Библиотека СОК

TOSHIBA

TCTC-E24-RES002-2

Engineering Data Book

Residential Inverter Heat Pump R32

DAISEIKAI 10

Indoor Units

RAS-B10S4KVPG-E
RAS-B13S4KVPG-E
RAS-B18S4KVPG-E
RAS-B10S4KVDG-E
RAS-B13S4KVDG-E
RAS-B18S4KVDG-E

Outdoor Units

RAS-10S4AVPG-E
RAS-13S4AVPG-E
RAS-18S4AVPG-E

Contents

1 Line up. 3
2 Specifications 4
3 Dimension 6
4 Wiring diagram 9
5 Refrigerant cycle diagram 10
6 Air speed distribution 13
7 Sound characteristics (NC Curve) 16
8 Capacity table 19
9 Part load performance 22
10 Performance characteristic 25
11 Accessories 28

1. Line up

Indoor Unit	Outdoor Unit	Model Name		Capacity Rank
		FCU	CDU	
 White FCU	 CDU Chassis	RAS-B10S4KVPG-E	RAS-10S4AVPG-E	10k
		RAS-B13S4KVPG-E	RAS-13S4AVPG-E	13k
		RAS-B18S4KVPG-E	RAS-18S4AVPG-E	18k
 Wooden FCU		RAS-B10S4KVDG-E	RAS-10S4AVPG-E	10k
		RAS-B13S4KVDG-E	RAS-13S4AVPG-E	13k
		RAS-B18S4KVDG-E	RAS-18S4AVPG-E	18k

Accessories

Appearance	Model Name
	Standard Remote Control WH-UD02UE (Packed with White FCU)
	Standard Remote Control WH-UD01UE (Packed with Wooden FCU)
	Option RC RB-RXS33-E
	Built-in Wireless adapter Application **Toshiba Home AC Control**

2. Specifications

System	**Size**			10k	13k
	Indoor	**White**		RAS-B10S4KVPG-E	RAS-B13S4KVPG-E
	Indoor	**Wood**		RAS-B10S4KVDG-E	RAS-B13S4KVDG-E
	Outdoor			RAS-10S4AVPG-E	RAS-13S4AVPG-E
Power supply			(V/Ph/Hz)	1Ph, 220V-240V, 50Hz	
Cooling	Capacity (Min-Max)		(kW)	2.5 (0.60-3.50)	3.5 (0.90-4.20)
	Power Consumption (Min-Max)		(kW)	0.47 (0.16-0.82)	0.8 (0.20-1.10)
	EER		(kW/kW)	5.32	4.38
	PdesignC		(kW)	2.5	3.5
	SEER		(kW/kW)	**10.7**	**9.7**
	Indoor Sound Pressure (H/M+/M/L+/L (Quite))*1		(dB)	40/36/32/28/24 (19)	41/37/33/29/26 (20)
	Outdoor Sound Pressure (Rated / Silent 1/ Silent 2)		(dB)	44/43/40	45/44/41
	Indoor Air Flow (H/M/L)		m^3/hr	700/500/300	750/530/330
Heating	Capacity (Min-Max)		(kW)	3.2 (0.65-5.80)	4.0 (0.70-6.30)
	Power Consumption (Min-Max)		(kW)	0.6 (0.16-1.5)	0.8 (0.18-1.60)
	COP		(kW/kW)	5.33	5.00
	PdesignH (Tbiv -10°C)		(kW)	3.0	3.6
	SCOP		(kW/kW)	**5.3**	**5.2**
	Indoor Sound Pressure (H/M+/M/L+/L (Quite))*1		(dB)	41/37/33/29/25 (19)	42/38/34/30/27 (20)
	Outdoor Sound Pressure (Rated / Silent 1/ Silent 2)		(dB)	45/44/41	46/45/42
	Indoor Air Flow (H/M/L)		m^3/hr	750/540/330	800/560/360
FCU	Dimensions	H x W x D	(mm)	293 x 930 x 255 (White) 293 x 940 x 257 (Wood)	
		Net Weight	(kg)	14 (White) 16 (Wood)	14 (White) 16 (Wood)
CDU	Dimensions	H x W x D	(mm)	630 x 800 x 300	
		Net Weight	(kg)	38	38
Pipe	Chargeless		(m)	15	15
	Maximum Length		(m)	25	25
	Maximum Height		(m)	12	12
	Refrigerant			R32	
	Refrigerant amount		(kg)	0.96	0.96
Energy Label		Cooling / Heating		**A+++ / A+++**	**A+++ / A+++**
Useble Range Temperature		Cooling	(°C)	Indoor: 21 ~ 32 °C , Outdoor: (-15) ~ 46 °C	
		Heating	(°C)	Indoor: 0 ~ 28 °C , Outdoor: (-20) ~ 24 °C	

Note

(*1) Base on background noise ≤ 10 dB.A

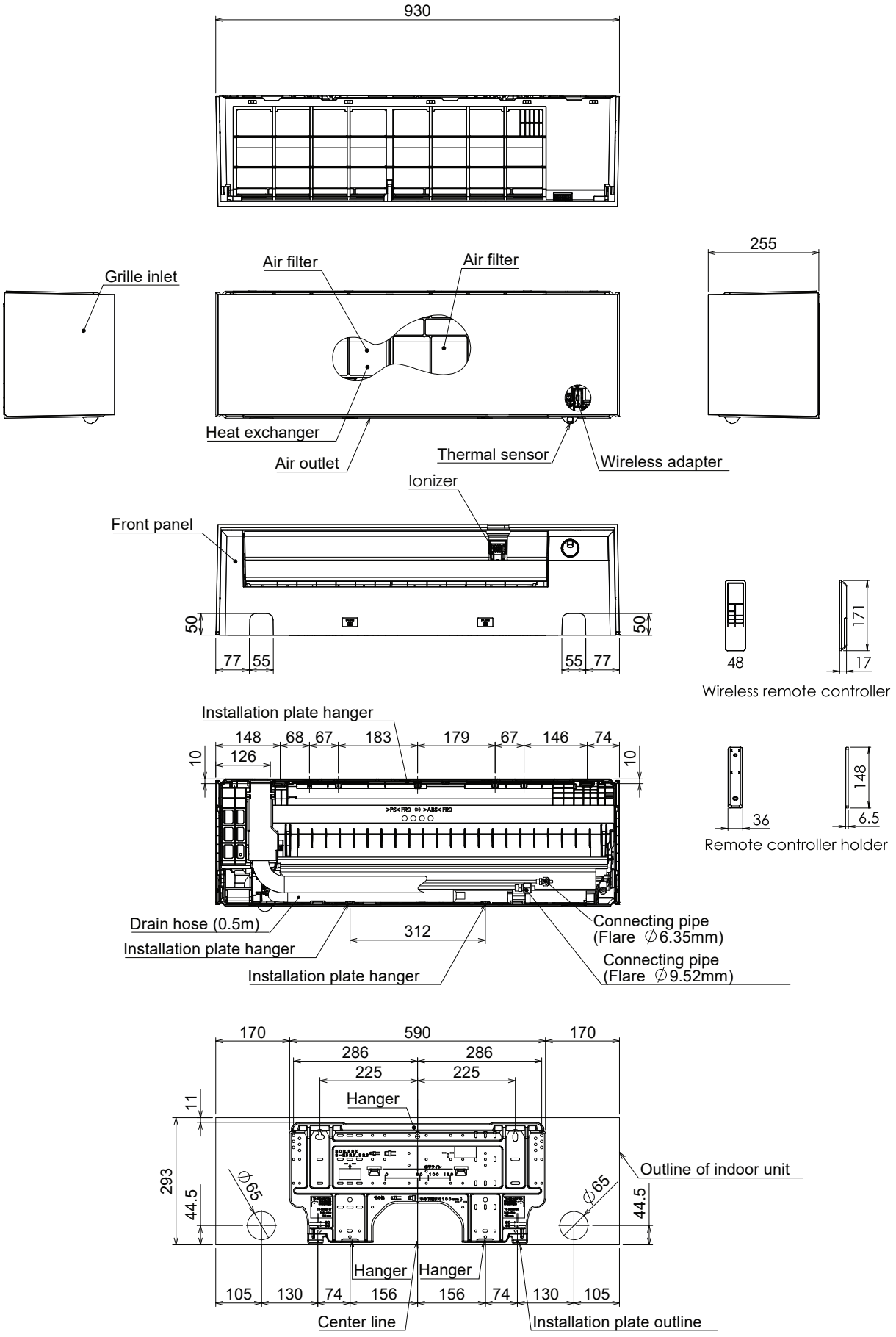
System	**Size**			18k
	Indoor	**White**		RAS-B18S4KVPG-E
	Indoor	**Wood**		RAS-B18S4KVDG-E
	Outdoor			RAS-18S4AVPG-E
Power supply			(V/Ph/Hz)	1Ph, 220V-240V, 50Hz
Cooling	Capacity (Min-Max)		(kW)	5.0 (0.90-6.00)
	Power Consumption (Min-Max)		(kW)	1.4 (0.20-2.20)
	EER		(kW)	3.57
	PdesignC		(kW)	5.0
	SEER		(kW/kW)	**8.6**
	Indoor Sound Pressure (H/M+/M/L+/L (Quite))*1		(dB)	44/40/35/30/25 (20)
	Outdoor Sound Pressure (Rated / Silent 1/ Silent 2)		(dB)	47/46/42
	Indoor Air Flow (H/M/L)		m^3/hr	800/560/350
Heating	Capacity (Min-Max)		(kW)	6.0 (0.80-7.20)
	Power Consumption (Min-Max)		(kW)	1.45 (0.19-1.90)
	COP		(kW/kW)	4.14
	PdesignH (Tbiv -10°C)		(kW)	4.5
	SCOP		(kW/kW)	**4.8**
	Indoor Sound Pressure (H/M+/M/L+/L (Quite))*1		(dB)	45/41/36/31/26 (22)
	Outdoor Sound Pressure (Rated / Silent 1/ Silent 2)		(dB)	49/48/44
	Indoor Air Flow (H/M/L)		m^3/hr	810/610/380
FCU	Dimensions	H x W x D	(mm)	293 x 930 x 255 (White) 293 x 940 x 257 (Wood)
		Net Weight	(kg)	14 (White) 16 (Wood)
CDU	Dimensions	H x W x D	(mm)	630 x 800 x 300
		Net Weight	(kg)	38
Pipe	Chargeless		(m)	15
	Maximum Length		(m)	25
	Maximum Height		(m)	12
	Refrigerant			R32
	Refrigerant amount		(kg)	0.96
Energy Label		Cooling / Heating		**A+++ / A+++**
Useble Range Temperature		Cooling	(°C)	Indoor: 21 ~ 32 °C , Outdoor: (-15) ~ 46 °C
		Heating	(°C)	Indoor: 0 ~ 28 °C , Outdoor: (**-20**) ~ 24 °C

