

Residential Inverter Heat Pump

New SHORAI

Indoor Units

RAS-B07J2KVSG-E	RAS-B07N4KVSG-E	RAS-07J2KVSG-TR
RAS-B10J2KVSG-E	RAS-B10N4KVSG-E	RAS-10J2KVSG-TR
RAS-B13J2KVSG-E	RAS-B13N4KVSG-E	RAS-13J2KVSG-TR
RAS-B16J2KVSG-E	RAS-B16N4KVSG-E	RAS-16J2KVSG-TR
RAS-18J2KVSG-E	RAS-18N4KVSG-E	RAS-18J2KVSG-TR
RAS-B22J2KVSG-E	RAS-B22N4KVSG-E	RAS-22J2KVSG-TR
RAS-B24J2KVSG-E	RAS-B24N4KVSG-E	RAS-24J2KVSG-TR

Outdoor Units

RAS-07J2AVSG-E / TR
RAS-10J2AVSG-E / TR
RAS-13J2AVSG-E / TR
RAS-16J2AVSG-E / TR
RAS-18J2AVSG-E / TR
RAS-22J2AVSG-E / TR
RAS-24J2AVSG-E / TR

Contents

1	Line up.	2
2	Specifications	3
3	Dimension	4
4	Wiring diagram	9
5	Refrigerant cycle diagram	14
6	Air speed distribution	19
7	Sound characteristics (NC Curve)	21
8	Capacity table	28
9	Part load performance	35
10	Performance characteristic	42

1. Line up

Indoor Unit	Outdoor Unit	Model Name		Capacity Rank
		FCU	CDU	
 FCU BF1, Grille ED1 for 07, 10, 13, 16K	 CDU NADR for 07, 10, 13, 16, 18, 22K	RAS-B07J2KVSG-E RAS-B07N4KVSG-E RAS-07J2KVSG-TR	RAS-07J2AVSG-E RAS-07J2AVSG-TR	07k
		RAS-B10J2KVSG-E RAS-B10N4KVSG-E RAS-10J2KVSG-TR	RAS-10J2AVSG-E RAS-10J2AVSG-TR	10k
		RAS-B13J2KVSG-E RAS-B13N4KVSG-E RAS-13J2KVSG-TR	RAS-13J2AVSG-E RAS-13J2AVSG-TR	13k
		RAS-B16J2KVSG-E RAS-B16N4KVSG-E RAS-16J2KVSG-TR	RAS-16J2AVSG-E RAS-16J2AVSG-TR	16k
 FCU BF2, Grille ED1 for 18, 22, 24K	 CDU NADR for 07, 10, 13, 16, 18, 22K	RAS-18J2KVSG-E RAS-18N4KVSG-E RAS-18J2KVSG-TR	RAS-18J2AVSG-E RAS-18J2AVSG-TR	18k
		RAS-B22J2KVSG-E RAS-B22N4KVSG-E RAS-22J2KVSG-TR	RAS-22J2AVSG-E RAS-22J2AVSG-TR	22k
	 CDU 630H for 24K	RAS-B24J2KVSG-E RAS-B24N4KVSG-E RAS-24J2KVSG-TR	RAS-24J2AVSG-E RAS-24J2AVSG-TR	24k

Accessories

	Standard remote controller WH-TA15PE for BF1 WH-TA12PE for BF2
	Accessory Wireless adapter RB-N103S-G for BF1, BF2 Application Toshiba Home AC control

2. Specifications

Size		07k	10k	13k	16k	18k	22k	24k	
System	Indoor	RAS-B07J2KVSG-E	RAS-B10J2KVSG-E	RAS-B13J2KVSG-E	RAS-B16J2KVSG-E	RAS-18J2KVSG-E	RAS-B22J2KVSG-E	RAS-B24J2KVSG-E	
		RAS-B07N4KVSG-E	RAS-B10N4KVSG-E	RAS-B13N4KVSG-E	RAS-B16N4KVSG-E	RAS-18N4KVSG-E	RAS-B22N4KVSG-E	RAS-B24N4KVSG-E	
		RAS-B07J2KVSG-TR	RAS-B10J2KVSG-TR	RAS-B13J2KVSG-TR	RAS-B16J2KVSG-TR	RAS-18J2KVSG-TR	RAS-B22J2KVSG-TR	RAS-B24J2KVSG-TR	
Outdoor	RAS-07J2AVSG-E	RAS-10J2AVSG-E	RAS-13J2AVSG-E	RAS-16J2AVSG-E	RAS-18J2AVSG-E	RAS-22J2AVSG-E	RAS-24J2AVSG-E		
	RAS-07J2AVSG-TR	RAS-10J2AVSG-TR	RAS-13J2AVSG-TR	RAS-16J2AVSG-TR	RAS-18J2AVSG-TR	RAS-22J2AVSG-TR	RAS-24J2AVSG-TR		
Power supply (V/Ph/Hz)		220 - 240 / 1 / 50							
Cooling	Capacity (kW)	2.0	2.5	3.5	4.6	5.0	6.1	7.0	
	Power Consumption (kW)	0.39	0.54	0.90	1.35	1.42	1.99	2.25	
	EER	5.13	4.63	3.89	3.41	3.52	3.07	3.11	
	PdesignC (kW)	2.00	2.50	3.50	4.60	5.00	6.10	7.00	
	SEER	8.50	8.60	8.60	7.80	7.80	7.30	6.30	
	Indoor Noise (H/L/Q) (dB)	40/22/19	40/22/19	43/23/19	44/25/21	44/31/26	45/34/27	47/35/28	
	Quiet (dB/rpm)	19/520	19/520	19/520	21/540	26/550	27/570	28/630	
	Outdoor Noise (dB)	44	44	46	48	48	49	50	
	Silent 1 (dB/rpm)	43/800	43/800	45/860	47/900	47/900	48/950	49/900	
	Silent 2 (dB/rpm)	36/520	37/520	39/600	40/600	42/600	43/600	43/600	
	Indoor Air Flow m³/min	11.0	11.0	12.2	12.5	16.5	17.2	18.7	
Heating	Capacity (kW)	2.5	3.2	4.2	5.5	6.0	7.0	8.0	
	Power Consumption (kW)	0.5	0.7	1.08	1.52	1.59	1.88	2.35	
	COP	5.00	4.57	3.89	3.62	3.77	3.72	3.40	
	PdesignH (Tbiv -10°C) (kW)	2.30	2.50	3.20	4.00	4.30	4.70	6.30	
	SCOP	5.10	5.10	5.10	4.60	4.60	4.60	4.10	
	Indoor Noise (H/L/Q) (dB)	40/22/19	40/22/19	43/23/19	44/26/22	44/31/26	46/34/27	48/35/28	
	Quiet (dB/rpm)	19/520	19/520	19/520	22/540	26/550	27/570	28/640	
	Outdoor Noise (dB)	46	46	48	50	50	51	52	
	Silent 1 (dB/rpm)	44/800	45/800	46/860	49/900	49/900	50/950	52/900	
	Silent 2 (dB/rpm)	38/520	39/520	43/600	43/600	44/600	46/600	46/600	
	Indoor Air Flow m³/min	11.0	11.0	12.2	12.8	16.5	17.2	19.0	
FCU	Dimensions	H x W x D (mm)	293 x 800 x 226			320 x 1053 x 245			
		Net Weight (kg)	10	10	10	10	14	14	14
CDU	Dimensions	H x W x D (mm)	550 x 780 x 290						630 x 800 x 300
		Net Weight (kg)	26	26	30	33	34	34	42
Pipe	Chargeless (m)		15	15	15	15	15	15	15
	Indoor unit	Liquid side (mm)	Ø6.35	Ø6.35	Ø6.35	Ø6.35	Ø6.35	Ø6.35	Ø6.35
		Gas side (mm)	Ø9.52	Ø9.52	Ø9.52	Ø12.70	Ø12.70	Ø12.70	Ø12.70
	Outdoor unit	Liquid side (mm)	Ø6.35	Ø6.35	Ø6.35	Ø6.35	Ø6.35	Ø6.35	Ø6.35
		Gas side (mm)	Ø9.52	Ø9.52	Ø9.52	Ø12.70	Ø12.70	Ø12.70	Ø12.70
	Maximum Length (m)		20	20	20	20	20	20	25
	Maximum Height (m)		12	12	12	12	12	12	15
	Refrigerant		R32						
	Refrigerant amount (kg)		0.55	0.55	0.8	0.8	1.1	1.1	1.14
Energy Label		Cooling / Heating	A+++ / A+++	A+++ / A+++	A+++ / A+++	A++ / A++	A++ / A++	A++ / A++	A++ / A+
Useable Range Temperature	Cooling (°C)		Indoor: 21 ~ 32 °C , Outdoor: (-15) ~ 46 °C						
	Heating (°C)		Indoor: 0 ~ 28 °C , Outdoor: (-15) ~ 24 °C						

For performance when each indoor unit is combined with other unit, refer to the separate table.

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

Cooling : Capacity test condition, inside : 27 °C (Db) / 19 °C (Wb), outside : 35 °C (Db) / 24 °C (Wb)

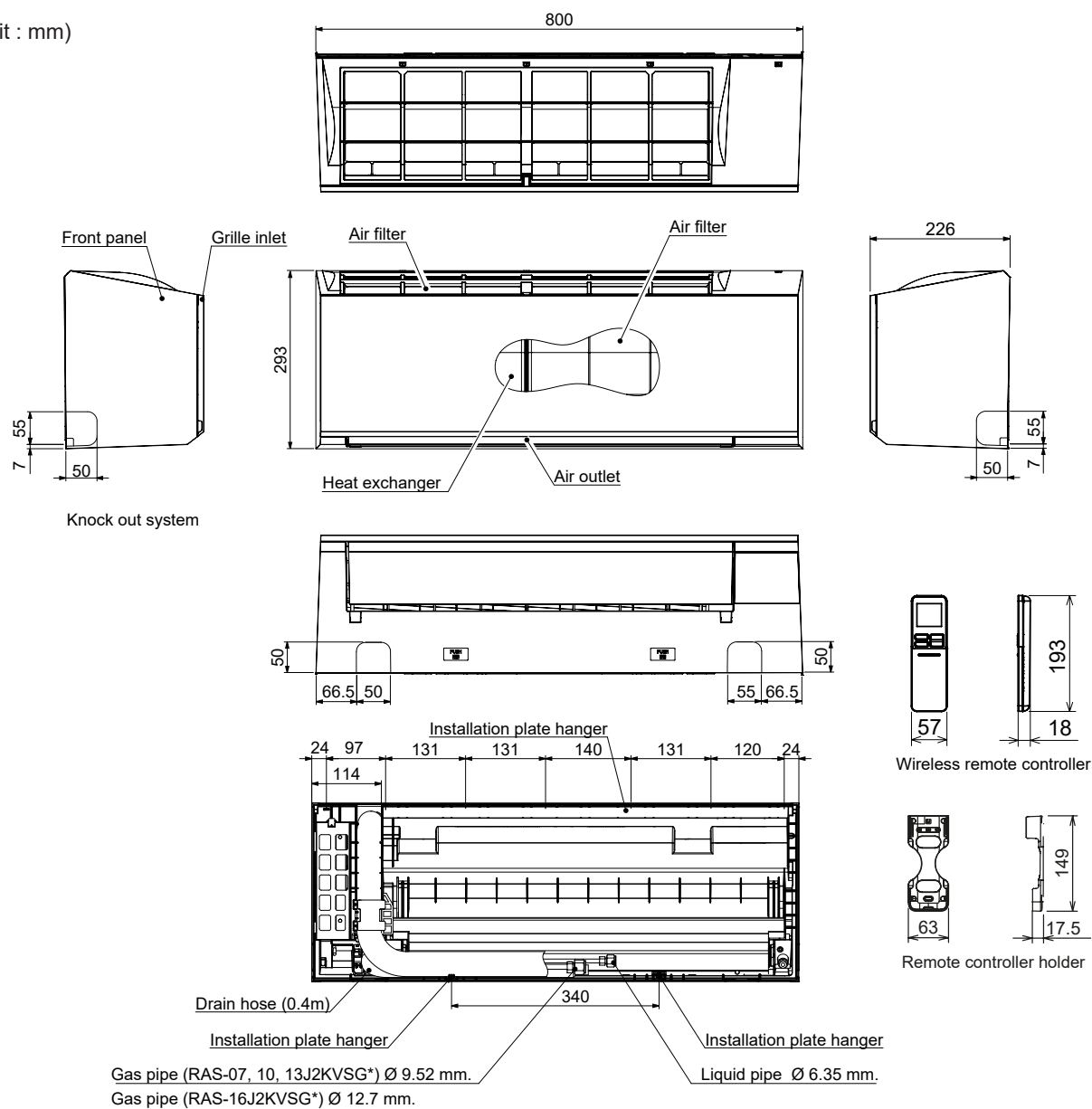
Heating : Capacity test condition, inside : 20 °C (Db), outside : 7 °C (Db) / 6 °C (Wb)

Piping length : 5 m per Indoor Unit.

3. Dimension

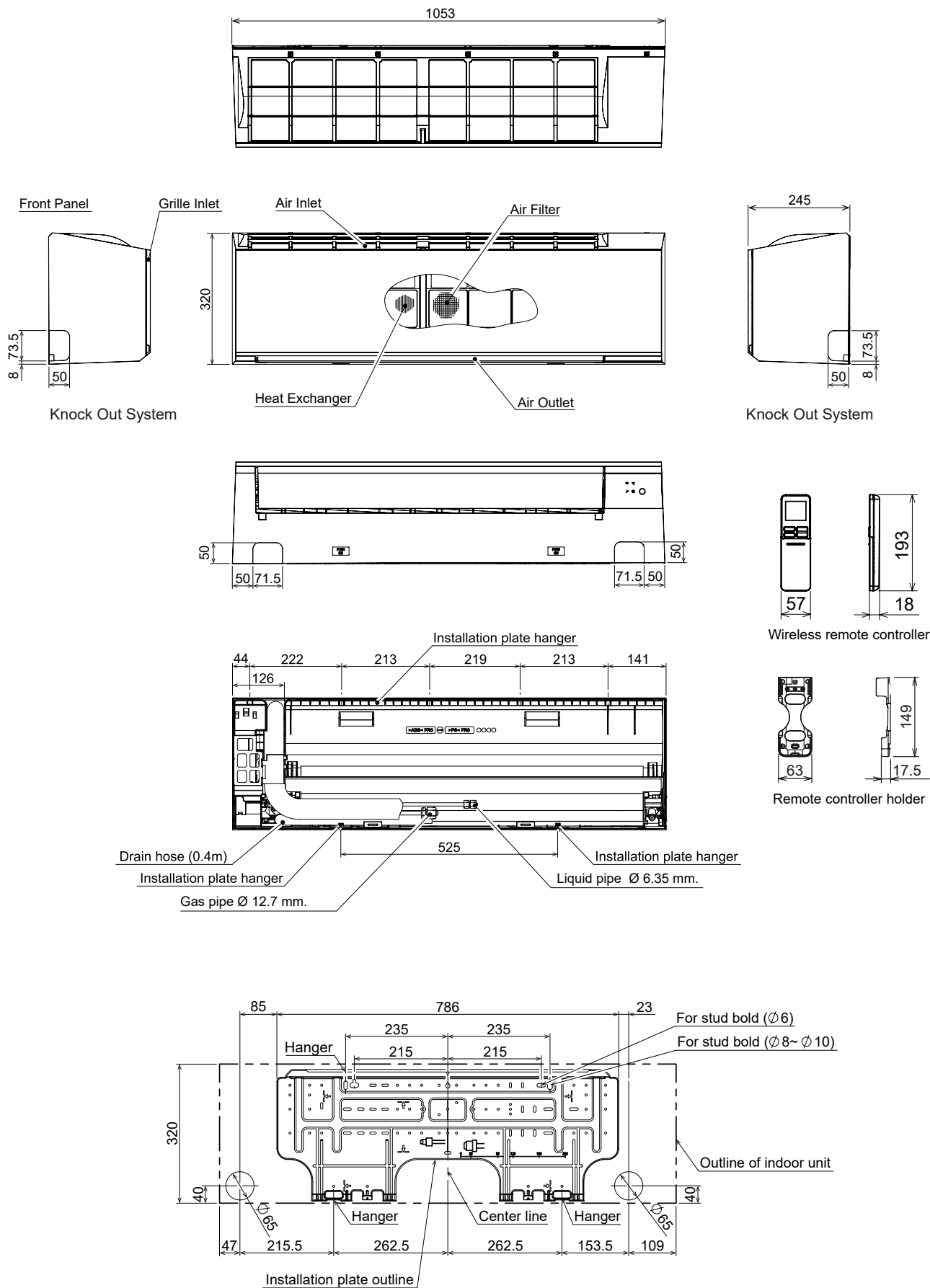
Indoor Unit : RAS-B07J2KVSG-E, RAS-B10J2KVSG-E, RAS-B13J2KVSG-E, RAS-B16J2KVSG-E
RAS-B07N4KVSG-E, RAS-B10N4KVSG-E, RAS-B13N4KVSG-E, RAS-B16N4KVSG-E
RAS-07J2KVSG-TR, RAS-10J2KVSG-TR, RAS-13J2KVSG-TR, RAS-16J2KVSG-TR

(Unit : mm)



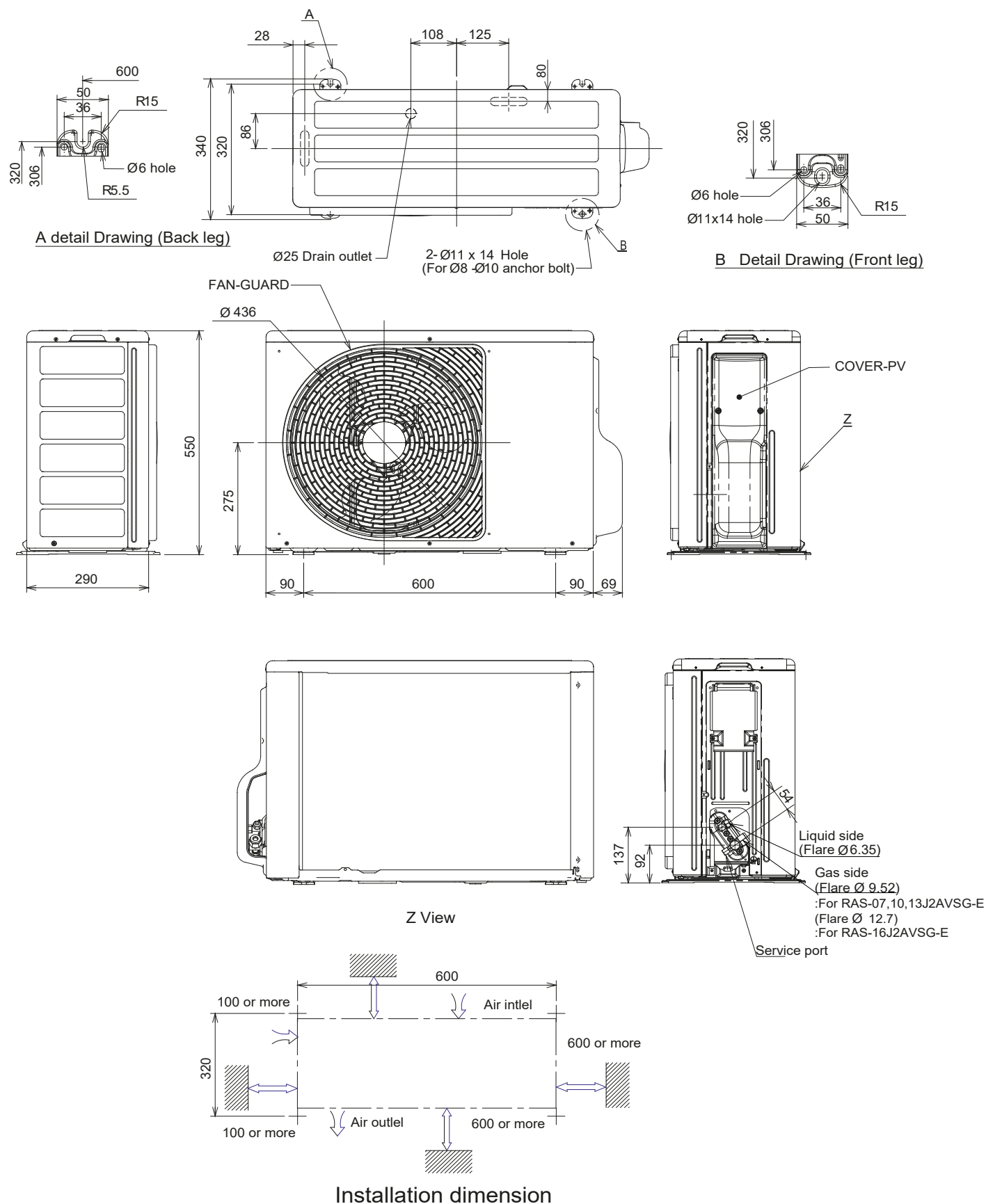
Indoor Unit : RAS-18J2KVSG-E, RAS-B22J2KVSG-E, RAS-B24J2KVSG-E
RAS-18N4KVSG-E, RAS-B22N4KVSG-E, RAS-B24N4KVSG-E
RAS-18J2KVSG-TR, RAS-22J2KVSG-TR, RAS-24J2KVSG-TR

(Unit : mm)



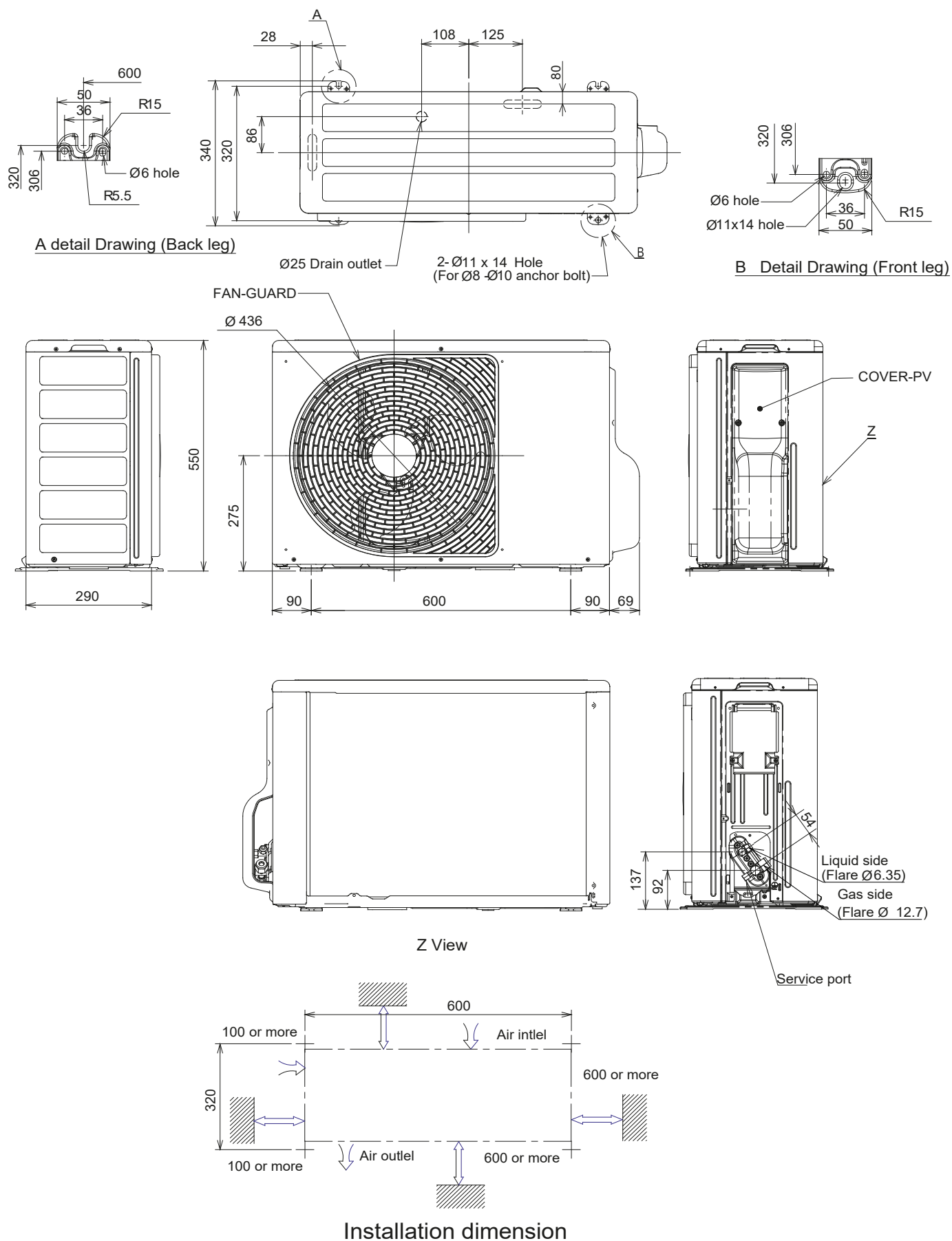
Outdoor Unit : RAS-07J2AVRG- E/TR, RAS-10J2AVRG- E/TR, RAS-13J2AVRG- E/TR,
RAS-16J2AVRG- E/TR

(Unit : mm)



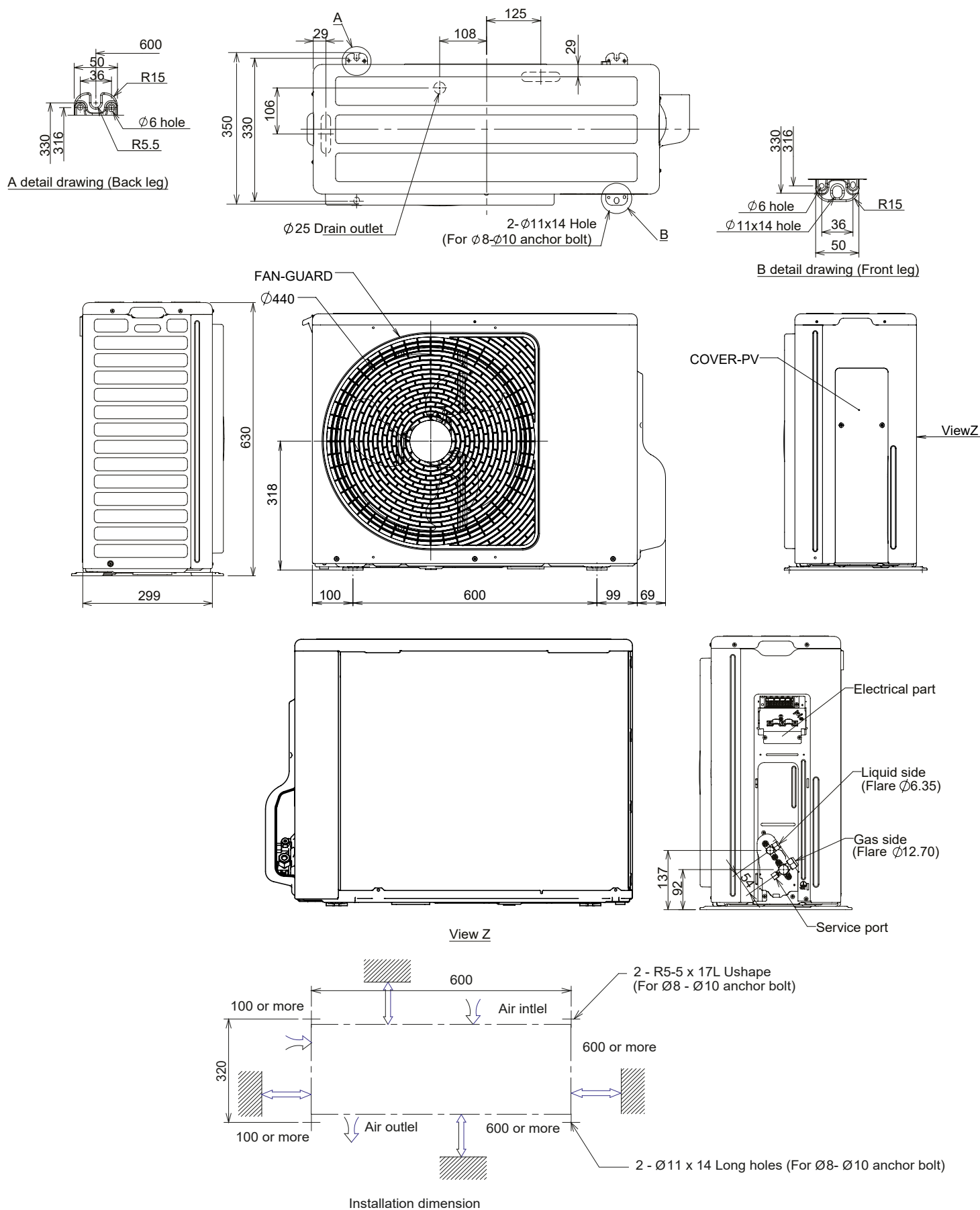
Outdoor Unit : RAS-18J2AVSG- E/TR, RAS-22J2AVSG- E/TR

(Unit : mm)



Outdoor Unit : RAS-24J2AVSG- E/TR

(Unit : mm)

