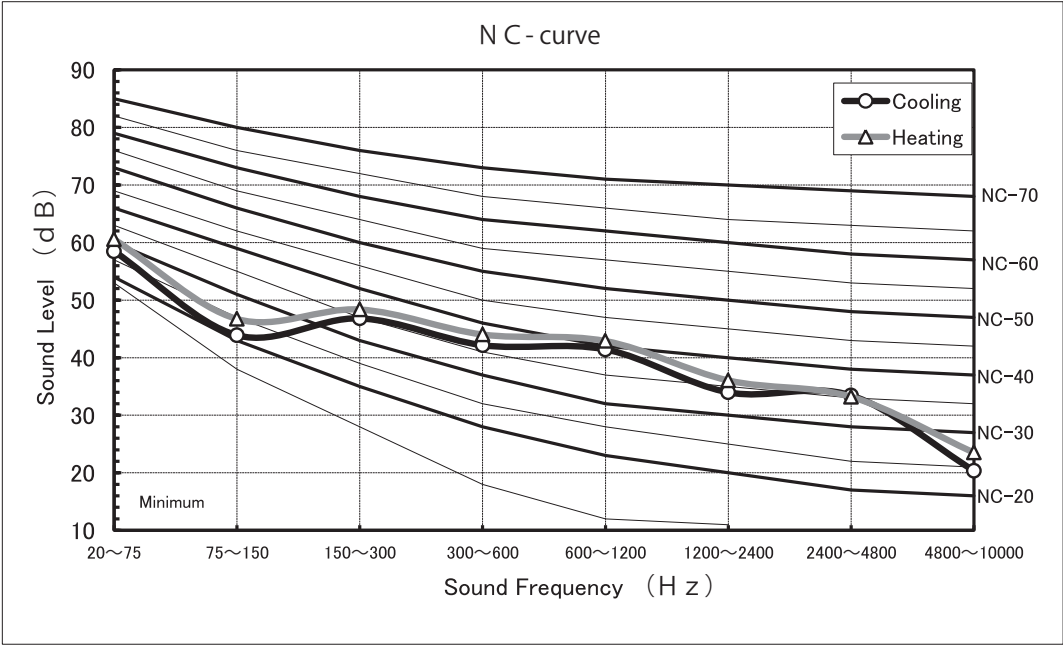
NOTE :

- 4 poles are provided to this compressor.
The compressor frequency (Hz) measured with a clamp meter is 2 times of revolutions (rps) of the compressor.
- The maximum pipe length of this air conditioner is 20 m. When the pipe length exceeds 15m, the additional charging of refrigerant, 20g per 1m for the part of pipe exceeded 15m is required. (Max. 100g)

3-5. Sound characteristics (NC curve)