Note

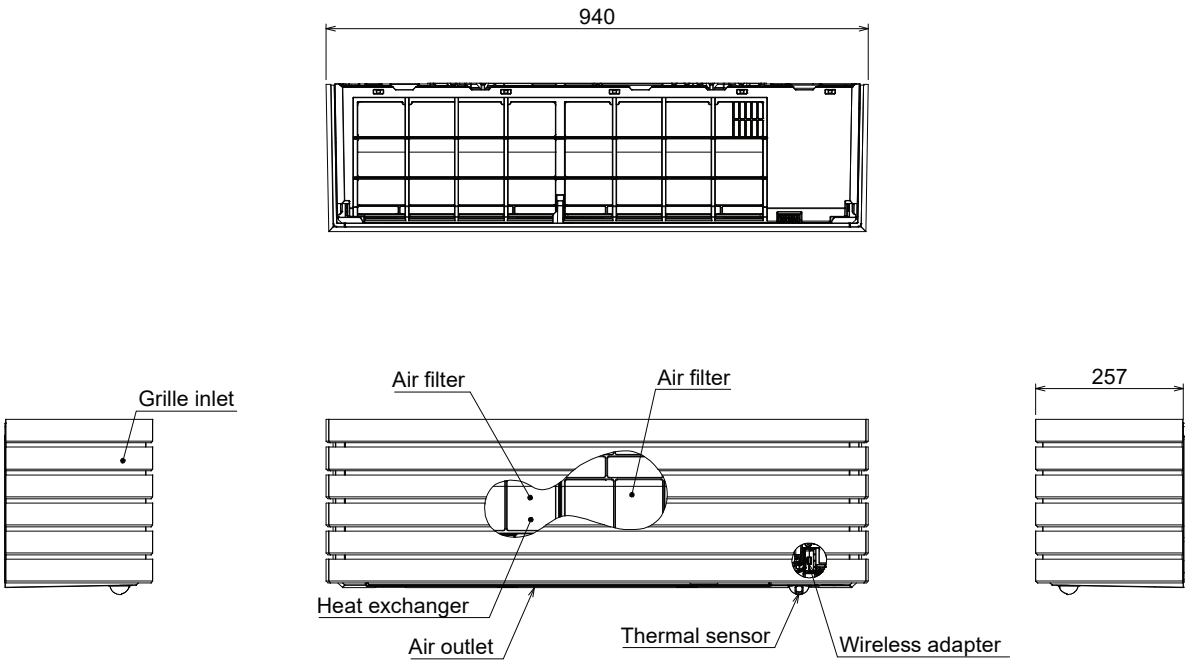
(*1) Base on background noise ≤ 10 dB.A

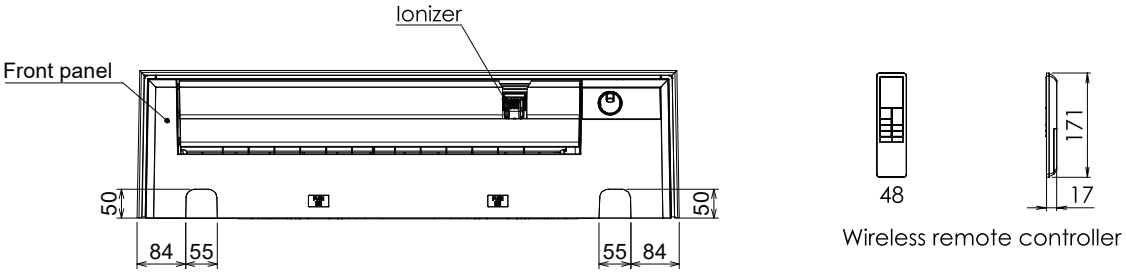
3. Dimension

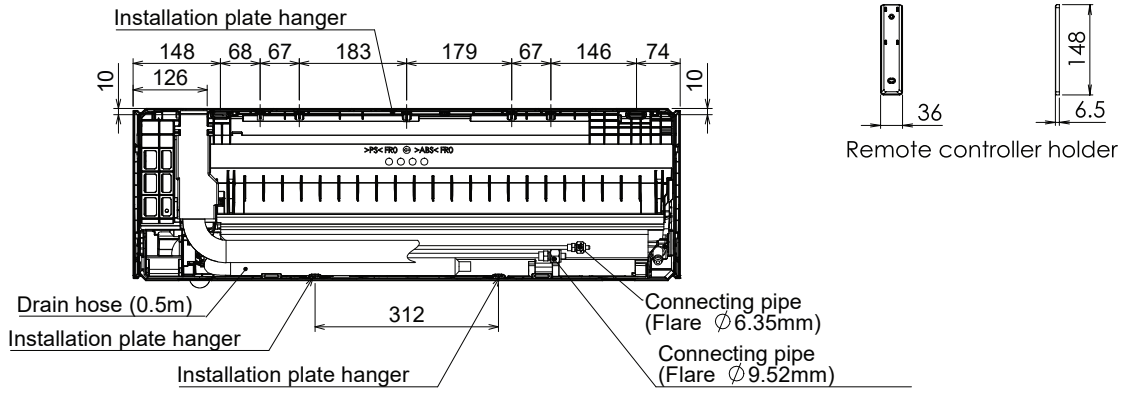
Indoor Unit : RAS-B__*S4KVPG-E (*10, 13, 18)

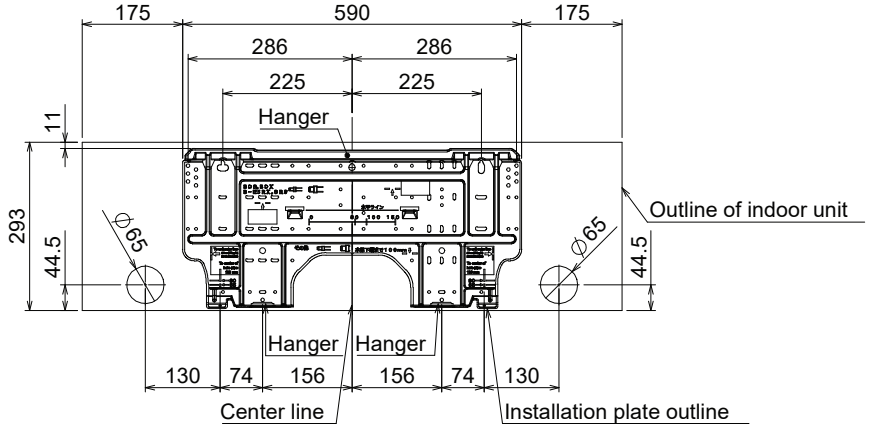


Indoor Unit : RAS-B__*S4KVDG-E (*10, 13, 18)