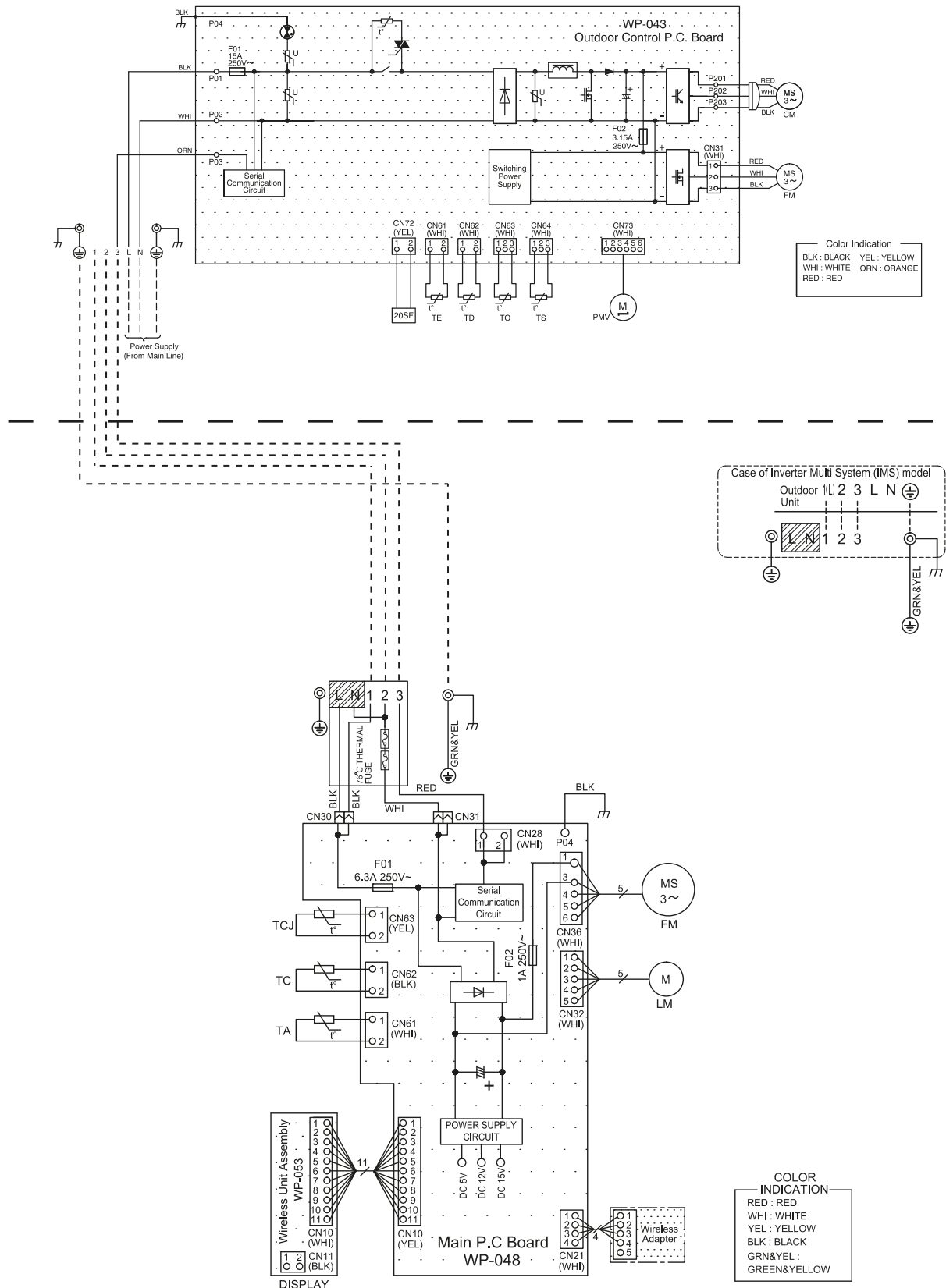


4. Wiring diagrams

RAS-B07J2KVSG-E : RAS-07J2AVSG-E, RAS-B10J2KVSG-E : RAS-10J2AVSG-E,
RAS-B13J2KVSG-E : RAS-13J2AVSG-E

RAS-B07N4KVSG-E : RAS-07J2AVSG-E, RAS-B10N4KVSG-E : RAS-10J2AVSG-E,
RAS-B13N4KVSG-E : RAS-13J2AVSG-E

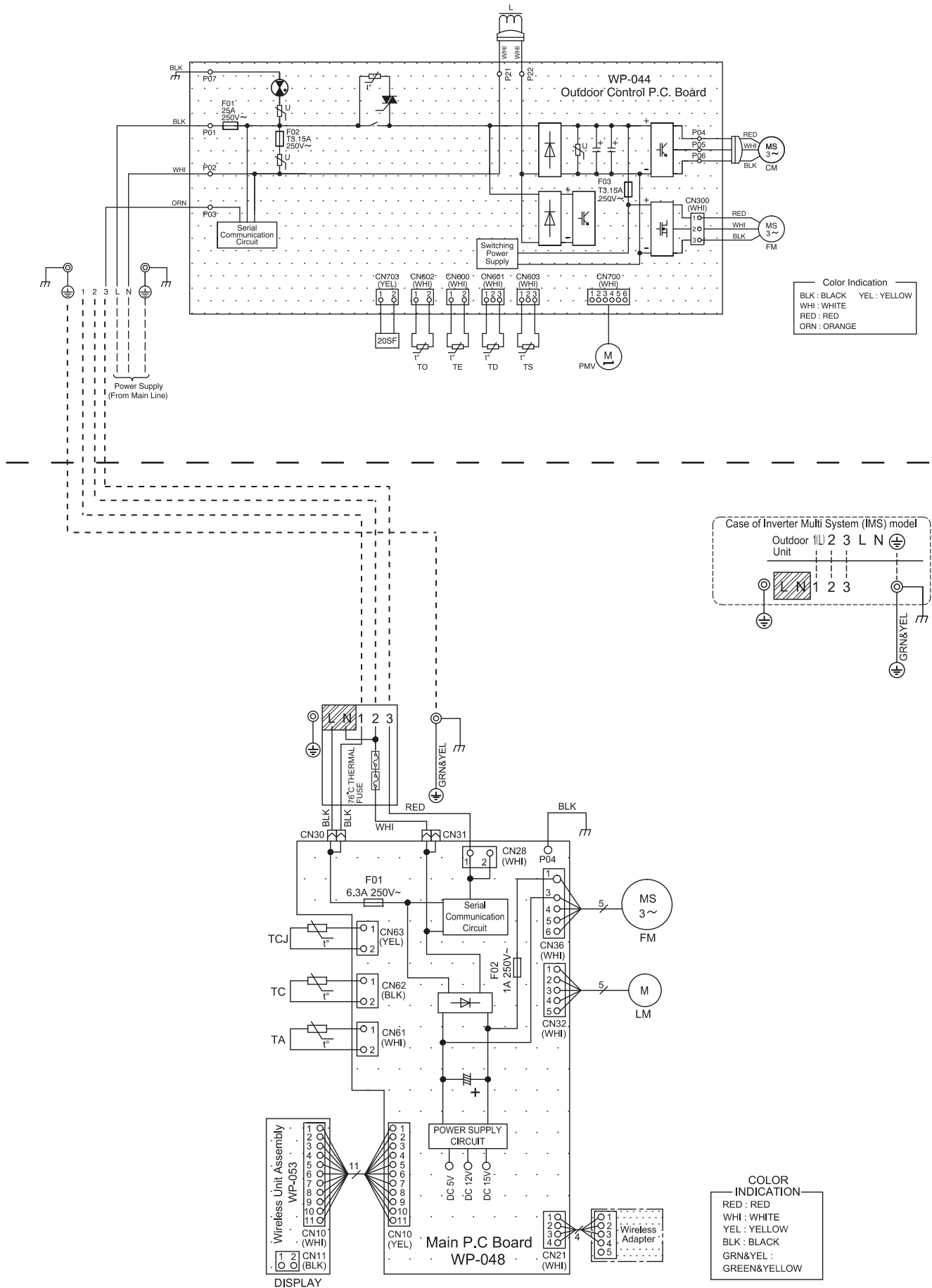
RAS-B07J2KVSG-TR : RAS-07J2KVSG-TR, RAS-B10J2KVSG-TR : RAS-10J2AVSG-TR,
RAS-B13J2KVSG-TR : RAS-13J2AVSG-TR



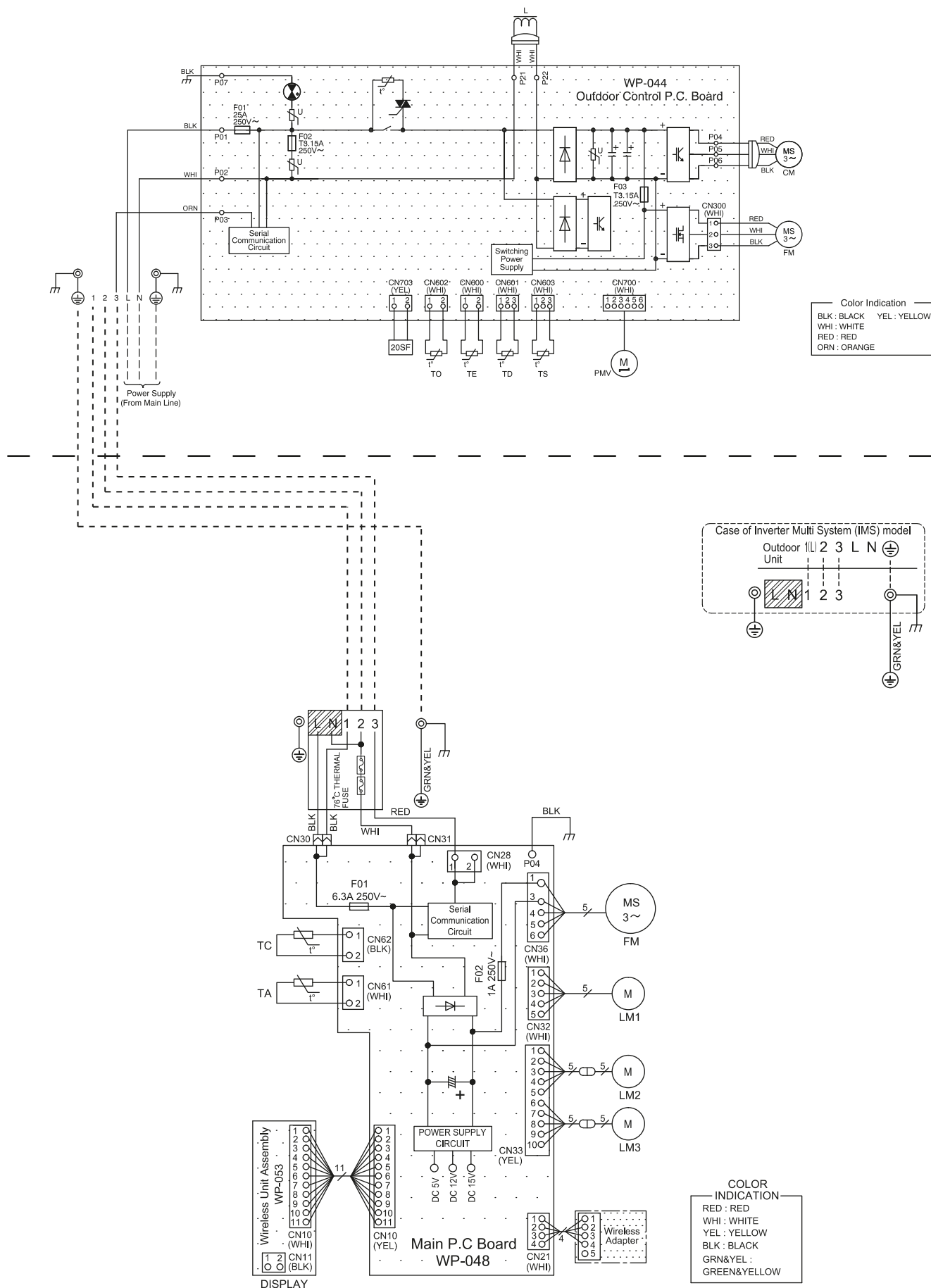
RAS-B16J2KVSG-E : RAS-16J2AVSG-E

RAS-B16N4KVSG-E : RAS-16J2AVSG-E

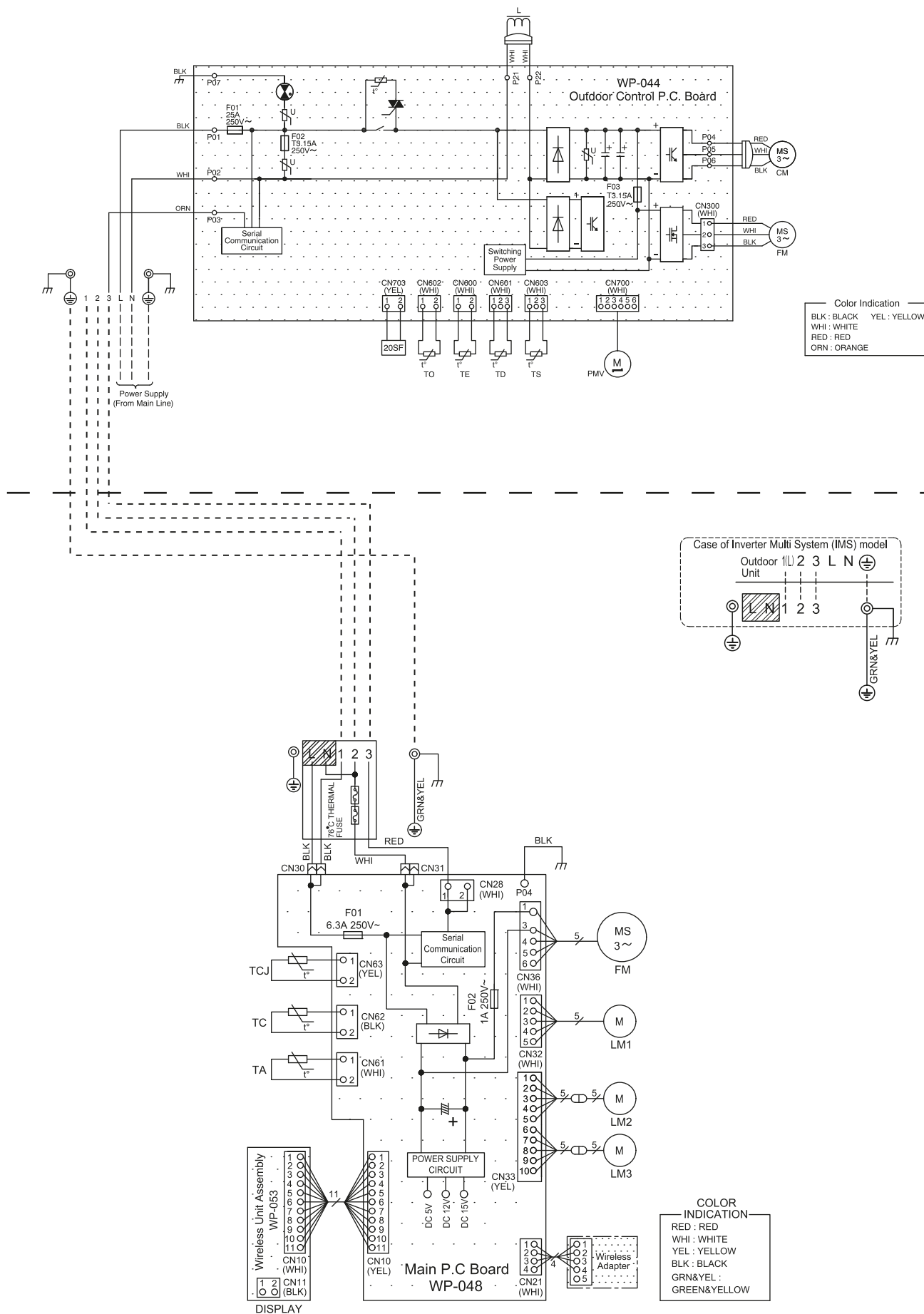
RAS-B16J2KVSG-TR : RAS-16J2AVSG-TR



RAS-18J2KVSG-E : RAS-18J2AVSG-E
 RAS-18N4KVSG-E : RAS-18J2AVSG-E
 RAS-18J2KVSG-TR : RAS-18J2AVSG-TR



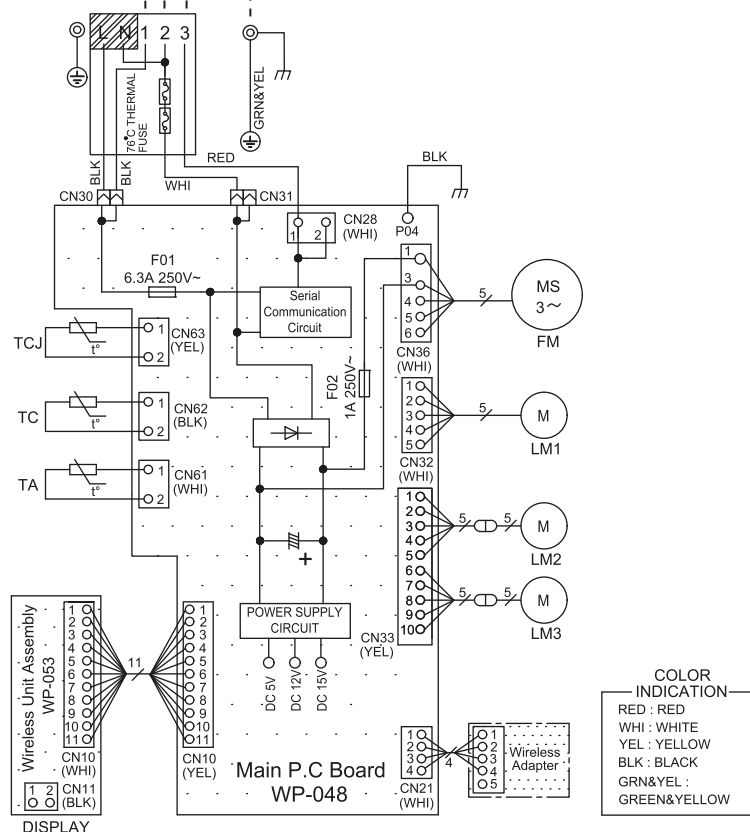
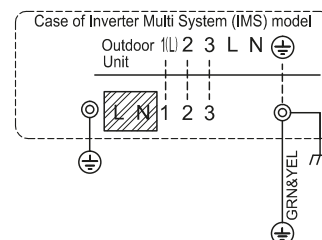
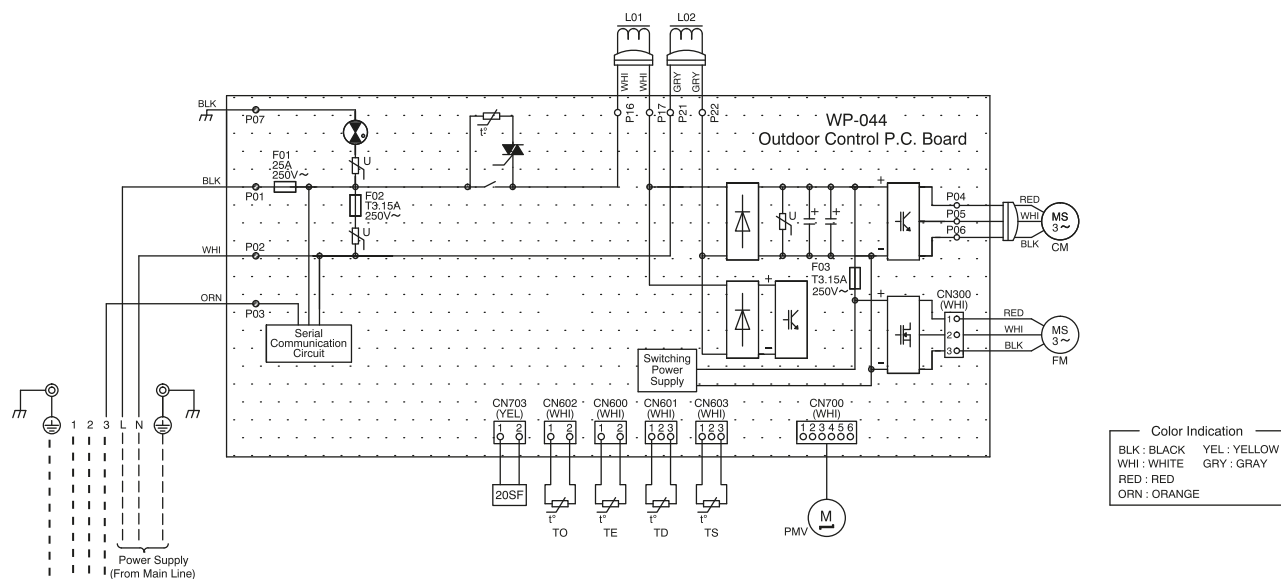
RAS-B22J2KVSG-E : RAS-22J2AVSG-E
RAS-B22N4KVSG-E : RAS-22J2AVSG-E
RAS-B22J2KVSG-TR : RAS-22J2AVSG-TR



RAS-B24J2KVSG-E : RAS-24J2AVSG-E

RAS-B24N4KVSG-E : RAS-24J2AVSG-E

RAS-B24J2KVSG-TR : RAS-24J2AVSG-TR



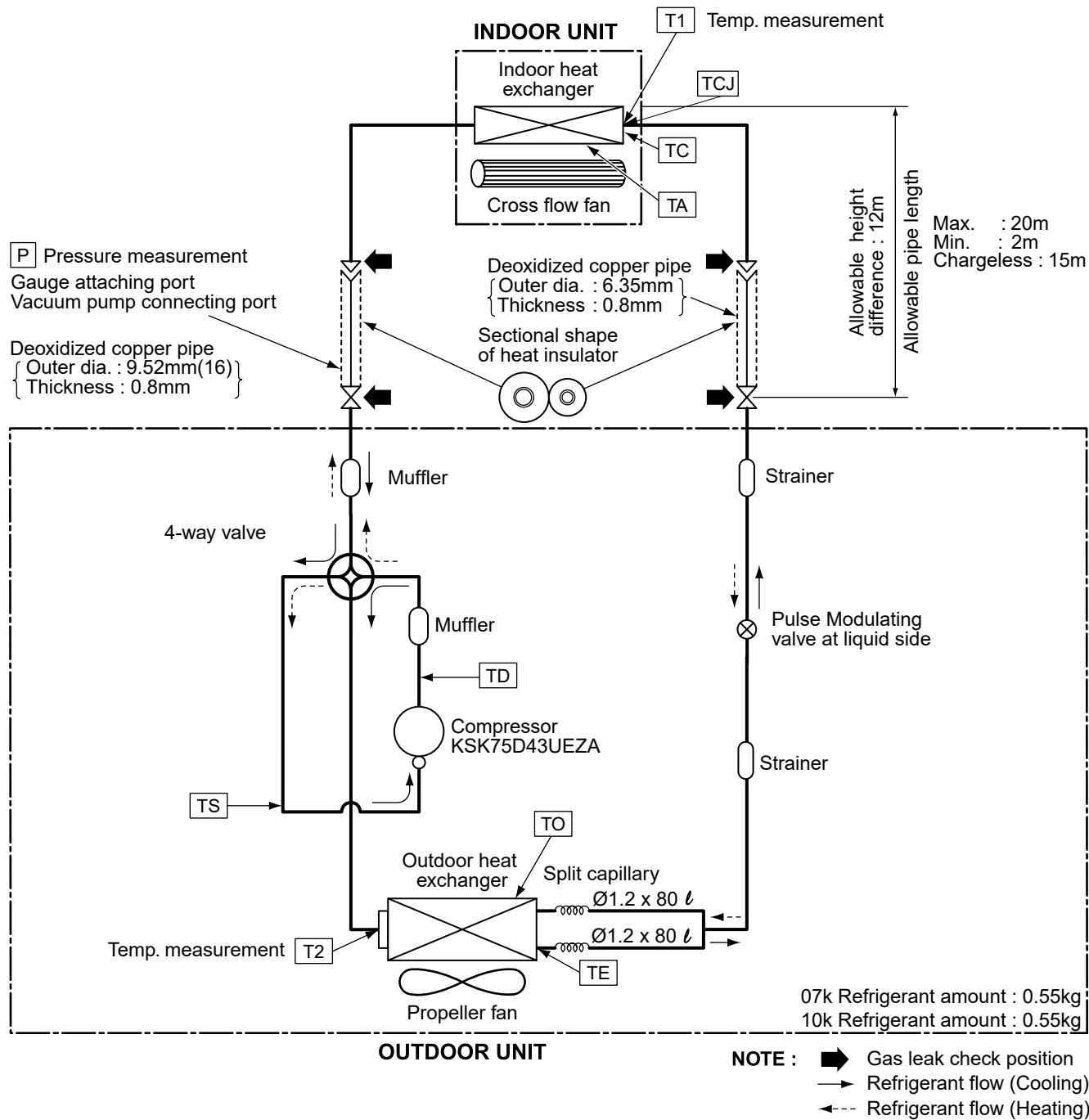
5. Refrigerant Cycle Diagram

RAS-B07J2KVSG-E / RAS-07J2KVSG-TR : RAS-10J2AVSG-E / TR

RAS-B07N4KVSG-E : RAS-10J2AVSG-E

RAS-B10J2KVSG-E / RAS-10J2KVSG-TR : RAS-10J2AVSG-E / TR

RAS-B10N4KVSG-E : RAS-10J2AVSG-E

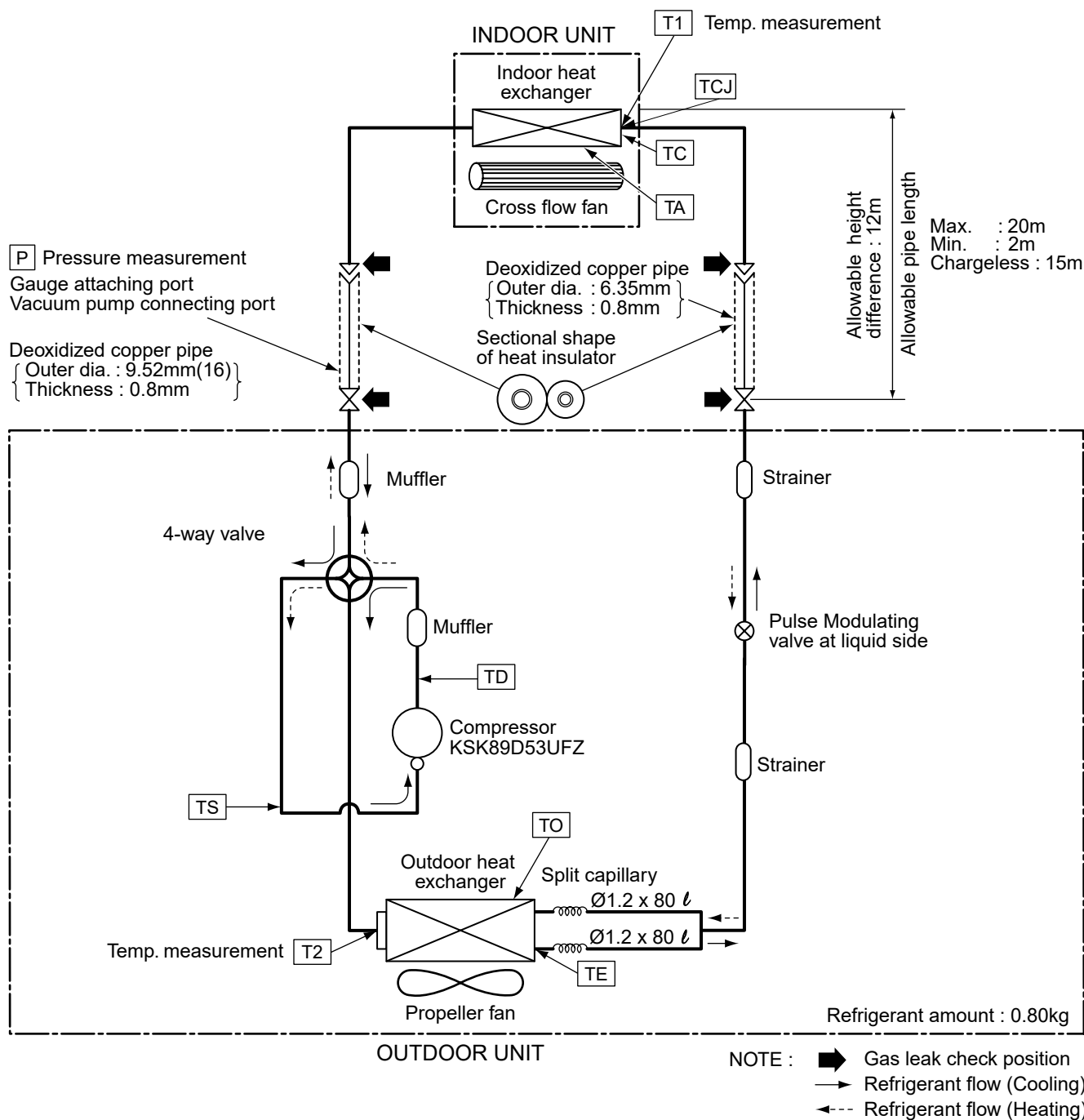


NOTE :