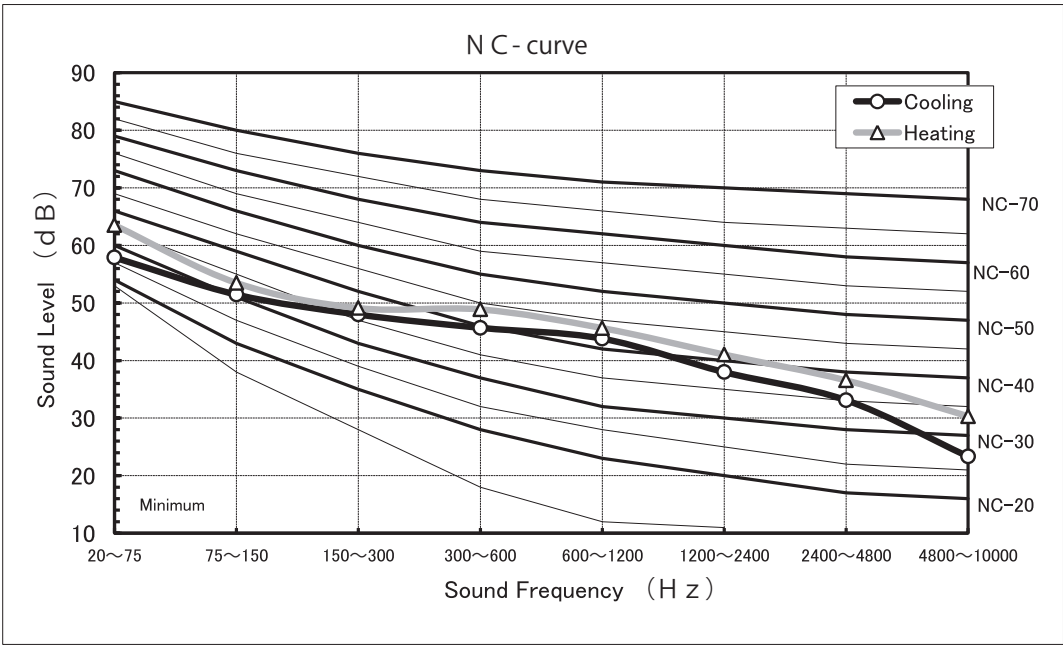
RAV-GM301ATP-A

Measured point	Specification (d B)	
	Cooling	Heating
Horizontal 1.0 m	46	47



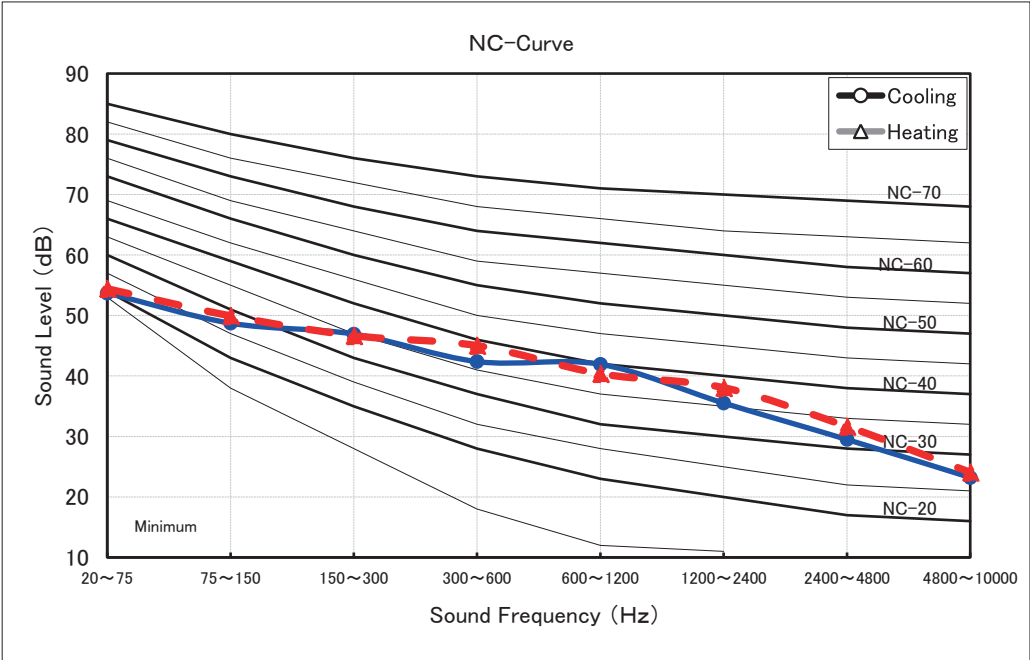
RAV-GM401ATP-A

Measured point	Specification (d B)	
	Cooling	Heating
Horizontal 1.0 m	49	50