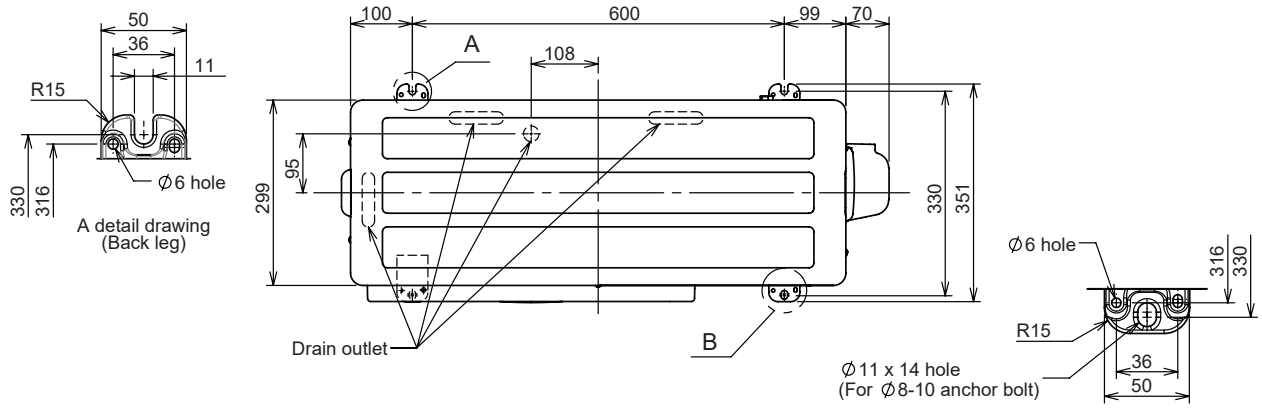


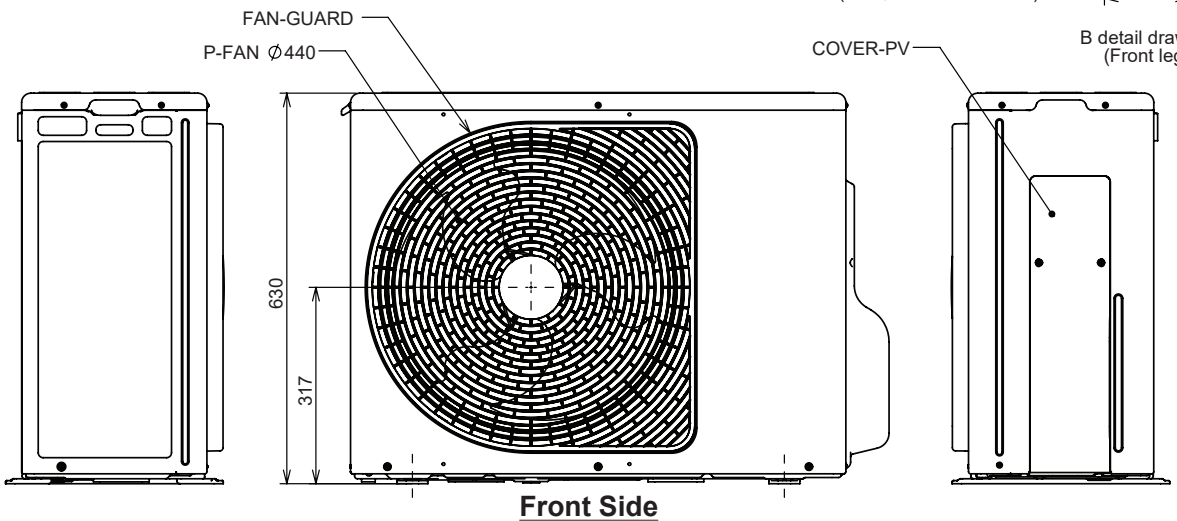




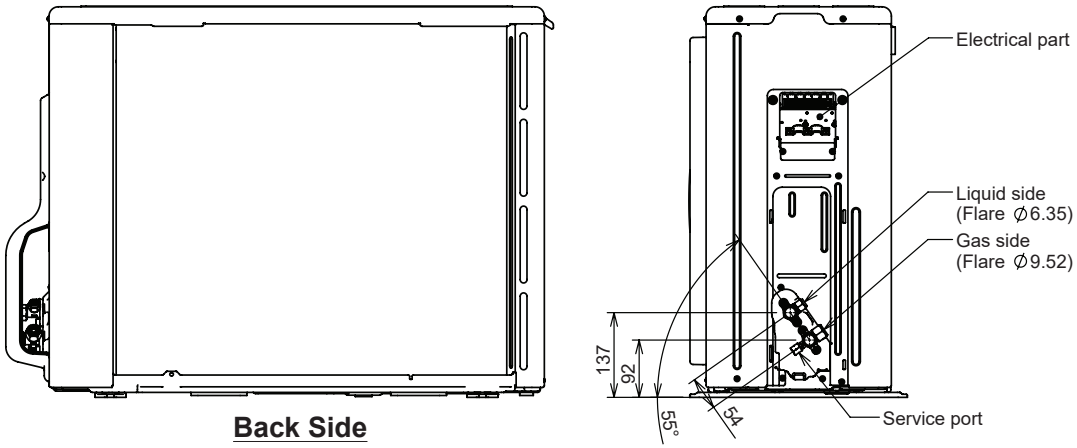


Outdoor Unit : RAS-__*S4AVPG-E (*10, 13, 18)