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

RAS-B13J2KVSG-E / RAS-13J2KVSG-TR : RAS-13J2AVSG-E / TR

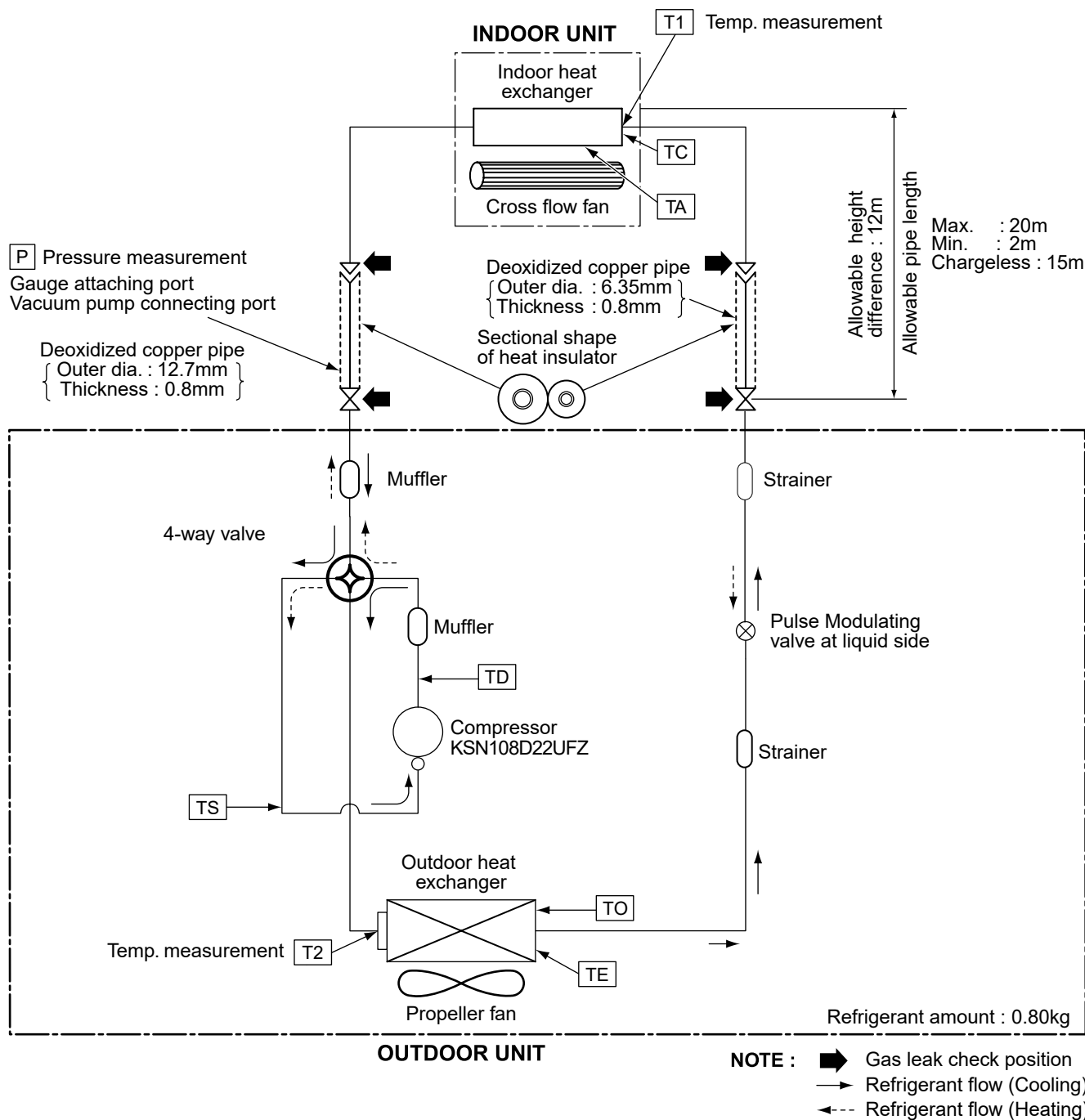
RAS-B13N4KVSG-E : RAS-13J2AVSG-E



NOTE :

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

RAS-B16J2KVSG-E / RAS-16J2KVSG-TR : RAS-16J2AVSG-E / TR
 RAS-B16N4KVSG-E : RAS-16J2AVSG-E



NOTE :

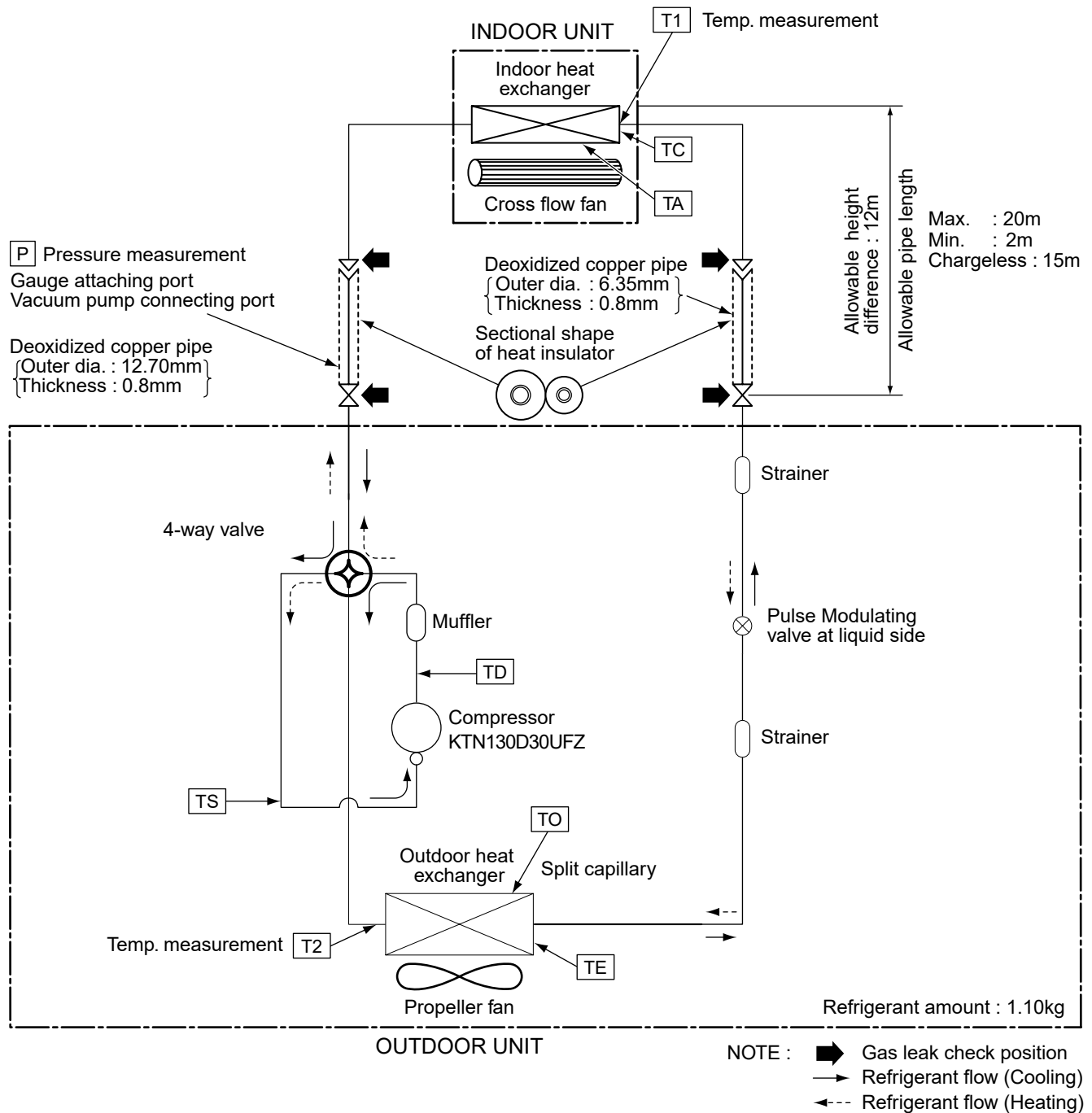
- The maximum pipe length of this air conditioner is 15 m. When the pipe length exceeds 15 m, the additional charging of refrigerant, 20 g. per 1m for the part of pipe exceeded 15 m. is required. (Max. 100 g.)

RAS-18J2KVRG-E / TR : RAS-18J2AVRG-E / TR

RAS-18N4KVRG-E : RAS-18J2AVRG-E

RAS-B22J2KVRG-E / RAS-22J2KVRG-TR : RAS-22J2AVRG-E / TR

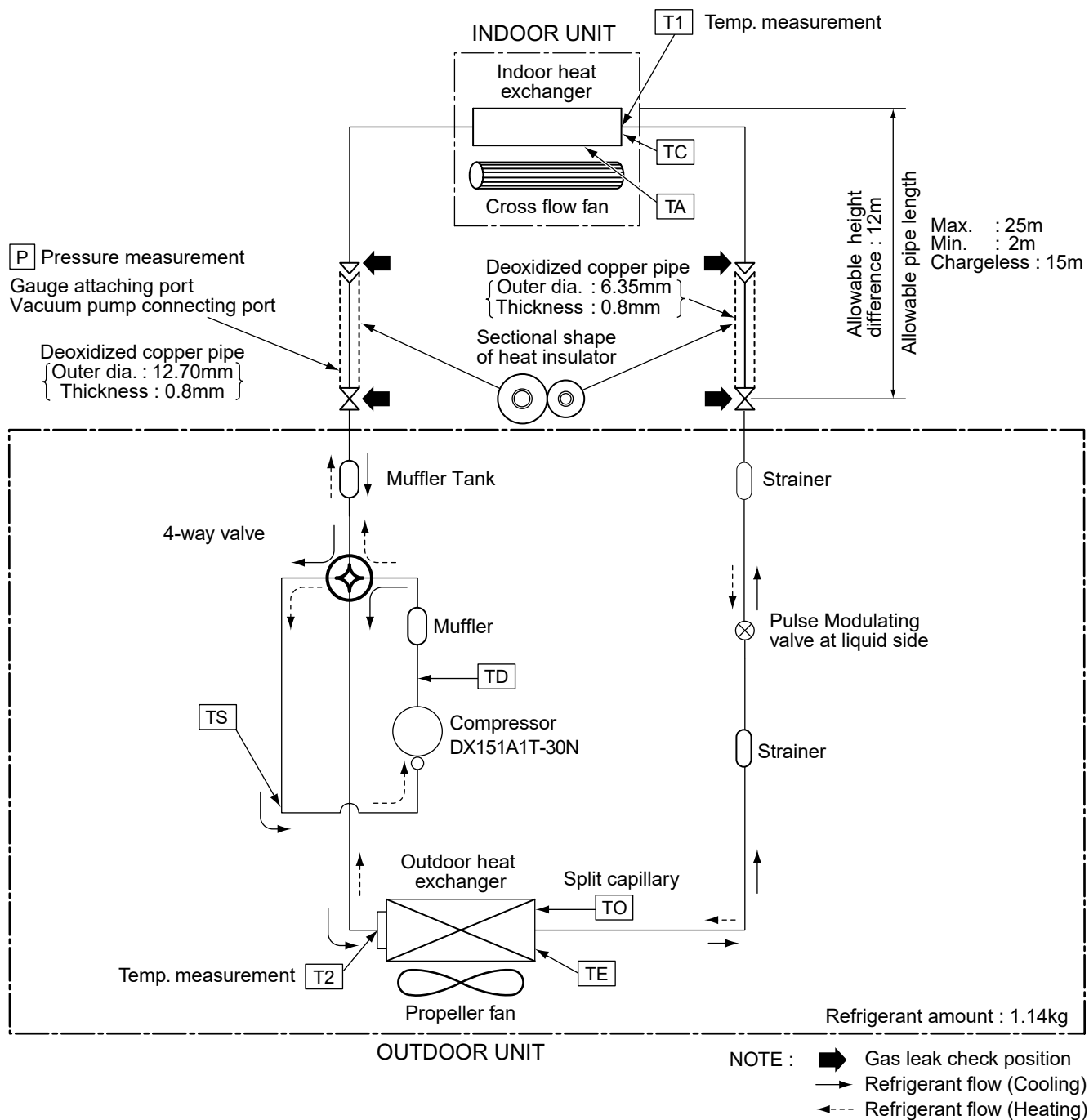
RAS-B22N4KVRG-E : RAS-22J2AVRG-E

**NOTE :**

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

RAS-B24J2KVRG-E / TR : RAS-24J2AVRG-E / TR

RAS-B24N4KVRG-E : RAS-24J2AVRG-E

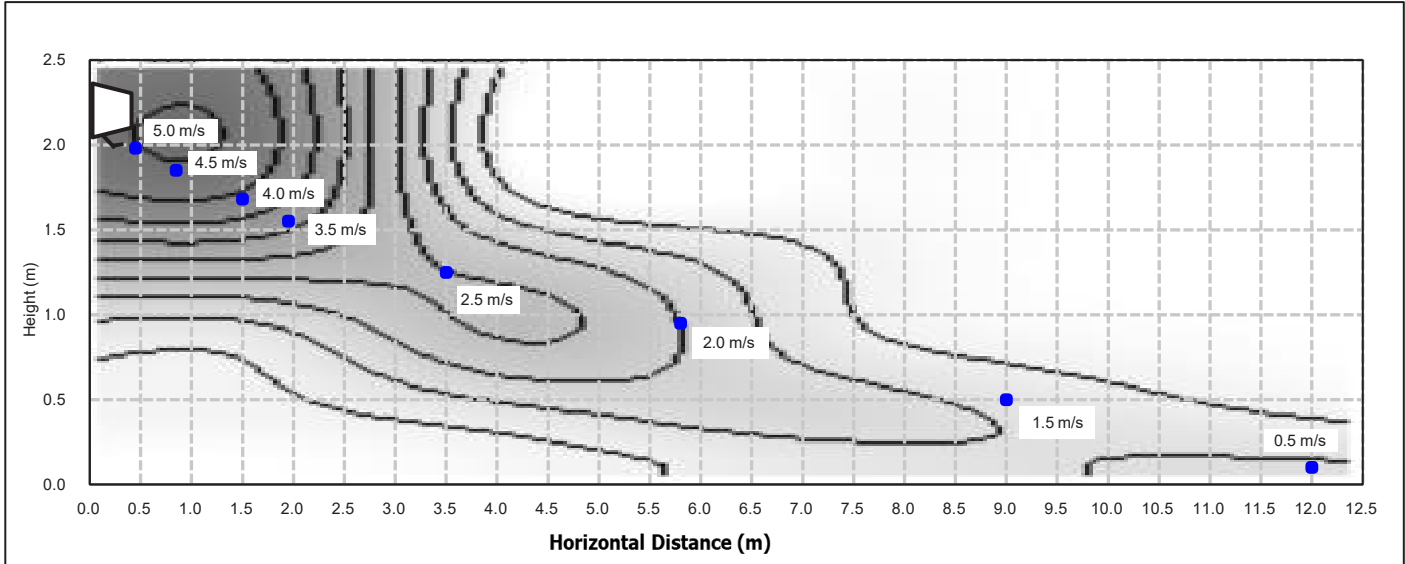
**NOTE :**

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

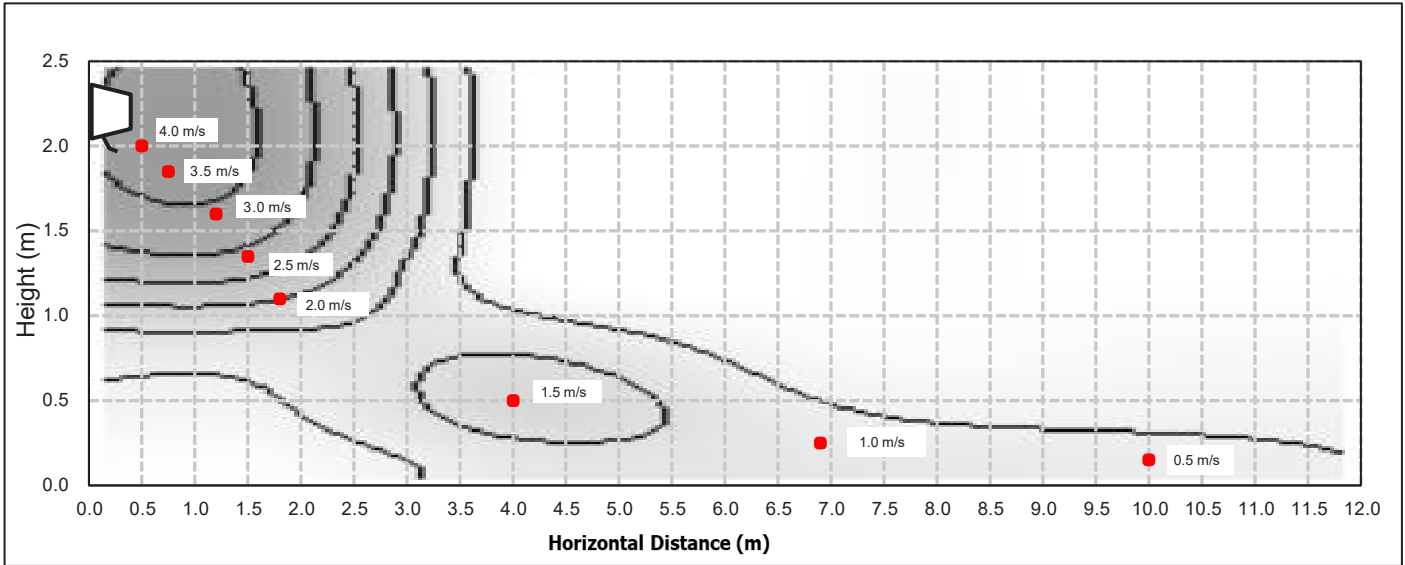
6. Air Speed Distribution

RAS-B07J2(N4)KVSG-E/TR, RAS-B10J2(N4)KVSG-E/TR, RAS-B13J2(N4)KVSG-E/TR,
RAS-B16J2(N4)KVSG-E/TR

Cooling

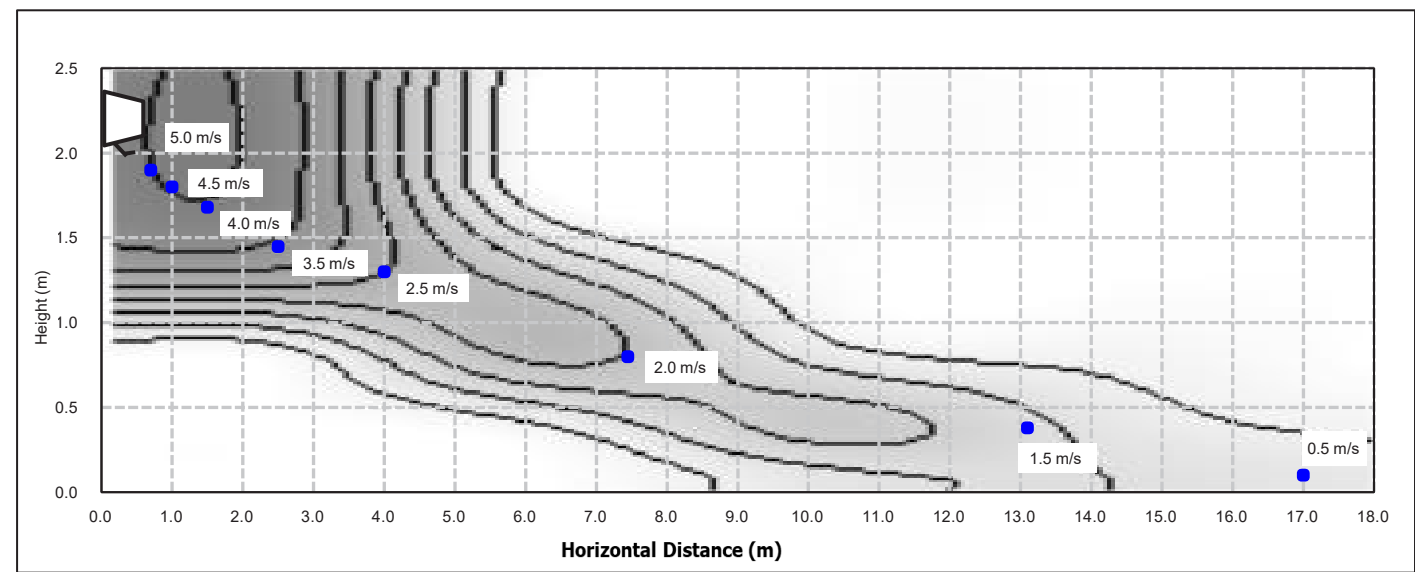


Heating

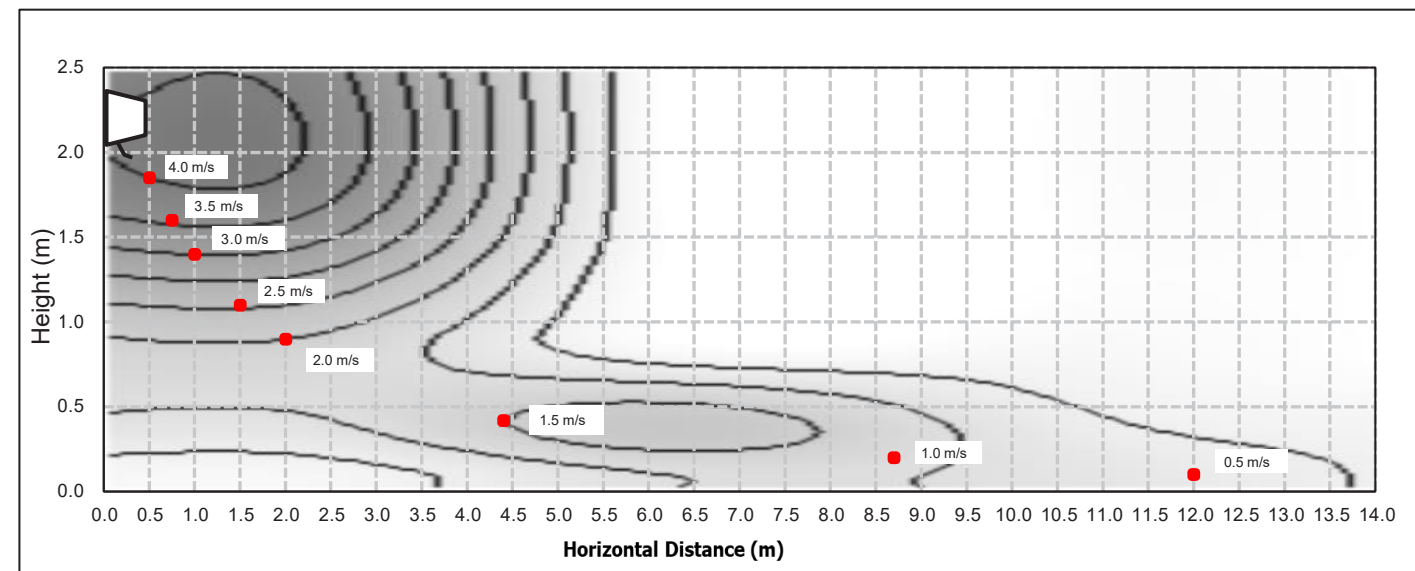


RAS-18J2(N4)KVSG-E/TR, RAS-B22J2(N4)KVSG-E/TR, RAS-B24J2(N4)KVSG-E/TR

Cooling



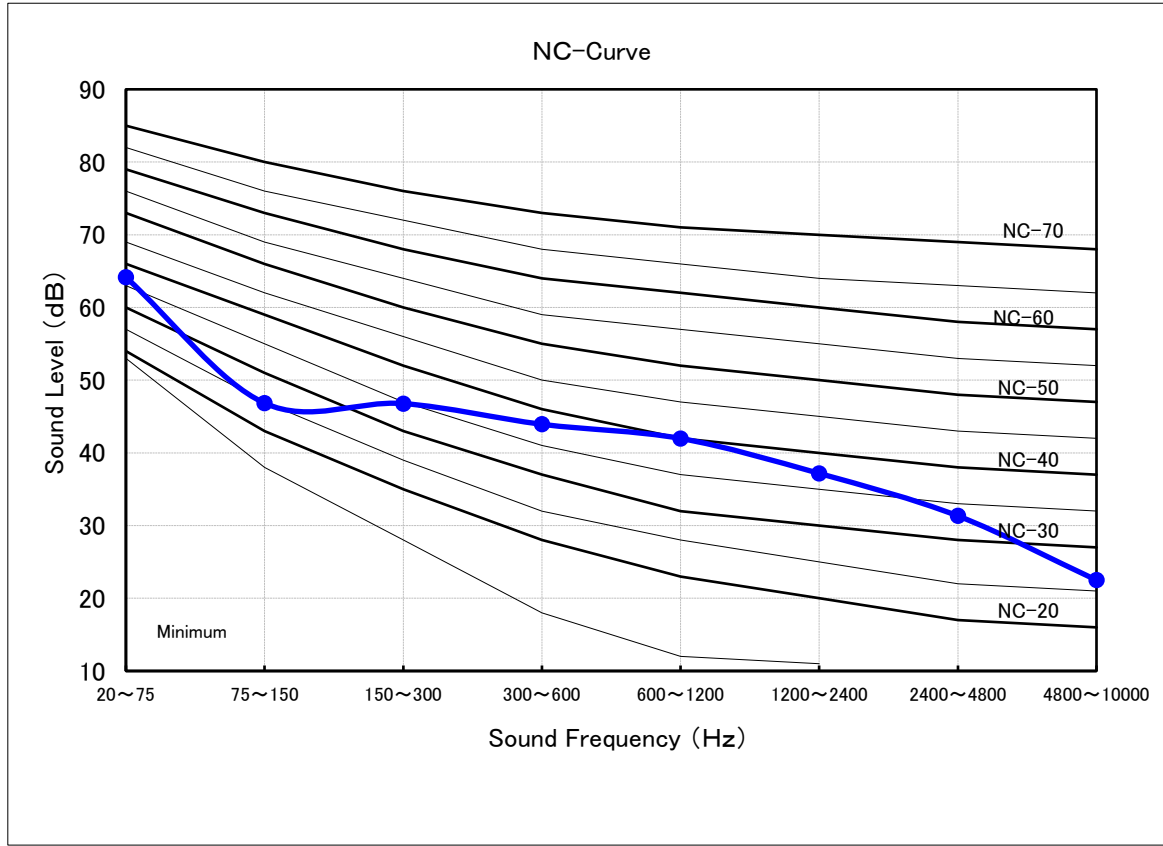
Heating



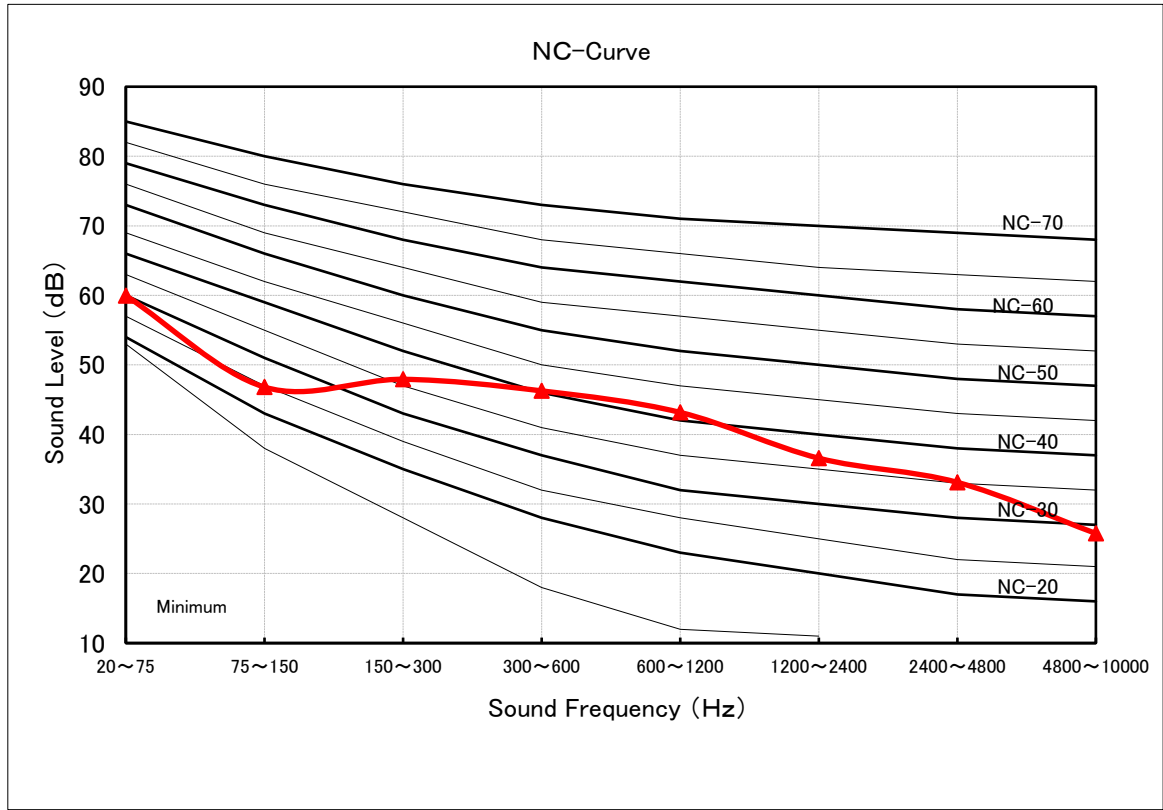
7. Sound Characteristics (NC Curve)