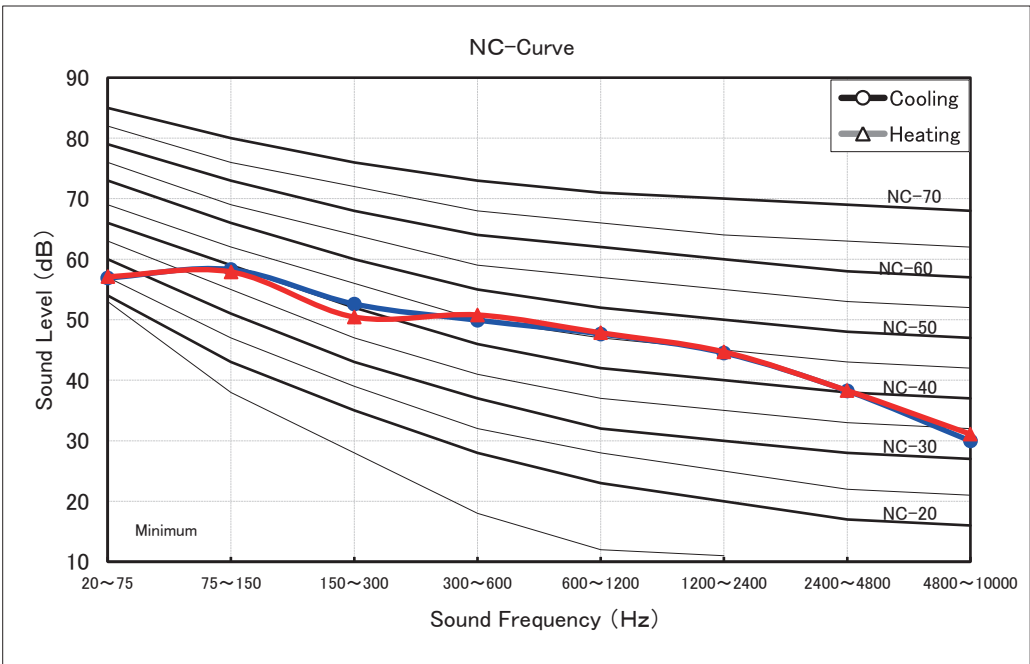
RAV-GM561ATP-A

Measured point	Specification (d B)	
	Cooling	Heating
Horizontal 1.0 m	45	48



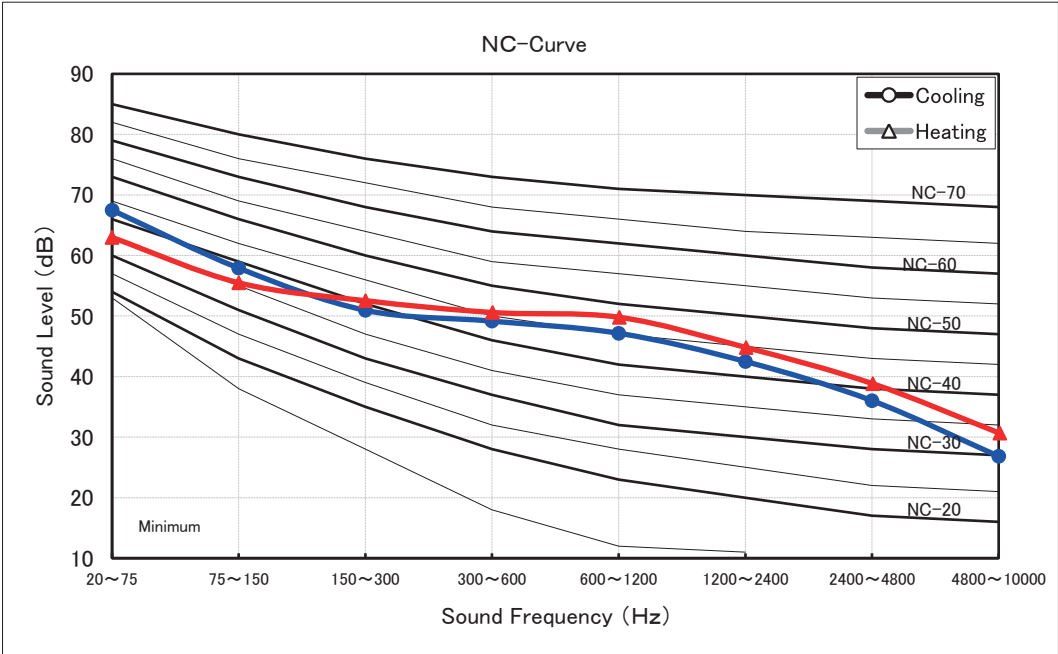
RAV-GM801ATP-A

Measured point	Specification (d B)	
	Cooling	Heating
Horizontal 1.0 m	48	51