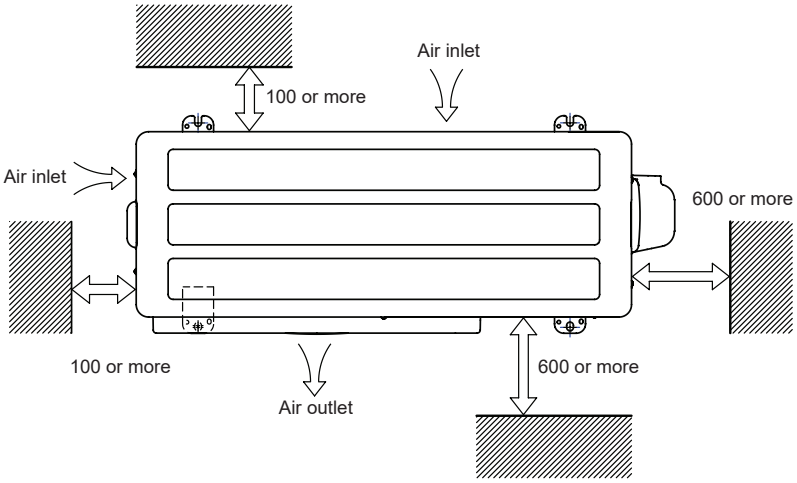




Front Side

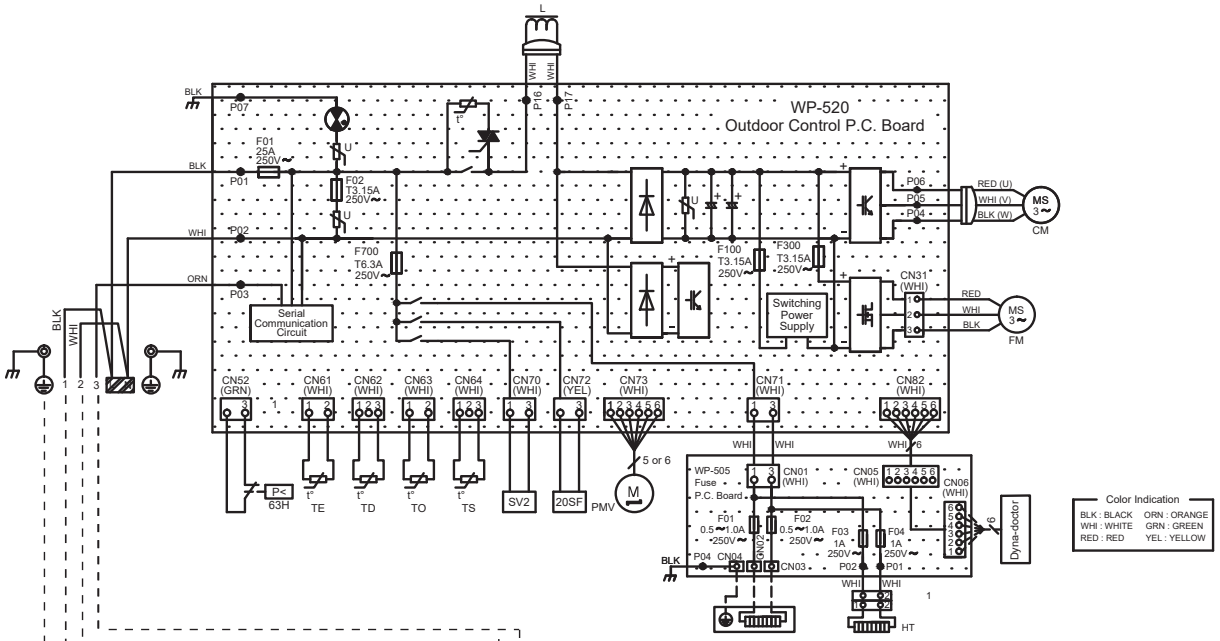


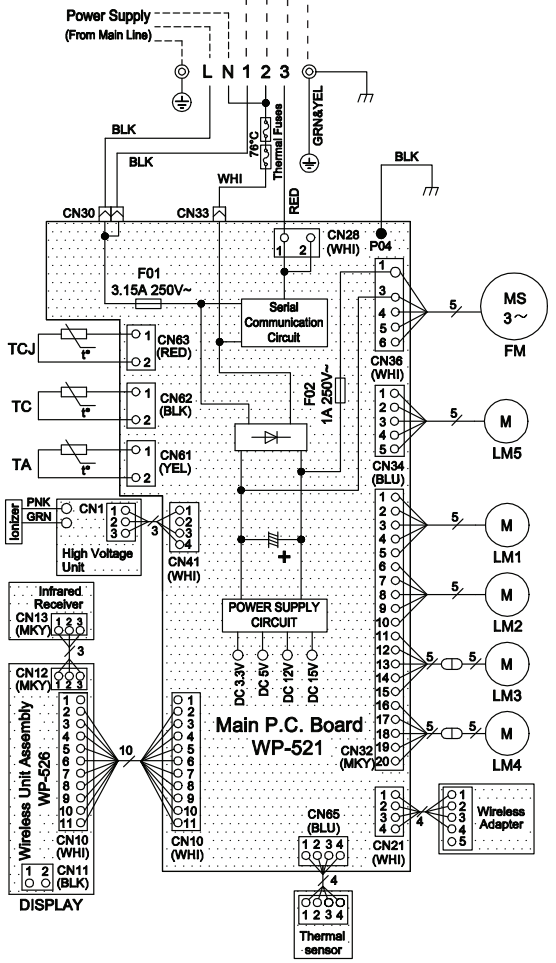
Back Side



4. Wiring didgrams

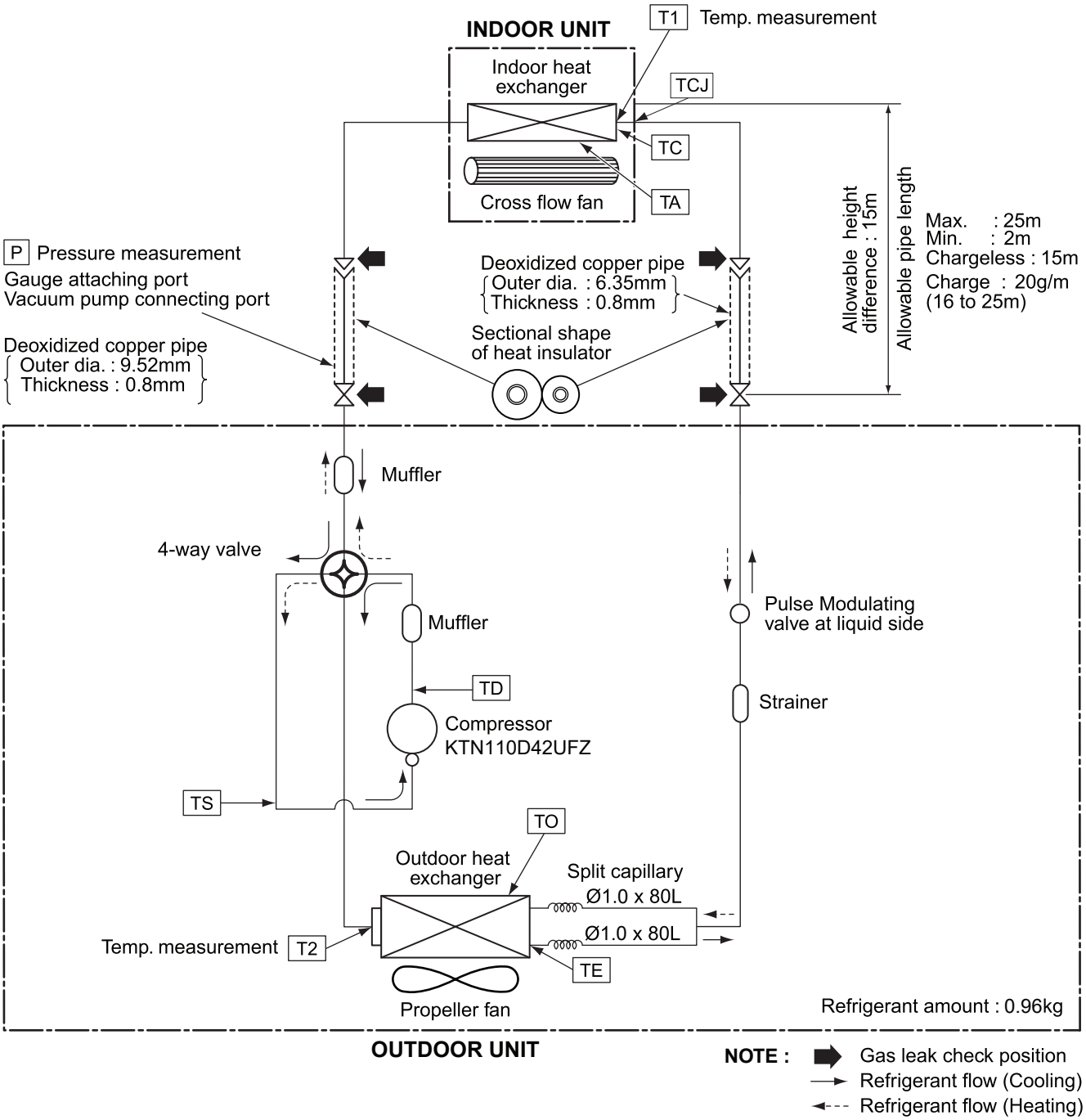
RAS-B__*S4KVP(D)G-E ; RAS-__*S4AVPG-E (*10, 13, 18)





5. Refrigerant Cycle Diagram

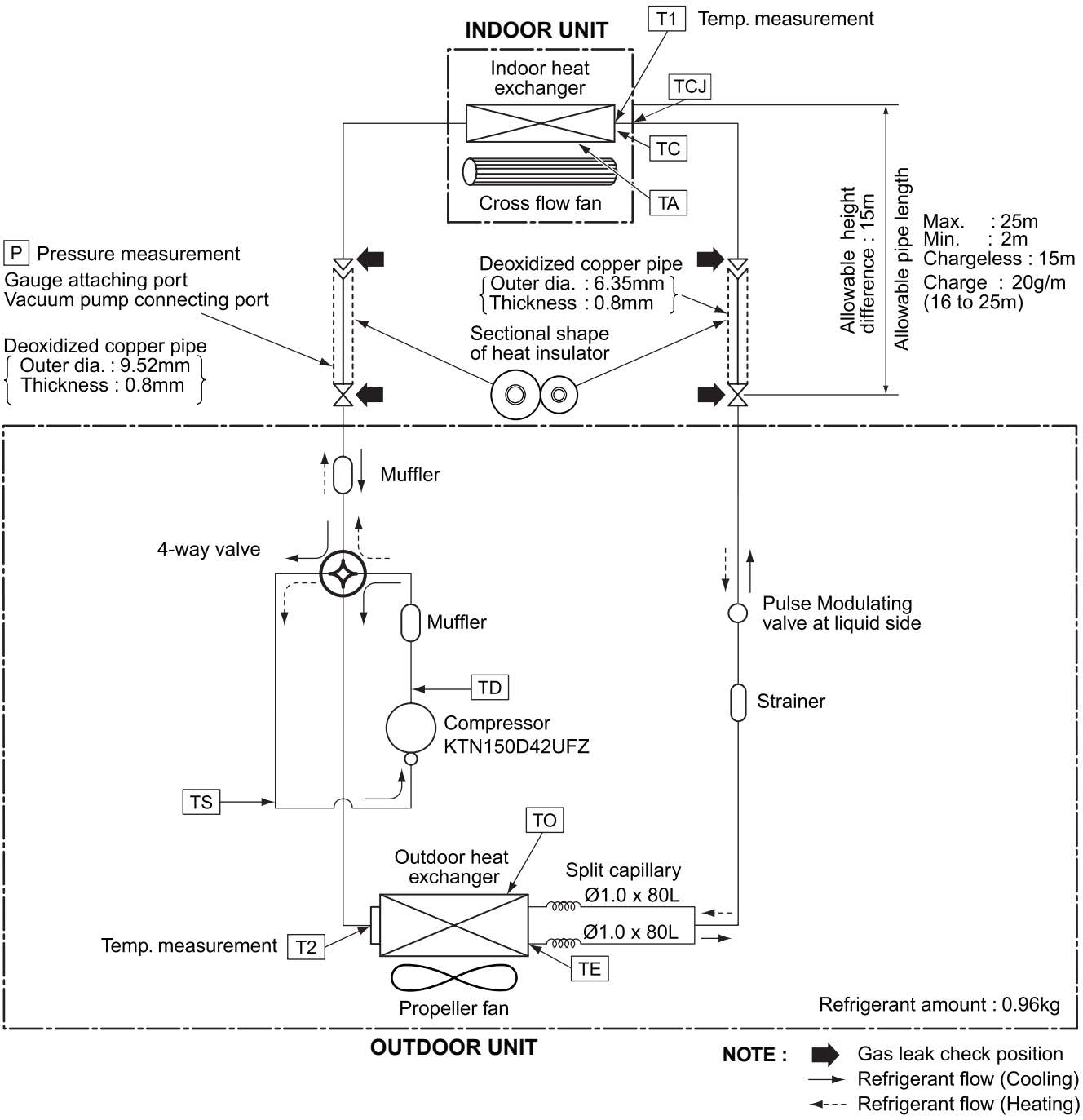
RAS-B10S4KVP(D)G-E ; RAS-10S4AVPG-E



NOTE :

- The maximum pipe length of this air conditioner is 25 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. 200g)

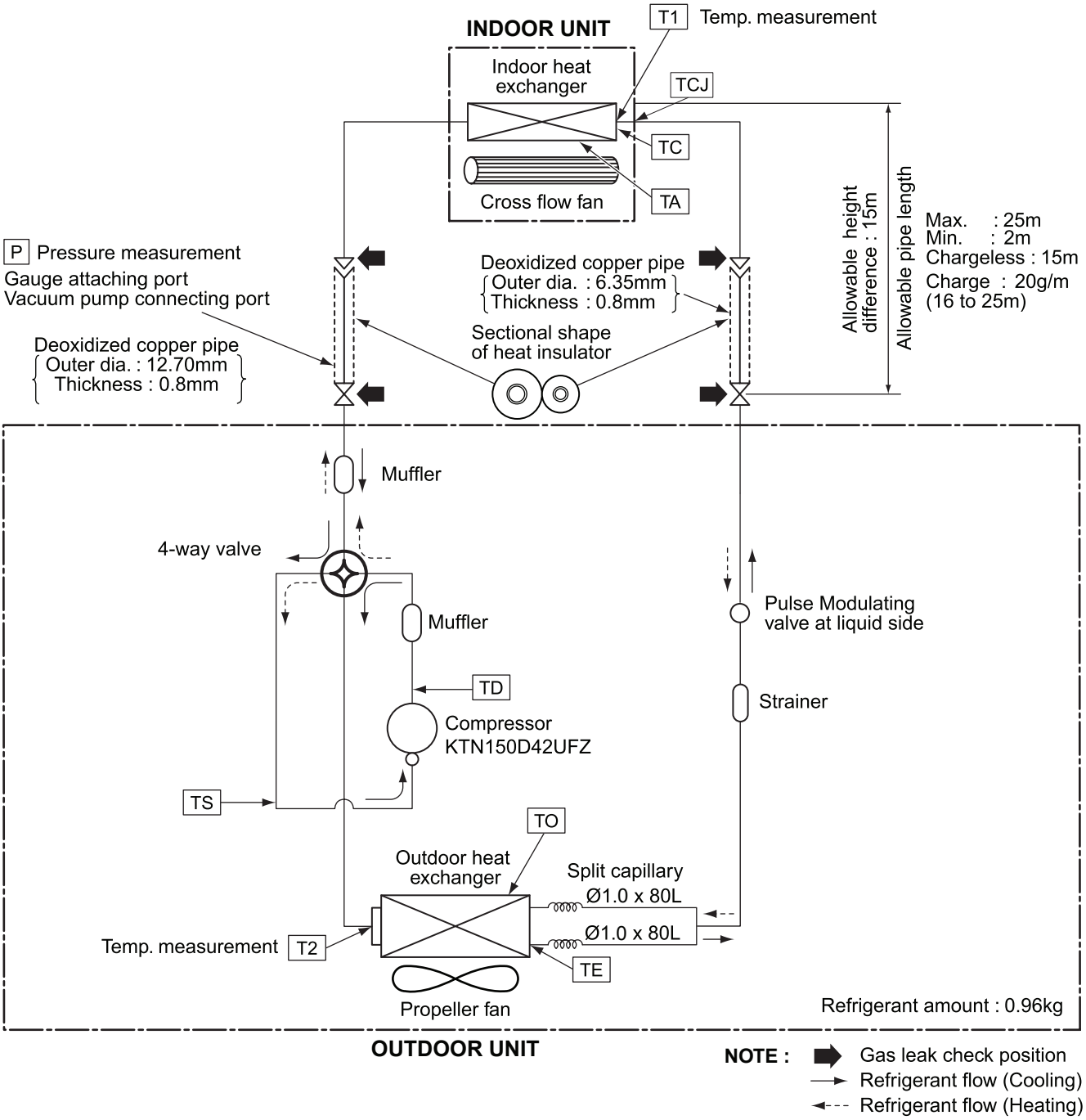
RAS-B13S4KVP(D)G-E ; RAS-13S4AVPG-E



NOTE :