RAS-07J2AVSG-E/TR

Cooling

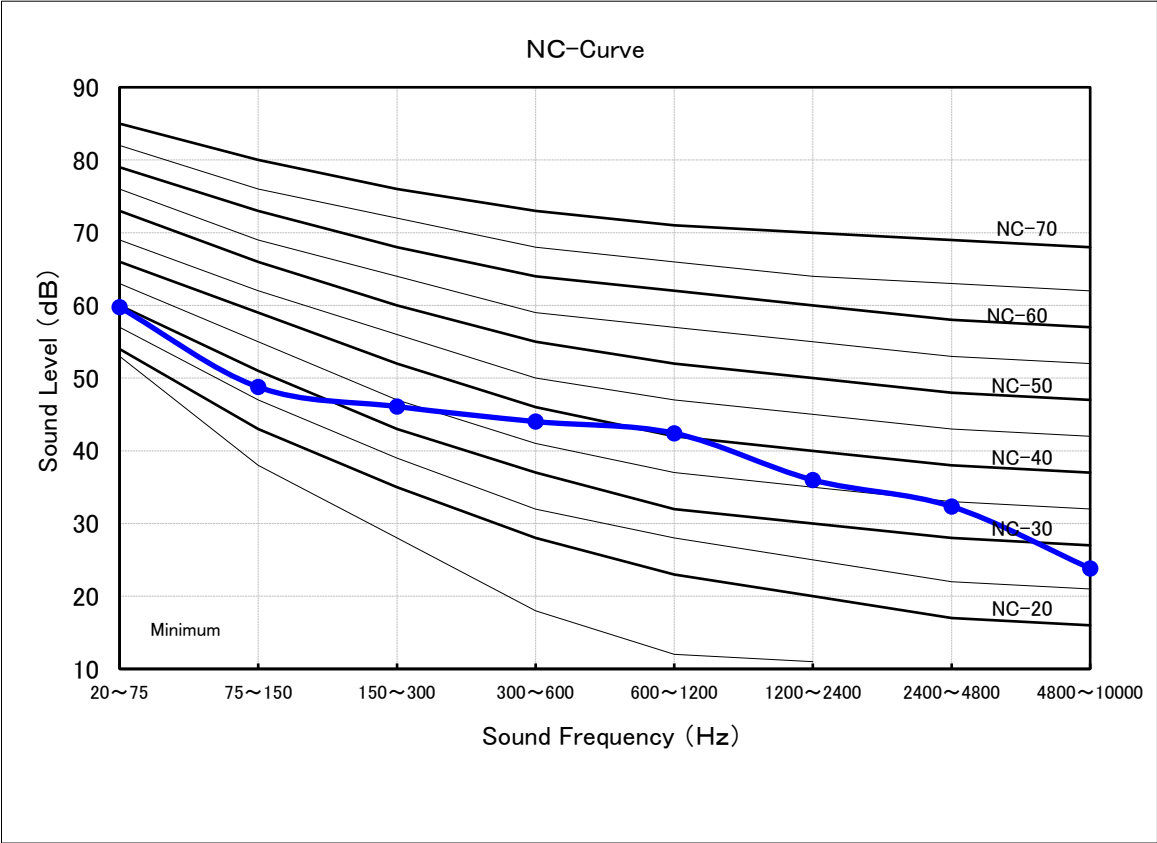


Heating

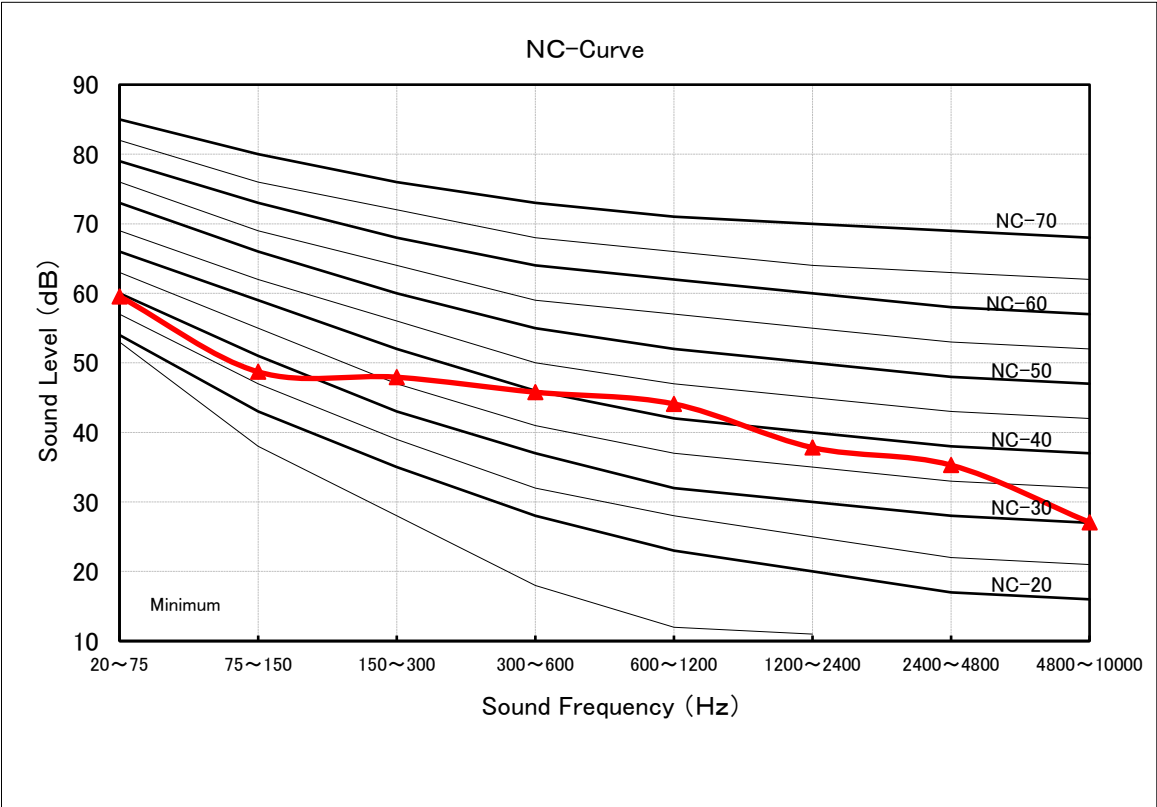


RAS-10J2AVSG-E/TR

Cooling

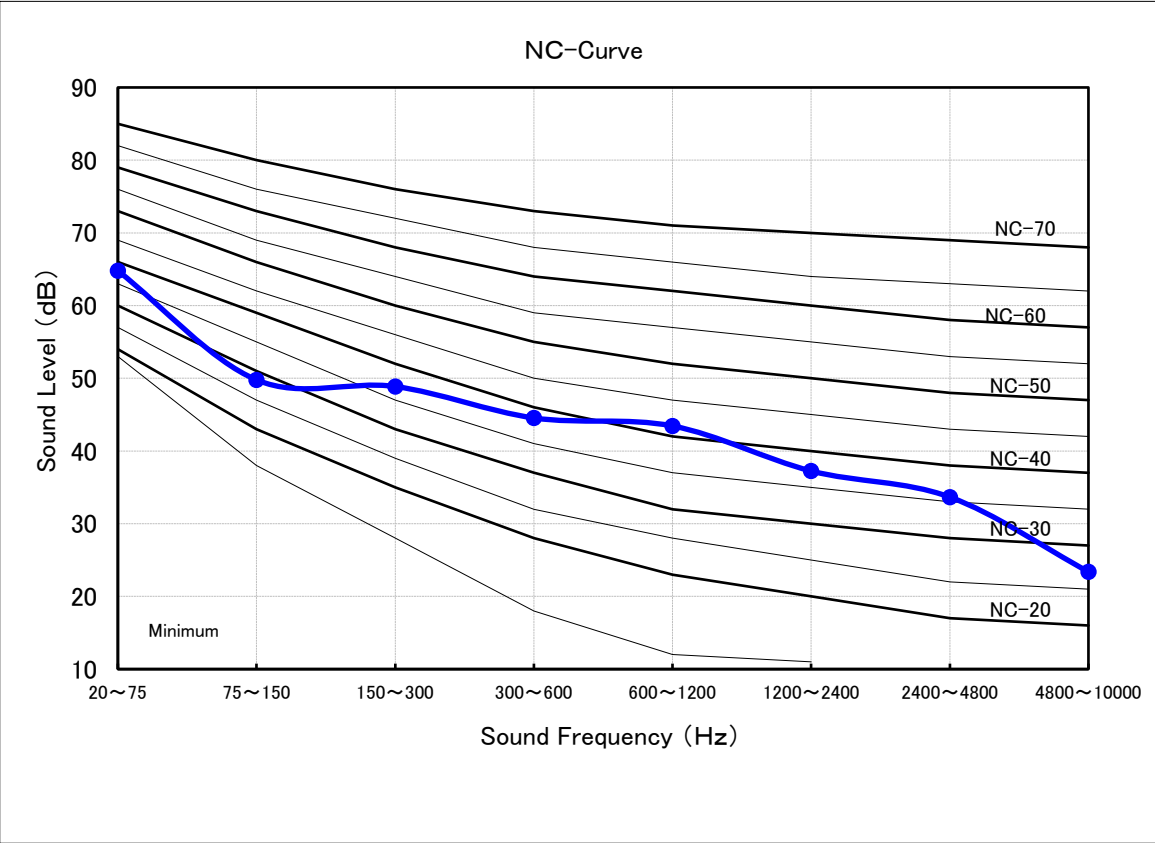


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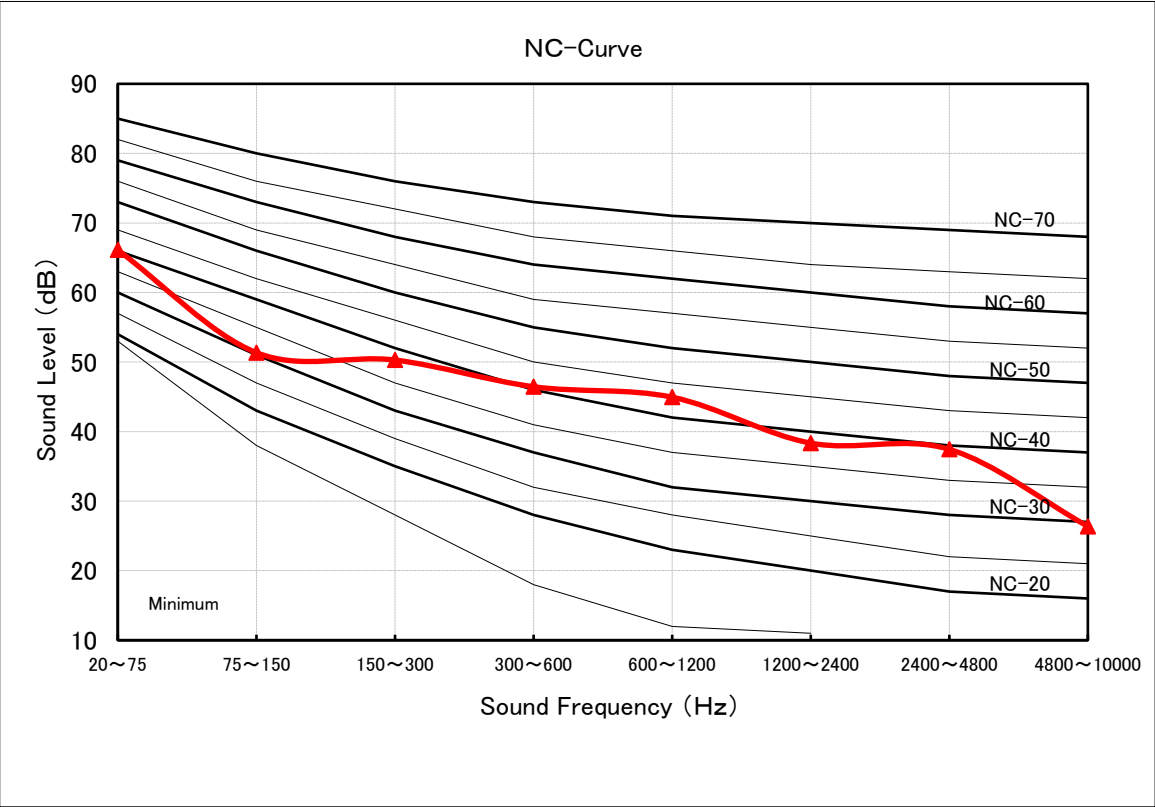