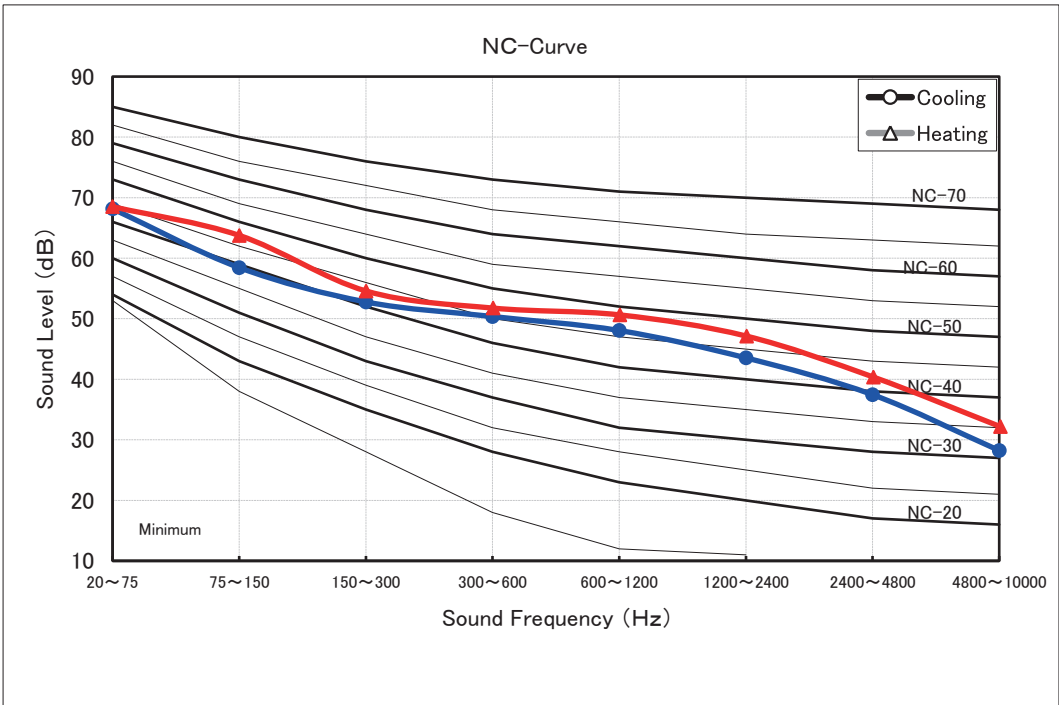
RAV-GM1101ATP-A

Measured point	Specification (d B)	
	Cooling	Heating
Horizontal 1.0 m	53	55



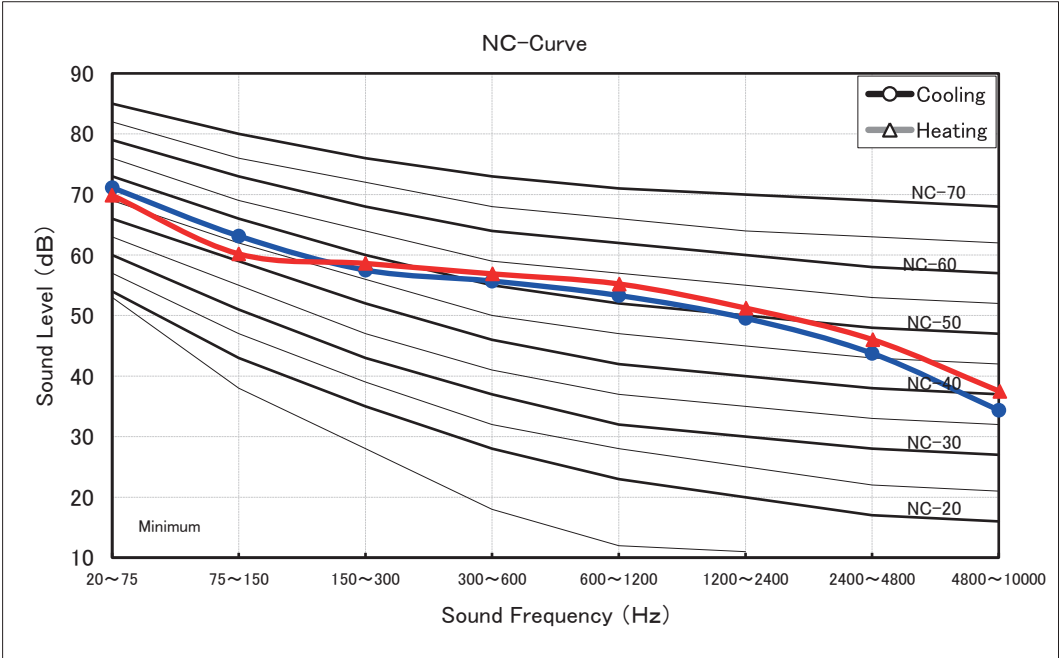
RAV-GM1401ATP-A

Measured point	Specification (d B)	
	Cooling	Heating
Horizontal 1.0 m	54	57