- The maximum pipe length of this air conditioner is 25 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. 200g)

RAS-B18S4KVP(D)G-E ; RAS-18S4AVPG-E

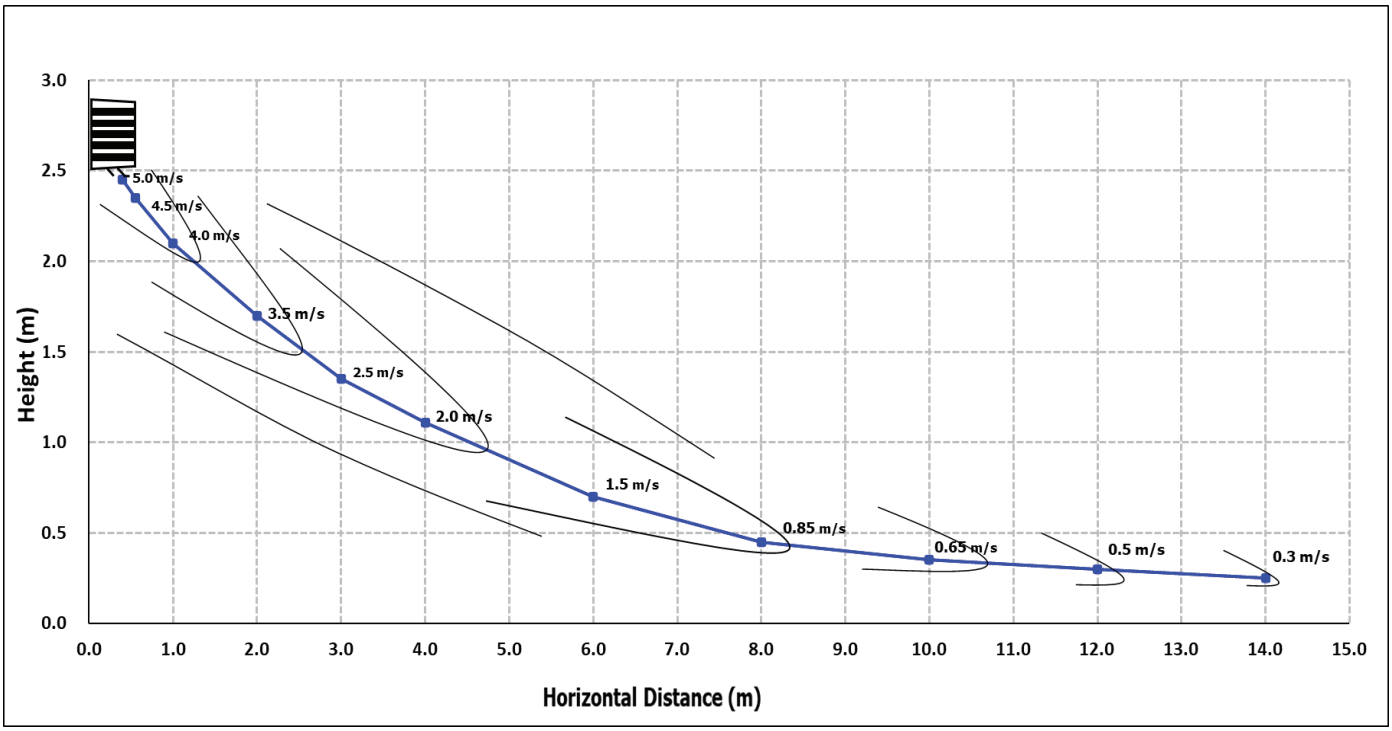


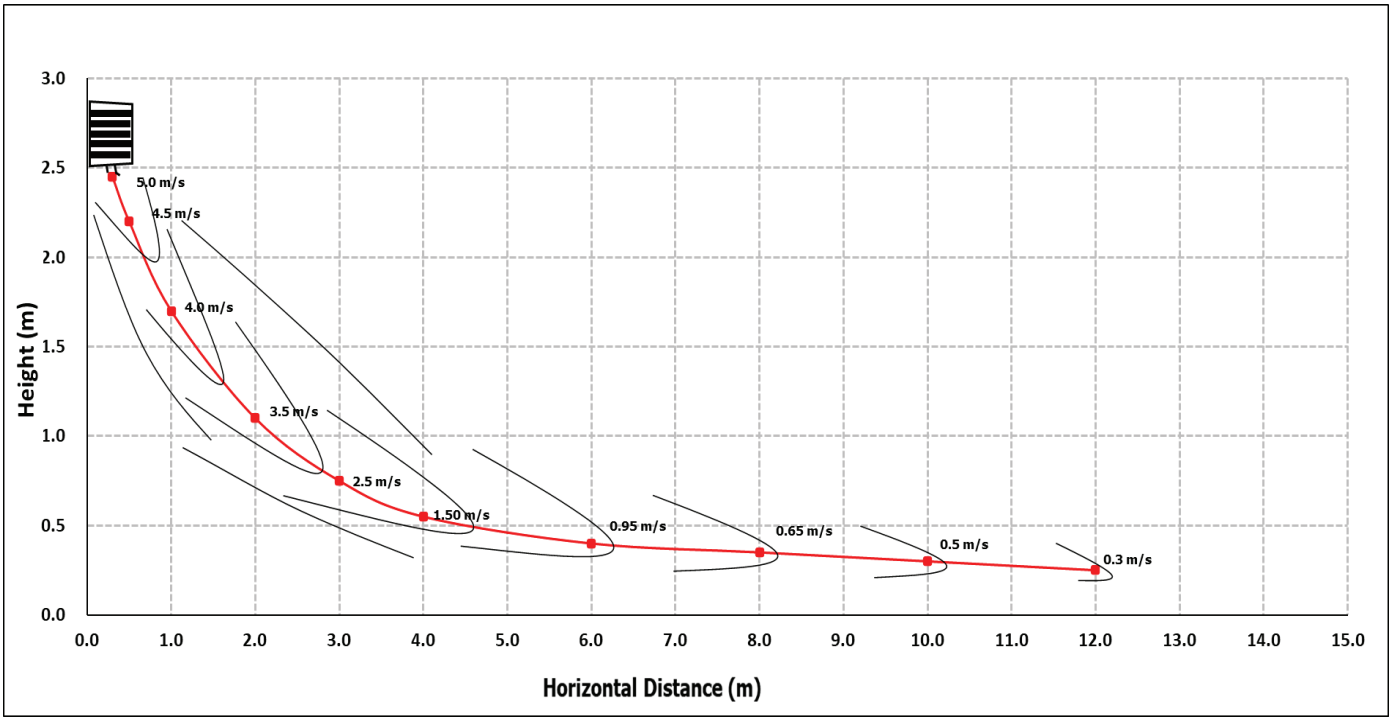
NOTE :

- The maximum pipe length of this air conditioner is 25 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. 200g)