RAS-13J2AVSG-E/TR

Cooling

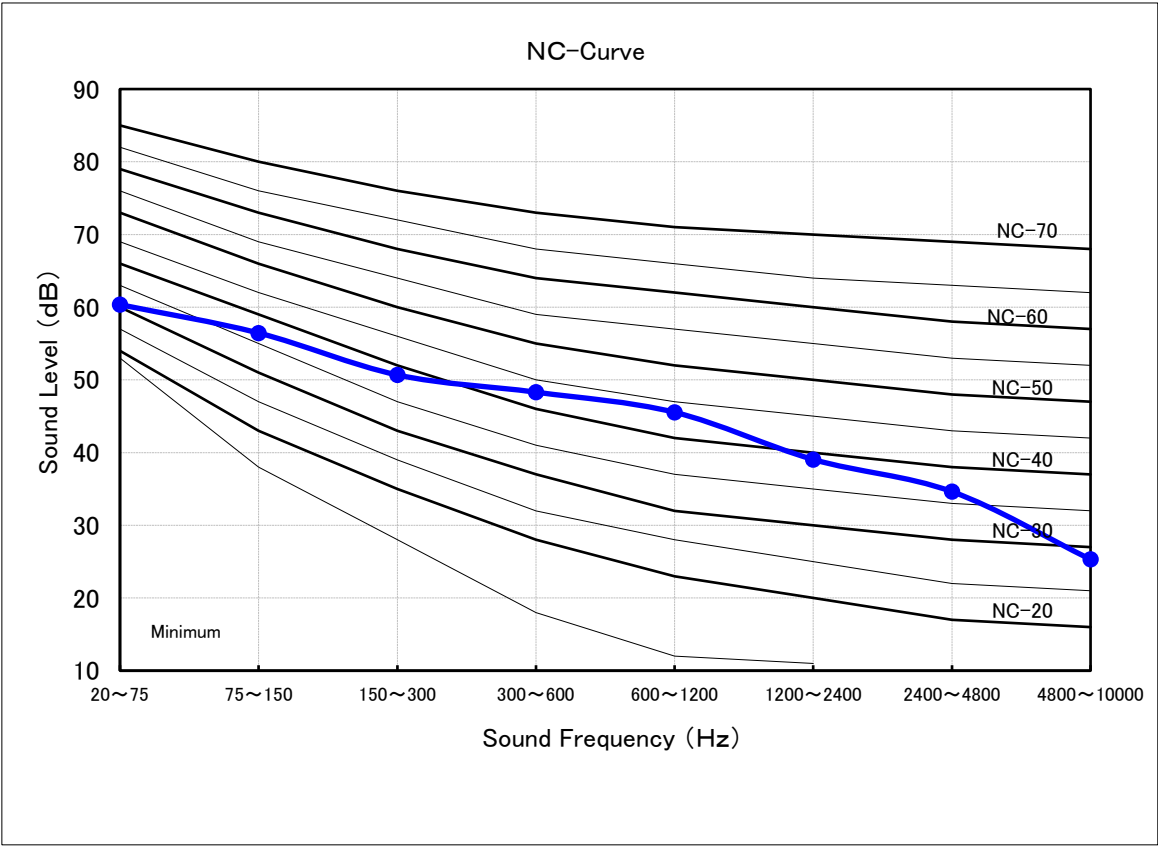


Heating

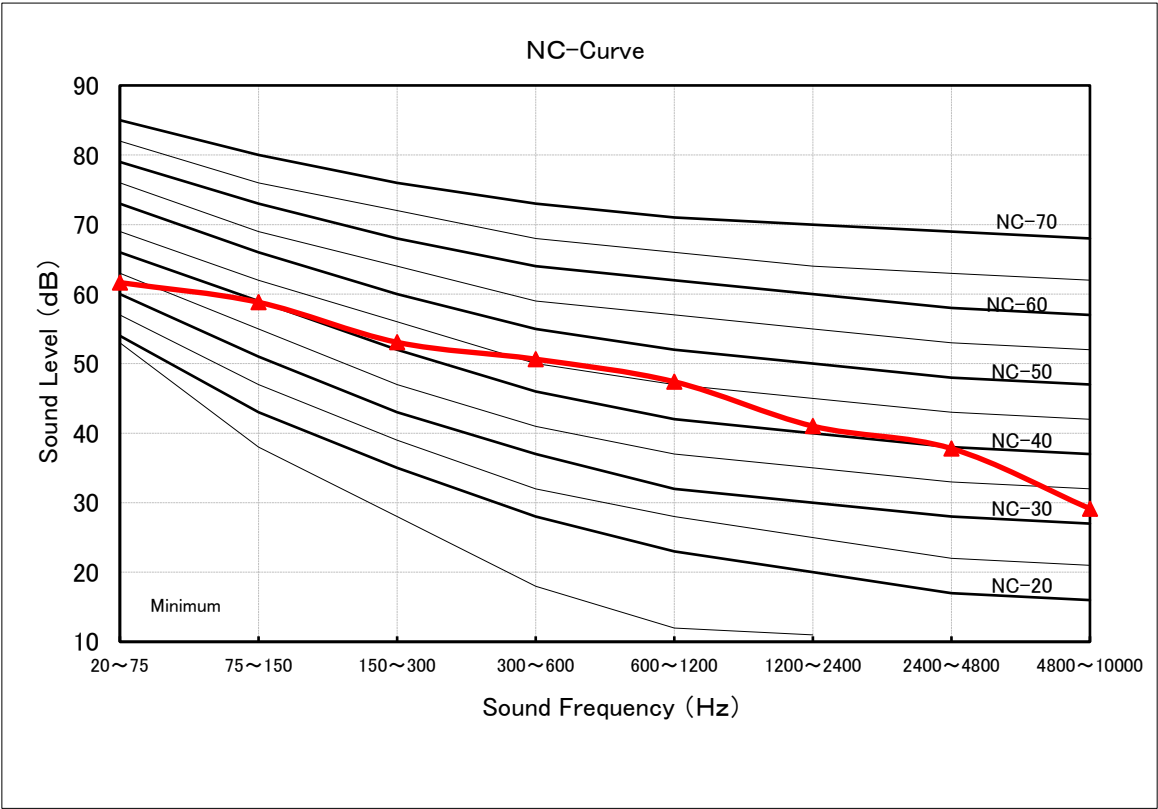


RAS-16J2AVSG-E/TR

Cooling

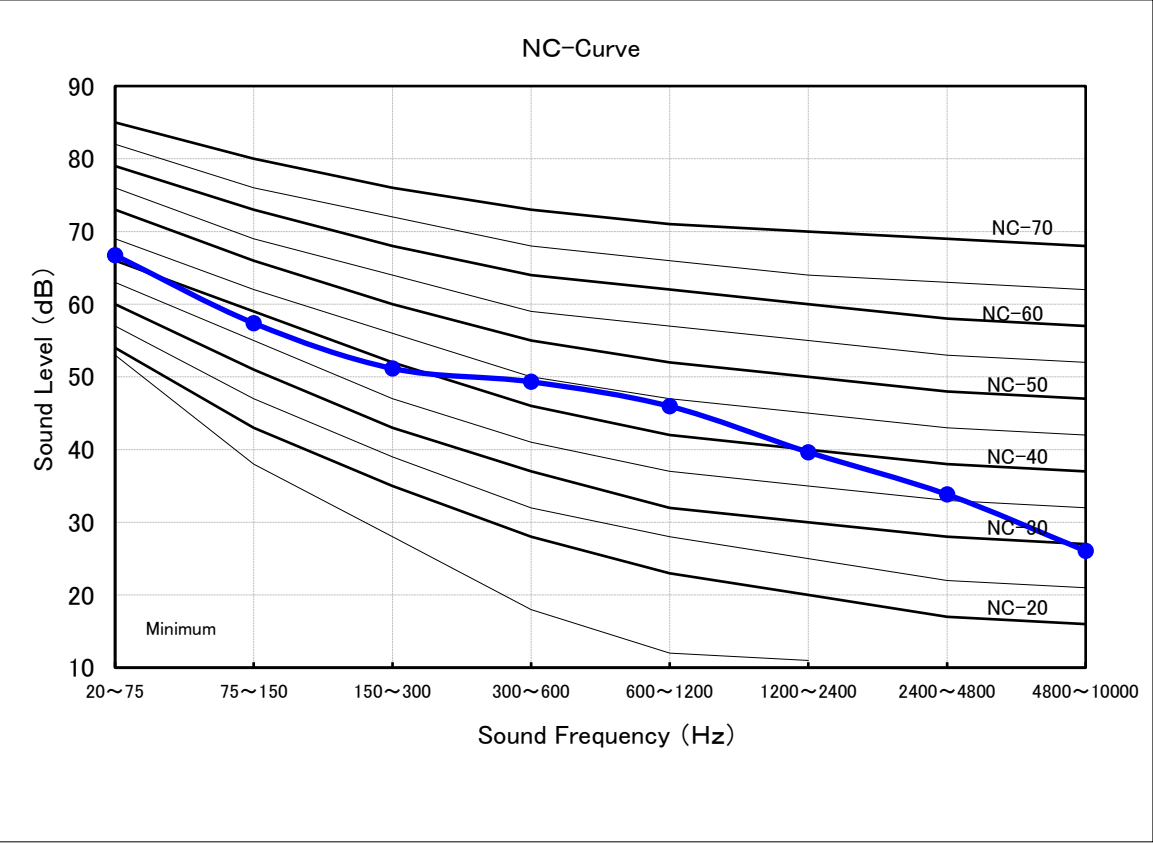


Heating

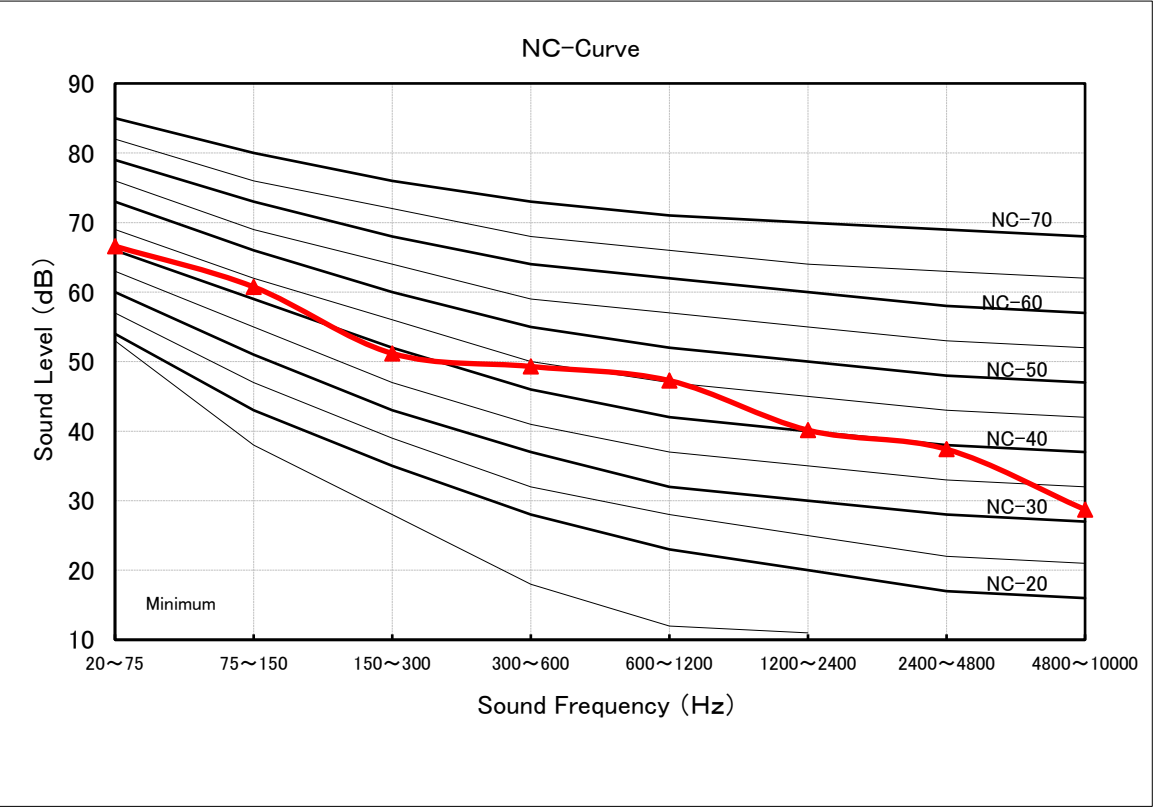


RAS-18J2AVSG-E/TR

Cooling

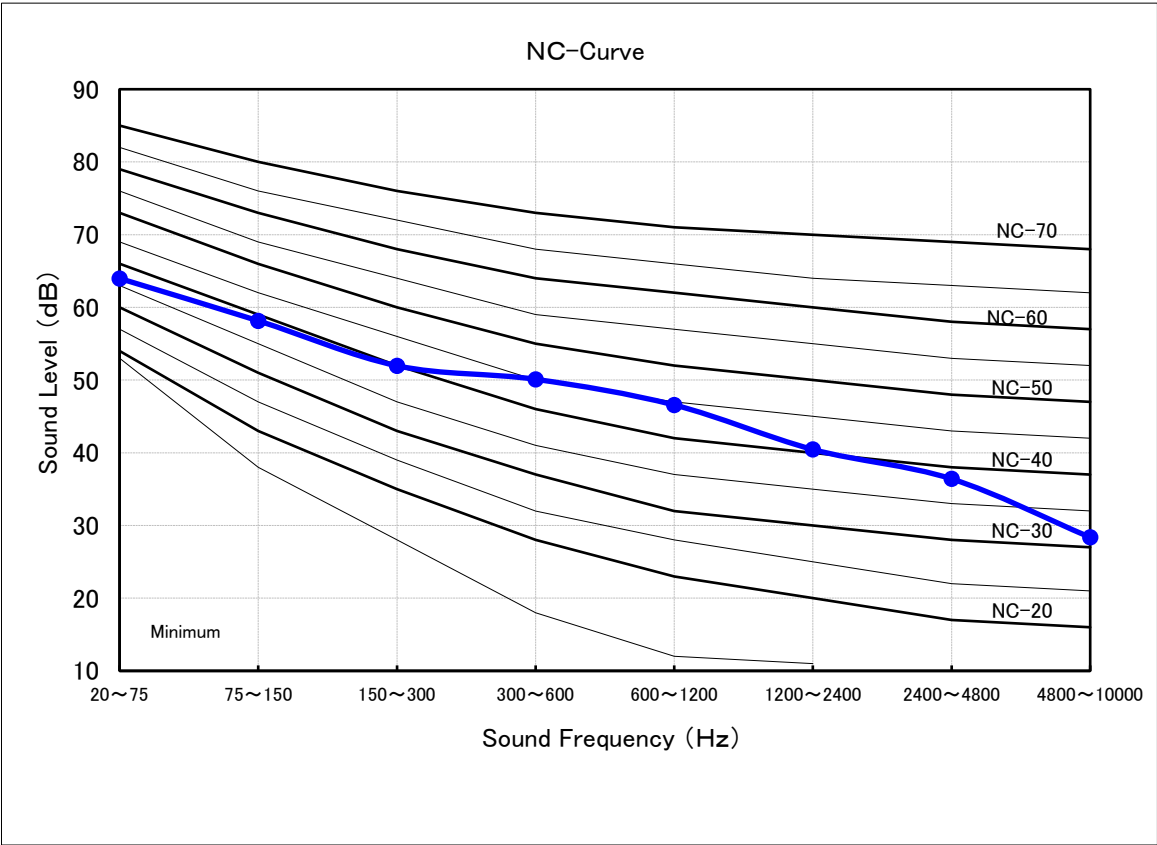


Heating

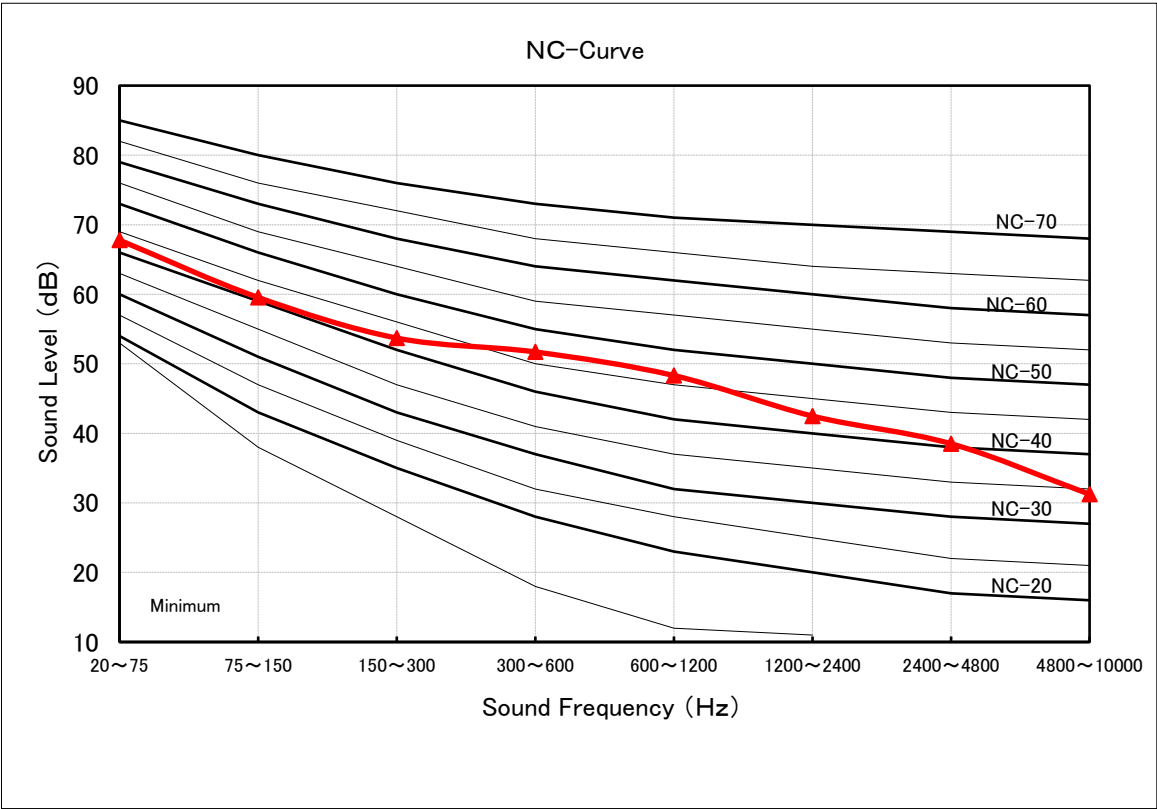


RAS-22J2AVSG-E/TR

Cooling

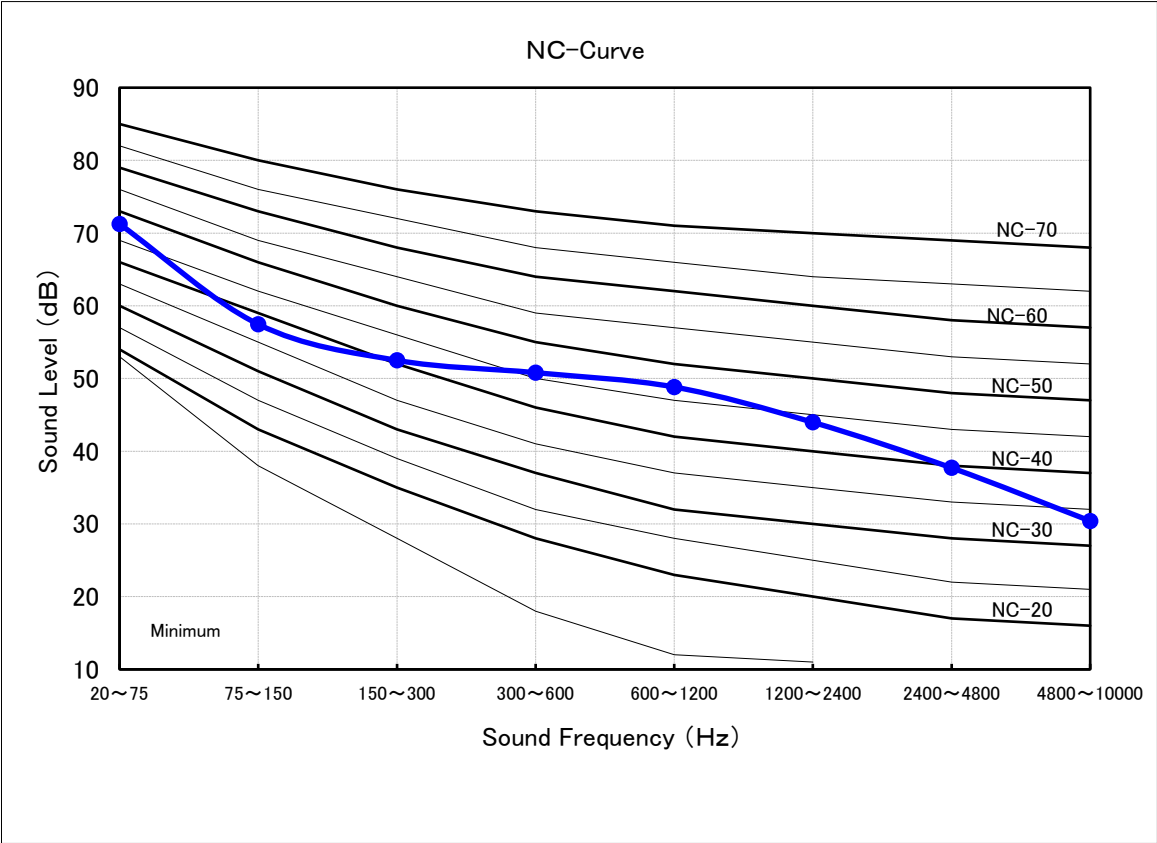


Heating

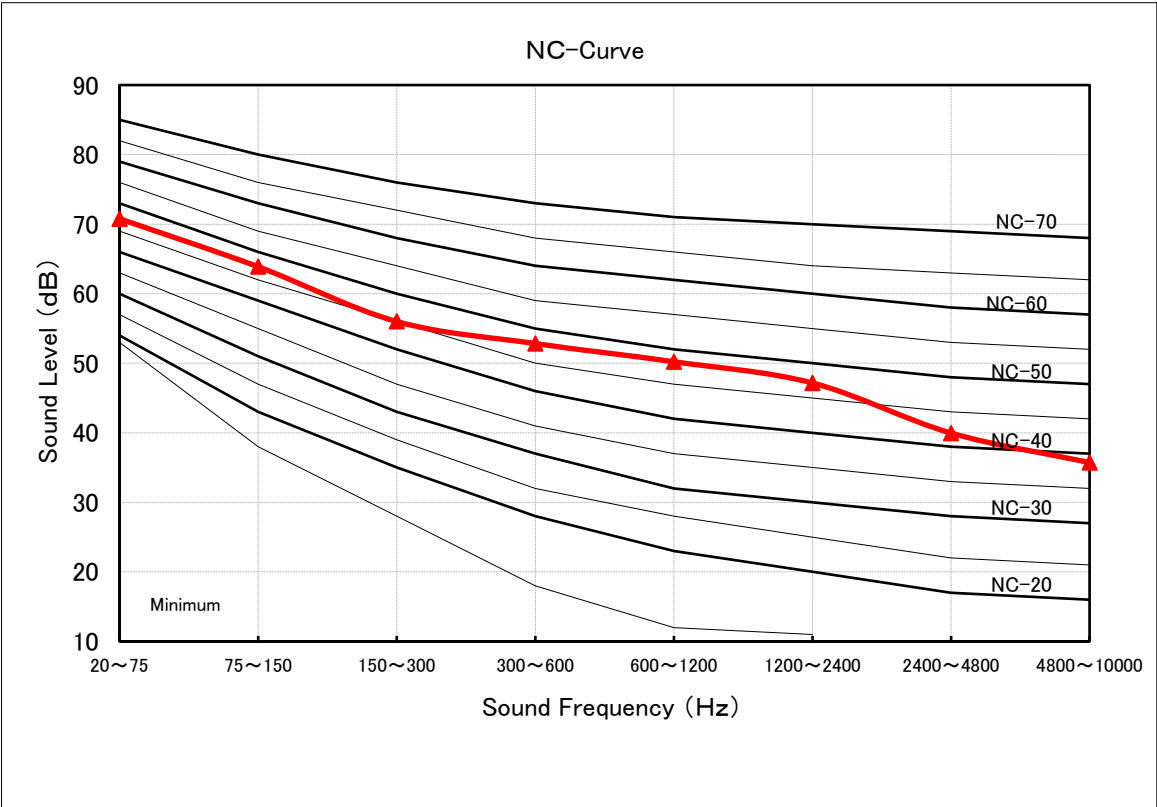


RAS-24J2AVSG-E/TR

Cooling



Heating



8. Capacity Table

Product models : RAS-B07J2KVSG-E / RAS-07J2KVSG-TR : RAS-07J2AVSG-E/TR
RAS-B07N4KVSG-E : RAS-07J2AVSG-E

Specification of product at standard condition

Standard Condition	Indoor	27°C (DB) / 19°C (WB)	Total Cooling Capacity (TC)	2.00	kW
	Outdoor	35°C (DB) / 24°C (WB)	Sensible Heat Capacity (SHC)	1.55	kW

Outdoor air temperature DB (°C)	Indoor air temperature													
	20.0°C (DB) 14.0°C (WB)		23.0°C (DB) 16.0°C (WB)		26.0°C (DB) 18.0°C (WB)		27.0°C (DB) 19.0°C (WB)		28.0°C (DB) 20.0°C (WB)		30.0°C (DB) 22.0°C (WB)		32.0°C (DB) 24.0°C (WB)	
	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
20	1.96	1.64	2.16	1.74	2.32	1.85	2.39	1.85	2.45	1.85	2.60	1.82	2.72	1.78
21	1.94	1.62	2.14	1.72	2.29	1.83	2.36	1.83	2.43	1.83	2.57	1.80	2.69	1.77
22	1.92	1.60	2.12	1.71	2.27	1.81	2.33	1.81	2.40	1.81	2.54	1.79	2.66	1.75
23	1.90	1.58	2.09	1.69	2.24	1.79	2.31	1.79	2.37	1.79	2.51	1.77	2.63	1.73
24	1.87	1.57	2.07	1.67	2.22	1.77	2.28	1.77	2.35	1.77	2.49	1.75	2.60	1.71
25	1.85	1.55	2.05	1.65	2.19	1.75	2.26	1.75	2.32	1.75	2.46	1.73	2.57	1.69
26	1.83	1.53	2.02	1.63	2.17	1.73	2.23	1.73	2.29	1.73	2.43	1.71	2.54	1.67
27	1.81	1.51	2.00	1.61	2.14	1.71	2.21	1.71	2.27	1.71	2.40	1.69	2.51	1.65
28	1.79	1.50	1.98	1.59	2.12	1.69	2.18	1.69	2.24	1.69	2.37	1.67	2.48	1.63
29	1.77	1.48	1.95	1.57	2.09	1.67	2.15	1.67	2.22	1.67	2.35	1.65	2.45	1.61
30	1.75	1.46	1.93	1.56	2.07	1.65	2.13	1.65	2.19	1.65	2.32	1.63	2.42	1.59
31	1.73	1.44	1.91	1.54	2.04	1.63	2.10	1.63	2.16	1.63	2.29	1.61	2.40	1.57
32	1.71	1.43	1.88	1.52	2.02	1.61	2.08	1.61	2.14	1.61	2.26	1.59	2.37	1.55
33	1.68	1.41	1.86	1.50	1.99	1.59	2.05	1.59	2.11	1.59	2.23	1.57	2.34	1.54
34	1.66	1.39	1.84	1.48	1.97	1.57	2.03	1.57	2.08	1.57	2.21	1.55	2.31	1.52
35	1.64	1.37	1.81	1.46	1.94	1.55	2.00	1.55	2.06	1.55	2.18	1.53	2.28	1.50
36	1.62	1.36	1.79	1.44	1.92	1.53	1.97	1.53	2.03	1.53	2.15	1.51	2.25	1.48
37	1.60	1.34	1.77	1.42	1.89	1.51	1.95	1.51	2.00	1.51	2.12	1.49	2.22	1.46
38	1.58	1.32	1.74	1.41	1.87	1.49	1.92	1.49	1.98	1.49	2.09	1.47	2.19	1.44
39	1.56	1.30	1.72	1.39	1.84	1.47	1.90	1.47	1.95	1.47	2.07	1.45	2.16	1.42
40	1.54	1.28	1.70	1.37	1.82	1.45	1.87	1.45	1.93	1.45	2.04	1.43	2.13	1.40
41	1.52	1.27	1.67	1.35	1.79	1.43	1.85	1.43	1.90	1.43	2.01	1.41	2.10	1.38
42	1.50	1.25	1.65	1.33	1.77	1.41	1.82	1.41	1.87	1.41	1.98	1.39	2.07	1.36
43	1.47	1.23	1.63	1.31	1.74	1.39	1.79	1.39	1.85	1.39	1.95	1.37	2.04	1.34
44	1.45	1.21	1.60	1.29	1.72	1.37	1.77	1.37	1.82	1.37	1.93	1.35	2.02	1.32
45	1.43	1.20	1.58	1.27	1.69	1.35	1.74	1.35	1.79	1.35	1.90	1.33	1.99	1.30
46	1.41	1.18	1.56	1.26	1.67	1.33	1.72	1.33	1.77	1.33	1.87	1.31	1.96	1.29

Product models : RAS-B10J2KVSG-E / RAS-10J2KVSG-TR : RAS-10J2AVSG-E/TR
RAS-B10N4VSG-E : RAS-10J2AVSG-E

Specification of product at standard condition

Standard Condition	Indoor	27°C (DB) / 19°C (WB)	Total Cooling Capacity (TC)	2.50	kW
	Outdoor	35°C (DB) / 24°C (WB)	Sensible Heat Capacity (SHC)	2.00	kW

Outdoor air temperature DB (°C)	Indoor air temperature													
	20.0°C (DB) 14.0°C (WB)		23.0°C (DB) 16.0°C (WB)		26.0°C (DB) 18.0°C (WB)		27.0°C (DB) 19.0°C (WB)		28.0°C (DB) 20.0°C (WB)		30.0°C (DB) 22.0°C (WB)		32.0°C (DB) 24.0°C (WB)	
	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
20	2.45	2.11	2.70	2.25	2.90	2.39	2.98	2.39	3.07	2.38	3.25	2.36	3.40	2.32
21	2.42	2.09	2.68	2.22	2.86	2.36	2.95	2.36	3.03	2.36	3.21	2.34	3.36	2.29
22	2.40	2.06	2.65	2.20	2.83	2.34	2.92	2.33	3.00	2.33	3.18	2.31	3.32	2.27
23	2.37	2.04	2.62	2.17	2.80	2.31	2.89	2.31	2.97	2.31	3.14	2.29	3.29	2.24
24	2.34	2.02	2.59	2.15	2.77	2.29	2.85	2.28	2.93	2.28	3.11	2.26	3.25	2.22
25	2.32	1.99	2.56	2.13	2.74	2.26	2.82	2.26	2.90	2.26	3.07	2.23	3.21	2.19
26	2.29	1.97	2.53	2.10	2.71	2.23	2.79	2.23	2.87	2.23	3.04	2.21	3.18	2.17
27	2.26	1.95	2.50	2.08	2.68	2.21	2.76	2.21	2.84	2.20	3.00	2.18	3.14	2.14
28	2.24	1.93	2.47	2.05	2.65	2.18	2.72	2.18	2.80	2.18	2.97	2.16	3.10	2.12
29	2.21	1.90	2.44	2.03	2.62	2.16	2.69	2.15	2.77	2.15	2.93	2.13	3.07	2.09
30	2.19	1.88	2.41	2.01	2.58	2.13	2.66	2.13	2.74	2.13	2.90	2.11	3.03	2.07
31	2.16	1.86	2.38	1.98	2.55	2.11	2.63	2.10	2.70	2.10	2.86	2.08	2.99	2.04
32	2.13	1.84	2.36	1.96	2.52	2.08	2.60	2.08	2.67	2.08	2.83	2.06	2.96	2.02
33	2.11	1.81	2.33	1.93	2.49	2.05	2.56	2.05	2.64	2.05	2.79	2.03	2.92	1.99
34	2.08	1.79	2.30	1.91	2.46	2.03	2.53	2.03	2.60	2.02	2.76	2.01	2.88	1.97
35	2.05	1.77	2.27	1.88	2.43	2.00	2.50	2.00	2.57	2.00	2.72	1.98	2.85	1.94
36	2.03	1.74	2.24	1.86	2.40	1.98	2.47	1.97	2.54	1.97	2.69	1.95	2.81	1.92
37	2.00	1.72	2.21	1.84	2.37	1.95	2.44	1.95	2.51	1.95	2.65	1.93	2.78	1.89
38	1.97	1.70	2.18	1.81	2.34	1.93	2.40	1.92	2.47	1.92	2.62	1.90	2.74	1.87
39	1.95	1.68	2.15	1.79	2.30	1.90	2.37	1.90	2.44	1.90	2.58	1.88	2.70	1.84
40	1.92	1.65	2.12	1.76	2.27	1.87	2.34	1.87	2.41	1.87	2.55	1.85	2.67	1.82
41	1.90	1.63	2.09	1.74	2.24	1.85	2.31	1.85	2.37	1.84	2.51	1.83	2.63	1.79
42	1.87	1.61	2.06	1.72	2.21	1.82	2.28	1.82	2.34	1.82	2.48	1.80	2.59	1.77
43	1.84	1.59	2.03	1.69	2.18	1.80	2.24	1.79	2.31	1.79	2.44	1.78	2.56	1.74
44	1.82	1.56	2.01	1.67	2.15	1.77	2.21	1.77	2.27	1.77	2.41	1.75	2.52	1.72
45	1.79	1.54	1.98	1.64	2.12	1.75	2.18	1.74	2.24	1.74	2.37	1.73	2.48	1.69
46	1.76	1.52	1.95	1.62	2.09	1.72	2.15	1.72	2.21	1.72	2.34	1.70	2.45	1.67

Product models : RAS-B13J2KVSG-E / RAS-13J2KVSG-TR : RAS-13J2AVSG-E/TR
RAS-B13N4KVSG-E : RAS-13J2AVSG-E

Specification of product at standard condition

Standard Condition	Indoor	27°C (DB) / 19°C (WB)	Total Cooling Capacity (TC)	3.50	kW
	Outdoor	35°C (DB) / 24°C (WB)	Sensible Heat Capacity (SHC)	2.70	kW

Outdoor air temperature DB (°C)	Indoor air temperature													
	20.0°C (DB) 14.0°C (WB)		23.0°C (DB) 16.0°C (WB)		26.0°C (DB) 18.0°C (WB)		27.0°C (DB) 19.0°C (WB)		28.0°C (DB) 20.0°C (WB)		30.0°C (DB) 22.0°C (WB)		32.0°C (DB) 24.0°C (WB)	
	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
20	3.43	2.85	3.79	3.04	4.05	3.23	4.17	3.22	4.29	3.21	4.55	3.18	4.76	3.11
21	3.39	2.82	3.75	3.01	4.01	3.19	4.13	3.19	4.25	3.18	4.50	3.14	4.70	3.07
22	3.35	2.79	3.70	2.97	3.97	3.16	4.08	3.15	4.20	3.15	4.45	3.11	4.65	3.04
23	3.32	2.76	3.66	2.94	3.92	3.12	4.04	3.12	4.15	3.11	4.40	3.07	4.60	3.01
24	3.28	2.73	3.62	2.91	3.88	3.09	3.99	3.08	4.11	3.08	4.35	3.04	4.55	2.97
25	3.24	2.70	3.58	2.87	3.84	3.06	3.95	3.05	4.06	3.04	4.30	3.01	4.50	2.94
26	3.21	2.67	3.54	2.84	3.79	3.02	3.90	3.01	4.02	3.01	4.25	2.97	4.45	2.91
27	3.17	2.64	3.50	2.81	3.75	2.99	3.86	2.98	3.97	2.97	4.20	2.94	4.40	2.87
28	3.13	2.61	3.46	2.78	3.71	2.95	3.81	2.94	3.92	2.94	4.16	2.90	4.35	2.84
29	3.10	2.58	3.42	2.74	3.66	2.92	3.77	2.91	3.88	2.90	4.11	2.87	4.29	2.81
30	3.06	2.55	3.38	2.71	3.62	2.88	3.72	2.87	3.83	2.87	4.06	2.83	4.24	2.77
31	3.02	2.52	3.34	2.68	3.57	2.85	3.68	2.84	3.78	2.83	4.01	2.80	4.19	2.74
32	2.99	2.48	3.30	2.65	3.53	2.81	3.63	2.80	3.74	2.80	3.96	2.77	4.14	2.71
33	2.95	2.45	3.26	2.61	3.49	2.78	3.59	2.77	3.69	2.76	3.91	2.73	4.09	2.67
34	2.91	2.42	3.22	2.58	3.44	2.74	3.54	2.73	3.65	2.73	3.86	2.70	4.04	2.64
35	2.87	2.39	3.17	2.55	3.40	2.71	3.50	2.70	3.60	2.70	3.81	2.66	3.99	2.61
36	2.84	2.36	3.13	2.51	3.36	2.67	3.46	2.67	3.55	2.66	3.76	2.63	3.94	2.57
37	2.80	2.33	3.09	2.48	3.31	2.64	3.41	2.63	3.51	2.63	3.71	2.60	3.89	2.54
38	2.76	2.30	3.05	2.45	3.27	2.60	3.37	2.60	3.46	2.59	3.67	2.56	3.83	2.50
39	2.73	2.27	3.01	2.42	3.23	2.57	3.32	2.56	3.42	2.56	3.62	2.53	3.78	2.47
40	2.69	2.24	2.97	2.38	3.18	2.53	3.28	2.53	3.37	2.52	3.57	2.49	3.73	2.44
41	2.65	2.21	2.93	2.35	3.14	2.50	3.23	2.49	3.32	2.49	3.52	2.46	3.68	2.40
42	2.62	2.18	2.89	2.32	3.09	2.46	3.19	2.46	3.28	2.45	3.47	2.42	3.63	2.37
43	2.58	2.15	2.85	2.29	3.05	2.43	3.14	2.42	3.23	2.42	3.42	2.39	3.58	2.34
44	2.54	2.12	2.81	2.25	3.01	2.40	3.10	2.39	3.18	2.38	3.37	2.36	3.53	2.30
45	2.51	2.09	2.77	2.22	2.96	2.36	3.05	2.35	3.14	2.35	3.32	2.32	3.48	2.27
46	2.47	2.05	2.73	2.19	2.92	2.33	3.01	2.32	3.09	2.31	3.27	2.29	3.42	2.24

Product models : RAS-B16J2KVSG-E / RAS-16J2KVSG-TR : RAS-16J2AVSG-E/TR
RAS-B16N4KVSG-E : RAS-16J2AVSG-E

Specification of product at standard condition

Standard Condition	Indoor	27°C (DB) / 19°C (WB)	Total Cooling Capacity (TC)	4.60	kW
	Outdoor	35°C (DB) / 24°C (WB)	Sensible Heat Capacity (SHC)	3.50	kW

Outdoor air temperature DB (°C)	Indoor air temperature													
	20.0°C (DB) 14.0°C (WB)		23.0°C (DB) 16.0°C (WB)		26.0°C (DB) 18.0°C (WB)		27.0°C (DB) 19.0°C (WB)		28.0°C (DB) 20.0°C (WB)		30.0°C (DB) 22.0°C (WB)		32.0°C (DB) 24.0°C (WB)	
	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
20	4.51	3.70	4.98	3.94	5.33	4.19	5.49	4.17	5.64	4.17	5.98	4.11	6.25	4.02
21	4.46	3.66	4.92	3.90	5.27	4.14	5.43	4.13	5.58	4.12	5.91	4.07	6.18	3.97
22	4.41	3.62	4.87	3.86	5.21	4.10	5.37	4.08	5.52	4.08	5.85	4.02	6.12	3.93
23	4.36	3.58	4.82	3.81	5.16	4.05	5.31	4.04	5.46	4.03	5.78	3.98	6.05	3.89
24	4.31	3.54	4.76	3.77	5.10	4.01	5.25	3.99	5.40	3.99	5.72	3.93	5.98	3.84
25	4.26	3.50	4.71	3.73	5.04	3.96	5.19	3.95	5.34	3.94	5.65	3.89	5.91	3.80
26	4.21	3.46	4.65	3.69	4.98	3.92	5.13	3.90	5.28	3.90	5.59	3.85	5.85	3.76
27	4.17	3.42	4.60	3.64	4.93	3.87	5.07	3.86	5.22	3.85	5.53	3.80	5.78	3.71
28	4.12	3.38	4.55	3.60	4.87	3.83	5.01	3.81	5.16	3.81	5.46	3.76	5.71	3.67
29	4.07	3.34	4.49	3.56	4.81	3.78	4.95	3.77	5.10	3.76	5.40	3.71	5.64	3.63
30	4.02	3.30	4.44	3.52	4.76	3.74	4.90	3.72	5.04	3.72	5.33	3.67	5.58	3.58
31	3.97	3.26	4.39	3.47	4.70	3.69	4.84	3.68	4.97	3.67	5.27	3.62	5.51	3.54
32	3.92	3.22	4.33	3.43	4.64	3.65	4.78	3.63	4.91	3.63	5.20	3.58	5.44	3.50
33	3.88	3.18	4.28	3.39	4.58	3.60	4.72	3.59	4.85	3.58	5.14	3.54	5.38	3.46
34	3.83	3.14	4.23	3.35	4.53	3.56	4.66	3.54	4.79	3.54	5.08	3.49	5.31	3.41
35	3.78	3.10	4.17	3.30	4.47	3.51	4.60	3.50	4.73	3.49	5.01	3.45	5.24	3.37
36	3.73	3.06	4.12	3.26	4.41	3.47	4.54	3.46	4.67	3.45	4.95	3.40	5.17	3.33
37	3.68	3.02	4.07	3.22	4.35	3.42	4.48	3.41	4.61	3.40	4.88	3.36	5.11	3.28
38	3.63	2.99	4.01	3.18	4.30	3.38	4.42	3.37	4.55	3.36	4.82	3.32	5.04	3.24
39	3.58	2.95	3.96	3.13	4.24	3.33	4.36	3.32	4.49	3.31	4.75	3.27	4.97	3.20
40	3.51	2.90	3.90	3.08	4.18	3.30	4.30	3.30	4.43	3.30	4.69	3.27	4.91	3.17
41	3.46	2.86	3.85	3.04	4.13	3.26	4.25	3.26	4.38	3.26	4.64	3.23	4.86	3.13
42	3.41	2.82	3.80	3.00	4.08	3.22	4.20	3.22	4.33	3.22	4.59	3.20	4.81	3.09
43	3.36	2.78	3.75	2.96	4.03	3.18	4.15	3.18	4.28	3.18	4.54	3.16	4.76	3.05
44	3.31	2.74	3.70	2.92	3.98	3.14	4.10	3.14	4.23	3.14	4.49	3.12	4.71	3.01
45	3.26	2.70	3.65	2.88	3.93	3.10	4.05	3.10	4.18	3.10	4.44	3.09	4.66	2.97
46	3.21	2.66	3.60	2.84	3.88	3.06	4.00	3.06	4.13	3.06	4.39	3.06	4.61	2.93

Product models : RAS-18J2KVSG-E / RAS-18J2KVSG-TR : RAS-18J2AVSG-E/TR
RAS-18N4KVSG-E : RAS-18J2AVSG-E

Specification of product at standard condition

Standard Condition	Indoor	27°C (DB) / 19°C (WB)	Total Cooling Capacity (TC)	5.00 kW
	Outdoor	35°C (DB) / 24°C (WB)	Sensible Heat Capacity (SHC)	3.50 kW

Outdoor air temperature DB (°C)	Indoor air temperature													
	20.0°C (DB) 14.0°C (WB)		23.0°C (DB) 16.0°C (WB)		26.0°C (DB) 18.0°C (WB)		27.0°C (DB) 19.0°C (WB)		28.0°C (DB) 20.0°C (WB)		30.0°C (DB) 22.0°C (WB)		32.0°C (DB) 24.0°C (WB)	
	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
20	4.90	3.73	5.41	3.95	5.79	4.20	5.96	4.17	6.13	4.15	6.49	4.07	6.79	3.95
21	4.84	3.69	5.35	3.91	5.73	4.15	5.90	4.13	6.07	4.11	6.43	4.03	6.72	3.91
22	4.79	3.65	5.29	3.87	5.67	4.11	5.83	4.08	6.00	4.06	6.36	3.99	6.65	3.87
23	4.74	3.61	5.23	3.83	5.60	4.06	5.77	4.04	5.94	4.02	6.29	3.94	6.57	3.83
24	4.69	3.57	5.18	3.78	5.54	4.02	5.71	3.99	5.87	3.98	6.22	3.90	6.50	3.78
25	4.63	3.53	5.12	3.74	5.48	3.97	5.64	3.95	5.80	3.93	6.15	3.85	6.43	3.74
26	4.58	3.49	5.06	3.70	5.42	3.93	5.58	3.90	5.74	3.89	6.08	3.81	6.35	3.70
27	4.53	3.45	5.00	3.66	5.36	3.88	5.51	3.86	5.67	3.84	6.01	3.77	6.28	3.66
28	4.48	3.41	4.94	3.61	5.29	3.84	5.45	3.81	5.61	3.80	5.94	3.72	6.21	3.61
29	4.42	3.37	4.88	3.57	5.23	3.79	5.39	3.77	5.54	3.75	5.87	3.68	6.14	3.57
30	4.37	3.33	4.83	3.53	5.17	3.75	5.32	3.72	5.47	3.71	5.80	3.64	6.06	3.53
31	4.32	3.29	4.77	3.49	5.11	3.70	5.26	3.68	5.41	3.66	5.73	3.59	5.99	3.48
32	4.27	3.24	4.71	3.44	5.04	3.66	5.19	3.63	5.34	3.62	5.66	3.55	5.92	3.44
33	4.21	3.20	4.65	3.40	4.98	3.61	5.13	3.59	5.28	3.57	5.59	3.50	5.84	3.40
34	4.16	3.16	4.59	3.36	4.92	3.57	5.06	3.54	5.21	3.53	5.52	3.46	5.77	3.36
35	4.11	3.12	4.54	3.32	4.86	3.52	5.00	3.50	5.14	3.48	5.45	3.42	5.70	3.31
36	4.05	3.08	4.48	3.27	4.79	3.48	4.94	3.46	5.08	3.44	5.38	3.37	5.62	3.27
37	4.00	3.04	4.42	3.23	4.73	3.43	4.87	3.41	5.01	3.39	5.31	3.33	5.55	3.23
38	3.95	3.00	4.36	3.19	4.67	3.39	4.81	3.37	4.94	3.35	5.24	3.28	5.48	3.19
39	3.90	2.96	4.30	3.15	4.61	3.34	4.74	3.32	4.88	3.30	5.17	3.24	5.40	3.14
40	3.84	2.92	4.24	3.10	4.55	3.30	4.68	3.28	4.81	3.26	5.10	3.20	5.33	3.10
41	3.79	2.88	4.19	3.06	4.48	3.25	4.62	3.23	4.75	3.22	5.03	3.15	5.26	3.06
42	3.74	2.84	4.13	3.02	4.42	3.20	4.55	3.19	4.68	3.17	4.96	3.11	5.18	3.02
43	3.66	2.79	4.05	2.96	4.33	3.14	4.46	3.12	4.59	3.11	4.86	3.05	5.08	2.96
44	3.56	2.71	3.94	2.88	4.22	3.06	4.34	3.04	4.46	3.02	4.73	2.96	4.94	2.88
45	3.23	2.46	3.56	2.61	3.82	2.77	3.93	2.75	4.04	2.74	4.28	2.68	4.48	2.61
46	3.14	2.39	3.47	2.54	3.71	2.69	3.82	2.68	3.93	2.66	4.17	2.61	4.36	2.54