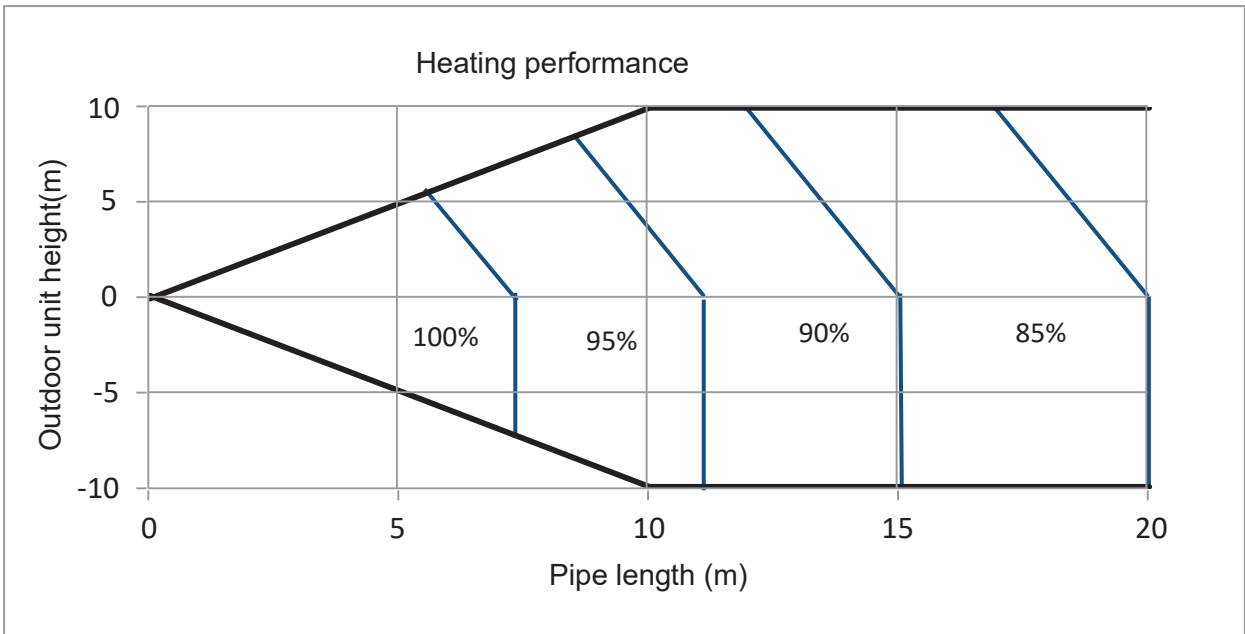
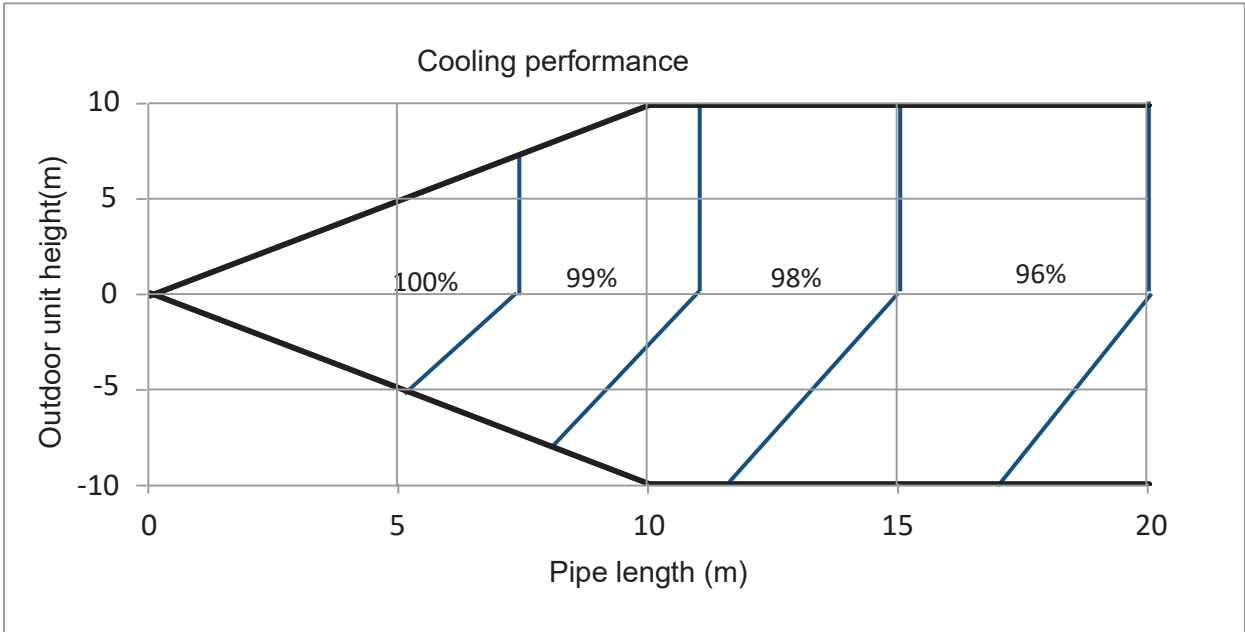
RAV-GP1601AT(8)P-A

Measured point	Specification (d B)	
	Cooling	Heating
Horizontal 1.0 m	56	57

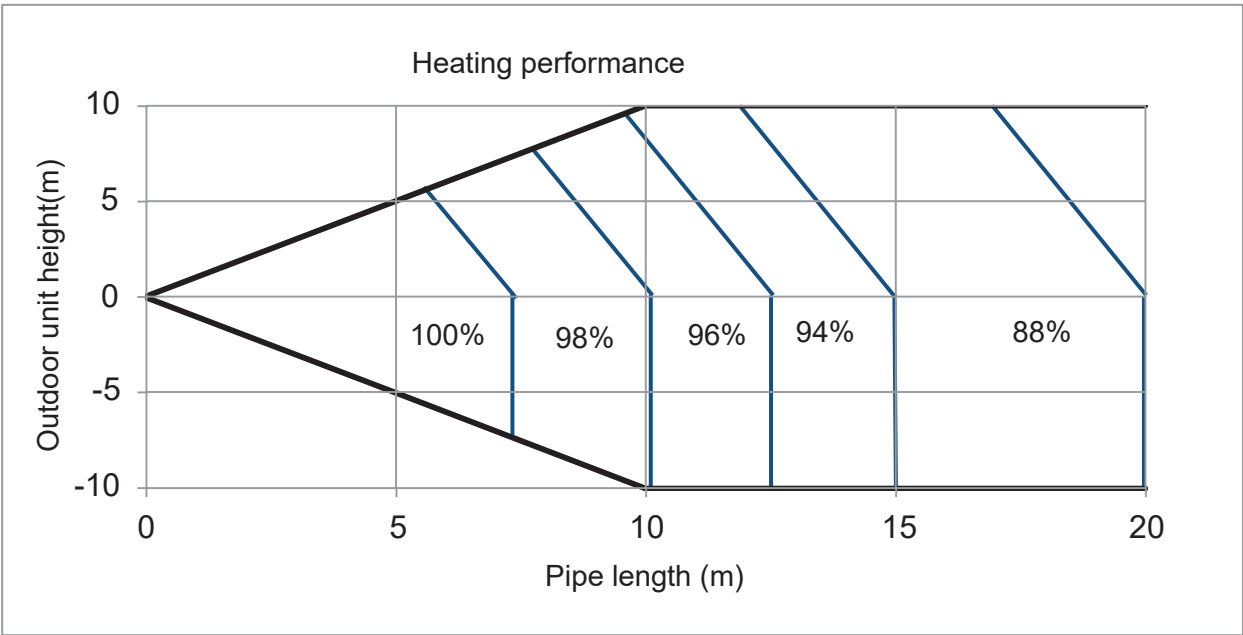
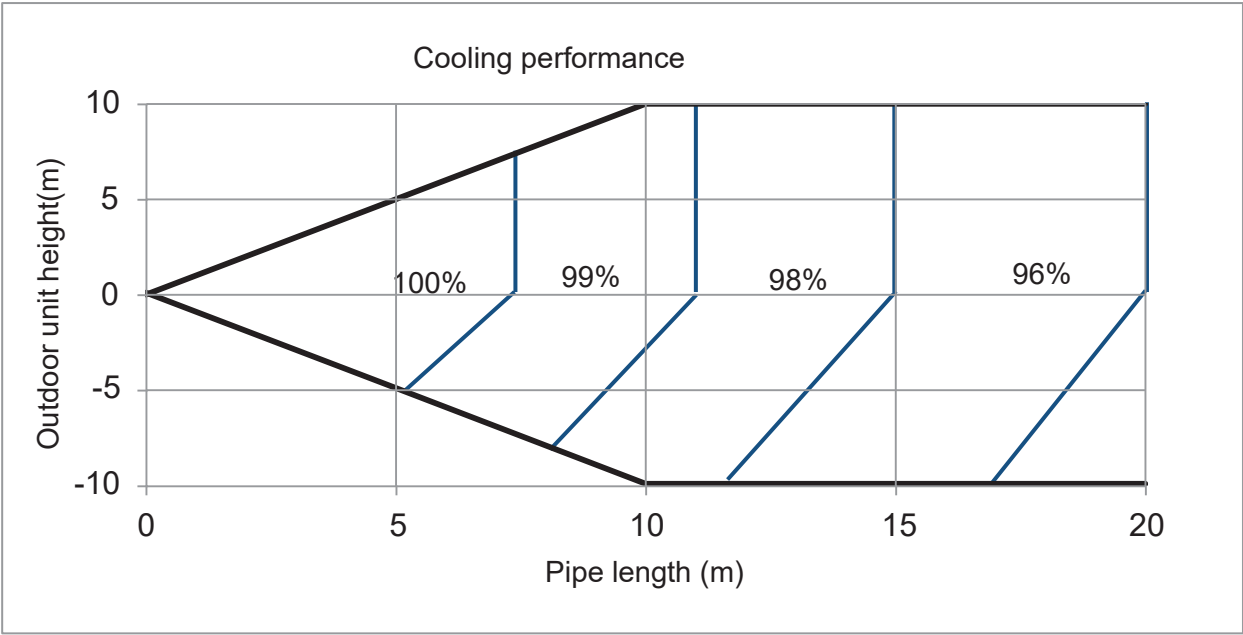