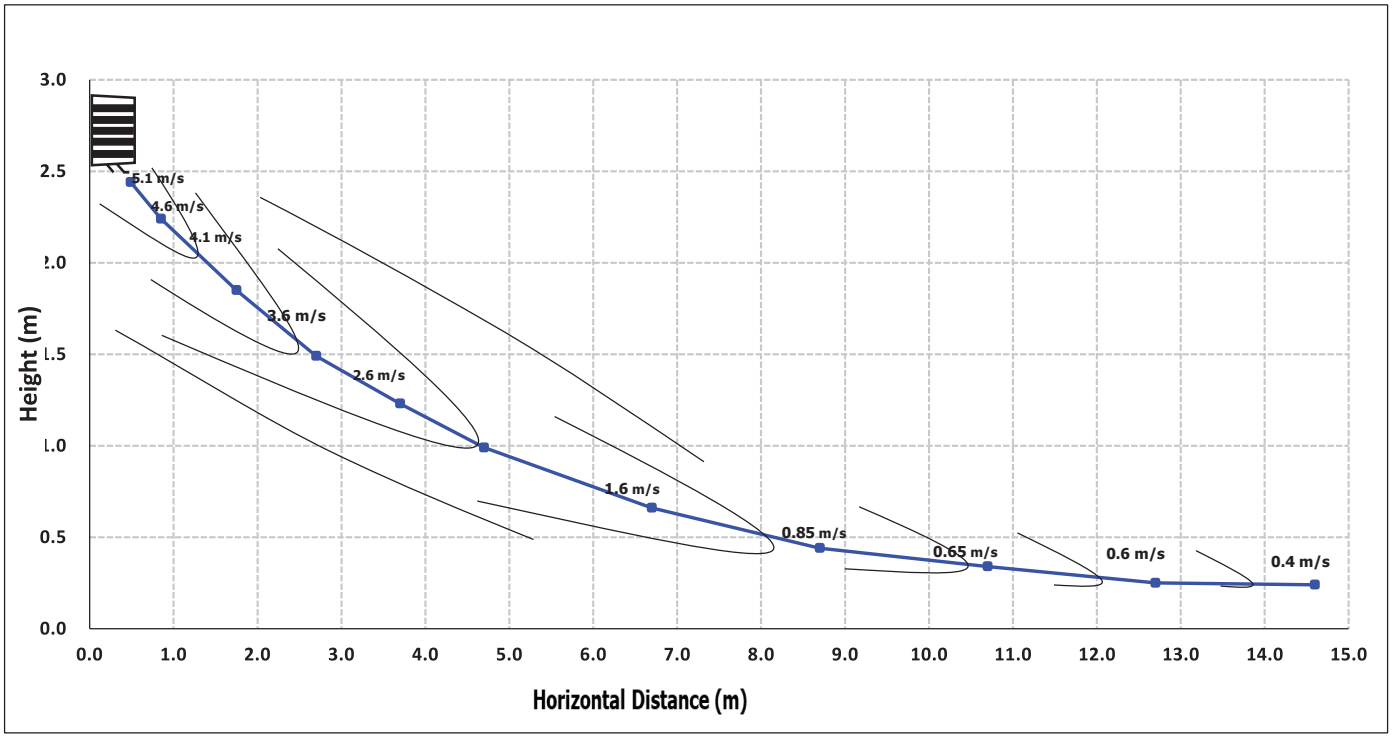
6. Air Speed Distribution

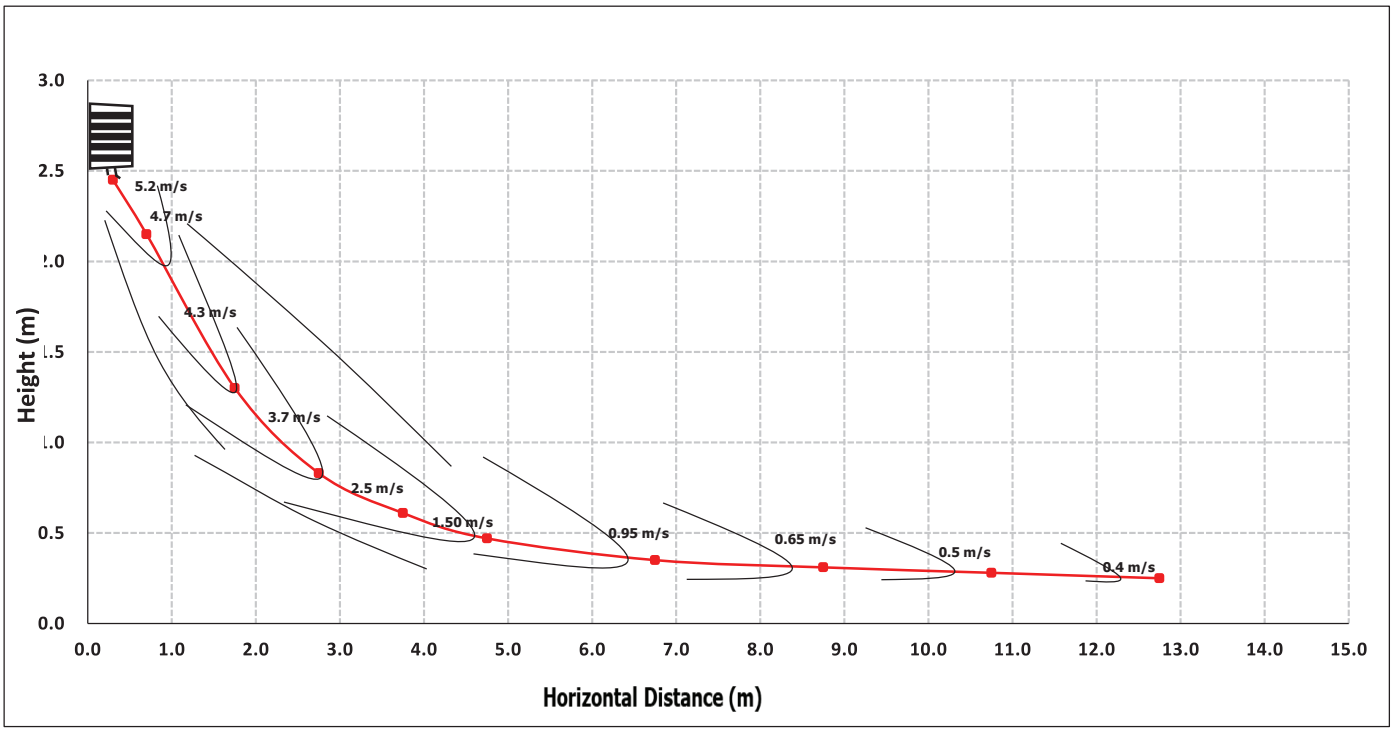
RAS-B10S4KVP(D)G-E



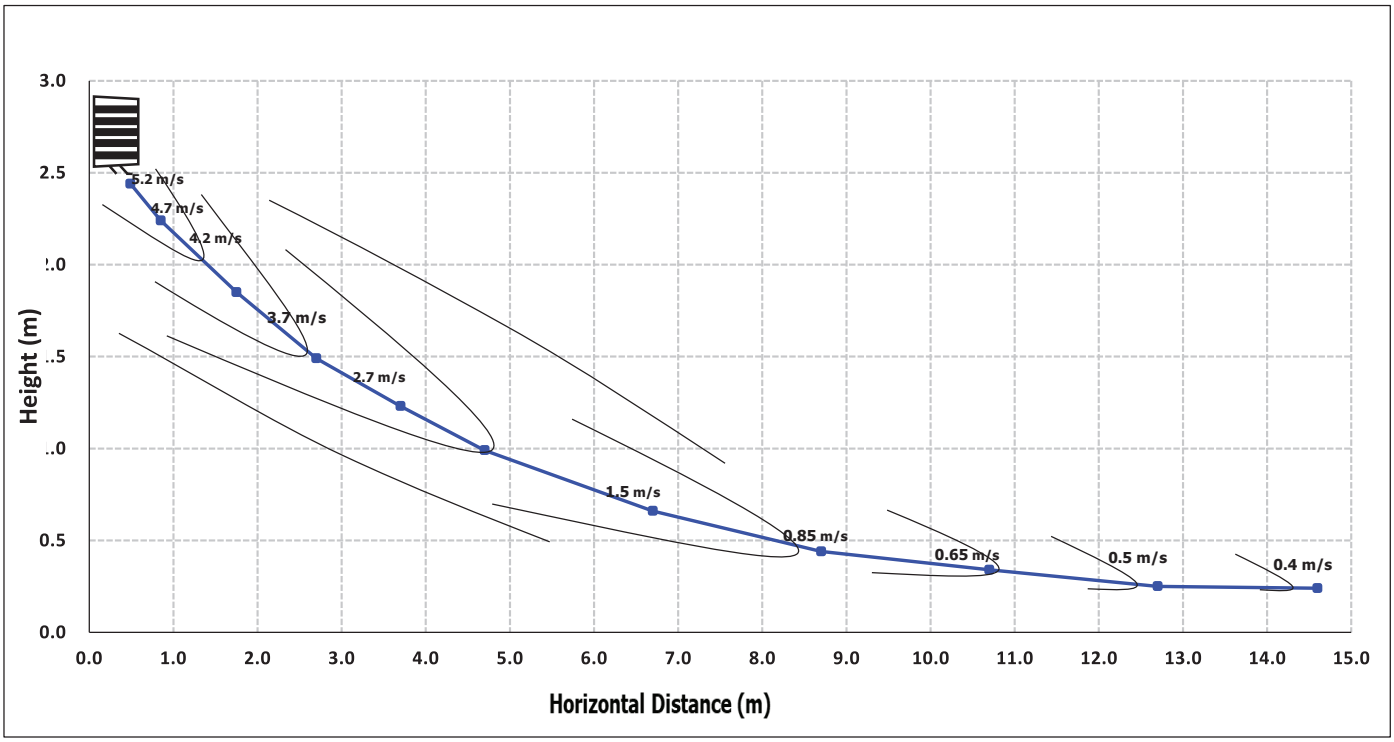


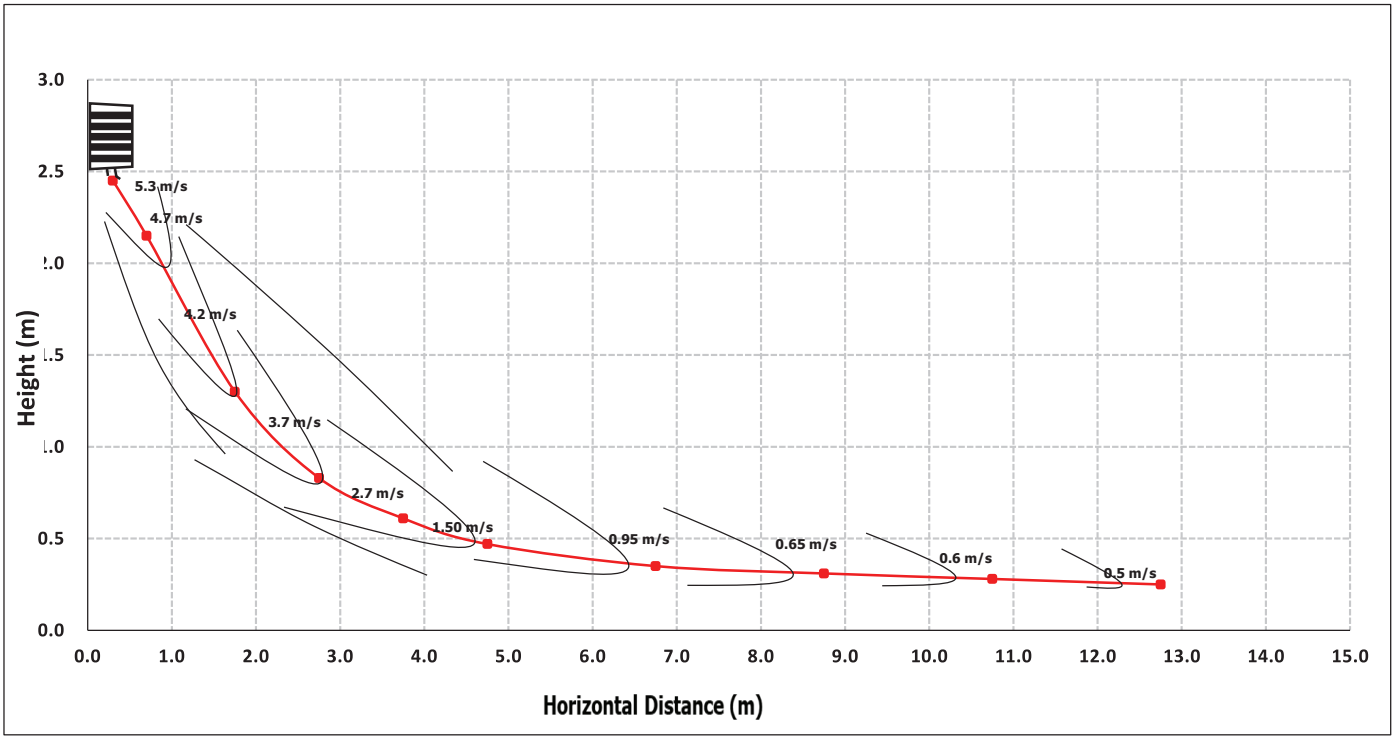