Product models : RAS-B22J2KVSG-E / RAS-22J2KVSG-TR : RAS-22J2AVSG-E/TR
RAS-B22N4KVSG-E : RAS-22J2AVSG-E

Specification of product at standard condition

Standard Condition	Indoor	27°C (DB) / 19°C (WB)	Total Cooling Capacity (TC)	6.10 kW
	Outdoor	35°C (DB) / 24°C (WB)	Sensible Heat Capacity (SHC)	4.15 kW

Outdoor air temperature DB (°C)	Indoor air temperature													
	20.0°C (DB) 14.0°C (WB)		23.0°C (DB) 16.0°C (WB)		26.0°C (DB) 18.0°C (WB)		27.0°C (DB) 19.0°C (WB)		28.0°C (DB) 20.0°C (WB)		30.0°C (DB) 22.0°C (WB)		32.0°C (DB) 24.0°C (WB)	
	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
20	5.98	4.43	6.60	4.69	7.07	4.98	7.27	4.95	7.48	4.92	7.92	4.81	8.29	4.66
21	5.91	4.38	6.53	4.64	6.99	4.93	7.20	4.90	7.40	4.87	7.84	4.76	8.20	4.61
22	5.85	4.33	6.46	4.59	6.91	4.88	7.12	4.84	7.32	4.81	7.75	4.71	8.11	4.56
23	5.78	4.29	6.39	4.54	6.84	4.82	7.04	4.79	7.24	4.76	7.67	4.66	8.02	4.51
24	5.72	4.24	6.31	4.49	6.76	4.77	6.96	4.74	7.16	4.71	7.58	4.61	7.93	4.46
25	5.65	4.19	6.24	4.44	6.69	4.72	6.88	4.68	7.08	4.66	7.50	4.55	7.84	4.41
26	5.59	4.14	6.17	4.39	6.61	4.66	6.80	4.63	7.00	4.60	7.41	4.50	7.75	4.36
27	5.52	4.09	6.10	4.34	6.53	4.61	6.73	4.58	6.92	4.55	7.33	4.45	7.66	4.31
28	5.46	4.05	6.03	4.29	6.46	4.55	6.65	4.52	6.84	4.50	7.24	4.40	7.57	4.26
29	5.40	4.00	5.96	4.24	6.38	4.50	6.57	4.47	6.76	4.44	7.16	4.35	7.48	4.21
30	5.33	3.95	5.89	4.19	6.31	4.45	6.49	4.42	6.68	4.39	7.07	4.30	7.40	4.16
31	5.27	3.90	5.82	4.14	6.23	4.39	6.41	4.36	6.60	4.34	6.99	4.24	7.31	4.11
32	5.20	3.86	5.75	4.09	6.15	4.34	6.33	4.31	6.52	4.29	6.90	4.19	7.22	4.06
33	5.14	3.81	5.68	4.04	6.08	4.29	6.26	4.26	6.44	4.23	6.82	4.14	7.13	4.01
34	5.07	3.76	5.60	3.99	6.00	4.23	6.18	4.20	6.35	4.18	6.73	4.09	7.04	3.96
35	5.01	3.71	5.53	3.94	5.93	4.18	6.10	4.15	6.27	4.13	6.64	4.04	6.95	3.91
36	4.95	3.67	5.46	3.89	5.85	4.13	6.02	4.10	6.19	4.07	6.56	3.99	6.86	3.86
37	4.88	3.62	5.39	3.83	5.77	4.07	5.94	4.04	6.11	4.02	6.47	3.93	6.77	3.81
38	4.82	3.57	5.32	3.78	5.70	4.02	5.87	3.99	6.03	3.97	6.39	3.88	6.68	3.76
39	4.75	3.52	5.25	3.73	5.62	3.96	5.79	3.94	5.95	3.91	6.30	3.83	6.59	3.71
40	3.53	2.62	3.90	2.77	4.18	2.95	4.30	2.93	4.42	2.91	4.68	2.85	4.90	2.75
41	3.44	2.55	3.80	2.70	4.07	2.87	4.18	2.85	4.30	2.83	4.56	2.77	4.77	2.68
42	3.35	2.48	3.69	2.63	3.96	2.79	4.07	2.77	4.19	2.76	4.44	2.70	4.64	2.61
43	3.26	2.41	3.60	2.56	3.85	2.72	3.96	2.70	4.08	2.68	4.32	2.62	4.52	2.54
44	3.17	2.35	3.50	2.49	3.75	2.64	3.86	2.62	3.97	2.61	4.20	2.55	4.39	2.47
45	2.87	2.13	3.17	2.25	3.39	2.39	3.49	2.38	3.59	2.36	3.81	2.31	3.98	2.24
46	2.79	2.07	3.08	2.19	3.30	2.33	3.40	2.31	3.50	2.30	3.70	2.25	3.87	2.18

Product models : RAS-B24J2KVSG-E / RAS-24J2KVSG-TR : RAS-24J2AVSG-E/TR
RAS-B24N4KVSG-E : RAS-24J2AVSG-E

Specification of product at standard condition

Standard Condition	Indoor	27°C (DB) / 19°C (WB)	Total Cooling Capacity (TC)	7.00 kW
	Outdoor	35°C (DB) / 24°C (WB)	Sensible Heat Capacity (SHC)	4.60 kW

Outdoor air temperature DB (°C)	Indoor air temperature													
	20.0°C (DB) 14.0°C (WB)		23.0°C (DB) 16.0°C (WB)		26.0°C (DB) 18.0°C (WB)		27.0°C (DB) 19.0°C (WB)		28.0°C (DB) 20.0°C (WB)		30.0°C (DB) 22.0°C (WB)		32.0°C (DB) 24.0°C (WB)	
	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
20	6.86	4.92	7.57	5.21	8.11	5.53	8.35	5.49	8.59	5.45	9.09	5.31	9.51	5.13
21	6.78	4.87	7.49	5.15	8.02	5.47	8.26	5.43	8.49	5.39	9.00	5.26	9.41	5.07
22	6.71	4.82	7.41	5.10	7.93	5.41	8.17	5.37	8.40	5.33	8.90	5.20	9.31	5.02
23	6.64	4.76	7.33	5.04	7.85	5.35	8.08	5.31	8.31	5.27	8.80	5.14	9.20	4.96
24	6.56	4.71	7.25	4.99	7.76	5.29	7.99	5.25	8.22	5.21	8.70	5.08	9.10	4.91
25	6.49	4.66	7.16	4.93	7.67	5.23	7.90	5.19	8.12	5.15	8.60	5.03	9.00	4.85
26	6.41	4.60	7.08	4.87	7.59	5.17	7.81	5.13	8.03	5.10	8.51	4.97	8.90	4.80
27	6.34	4.55	7.00	4.82	7.50	5.11	7.72	5.07	7.94	5.04	8.41	4.91	8.79	4.74
28	6.27	4.50	6.92	4.76	7.41	5.06	7.63	5.01	7.85	4.98	8.31	4.86	8.69	4.69
29	6.19	4.45	6.84	4.71	7.32	5.00	7.54	4.95	7.75	4.92	8.21	4.80	8.59	4.63
30	6.12	4.39	6.76	4.65	7.24	4.94	7.45	4.90	7.66	4.86	8.11	4.74	8.49	4.57
31	6.04	4.34	6.68	4.59	7.15	4.88	7.36	4.84	7.57	4.80	8.02	4.68	8.38	4.52
32	5.97	4.29	6.59	4.54	7.06	4.82	7.27	4.78	7.48	4.74	7.92	4.63	8.28	4.46
33	5.90	4.23	6.51	4.48	6.97	4.76	7.18	4.72	7.39	4.69	7.82	4.57	8.18	4.41
34	5.82	4.18	6.43	4.43	6.89	4.70	7.09	4.66	7.29	4.63	7.72	4.51	8.08	4.35
35	5.75	4.13	6.35	4.37	6.80	4.64	7.00	4.60	7.20	4.57	7.63	4.46	7.98	4.30
36	5.68	4.08	6.27	4.31	6.71	4.58	6.91	4.54	7.11	4.51	7.53	4.40	7.87	4.24
37	5.60	4.02	6.19	4.26	6.63	4.52	6.82	4.48	7.02	4.45	7.43	4.34	7.77	4.19
38	5.53	3.97	6.11	4.20	6.54	4.46	6.73	4.42	6.92	4.39	7.33	4.28	7.67	4.13
39	5.45	3.92	6.02	4.15	6.45	4.40	6.64	4.36	6.83	4.33	7.23	4.23	7.57	4.08
40	4.43	3.18	4.89	3.37	5.24	3.57	5.39	3.54	5.55	3.52	5.88	3.43	6.15	3.31
41	4.31	3.10	4.76	3.28	5.10	3.48	5.25	3.45	5.40	3.43	5.72	3.34	5.98	3.22
42	4.20	3.01	4.64	3.19	4.96	3.39	5.11	3.36	5.26	3.33	5.57	3.25	5.82	3.14
43	4.08	2.93	4.51	3.10	4.83	3.30	4.97	3.27	5.12	3.25	5.42	3.17	5.67	3.05
44	3.98	2.85	4.39	3.02	4.70	3.21	4.84	3.18	4.98	3.16	5.27	3.08	5.51	2.97
45	3.69	2.65	4.08	2.81	4.37	2.98	4.50	2.96	4.63	2.94	4.90	2.86	5.12	2.76
46	3.60	2.58	3.97	2.73	4.25	2.90	4.38	2.88	4.50	2.86	4.77	2.79	4.99	2.69

10. Performance Characteristic

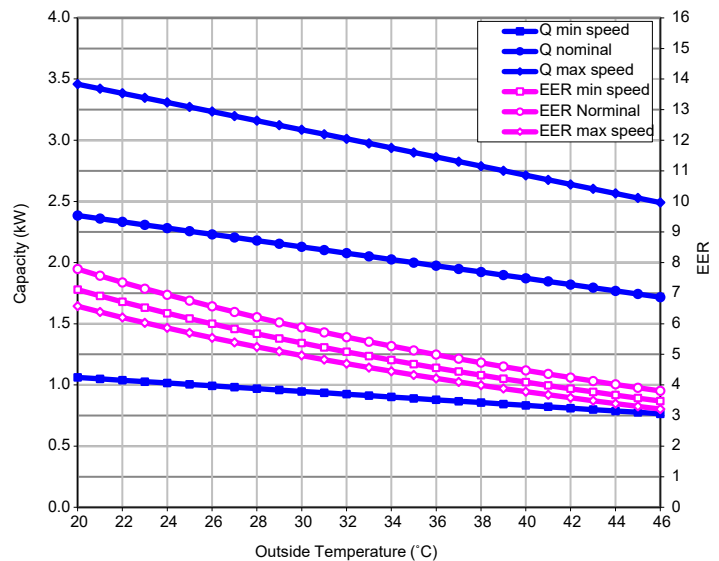
Model : RAS-B07J2KVSG-E / RAS-07J2KVSG-TR : RAS-07J2AVSG-E/TR
RAS-B07N4KVSG-E : RAS-07J2AVSG-E

Product specification :

Condition		Capacity (kW)	Power (kW)	EER/COP
Cooling JIS In: 27 °C DB/19°C WB Out: 35°C DB/24°C WB	Min	0.89	0.19	4.68
	Rated	2.00	0.39	5.13
	Max	2.90	0.67	4.33
Heating JIS In: 20 °C DB/15°C WB Out: 7°C DB/6°C WB	Min	0.90	0.16	5.63
	Rated	2.50	0.50	5.00
	Max	3.60	0.80	4.50
Heating Low Temp. In: 20 °C DB/15°C WB Out: 2°C DB/1°C WB	Max	2.50	0.75	3.33
Heating Low Temp. In: 20 °C DB/15°C WB Out: -10°C DB	Max	2.00	0.700	2.86
Heating Low Temp. In: 20 °C DB/15°C WB Out: -15°C DB	Max	1.70	0.650	2.62

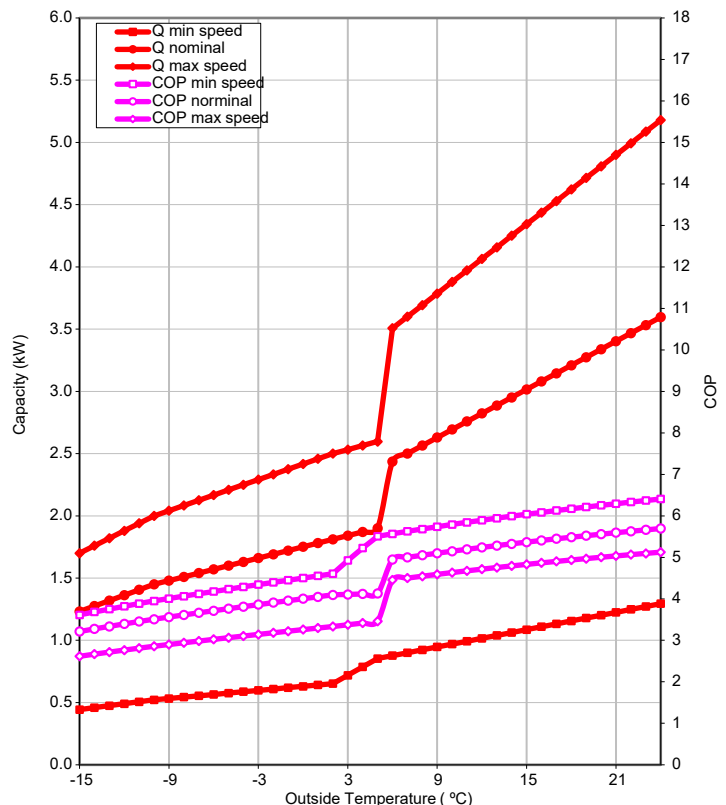
Cooling performance characteristic :

Outside Temp (°C)	Min capacity			Nominal capacity			Max capacity		
	Capacity (kW)	Power (kW)	EER (-)	Capacity (kW)	Power (kW)	EER (-)	Capacity (kW)	Power (kW)	EER (-)
20	1.06	0.15	7.12	2.39	0.31	7.79	3.46	0.53	6.58
21	1.05	0.15	6.91	2.36	0.31	7.57	3.42	0.54	6.39
22	1.04	0.15	6.72	2.33	0.32	7.35	3.38	0.55	6.21
23	1.03	0.16	6.53	2.31	0.32	7.15	3.35	0.55	6.03
24	1.02	0.16	6.35	2.28	0.33	6.95	3.31	0.56	5.86
25	1.00	0.16	6.17	2.26	0.33	6.75	3.27	0.57	5.70
26	0.99	0.17	6.00	2.23	0.34	6.57	3.23	0.58	5.54
27	0.98	0.17	5.83	2.21	0.35	6.39	3.20	0.59	5.39
28	0.97	0.17	5.67	2.18	0.35	6.21	3.16	0.60	5.24
29	0.96	0.17	5.52	2.15	0.36	6.04	3.12	0.61	5.10
30	0.95	0.18	5.37	2.13	0.36	5.88	3.09	0.62	4.96
31	0.94	0.18	5.22	2.10	0.37	5.72	3.05	0.63	4.83
32	0.92	0.18	5.08	2.08	0.37	5.56	3.01	0.64	4.70
33	0.91	0.18	4.95	2.05	0.38	5.42	2.97	0.65	4.57
34	0.90	0.19	4.81	2.03	0.38	5.27	2.94	0.66	4.45
35	0.89	0.19	4.68	2.00	0.39	5.13	2.90	0.67	4.33
36	0.88	0.19	4.56	1.97	0.40	4.99	2.86	0.68	4.21
37	0.87	0.20	4.44	1.95	0.40	4.86	2.83	0.69	4.10
38	0.86	0.20	4.32	1.92	0.41	4.73	2.79	0.70	3.99
39	0.84	0.20	4.20	1.90	0.41	4.60	2.75	0.71	3.88
40	0.83	0.20	4.09	1.87	0.42	4.48	2.71	0.72	3.78
41	0.82	0.21	3.98	1.85	0.42	4.36	2.68	0.73	3.68
42	0.81	0.21	3.87	1.82	0.43	4.24	2.64	0.74	3.58
43	0.80	0.21	3.77	1.79	0.43	4.13	2.60	0.75	3.48
44	0.79	0.21	3.67	1.77	0.44	4.02	2.57	0.76	3.39
45	0.78	0.22	3.57	1.74	0.45	3.91	2.53	0.77	3.30
46	0.76	0.22	3.48	1.72	0.45	3.80	2.49	0.78	3.21



Heating performance characteristic :

Outside Temp (°C)	Min capacity			Nominal capacity			Max capacity		
	Capacity (kW)	Power (kW)	COP (-)	Capacity (kW)	Power (kW)	COP (-)	Capacity (kW)	Power (kW)	COP (-)
-15	0.44	0.12	3.61	1.23	0.38	3.21	1.70	0.65	2.62
-14	0.46	0.12	3.68	1.28	0.39	3.28	1.76	0.66	2.67
-13	0.47	0.13	3.75	1.32	0.40	3.34	1.82	0.67	2.72
-12	0.49	0.13	3.82	1.36	0.40	3.40	1.88	0.68	2.76
-11	0.51	0.13	3.89	1.41	0.41	3.45	1.94	0.69	2.81
-10	0.52	0.13	3.95	1.45	0.41	3.51	2.00	0.70	2.86
-9	0.53	0.13	4.01	1.48	0.42	3.56	2.04	0.70	2.90
-8	0.54	0.13	4.06	1.51	0.42	3.61	2.08	0.71	2.94
-7	0.55	0.13	4.12	1.54	0.42	3.66	2.13	0.71	2.98
-6	0.57	0.14	4.18	1.57	0.42	3.71	2.17	0.72	3.02
-5	0.58	0.14	4.23	1.60	0.43	3.76	2.21	0.72	3.06
-4	0.59	0.14	4.29	1.63	0.43	3.81	2.25	0.73	3.10
-3	0.60	0.14	4.34	1.66	0.43	3.86	2.29	0.73	3.14
-2	0.61	0.14	4.40	1.69	0.43	3.91	2.33	0.73	3.18
-1	0.62	0.14	4.45	1.72	0.44	3.96	2.38	0.74	3.22
0	0.63	0.14	4.50	1.75	0.44	4.00	2.42	0.74	3.26
1	0.64	0.14	4.55	1.78	0.44	4.05	2.46	0.75	3.30
2	0.65	0.14	4.61	1.81	0.44	4.09	2.50	0.75	3.33
3	0.72	0.15	4.92	1.84	0.45	4.11	2.53	0.75	3.37
4	0.79	0.15	5.22	1.87	0.45	4.12	2.56	0.75	3.42
5	0.85	0.16	5.51	1.90	0.46	4.13	2.60	0.75	3.46
6	0.88	0.16	5.57	2.44	0.49	4.95	3.51	0.79	4.45
7	0.90	0.16	5.63	2.50	0.50	5.00	3.60	0.80	4.50
8	0.92	0.16	5.68	2.56	0.51	5.05	3.69	0.81	4.55
9	0.95	0.16	5.74	2.63	0.52	5.10	3.79	0.82	4.59
10	0.97	0.17	5.79	2.69	0.52	5.15	3.88	0.84	4.63
11	0.99	0.17	5.84	2.76	0.53	5.19	3.97	0.85	4.67
12	1.02	0.17	5.89	2.82	0.54	5.24	4.06	0.86	4.72
13	1.04	0.17	5.94	2.89	0.55	5.28	4.16	0.87	4.76
14	1.06	0.18	5.99	2.95	0.55	5.33	4.25	0.89	4.79
15	1.09	0.18	6.04	3.02	0.56	5.37	4.34	0.90	4.83
16	1.11	0.18	6.08	3.08	0.57	5.41	4.44	0.91	4.87
17	1.13	0.18	6.13	3.15	0.58	5.45	4.53	0.92	4.90
18	1.16	0.19	6.17	3.21	0.59	5.49	4.62	0.94	4.94
19	1.18	0.19	6.21	3.27	0.59	5.52	4.71	0.95	4.97
20	1.20	0.19	6.25	3.34	0.60	5.56	4.81	0.96	5.00
21	1.23	0.19	6.29	3.40	0.61	5.59	4.90	0.97	5.03
22	1.25	0.20	6.33	3.47	0.62	5.63	4.99	0.99	5.07
23	1.27	0.20	6.37	3.53	0.62	5.66	5.09	1.00	5.10
24	1.29	0.20	6.41	3.60	0.63	5.69	5.18	1.01	5.13



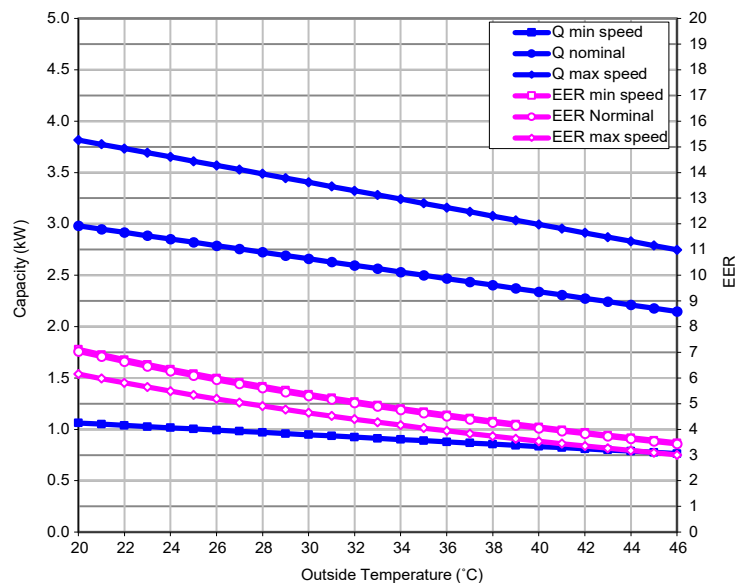
Model : RAS-B10J2KVSG-E / RAS-10J2KVSG-TR : RAS-10J2AVSG-E/TR
RAS-B10N4KVSG-E : RAS-10J2AVSG-E

Product specification :

Condition		Capacity (kW)	Power (kW)	EER/COP
Cooling JIS In: 27 °C DB/19°C WB Out: 35°C DB/24°C WB	Min	0.89	0.19	4.68
	Rated	2.50	0.54	4.63
	Max	3.20	0.79	4.05
Heating JIS In: 20 °C DB/15°C WB Out: 7°C DB/6°C WB	Min	0.90	0.16	5.63
	Rated	3.20	0.70	4.57
	Max	4.80	1.23	3.90
Heating Low Temp. In: 20 °C DB/15°C WB Out: 2°C DB/1°C WB	Max	3.50	1.00	3.50
Heating Low Temp. In: 20 °C DB/15°C WB Out: -10 °C DB	Max	2.30	0.750	3.07
Heating Low Temp. In: 20 °C DB/15°C WB Out: -15 °C DB	Max	1.80	0.670	2.69

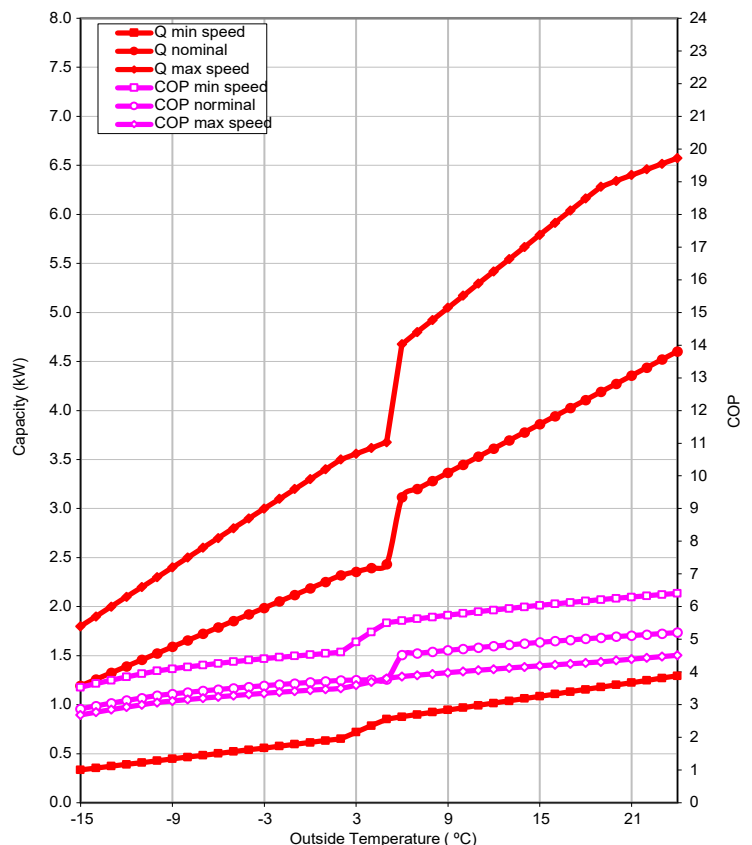
Cooling performance characteristic :

Outside Temp (°C)	Min capacity			Nominal capacity			Max capacity		
	Capacity (kW)	Power (kW)	EER (-)	Capacity (kW)	Power (kW)	EER (-)	Capacity (kW)	Power (kW)	EER (-)
20	1.06	0.15	7.12	2.98	0.42	7.03	3.82	0.62	6.15
21	1.05	0.15	6.91	2.95	0.43	6.83	3.77	0.63	5.98
22	1.04	0.15	6.72	2.92	0.44	6.64	3.73	0.64	5.81
23	1.03	0.16	6.53	2.89	0.45	6.45	3.69	0.65	5.65
24	1.02	0.16	6.35	2.85	0.45	6.27	3.65	0.67	5.49
25	1.00	0.16	6.17	2.82	0.46	6.10	3.61	0.68	5.34
26	0.99	0.17	6.00	2.79	0.47	5.93	3.57	0.69	5.19
27	0.98	0.17	5.83	2.76	0.48	5.77	3.53	0.70	5.04
28	0.97	0.17	5.67	2.72	0.49	5.61	3.49	0.71	4.91
29	0.96	0.17	5.52	2.69	0.49	5.46	3.45	0.72	4.77
30	0.95	0.18	5.37	2.66	0.50	5.31	3.41	0.73	4.64
31	0.94	0.18	5.22	2.63	0.51	5.16	3.36	0.74	4.52
32	0.92	0.18	5.08	2.60	0.52	5.02	3.32	0.76	4.40
33	0.91	0.18	4.95	2.56	0.52	4.89	3.28	0.77	4.28
34	0.90	0.19	4.81	2.53	0.53	4.76	3.24	0.78	4.16
35	0.89	0.19	4.68	2.50	0.54	4.63	3.20	0.79	4.05
36	0.88	0.19	4.56	2.47	0.55	4.51	3.16	0.80	3.94
37	0.87	0.20	4.44	2.44	0.56	4.39	3.12	0.81	3.84
38	0.86	0.20	4.32	2.40	0.56	4.27	3.08	0.82	3.73
39	0.84	0.20	4.20	2.37	0.57	4.15	3.04	0.84	3.63
40	0.83	0.20	4.09	2.34	0.58	4.04	2.99	0.85	3.54
41	0.82	0.21	3.98	2.31	0.59	3.93	2.95	0.86	3.44
42	0.81	0.21	3.87	2.28	0.59	3.83	2.91	0.87	3.35
43	0.80	0.21	3.77	2.24	0.60	3.73	2.87	0.88	3.26
44	0.79	0.21	3.67	2.21	0.61	3.63	2.83	0.89	3.17
45	0.78	0.22	3.57	2.18	0.62	3.53	2.79	0.90	3.09
46	0.76	0.22	3.48	2.15	0.63	3.43	2.75	0.91	3.01



Heating performance characteristic :