3-6. Connecting pipe length and lift difference between indoor units vs. capacity correction value

RAV-GM301ATP-A

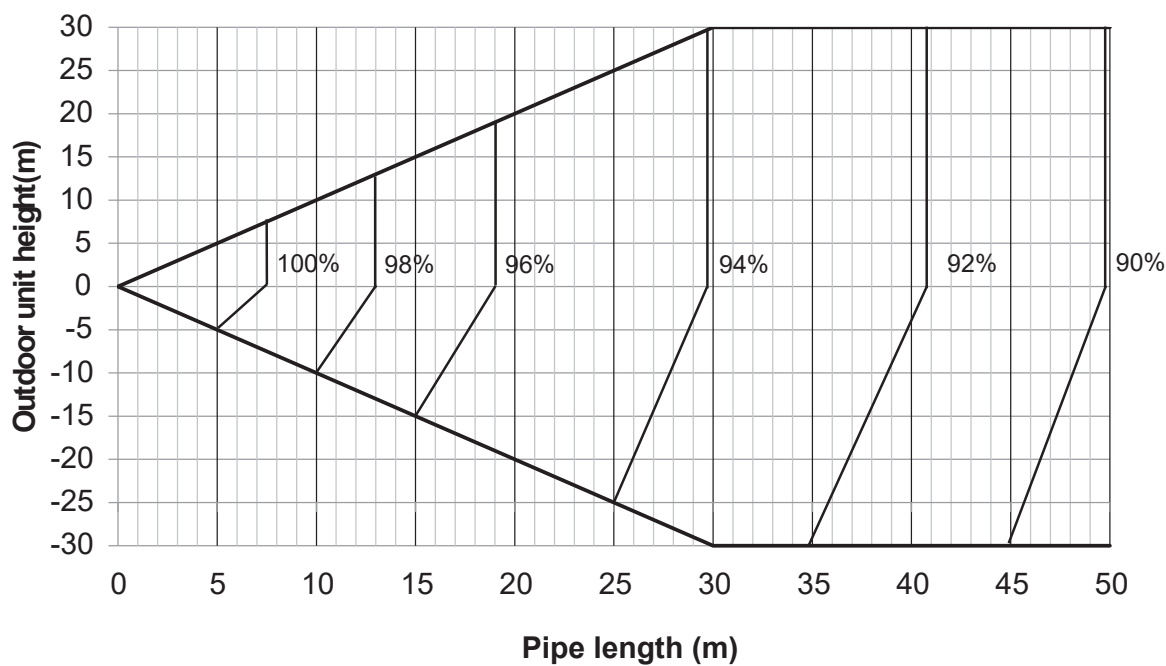


RAV-GM401ATP-A



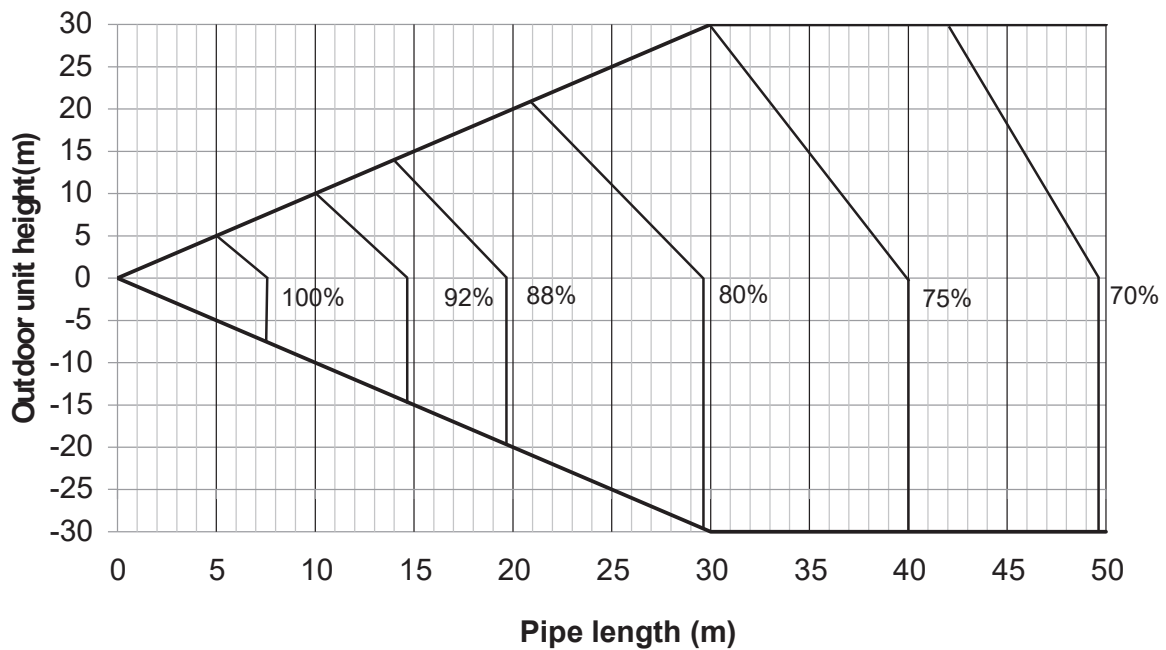
RAV-GM561ATP-A

Cooling capacity



*21m to 50m connecting pipe length, need to extra refrigerant charge 20 g/m

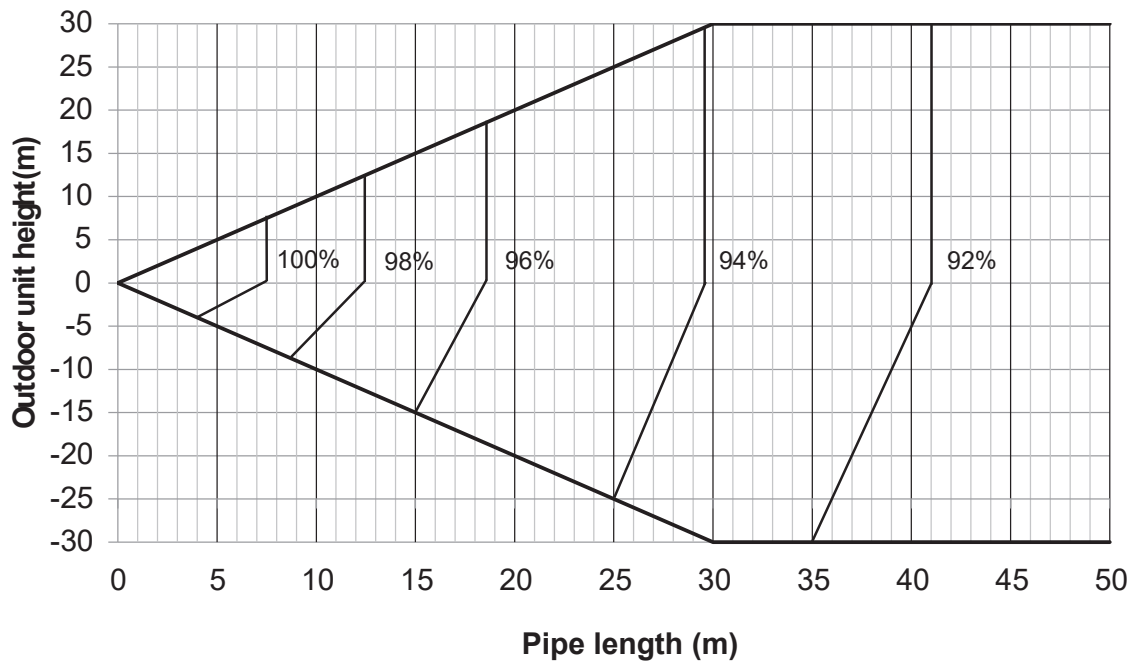
Heating capacity