RAS-B13S4KVP(D)G-E





RAS-B18S4KVP(D)G-E



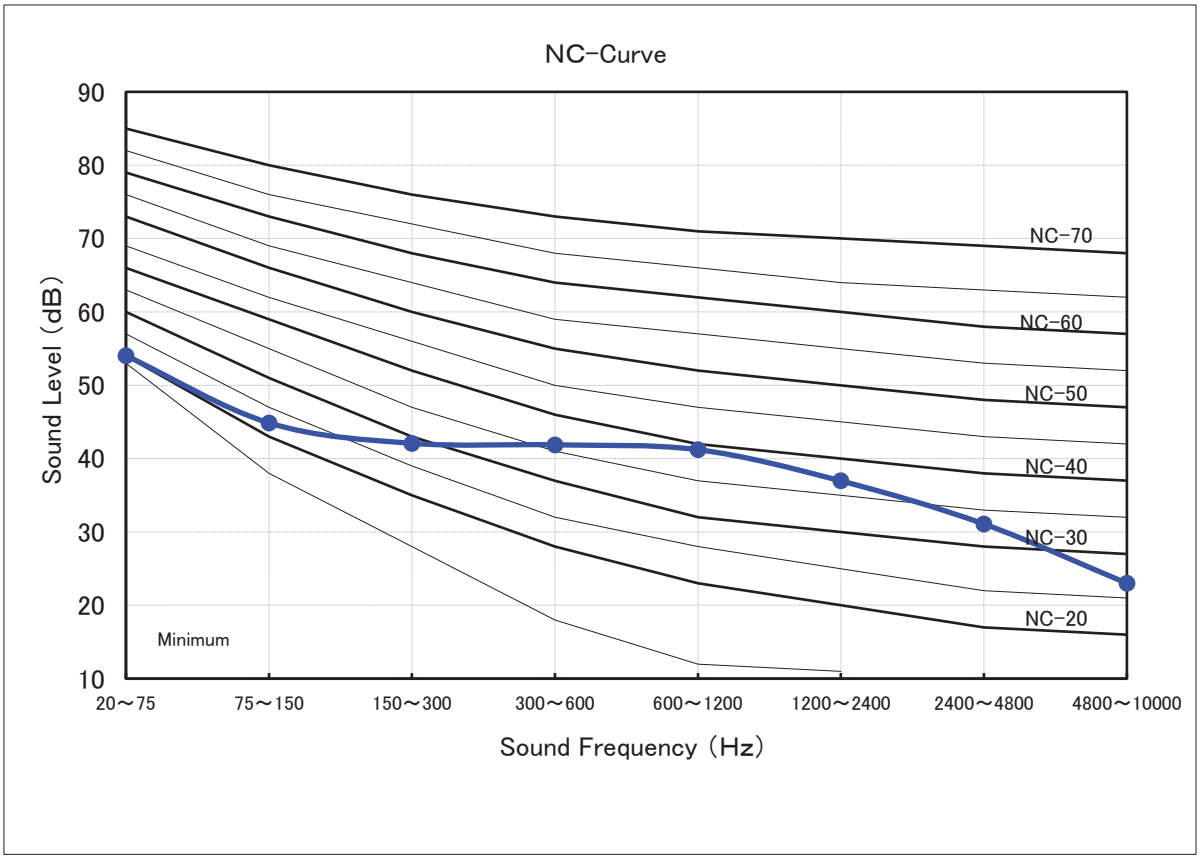


7. Sound Characteristics (NC Curve)

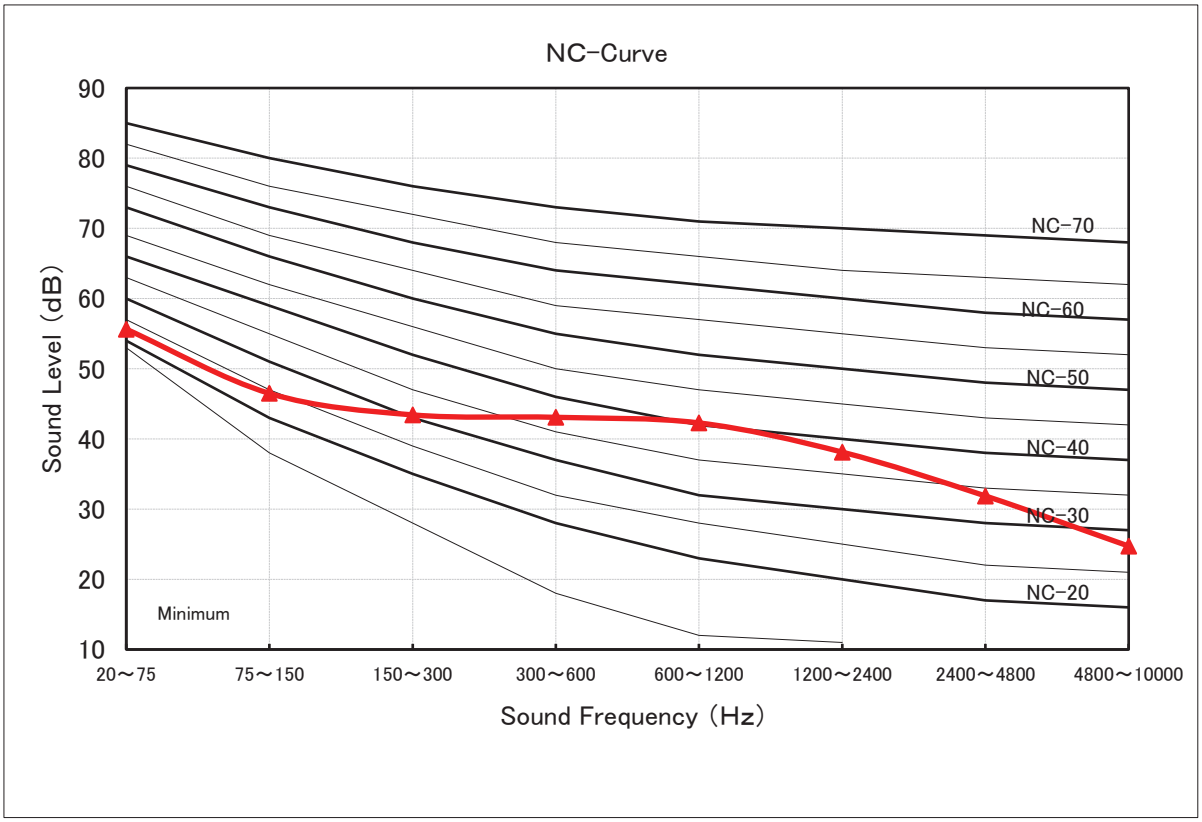
RAS-10S4AVPG-E (Rate Hz)