Outside Temp (°C)	Min capacity			Nominal capacity			Max capacity		
	Capacity (kW)	Power (kW)	COP (-)	Capacity (kW)	Power (kW)	COP (-)	Capacity (kW)	Power (kW)	COP (-)
-15	0.34	0.09	3.54	1.19	0.42	2.87	1.80	0.67	2.69
-14	0.35	0.10	3.64	1.26	0.42	2.96	1.90	0.69	2.77
-13	0.37	0.10	3.75	1.33	0.43	3.05	2.00	0.70	2.85
-12	0.39	0.10	3.85	1.39	0.44	3.13	2.10	0.72	2.92
-11	0.41	0.10	3.94	1.46	0.45	3.21	2.20	0.73	3.00
-10	0.43	0.11	4.04	1.52	0.46	3.28	2.30	0.75	3.07
-9	0.45	0.11	4.10	1.59	0.48	3.33	2.40	0.77	3.11
-8	0.47	0.11	4.16	1.66	0.49	3.38	2.50	0.79	3.16
-7	0.48	0.12	4.21	1.72	0.50	3.42	2.60	0.81	3.20
-6	0.50	0.12	4.26	1.79	0.52	3.47	2.70	0.83	3.24
-5	0.52	0.12	4.31	1.86	0.53	3.51	2.80	0.85	3.28
-4	0.54	0.12	4.36	1.92	0.54	3.54	2.90	0.88	3.31
-3	0.56	0.13	4.41	1.99	0.55	3.58	3.00	0.90	3.35
-2	0.58	0.13	4.45	2.05	0.57	3.62	3.10	0.92	3.38
-1	0.60	0.13	4.49	2.12	0.58	3.65	3.20	0.94	3.41
0	0.61	0.14	4.53	2.19	0.59	3.68	3.30	0.96	3.44
1	0.63	0.14	4.57	2.25	0.61	3.71	3.40	0.98	3.47
2	0.65	0.14	4.61	2.32	0.62	3.74	3.50	1.00	3.50
3	0.72	0.15	4.92	2.36	0.63	3.75	3.56	0.99	3.60
4	0.79	0.15	5.22	2.39	0.64	3.76	3.62	0.98	3.70
5	0.85	0.16	5.51	2.43	0.64	3.77	3.68	0.97	3.80
6	0.88	0.16	5.57	3.12	0.69	4.52	4.68	1.21	3.86
7	0.90	0.16	5.63	3.20	0.70	4.57	4.80	1.23	3.90
8	0.92	0.16	5.68	3.28	0.71	4.62	4.92	1.25	3.94
9	0.95	0.16	5.74	3.37	0.72	4.66	5.05	1.27	3.98
10	0.97	0.17	5.79	3.45	0.73	4.71	5.17	1.29	4.02
11	0.99	0.17	5.84	3.53	0.74	4.75	5.30	1.31	4.05
12	1.02	0.17	5.89	3.61	0.75	4.79	5.42	1.33	4.09
13	1.04	0.17	5.94	3.70	0.77	4.83	5.54	1.34	4.12
14	1.06	0.18	5.99	3.78	0.78	4.87	5.67	1.36	4.16
15	1.09	0.18	6.04	3.86	0.79	4.91	5.79	1.38	4.19
16	1.11	0.18	6.08	3.94	0.80	4.94	5.91	1.40	4.22
17	1.13	0.18	6.13	4.03	0.81	4.98	6.04	1.42	4.25
18	1.16	0.19	6.17	4.11	0.82	5.01	6.16	1.44	4.28
19	1.18	0.19	6.21	4.19	0.83	5.05	6.28	1.46	4.31
20	1.20	0.19	6.25	4.27	0.84	5.08	6.34	1.46	4.35
21	1.23	0.19	6.29	4.36	0.85	5.11	6.40	1.46	4.39
22	1.25	0.20	6.33	4.44	0.86	5.15	6.46	1.46	4.43
23	1.27	0.20	6.37	4.52	0.87	5.18	6.52	1.46	4.47
24	1.29	0.20	6.41	4.60	0.88	5.21	6.57	1.46	4.51



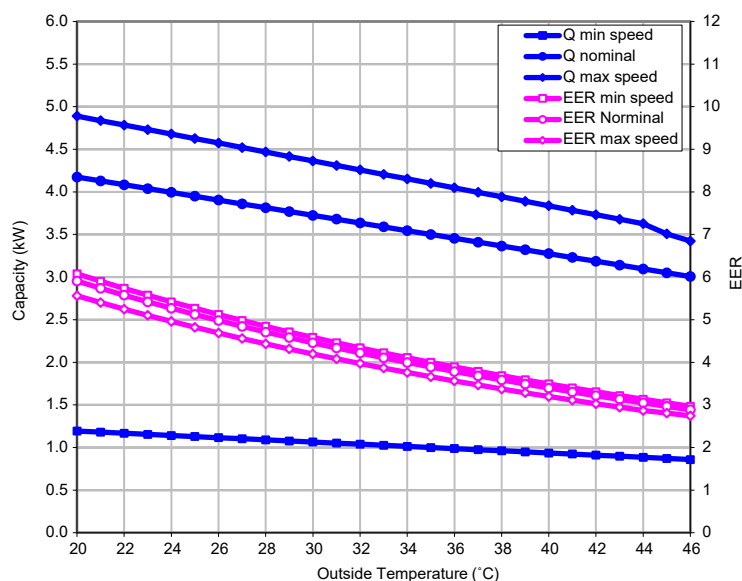
Model : RAS-B13J2KVSG-E / RAS-13J2KVSG-TR : RAS-13J2AVSG-E/TR
RAS-B13N4KVSG-E : RAS-13J2AVSG-E

Product specification :

Condition		Capacity (kW)	Power (kW)	EER/COP
Cooling JIS In: 27 °C DB/19°C WB Out: 35°C DB/24°C WB	Min	1.00	0.25	4.00
	Rated	3.50	0.90	3.89
	Max	4.10	1.12	3.66
Heating JIS In: 20 °C DB/15°C WB Out: 7°C DB/6°C WB	Min	1.00	0.20	5.00
	Rated	4.20	1.08	3.89
	Max	5.30	1.55	3.42
Heating Low Temp. In: 20 °C DB/15°C WB Out: 2°C DB/1°C WB	Max	3.90	1.30	3.00
Heating Low Temp. In: 20 °C DB/15°C WB Out: -10°C DB	Max	2.80	1.050	2.67
Heating Low Temp. In: 20 °C DB/15°C WB Out: -15°C DB	Max	2.20	0.850	2.59

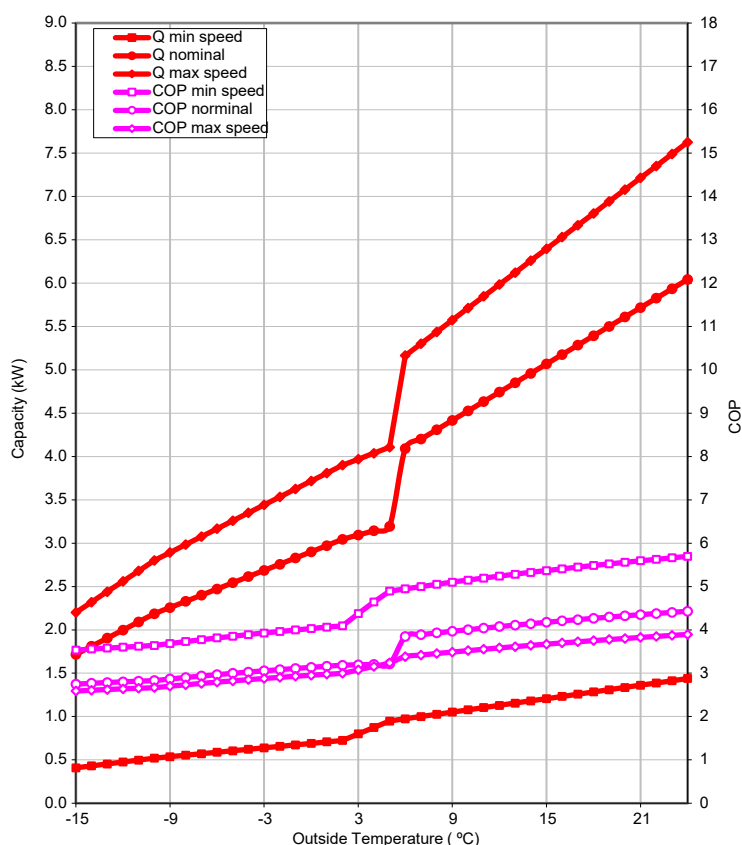
Cooling performance characteristic :

Outside Temp (°C)	Min capacity			Nominal capacity			Max capacity		
	Capacity (kW)	Power (kW)	EER (-)	Capacity (kW)	Power (kW)	EER (-)	Capacity (kW)	Power (kW)	EER (-)
20	1.19	0.20	6.08	4.17	0.71	5.91	4.89	0.88	5.56
21	1.18	0.20	5.90	4.13	0.72	5.74	4.84	0.90	5.40
22	1.17	0.20	5.74	4.08	0.73	5.58	4.78	0.91	5.25
23	1.15	0.21	5.57	4.04	0.75	5.42	4.73	0.93	5.10
24	1.14	0.21	5.42	3.99	0.76	5.27	4.68	0.94	4.96
25	1.13	0.21	5.27	3.95	0.77	5.12	4.63	0.96	4.82
26	1.12	0.22	5.12	3.90	0.78	4.98	4.57	0.98	4.69
27	1.10	0.22	4.98	3.86	0.80	4.84	4.52	0.99	4.56
28	1.09	0.22	4.85	3.81	0.81	4.71	4.47	1.01	4.43
29	1.08	0.23	4.71	3.77	0.82	4.58	4.42	1.02	4.31
30	1.06	0.23	4.59	3.72	0.84	4.46	4.36	1.04	4.20
31	1.05	0.24	4.46	3.68	0.85	4.34	4.31	1.06	4.08
32	1.04	0.24	4.34	3.63	0.86	4.22	4.26	1.07	3.97
33	1.03	0.24	4.22	3.59	0.87	4.11	4.21	1.09	3.87
34	1.01	0.25	4.11	3.54	0.89	4.00	4.15	1.10	3.76
35	1.00	0.25	4.00	3.50	0.90	3.89	4.10	1.12	3.66
36	0.99	0.25	3.89	3.46	0.91	3.78	4.05	1.14	3.56
37	0.97	0.26	3.79	3.41	0.93	3.68	3.99	1.15	3.47
38	0.96	0.26	3.69	3.37	0.94	3.59	3.94	1.17	3.37
39	0.95	0.26	3.59	3.32	0.95	3.49	3.89	1.18	3.28
40	0.94	0.27	3.49	3.28	0.96	3.40	3.84	1.20	3.20
41	0.92	0.27	3.40	3.23	0.98	3.31	3.78	1.22	3.11
42	0.91	0.28	3.31	3.19	0.99	3.22	3.73	1.23	3.03
43	0.90	0.28	3.22	3.14	1.00	3.13	3.68	1.25	2.95
44	0.88	0.28	3.13	3.10	1.02	3.05	3.63	1.26	2.87
45	0.87	0.29	3.05	3.05	1.03	2.96	3.51	1.25	2.81
46	0.86	0.29	2.97	3.01	1.04	2.89	3.42	1.25	2.74



Heating performance characteristic :

Outside Temp (°C)	Min capacity			Nominal capacity			Max capacity		
	Capacity (kW)	Power (kW)	COP (-)	Capacity (kW)	Power (kW)	COP (-)	Capacity (kW)	Power (kW)	COP (-)
-15	0.41	0.12	3.53	1.72	0.62	2.75	2.20	0.85	2.59
-14	0.43	0.12	3.56	1.81	0.65	2.77	2.32	0.89	2.61
-13	0.45	0.13	3.58	1.90	0.68	2.78	2.44	0.93	2.62
-12	0.48	0.13	3.60	2.00	0.71	2.80	2.56	0.97	2.64
-11	0.50	0.14	3.62	2.09	0.74	2.82	2.68	1.01	2.65
-10	0.52	0.14	3.64	2.19	0.77	2.83	2.80	1.05	2.67
-9	0.54	0.15	3.69	2.26	0.79	2.87	2.89	1.07	2.70
-8	0.55	0.15	3.73	2.33	0.80	2.90	2.98	1.09	2.73
-7	0.57	0.15	3.77	2.40	0.82	2.93	3.08	1.11	2.76
-6	0.59	0.15	3.81	2.47	0.83	2.97	3.17	1.13	2.79
-5	0.61	0.16	3.85	2.54	0.85	3.00	3.26	1.15	2.82
-4	0.62	0.16	3.89	2.61	0.86	3.03	3.35	1.18	2.85
-3	0.64	0.16	3.93	2.69	0.88	3.05	3.44	1.20	2.88
-2	0.66	0.17	3.96	2.76	0.89	3.08	3.53	1.22	2.90
-1	0.67	0.17	4.00	2.83	0.91	3.11	3.63	1.24	2.93
0	0.69	0.17	4.03	2.90	0.93	3.14	3.72	1.26	2.95
1	0.71	0.17	4.06	2.97	0.94	3.16	3.81	1.28	2.98
2	0.72	0.18	4.09	3.04	0.96	3.18	3.90	1.30	3.00
3	0.80	0.18	4.38	3.09	0.97	3.19	3.97	1.29	3.08
4	0.87	0.19	4.64	3.14	0.98	3.20	4.04	1.28	3.16
5	0.95	0.19	4.89	3.19	0.99	3.21	4.11	1.27	3.24
6	0.97	0.20	4.95	4.09	1.06	3.85	5.16	1.53	3.38
7	1.00	0.20	5.00	4.20	1.08	3.89	5.30	1.55	3.42
8	1.03	0.20	5.05	4.31	1.10	3.93	5.44	1.57	3.45
9	1.05	0.21	5.10	4.42	1.11	3.97	5.57	1.60	3.49
10	1.08	0.21	5.15	4.53	1.13	4.00	5.71	1.62	3.52
11	1.10	0.21	5.19	4.63	1.15	4.04	5.85	1.65	3.55
12	1.13	0.22	5.24	4.74	1.16	4.08	5.98	1.67	3.58
13	1.15	0.22	5.28	4.85	1.18	4.11	6.12	1.69	3.61
14	1.18	0.22	5.33	4.96	1.20	4.14	6.26	1.72	3.64
15	1.21	0.22	5.37	5.07	1.21	4.17	6.39	1.74	3.67
16	1.23	0.23	5.41	5.18	1.23	4.21	6.53	1.77	3.70
17	1.26	0.23	5.45	5.28	1.25	4.24	6.67	1.79	3.72
18	1.28	0.23	5.49	5.39	1.26	4.27	6.80	1.81	3.75
19	1.31	0.24	5.52	5.50	1.28	4.30	6.94	1.84	3.78
20	1.34	0.24	5.56	5.61	1.30	4.32	7.08	1.86	3.80
21	1.36	0.24	5.59	5.72	1.31	4.35	7.21	1.89	3.83
22	1.39	0.25	5.63	5.83	1.33	4.38	7.35	1.91	3.85
23	1.41	0.25	5.66	5.93	1.35	4.40	7.49	1.93	3.87
24	1.44	0.25	5.69	6.04	1.36	4.43	7.63	1.96	3.89



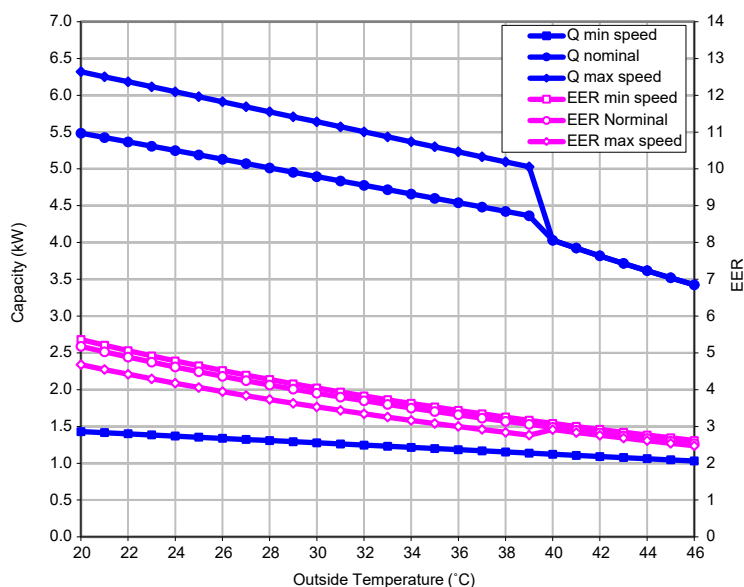
Model : RAS-B16J2KVSG-E / RAS-16J2KVSG-TR : RAS-16J2AVSG-E/TR
RAS-B16N4KVSG-E : RAS-16J2AVSG-E

Product specification :

Condition		Capacity (kW)	Power (kW)	EER/COP
Cooling JIS In: 27 °C DB/19°C WB Out: 35°C DB/24°C WB	Min	1.20	0.34	3.53
	Rated	4.60	1.35	3.41
	Max	5.30	1.72	3.08
Heating JIS In: 20 °C DB/15°C WB Out: 7 °C DB/6°C WB	Min	1.10	0.24	4.58
	Rated	5.50	1.52	3.62
	Max	6.50	1.90	3.42
Heating Low Temp. In: 20 °C DB/15°C WB Out: 2 °C DB/1°C WB	Max	4.50	1.60	2.81
Heating Low Temp. In: 20 °C DB/15°C WB Out: -10 °C DB	Max	3.30	1.400	2.36
Heating Low Temp. In: 20 °C DB/15°C WB Out: -15 °C DB	Max	2.70	1.200	2.25

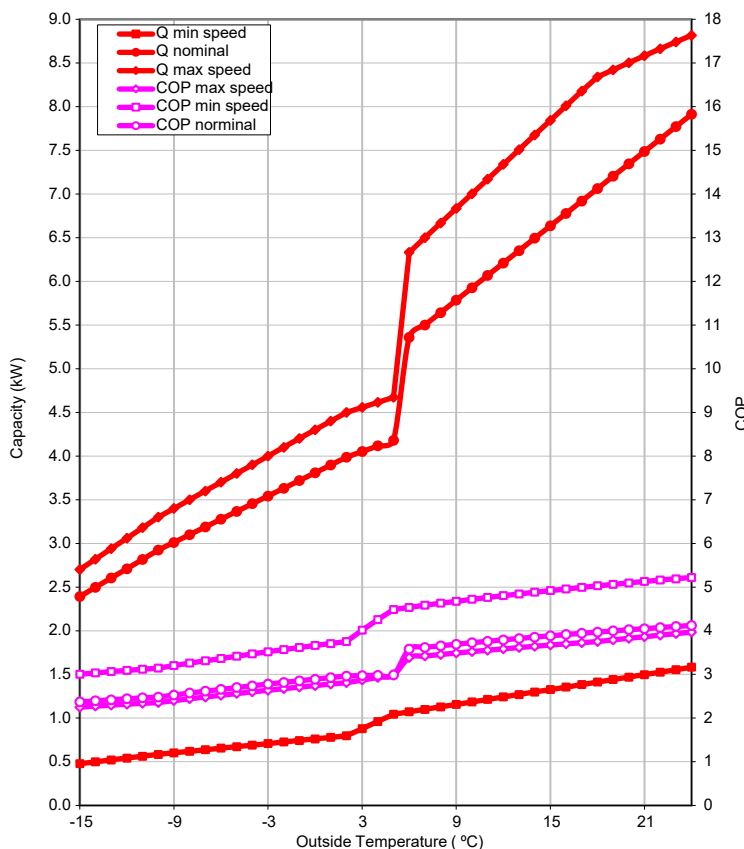
Cooling performance characteristic :

Outside Temp (°C)	Min capacity			Nominal capacity			Max capacity		
	Capacity (kW)	Power (kW)	EER (-)	Capacity (kW)	Power (kW)	EER (-)	Capacity (kW)	Power (kW)	EER (-)
20	1.43	0.27	5.36	5.49	1.06	5.18	6.32	1.35	4.68
21	1.42	0.27	5.21	5.43	1.08	5.03	6.25	1.37	4.55
22	1.40	0.28	5.06	5.37	1.10	4.89	6.18	1.40	4.42
23	1.38	0.28	4.92	5.31	1.12	4.75	6.12	1.42	4.29
24	1.37	0.29	4.78	5.25	1.14	4.62	6.05	1.45	4.17
25	1.35	0.29	4.65	5.19	1.16	4.49	5.98	1.47	4.06
26	1.34	0.30	4.52	5.13	1.18	4.36	5.91	1.50	3.95
27	1.32	0.30	4.40	5.07	1.20	4.24	5.84	1.52	3.84
28	1.31	0.31	4.28	5.01	1.21	4.13	5.78	1.55	3.73
29	1.29	0.31	4.16	4.95	1.23	4.02	5.71	1.57	3.63
30	1.28	0.32	4.05	4.90	1.25	3.91	5.64	1.60	3.53
31	1.26	0.32	3.94	4.84	1.27	3.80	5.57	1.62	3.44
32	1.25	0.33	3.83	4.78	1.29	3.70	5.50	1.65	3.34
33	1.23	0.33	3.73	4.72	1.31	3.60	5.44	1.67	3.25
34	1.22	0.34	3.63	4.66	1.33	3.50	5.37	1.70	3.17
35	1.20	0.34	3.53	4.60	1.35	3.41	5.30	1.72	3.08
36	1.18	0.34	3.43	4.54	1.37	3.32	5.23	1.74	3.00
37	1.17	0.35	3.34	4.48	1.39	3.23	5.16	1.77	2.92
38	1.15	0.35	3.25	4.42	1.41	3.14	5.10	1.79	2.84
39	1.14	0.36	3.17	4.36	1.43	3.06	5.03	1.82	2.76
40	1.12	0.36	3.08	4.30	1.35	2.98	4.96	1.84	2.68
41	1.11	0.37	3.00	4.24	1.35	2.90	4.89	1.86	2.60
42	1.09	0.37	2.92	4.18	1.35	2.82	4.82	1.88	2.52
43	1.08	0.38	2.84	4.12	1.35	2.74	4.75	1.90	2.44
44	1.06	0.38	2.77	4.06	1.35	2.67	4.68	1.92	2.36
45	1.05	0.39	2.69	4.00	1.35	2.60	4.61	1.94	2.28
46	1.03	0.39	2.62	3.94	1.35	2.53	4.54	1.96	2.20



Heating performance characteristic :

Outside Temp (°C)	Min capacity			Nominal capacity			Max capacity		
	Capacity (kW)	Power (kW)	COP (-)	Capacity (kW)	Power (kW)	COP (-)	Capacity (kW)	Power (kW)	COP (-)
-15	0.48	0.16	3.00	2.39	1.01	2.37	2.70	1.20	2.25
-14	0.50	0.16	3.03	2.50	1.04	2.40	2.82	1.24	2.27
-13	0.52	0.17	3.06	2.60	1.08	2.42	2.94	1.28	2.30
-12	0.54	0.18	3.09	2.71	1.11	2.44	3.06	1.32	2.32
-11	0.56	0.18	3.12	2.82	1.14	2.46	3.18	1.36	2.34
-10	0.58	0.19	3.15	2.92	1.18	2.48	3.30	1.40	2.36
-9	0.60	0.19	3.20	3.01	1.19	2.53	3.40	1.42	2.40
-8	0.62	0.19	3.26	3.10	1.21	2.57	3.50	1.43	2.44
-7	0.64	0.19	3.31	3.19	1.22	2.62	3.60	1.45	2.48
-6	0.66	0.19	3.37	3.28	1.23	2.66	3.70	1.47	2.52
-5	0.67	0.20	3.42	3.37	1.25	2.70	3.80	1.48	2.56
-4	0.69	0.20	3.47	3.45	1.26	2.74	3.90	1.50	2.60
-3	0.71	0.20	3.52	3.54	1.28	2.78	4.00	1.52	2.64
-2	0.73	0.20	3.57	3.63	1.29	2.82	4.10	1.53	2.67
-1	0.74	0.21	3.62	3.72	1.30	2.85	4.20	1.55	2.71
0	0.76	0.21	3.66	3.81	1.32	2.89	4.30	1.57	2.74
1	0.78	0.21	3.71	3.90	1.33	2.93	4.40	1.58	2.78
2	0.80	0.21	3.75	3.99	1.35	2.96	4.50	1.60	2.81
3	0.88	0.22	4.01	4.05	1.36	2.97	4.56	1.59	2.87
4	0.96	0.23	4.26	4.12	1.38	2.98	4.61	1.57	2.93
5	1.04	0.23	4.49	4.18	1.40	2.99	4.67	1.56	2.99
6	1.07	0.24	4.54	4.36	1.50	3.58	6.33	1.87	3.39
7	1.10	0.24	4.58	4.50	1.52	3.62	6.50	1.90	3.42
8	1.13	0.24	4.63	4.64	1.54	3.66	6.67	1.93	3.46
9	1.16	0.25	4.68	4.78	1.57	3.69	6.84	1.96	3.49
10	1.19	0.25	4.72	4.93	1.59	3.73	7.00	1.99	3.52
11	1.21	0.25	4.76	5.07	1.61	3.76	7.17	2.02	3.55
12	1.24	0.26	4.80	5.21	1.64	3.79	7.34	2.05	3.58
13	1.27	0.26	4.84	5.35	1.66	3.82	7.51	2.08	3.61
14	1.30	0.27	4.88	5.49	1.68	3.85	7.67	2.11	3.64
15	1.33	0.27	4.92	5.64	1.71	3.88	7.84	2.14	3.67
16	1.36	0.27	4.96	5.78	1.73	3.91	8.01	2.16	3.70
17	1.38	0.28	4.99	5.92	1.76	3.94	8.18	2.19	3.73
18	1.41	0.28	5.03	6.06	1.78	3.97	8.34	2.22	3.75
19	1.44	0.28	5.06	6.20	1.80	4.00	8.42	2.22	3.79
20	1.47	0.29	5.10	6.34	1.83	4.02	8.50	2.22	3.83
21	1.50	0.29	5.13	6.48	1.85	4.05	8.58	2.22	3.86
22	1.53	0.30	5.16	6.62	1.87	4.07	8.66	2.22	3.90
23	1.55	0.30	5.19	6.76	1.90	4.10	8.74	2.22	3.93
24	1.58	0.30	5.22	6.90	1.92	4.12	8.82	2.22	3.97



Model : RAS-18J2KVSG-E/TR : RAS-18J2AVSG-E/TR
RAS-18N4KVSG-E : RAS-18J2AVSG-E

Product specification :

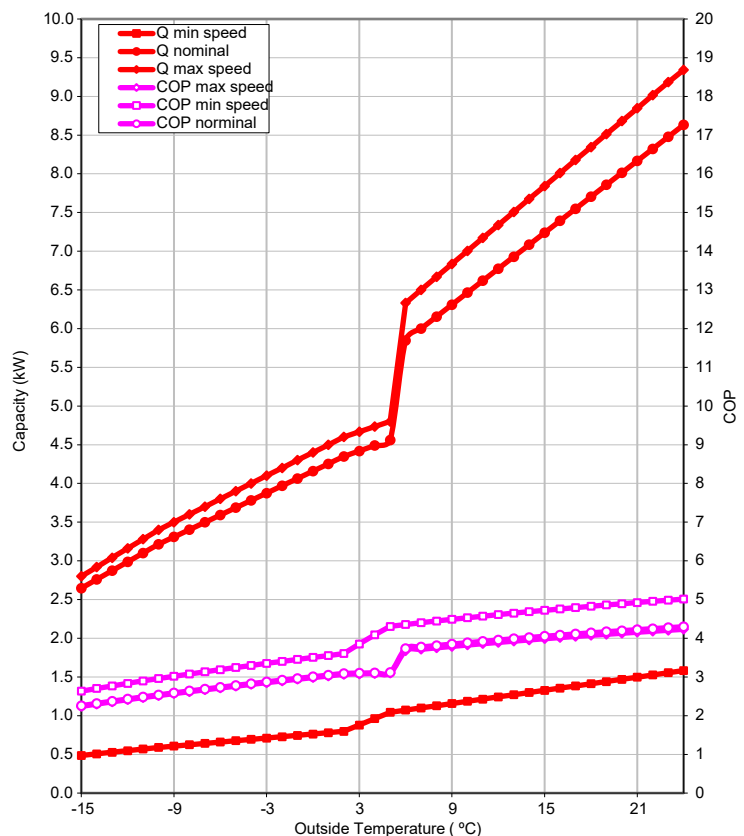
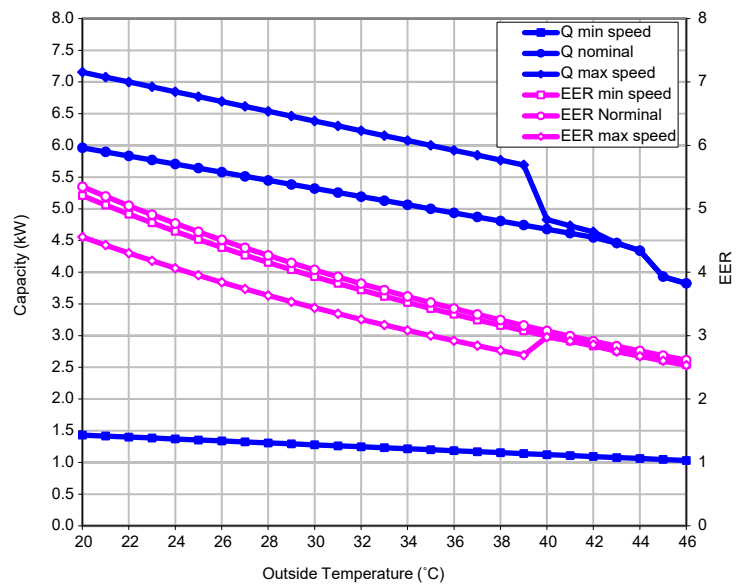
Condition		Capacity (kW)	Power (kW)	EER/COP
Cooling JIS In: 27 °C DB/19 °C WB Out: 35 °C DB/24 °C WB	Min	1.20	0.35	3.43
	Rated	5.00	1.42	3.52
	Max	6.00	2.00	3.00
Heating JIS In: 20 °C DB/15 °C WB Out: 7 °C DB/6 °C WB	Min	1.10	0.25	4.40
	Rated	6.00	1.59	3.77
	Max	6.50	1.75	3.71
Heating Low Temp. In: 20 °C DB/15 °C WB Out: 2 °C DB/1 °C WB	Max	4.60	1.50	3.07
Heating Low Temp. In: 20 °C DB/15 °C WB Out: -10 °C DB	Max	3.40	1.350	2.52
Heating Low Temp. In: 20 °C DB/15 °C WB Out: -15 °C DB	Max	2.80	1.250	2.24