*21m to 50m connecting pipe length, need to extra refrigerant charge 20 g/m

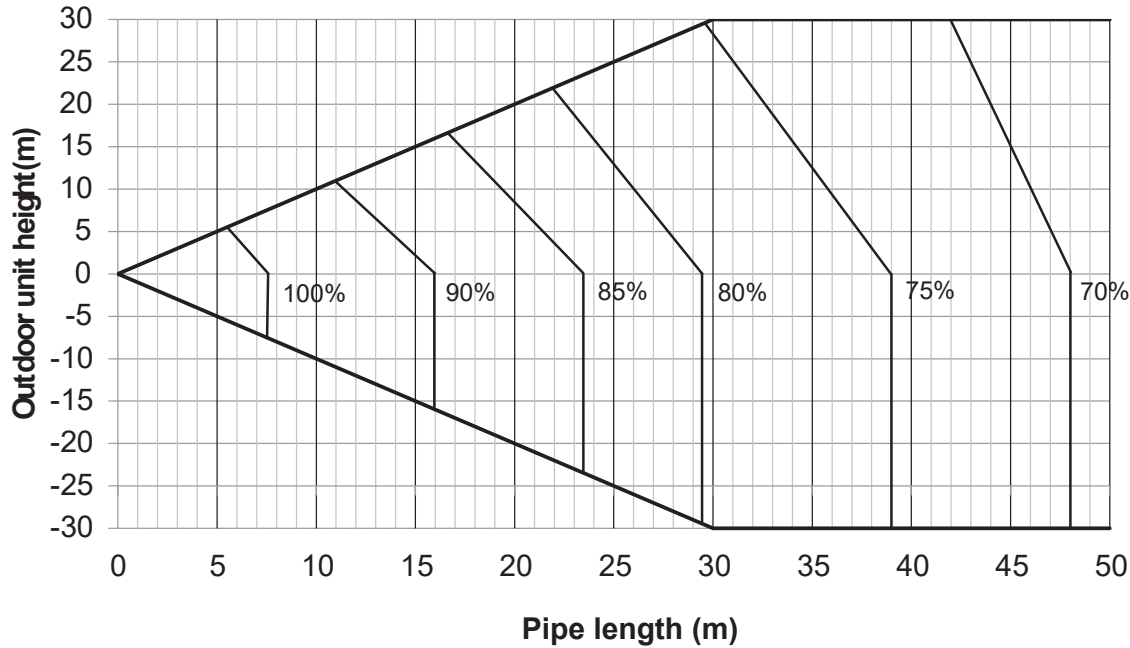
RAV-GPM01ATP-A

Cooling capacity



*31m to 50m connecting pipe length, need to extra refrigerant charge 35 g/m

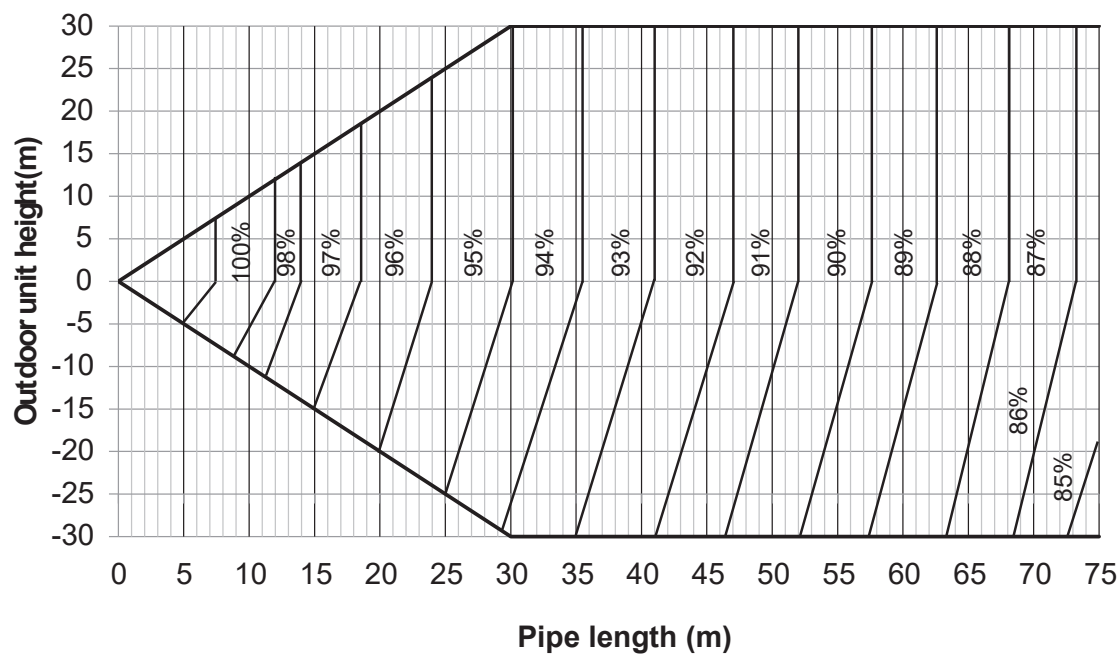
Heating capacity



*31m to 50m connecting pipe length, need to extra refrigerant charge 35 g/m

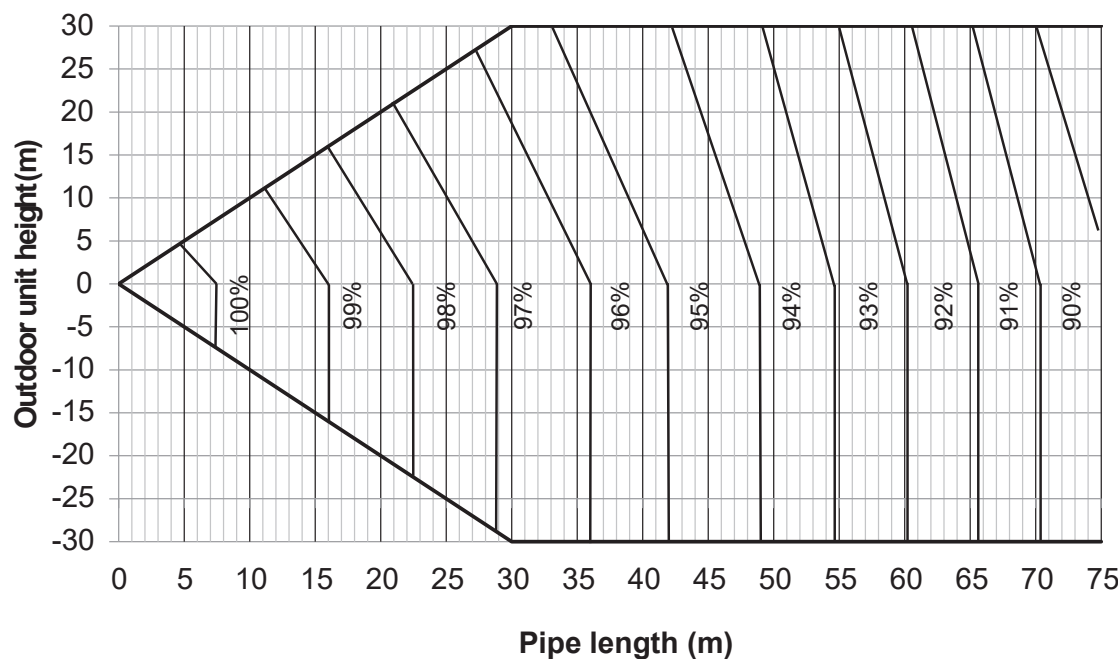
RAV-GM*1ATP-A (*110, 140, 160)