Cooling performance characteristic :

Outside Temp (°C)	Min capacity			Nominal capacity			Max capacity		
	Capacity (kW)	Power (kW)	EER	Capacity (kW)	Power (kW)	EER	Capacity (kW)	Power (kW)	EER
20	1.43	0.27	5.21	5.96	1.11	5.35	7.16	1.57	4.56
21	1.42	0.28	5.06	5.90	1.14	5.20	7.08	1.60	4.43
22	1.40	0.28	4.92	5.83	1.16	5.05	7.00	1.63	4.30
23	1.38	0.29	4.78	5.77	1.18	4.91	6.92	1.66	4.18
24	1.37	0.29	4.64	5.71	1.20	4.77	6.85	1.68	4.06
25	1.35	0.30	4.52	5.64	1.22	4.64	6.77	1.71	3.95
26	1.34	0.30	4.39	5.58	1.24	4.51	6.69	1.74	3.84
27	1.32	0.31	4.27	5.51	1.26	4.39	6.62	1.77	3.74
28	1.31	0.31	4.15	5.45	1.28	4.27	6.54	1.80	3.63
29	1.29	0.32	4.04	5.39	1.30	4.15	6.46	1.83	3.54
30	1.28	0.32	3.93	5.32	1.32	4.04	6.39	1.86	3.44
31	1.26	0.33	3.82	5.26	1.34	3.93	6.31	1.89	3.35
32	1.25	0.33	3.72	5.19	1.36	3.82	6.23	1.91	3.26
33	1.23	0.34	3.62	5.13	1.38	3.72	6.15	1.94	3.17
34	1.22	0.34	3.52	5.06	1.40	3.62	6.08	1.97	3.08
35	1.20	0.35	3.43	5.00	1.42	3.52	6.00	2.00	3.00
36	1.18	0.36	3.34	4.94	1.44	3.43	5.92	2.03	2.92
37	1.17	0.36	3.25	4.87	1.46	3.34	5.85	2.06	2.84
38	1.15	0.37	3.16	4.81	1.48	3.25	5.77	2.09	2.77
39	1.14	0.37	3.08	4.74	1.50	3.16	5.69	2.11	2.69
40	1.12	0.38	2.99	4.68	1.52	3.07	4.83	1.62	2.98
41	1.11	0.38	2.91	4.62	1.54	2.99	4.73	1.62	2.92
42	1.09	0.39	2.84	4.55	1.56	2.91	4.64	1.62	2.86
43	1.08	0.39	2.76	4.46	1.57	2.83	4.46	1.62	2.75
44	1.06	0.40	2.69	4.34	1.57	2.76	4.34	1.62	2.67
45	1.05	0.40	2.61	3.93	1.46	2.68	3.93	1.51	2.60
46	1.03	0.41	2.54	3.82	1.46	2.61	3.82	1.51	2.53

Heating performance characteristic :

Outside Temp (°C)	Min capacity			Nominal capacity			Max capacity		
	Capacity (kW)	Power (kW)	COP	Capacity (kW)	Power (kW)	COP	Capacity (kW)	Power (kW)	COP
-15	0.49	0.18	2.63	2.65	1.17	2.26	2.80	1.25	2.24
-14	0.51	0.19	2.70	2.76	1.19	2.32	2.92	1.27	2.30
-13	0.53	0.19	2.77	2.87	1.21	2.37	3.04	1.29	2.36
-12	0.55	0.19	2.83	2.99	1.23	2.43	3.16	1.31	2.41
-11	0.57	0.20	2.90	3.10	1.25	2.48	3.28	1.33	2.47
-10	0.59	0.20	2.96	3.21	1.27	2.54	3.40	1.35	2.52
-9	0.61	0.20	3.02	3.31	1.28	2.59	3.50	1.36	2.57
-8	0.62	0.20	3.08	3.40	1.29	2.64	3.60	1.38	2.62
-7	0.64	0.20	3.13	3.50	1.30	2.69	3.70	1.39	2.67
-6	0.66	0.21	3.19	3.59	1.31	2.73	3.80	1.40	2.71
-5	0.68	0.21	3.24	3.69	1.33	2.78	3.90	1.41	2.76
-4	0.69	0.21	3.30	3.78	1.34	2.83	4.00	1.43	2.81
-3	0.71	0.21	3.35	3.88	1.35	2.87	4.10	1.44	2.85
-2	0.73	0.21	3.40	3.97	1.36	2.92	4.20	1.45	2.90
-1	0.75	0.22	3.45	4.06	1.37	2.96	4.30	1.46	2.94
0	0.76	0.22	3.50	4.16	1.38	3.01	4.40	1.48	2.98
1	0.78	0.22	3.55	4.25	1.40	3.05	4.50	1.49	3.03
2	0.80	0.22	3.60	4.35	1.41	3.09	4.60	1.50	3.07
3	0.88	0.23	3.85	4.42	1.43	3.10	4.67	1.52	3.08
4	0.96	0.24	4.09	4.49	1.44	3.11	4.73	1.53	3.09
5	1.04	0.24	4.31	4.56	1.46	3.12	4.80	1.55	3.10
6	1.07	0.25	4.35	4.55	1.57	3.73	6.33	1.72	3.68
7	1.10	0.25	4.40	6.00	1.59	3.77	6.50	1.75	3.71
8	1.13	0.25	4.44	6.15	1.61	3.81	6.67	1.78	3.75
9	1.16	0.26	4.49	6.31	1.64	3.85	6.84	1.80	3.79
10	1.19	0.26	4.53	6.46	1.66	3.89	7.00	1.83	3.82
11	1.21	0.27	4.57	6.62	1.69	3.92	7.17	1.86	3.86
12	1.24	0.27	4.61	6.77	1.71	3.95	7.34	1.89	3.89
13	1.27	0.27	4.65	6.93	1.74	3.99	7.51	1.91	3.92
14	1.30	0.28	4.69	7.08	1.76	4.02	7.67	1.94	3.96
15	1.33	0.28	4.72	7.24	1.79	4.05	7.84	1.97	3.99
16	1.36	0.28	4.76	7.39	1.81	4.08	8.01	1.99	4.02
17	1.38	0.29	4.79	7.55	1.84	4.11	8.18	2.02	4.05
18	1.41	0.29	4.83	7.70	1.86	4.14	8.35	2.05	4.07
19	1.44	0.30	4.86	7.86	1.89	4.17	8.51	2.08	4.10
20	1.47	0.30	4.89	8.01	1.91	4.20	8.68	2.10	4.13
21	1.50	0.30	4.92	8.17	1.93	4.22	8.85	2.13	4.16
22	1.53	0.31	4.95	8.32	1.96	4.25	9.02	2.16	4.18
23	1.55	0.31	4.98	8.48	1.98	4.27	9.18	2.18	4.21
24	1.58	0.32	5.01	8.63	2.01	4.30	9.34	2.21	4.23



Model : RAS-B22J2KVSG-E / RAS-22J2KVSG-TR : RAS-22J2AVSG-E/TR

RAS-B22N4KVSG-E : RAS-22J2AVSG-E

Product specification :

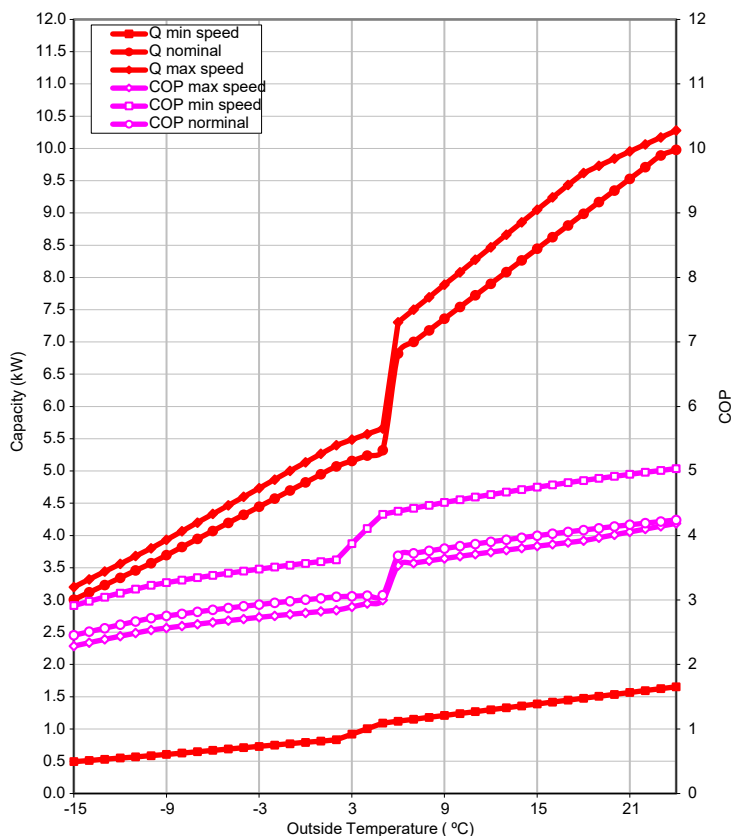
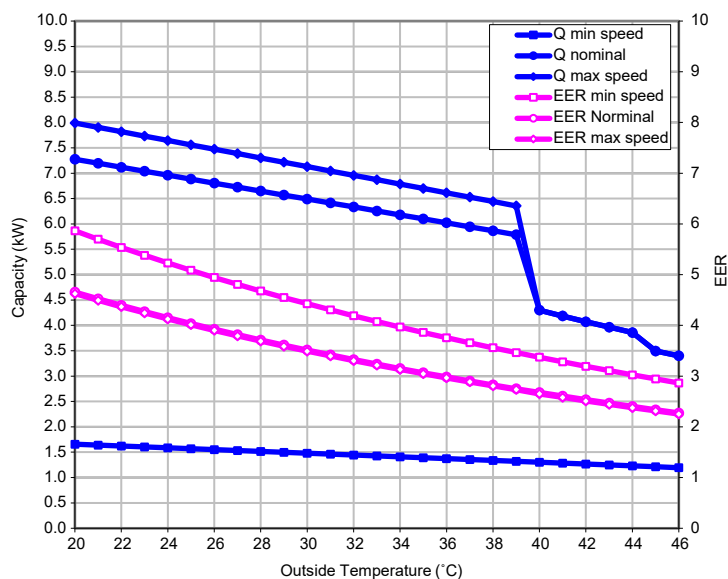
Condition		Capacity (kW)	Power (kW)	EER/COP
Cooling JIS In: 27 °C DB/19°C WB Out: 35°C DB/24°C WB	Min	1.39	0.36	3.86
	Rated	6.10	1.99	3.07
	Max	6.70	2.20	3.05
Heating JIS In: 20 °C DB/15°C WB Out: 7 °C DB/6°C WB	Min	1.15	0.26	4.42
	Rated	7.00	1.88	3.72
	Max	7.50	2.10	3.57
Heating Low Temp. In: 20 °C DB/15°C WB Out: 2 °C DB/1°C WB	Max	5.40	1.90	2.84
Heating Low Temp. In: 20 °C DB/15°C WB Out: -10 °C DB	Max	3.80	1.500	2.53
Heating Low Temp. In: 20 °C DB/15°C WB Out: -15 °C DB	Max	3.20	1.400	2.29

Cooling performance characteristic :

Outside Temp (°C)	Min capacity			Nominal capacity			Max capacity		
	Capacity (kW)	Power (kW)	EER (-)	Capacity (kW)	Power (kW)	EER (-)	Capacity (kW)	Power (kW)	EER (-)
20	1.66	0.28	5.87	7.27	1.56	4.66	7.99	1.73	4.63
21	1.64	0.29	5.70	7.20	1.59	4.52	7.90	1.76	4.49
22	1.62	0.29	5.54	7.12	1.62	4.40	7.82	1.79	4.37
23	1.60	0.30	5.38	7.04	1.65	4.27	7.73	1.82	4.24
24	1.59	0.30	5.23	6.96	1.68	4.15	7.65	1.85	4.13
25	1.57	0.31	5.09	6.88	1.70	4.04	7.56	1.88	4.01
26	1.55	0.31	4.94	6.80	1.73	3.93	7.47	1.92	3.90
27	1.53	0.32	4.81	6.73	1.76	3.82	7.39	1.95	3.79
28	1.51	0.32	4.68	6.65	1.79	3.71	7.30	1.98	3.69
29	1.50	0.33	4.55	6.57	1.82	3.61	7.22	2.01	3.59
30	1.48	0.33	4.43	6.49	1.85	3.51	7.13	2.04	3.49
31	1.46	0.34	4.31	6.41	1.88	3.42	7.04	2.07	3.40
32	1.44	0.34	4.19	6.33	1.90	3.33	6.96	2.11	3.30
33	1.43	0.35	4.08	6.26	1.93	3.24	6.87	2.14	3.22
34	1.41	0.35	3.97	6.18	1.96	3.15	6.79	2.17	3.13
35	1.39	0.36	3.86	6.10	1.99	3.07	6.70	2.20	3.05
36	1.37	0.37	3.76	6.02	2.02	2.98	6.61	2.23	2.96
37	1.35	0.37	3.66	5.94	2.05	2.90	6.53	2.26	2.88
38	1.34	0.38	3.56	5.87	2.08	2.83	6.44	2.29	2.81
39	1.32	0.38	3.46	5.79	2.10	2.75	6.36	2.33	2.73
40	1.30	0.39	3.37	5.70	2.13	2.68	6.27	2.36	2.65
41	1.28	0.39	3.28	5.62	2.16	2.61	6.18	2.39	2.58
42	1.27	0.40	3.19	5.54	2.19	2.54	6.09	2.42	2.51
43	1.25	0.40	3.11	5.46	2.22	2.47	6.00	2.45	2.44
44	1.23	0.41	3.02	5.38	2.25	2.40	5.91	2.48	2.38
45	1.21	0.41	2.94	5.30	2.28	2.34	5.82	2.51	2.31
46	1.19	0.42	2.86	5.22	2.31	2.27	5.73	2.54	2.25

Heating performance characteristic :

Outside Temp (°C)	Min capacity			Nominal capacity			Max capacity		
	Capacity (kW)	Power (kW)	COP (-)	Capacity (kW)	Power (kW)	COP (-)	Capacity (kW)	Power (kW)	COP (-)
-15	0.49	0.17	2.91	3.01	1.23	2.45	3.20	1.40	2.29
-14	0.51	0.17	2.98	3.12	1.24	2.51	3.32	1.42	2.34
-13	0.53	0.17	3.04	3.23	1.26	2.56	3.44	1.44	2.39
-12	0.55	0.18	3.11	3.34	1.28	2.62	3.56	1.46	2.44
-11	0.57	0.18	3.17	3.46	1.30	2.67	3.68	1.48	2.49
-10	0.59	0.18	3.23	3.57	1.31	2.72	3.80	1.50	2.53
-9	0.61	0.19	3.27	3.69	1.34	2.75	3.93	1.53	2.57
-8	0.63	0.19	3.31	3.82	1.37	2.78	4.07	1.57	2.60
-7	0.65	0.19	3.35	3.95	1.40	2.82	4.20	1.60	2.63
-6	0.67	0.20	3.38	4.07	1.43	2.85	4.33	1.63	2.65
-5	0.69	0.20	3.42	4.20	1.46	2.87	4.47	1.67	2.68
-4	0.71	0.21	3.45	4.32	1.49	2.90	4.60	1.70	2.71
-3	0.73	0.21	3.48	4.45	1.52	2.93	4.73	1.73	2.73
-2	0.75	0.21	3.51	4.57	1.55	2.96	4.87	1.77	2.75
-1	0.77	0.22	3.54	4.70	1.58	2.98	5.00	1.80	2.78
0	0.79	0.22	3.57	4.82	1.61	3.00	5.13	1.83	2.80
1	0.81	0.23	3.60	4.95	1.63	3.03	5.27	1.87	2.82
2	0.83	0.23	3.62	5.07	1.66	3.05	5.40	1.90	2.84
3	0.92	0.24	3.87	5.16	1.69	3.06	5.49	1.90	2.89
4	1.00	0.24	4.11	5.24	1.71	3.07	5.57	1.89	2.95
5	1.09	0.25	4.33	5.32	1.73	3.07	5.66	1.89	3.00
6	1.12	0.26	4.38	5.40	1.75	3.08	5.74	1.90	3.05
7	1.15	0.26	4.42	5.49	1.77	3.09	5.83	1.91	3.10
8	1.18	0.26	4.47	5.58	1.79	3.10	5.92	1.92	3.15
9	1.21	0.27	4.51	5.67	1.81	3.11	6.01	1.93	3.20
10	1.24	0.27	4.55	5.76	1.83	3.12	6.10	1.94	3.25
11	1.27	0.28	4.60	5.85	1.85	3.13	6.19	1.95	3.30
12	1.30	0.28	4.63	5.94	1.87	3.14	6.28	1.96	3.35
13	1.33	0.28	4.67	6.03	1.89	3.15	6.37	1.97	3.40
14	1.36	0.29	4.71	6.12	1.91	3.16	6.46	1.98	3.45
15	1.39	0.29	4.75	6.21	1.93	3.17	6.55	1.99	3.50
16	1.42	0.30	4.78	6.30	1.95	3.18	6.64	2.00	3.55
17	1.45	0.30	4.82	6.39	1.97	3.19	6.73	2.01	3.60
18	1.48	0.30	4.85	6.48	1.99	3.20	6.82	2.02	3.65
19	1.51	0.31	4.89	6.57	2.01	3.21	6.91	2.03	3.70
20	1.54	0.31	4.92	6.66	2.03	3.22	7.00	2.04	3.75
21	1.57	0.32	4.95	6.75	2.05	3.23	7.09	2.05	3.80
22	1.60	0.32	4.98	6.84	2.07	3.24	7.18	2.06	3.85
23	1.62	0.32	5.01	6.93	2.09	3.25	7.27	2.07	3.90
24	1.65	0.33	5.04	7.02	2.11	3.26	7.36	2.08	3.95



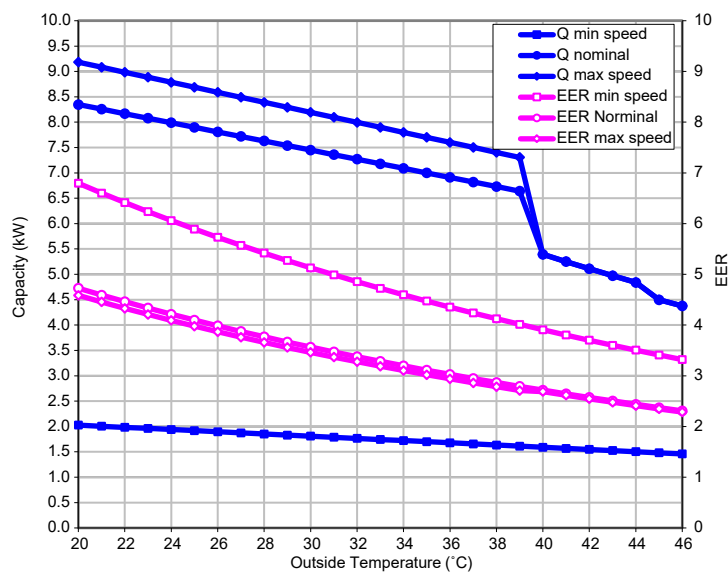
Model : RAS-B24J2KVSG-E / RAS-24J2KVSG-TR : RAS-24J2AVSG-E/TR
RAS-B24N4KVSG-E : RAS-24J2AVSG-E

Product specification :

Condition		Capacity (kW)	Power (kW)	EER/COP
Cooling JIS In: 27 °C DB/19°C WB Out: 35°C DB/24°C WB	Min	1.70	0.38	4.47
	Rated	7.00	2.25	3.11
	Max	7.70	2.55	3.02
Heating JIS In: 20 °C DB/15°C WB Out: 7 °C DB/6°C WB	Min	1.70	0.29	5.86
	Rated	8.00	2.35	3.40
	Max	8.80	2.75	3.20
Heating Low Temp. In: 20 °C DB/15°C WB Out: 2 °C DB/1°C WB	Max	6.30	2.15	2.93
Heating Low Temp. In: 20 °C DB/15°C WB Out: -10 °C DB	Max	4.90	2.100	2.33
Heating Low Temp. In: 20 °C DB/15°C WB Out: -15 °C DB	Max	4.20	1.900	2.21

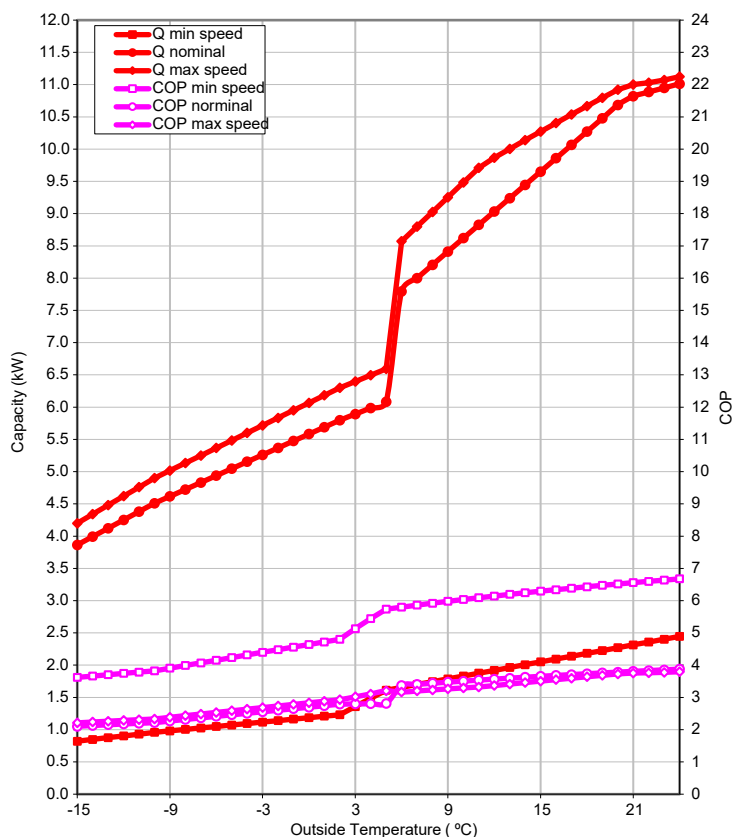
Cooling performance characteristic :

Outside Temp (°C)	Min capacity			Nominal capacity			Max capacity		
	Capacity (kW)	Power (kW)	EER (-)	Capacity (kW)	Power (kW)	EER (-)	Capacity (kW)	Power (kW)	EER (-)
20	2.03	0.30	6.80	8.35	1.77	4.73	9.18	2.00	4.59
21	2.01	0.30	6.60	8.26	1.80	4.59	9.08	2.04	4.46
22	1.98	0.31	6.42	8.17	1.83	4.46	8.98	2.07	4.33
23	1.96	0.31	6.24	8.08	1.86	4.34	8.89	2.11	4.21
24	1.94	0.32	6.06	7.99	1.90	4.21	8.79	2.15	4.09
25	1.92	0.33	5.89	7.90	1.93	4.10	8.69	2.18	3.98
26	1.90	0.33	5.73	7.81	1.96	3.98	8.59	2.22	3.87
27	1.87	0.34	5.57	7.72	1.99	3.87	8.49	2.26	3.76
28	1.85	0.34	5.42	7.63	2.02	3.77	8.39	2.29	3.66
29	1.83	0.35	5.27	7.54	2.06	3.67	8.29	2.33	3.56
30	1.81	0.35	5.13	7.45	2.09	3.57	8.19	2.37	3.46
31	1.79	0.36	4.99	7.36	2.12	3.47	8.10	2.40	3.37
32	1.77	0.36	4.85	7.27	2.15	3.38	8.00	2.44	3.28
33	1.74	0.37	4.72	7.18	2.19	3.29	7.90	2.48	3.19
34	1.72	0.37	4.60	7.09	2.22	3.20	7.80	2.51	3.10
35	1.70	0.38	4.47	7.00	2.25	3.11	7.70	2.55	3.02
36	1.68	0.39	4.35	6.91	2.28	3.03	7.60	2.59	2.94
37	1.66	0.39	4.24	6.82	2.31	2.95	7.50	2.62	2.86
38	1.63	0.40	4.12	6.73	2.35	2.87	7.40	2.66	2.78
39	1.61	0.40	4.01	6.64	2.38	2.79	7.30	2.70	2.71
40	1.59	0.41	3.91	6.53	1.99	2.72	7.20	2.74	2.64
41	1.57	0.41	3.80	6.43	1.99	2.64	7.10	2.78	2.57
42	1.55	0.42	3.70	6.33	1.99	2.57	7.00	2.82	2.50
43	1.53	0.42	3.60	6.23	1.99	2.50	6.90	2.86	2.43
44	1.50	0.43	3.50	6.13	1.99	2.44	6.80	2.90	2.36
45	1.48	0.43	3.41	6.03	1.90	2.37	6.70	2.94	2.30
46	1.46	0.44	3.32	5.93	1.90	2.31	6.60	2.98	2.24



Heating performance characteristic :

Outside Temp (°C)	Min capacity			Nominal capacity			Max capacity		
	Capacity (kW)	Power (kW)	COP (-)	Capacity (kW)	Power (kW)	COP (-)	Capacity (kW)	Power (kW)	COP (-)
-15	0.82	0.23	3.62	3.86	1.84	2.10	4.20	1.90	2.21
-14	0.85	0.23	3.66	3.99	1.88	2.13	4.34	1.94	2.24
-13	0.88	0.24	3.71	4.12	1.92	2.15	4.48	1.98	2.26
-12	0.90	0.24	3.75	4.25	1.95	2.18	4.62	2.02	2.29
-11	0.93	0.25	3.79	4.38	1.99	2.20	4.76	2.06	2.31
-10	0.96	0.25	3.82	4.51	2.03	2.22	4.90	2.10	2.33
-9	0.98	0.25	3.91	4.62	2.04	2.27	5.02	2.10	2.38
-8	1.00	0.25	3.99	4.72	2.04	2.32	5.13	2.11	2.43
-7	1.03	0.25	4.07	4.83	2.04	2.36	5.25	2.11	2.49
-6	1.05	0.25	4.15	4.94	2.05	2.41	5.37	2.12	2.54
-5	1.07	0.25	4.24	5.05	2.05	2.46	5.48	2.12	2.59
-4	1.10	0.25	4.32	5.15	2.06	2.51	5.60	2.13	2.64
-3	1.12	0.25	4.40	5.26	2.06	2.55	5.72	2.13	2.68
-2	1.14	0.25	4.48	5.37	2.06	2.60	5.83	2.13	2.73
-1	1.16	0.26	4.56	5.48	2.07	2.65	5.95	2.14	2.78
0	1.19	0.26	4.64	5.58	2.07	2.69	6.07	2.14	2.83
1	1.21	0.26	4.72	5.69	2.08	2.74	6.18	2.15	2.88
2	1.23	0.26	4.80	5.80	2.08	2.79	6.30	2.15	2.93
3	1.36	0.26	5.13	5.89	2.11	2.80	6.40	2.12	3.02
4	1.49	0.27	5.44	5.99	2.14	2.80	6.49	2.09	3.11
5	1.61	0.28	5.74	6.08	2.16	2.81	6.59	2.06	3.20
6	1.66	0.29	5.80	7.79	2.31	3.37	8.57	2.71	3.17
7	1.70	0.29	5.86	8.00	2.35	3.40	8.80	2.75	3.20
8	1.74	0.29	5.92	8.21	2.39	3.44	9.03	2.79	3.23
9	1.79	0.30	5.98	8.41	2.42	3.47	9.25	2.84	3.26
10	1.83	0.30	6.04	8.62	2.46	3.50	9.48	2.88	3.29
11	1.88	0.31	6.09	8.83	2.50	3.54	9.71	2.92	3.32
12	1.92	0.31	6.14	9.03	2.53	3.57	9.87	2.93	3.37
13	1.96	0.32	6.19	9.24	2.57	3.60	10.00	2.93	3.41
14	2.01	0.32	6.24	9.45	2.60	3.63	10.14	2.93	3.46
15	2.05	0.33	6.29	9.65	2.64	3.65	10.27	2.93	3.51
16	2.09	0.33	6.34	9.86	2.68	3.68	10.40	2.93	3.55
17	2.14	0.33	6.39	10.06	2.71	3.71	10.54	2.93	3.60
18	2.18	0.34	6.43	10.27	2.75	3.73	10.67	2.93	3.64
19	2.23	0.34	6.47	10.48	2.79	3.76	10.79	2.93	3.68
20	2.27	0.35	6.52	10.68	2.82	3.78	10.92	2.93	3.73
21	2.31	0.35	6.56	10.82	2.84	3.81	11.00	2.93	3.75
22	2.36	0.36	6.60	10.88	2.84	3.83	11.03	2.93	3.76
23	2.40	0.36	6.64	10.95	2.84	3.85	11.07	2.93	3.78
24	2.45	0.37	6.68	11.01	2.84	3.88	11.12	2.93	3.80



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