Cooling capacity



*31m to 75m connecting pipe length, need to extra refrigerant charge 35 g/m

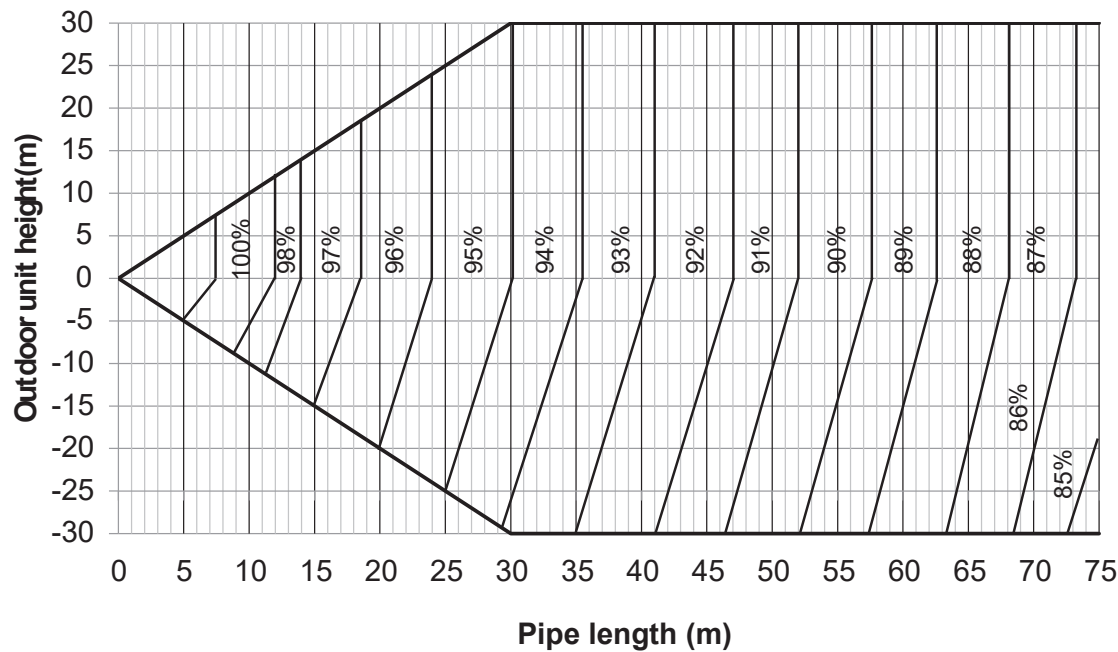
Heating capacity



*31m to 75m connecting pipe length, need to extra refrigerant charge 35 g/m

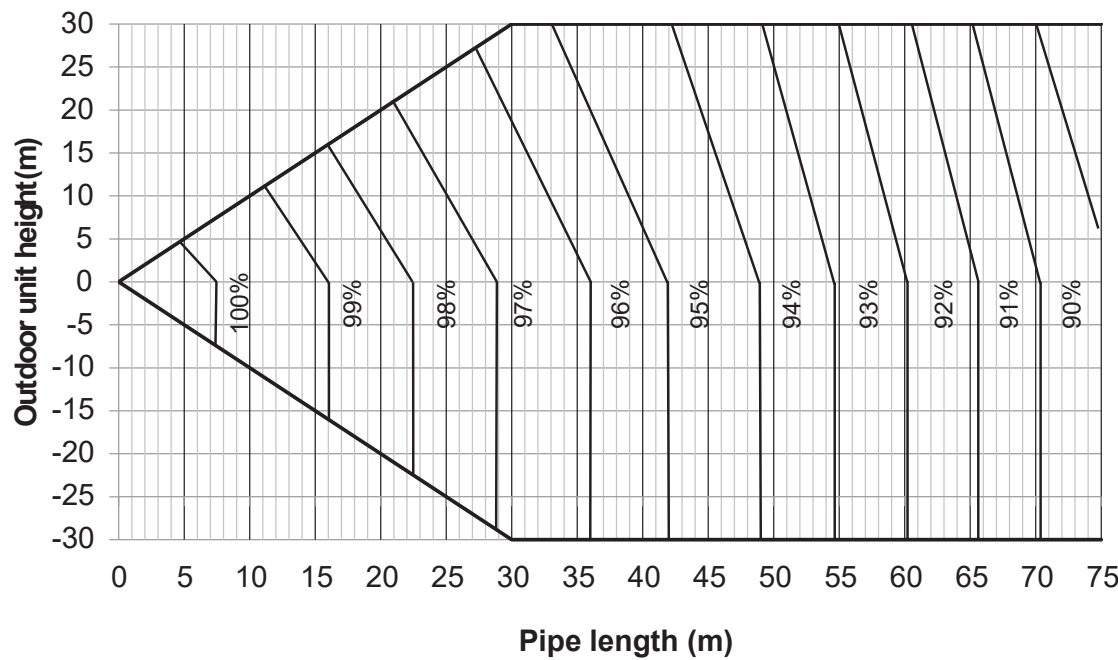
RAV-GM1601AT8P-A

Cooling capacity



*31m to 75m connecting pipe length, need to extra refrigerant charge 35 g/m

Heating capacity



*31m to 75m connecting pipe length, need to extra refrigerant charge 35 g/m

4. Optional Accessories

4.1 Accessories

Type	Model name	Feature	Applied model	Factory
Ceiling Panel	RBC-U32PGP-E	4Way cassette panel without receiver	4Way cassette	TCTC
	RBC-UM21PG(W)-E	Compact 4Way cassette panel without receiver	Compact 4Way cassette	TCC
Wireless reciever kit Controller kit	RBC-AXU31U-E	Wireless receiver and wireless remote controller	4Way cassette	TCTC
	RBC-AXU31C-E		Under ceiling	
	RBC-AXU31-E		Stadard duct	
	RBC-AXU31UM-E		Compact 4Way cassette	TCC
Wired Remote Controller	RBC-ASCU11-E	Compact type	All FCU type	TCAC
	RBC-AMTU31-E	Standard type		TCC
	RBC-AMSU51-ES	Premium type		
PM2.5 filter for 4Way cassette	TCB-PLFC1UPE-120	Before Pre-Filter type	4Way cassette	TCTC
	TCB-PLFC2UPE-80	After Pre-Filter type		
Occupancy sensor	TCB-SIR41UM-E	Occupancy Sensor module for compact 4 way	Compact 4Way cassette	TCC
Drain Pump Kit	TCB-DP31CE	Drain Pump Kit	Ceiling Type	TCC
Elbow piping kit	TCB-KP14CPE	For under ceiling 2HP model*	Ceiling Type	TCTC
	TCB-KP24CPE	For under ceiling 3-6HP model*		
Spigot shaped flange	TCB-SF56C6BPE	For duct chassis width 700mm	Duct and High static pressure duct	
	TCB-SF80C6BPE	For duct chassis width 1000mm		
	TCB-SF160C6BPE	For duct chassis width 1400mm		
Long Life Filter Kit	TCB-LK1401D-E	Flange shape and mount chassis directly	High static pressure duct	

*To use drain pump kit, elbow pipe is necessary

4.2 Controller

Parts name	Model name	Used with
Simple wired controller	RBC-AS21E2	All indoor units
Schedule timer	TCB-EXS21TLE	Wired remote controller
ON-OFF controller	TCB-CC163TLE2	Wired remote controller/Central remote controller
Central controller	BMS-CM1280TLE	All indoor units
1:1 model connection interface	TCB-PCNT30TLE2	4 way cassette type / Compact 4-way cassette type / Ducted type Slim Duct type / Ceiling type / High wall type
Terminal box	TCB-PX30MUE	Used with TCB-PCNT30TLE2
		4-way cassette (4 series) type

Energy Save operation (RBC-AMS54/55E-EN/ES)

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		
			DI R32		
			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-GM**1UTP-A	×	○	×	×
Ceiling type	RAV-GM**1CTP-A	OK	○	×	×
Standard duct	RAV-GM**1BTP-A	OK	○	×	×
High static pressure duct	RAV-GM**1DTP-A	OK	○	×	×
High Wall type	RAV-GM**1KRTP-A	×	○	×	×

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

*2) New Controller : RBC-AMS54/55E-EN/ES

*3) Only 75% :Even if save ratio is set over 50%, the save operation will be 75% automatically

	RBC-AMS54/55E-EN/ES	RBC-AMT32E/RBC-AMS41E
○	0%, 50%, Option (Only 75%)*3	Option (Only 75%)*3
×	NA	NA

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