Measured point	Sound pressure (dB)	
	Cooling	Heating
Horizontal 1.0 m	44	45

Cooling



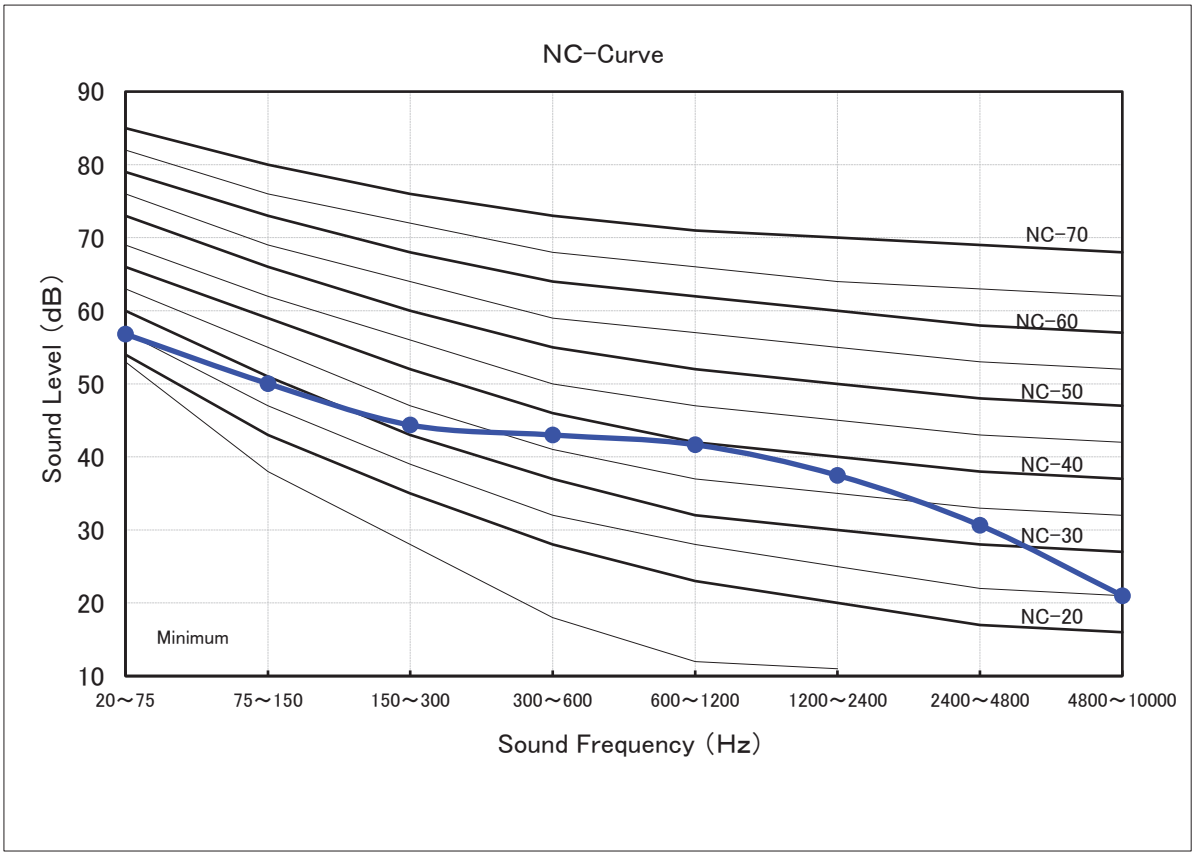
Heating



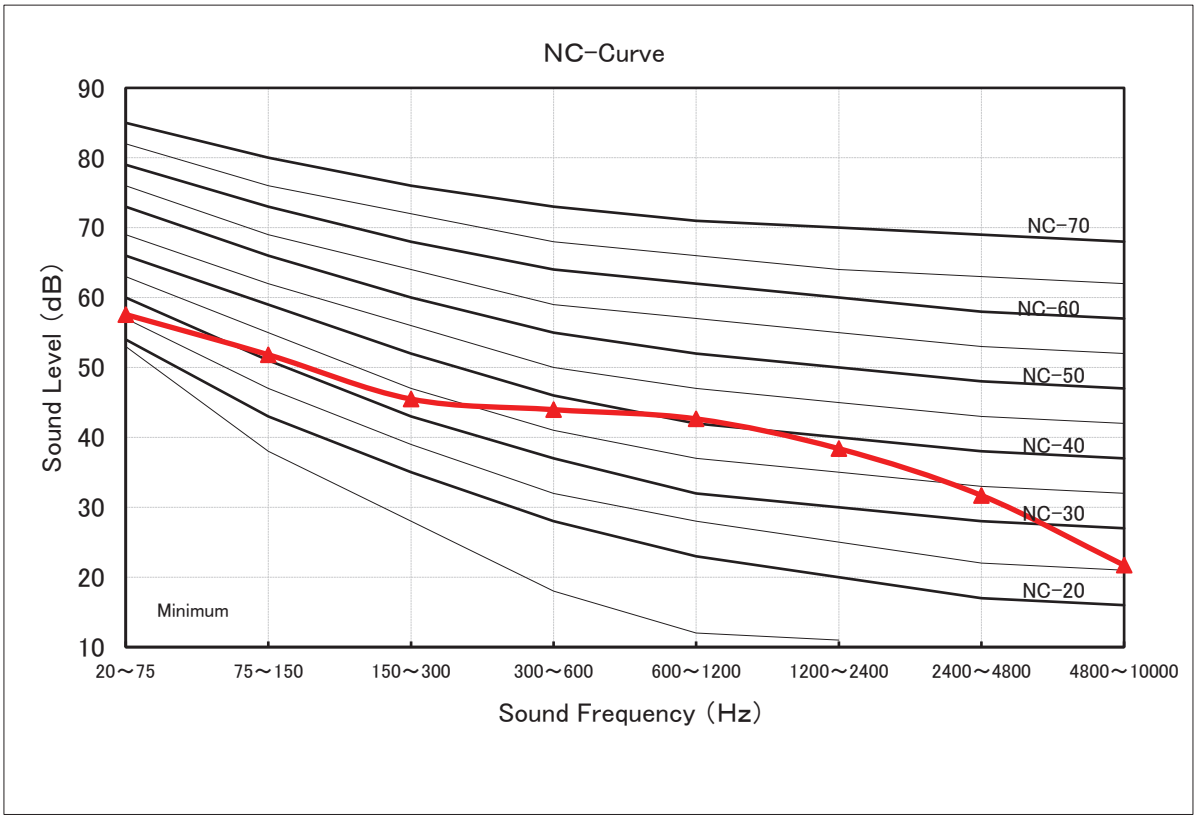
RAS-13S4AVPG-E (Rate Hz)

Measured point	Sound pressure(dB)	
	Cooling	Heating
Horizontal 1.0 m	45	46

Cooling



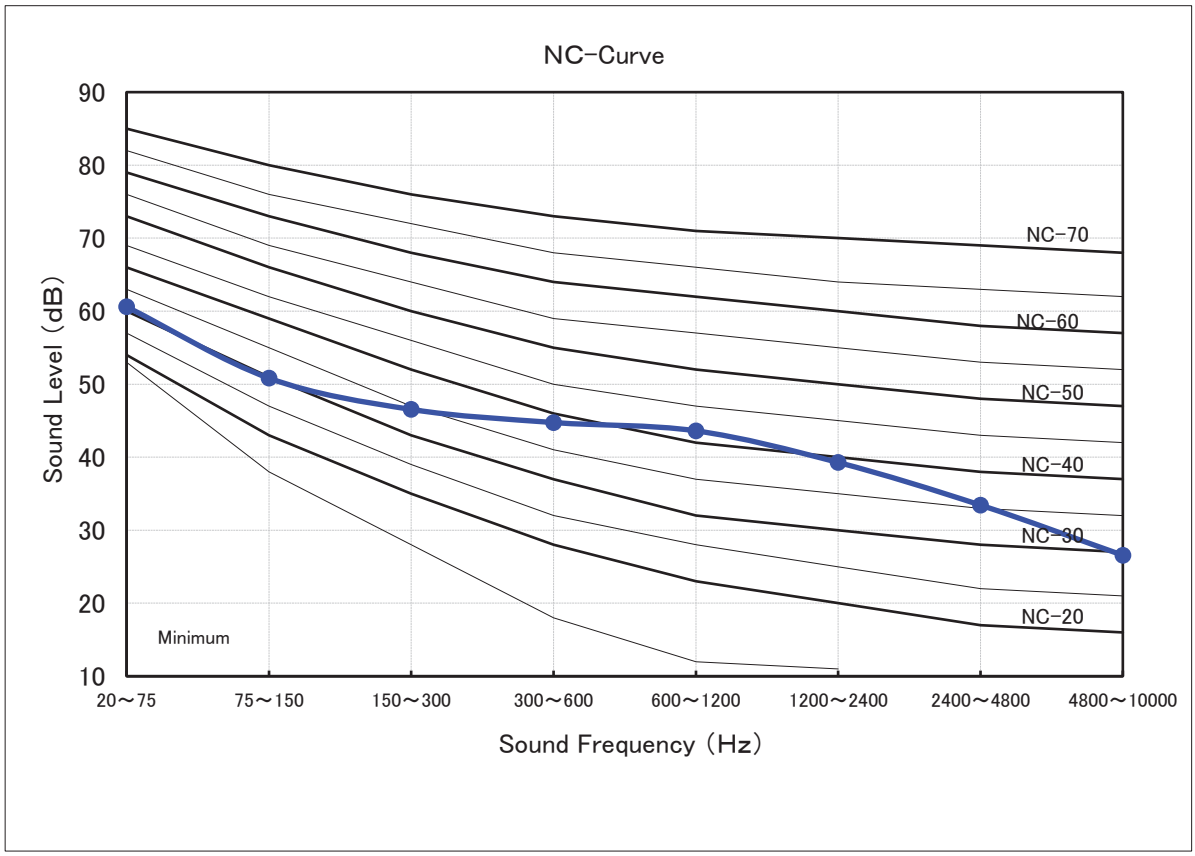
Heating



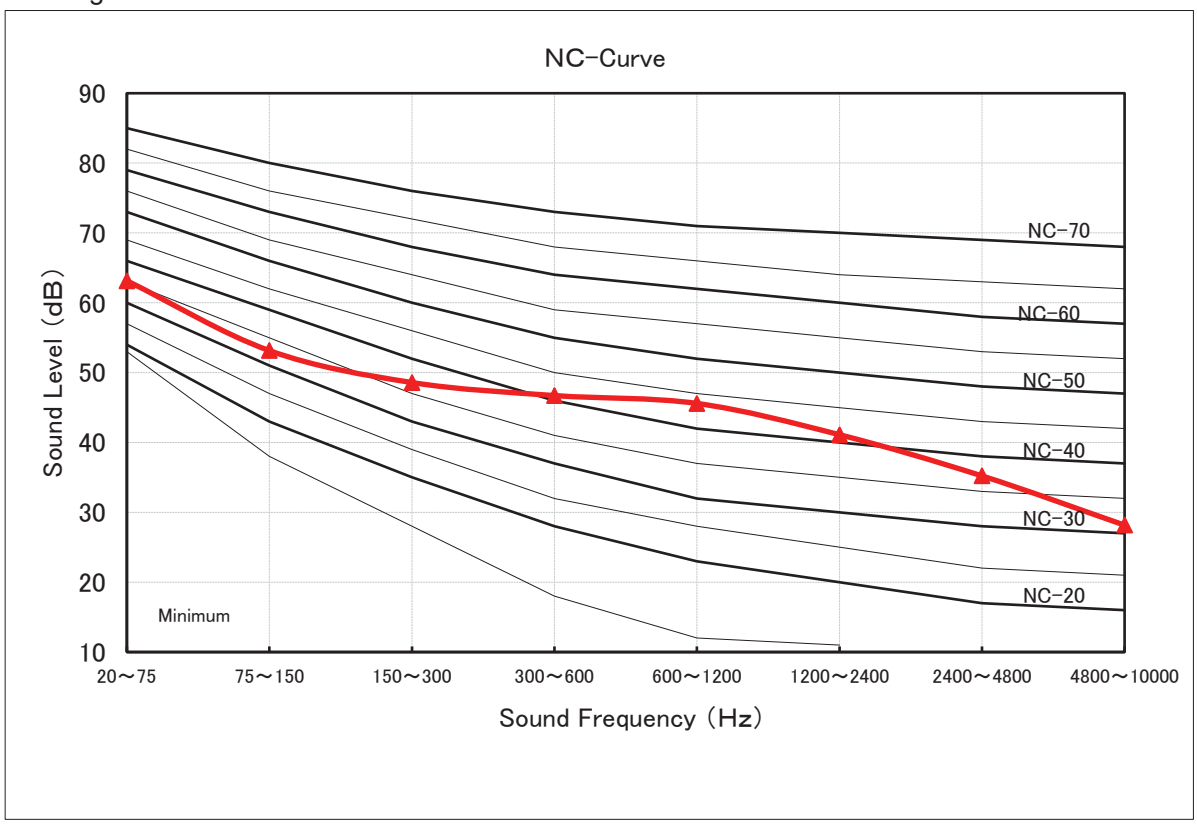
RAS-18S4AVPG-E (Rate Hz)

Measured point	Sound pressure(dB)	
	Cooling	Heating
Horizontal 1.0 m	47	49

Cooling



Heating



8. Capacity Table

Product models : **RAS-B10S4KVP(D)G-E ; RAS-10S4AVPG-E**

Specification of product at standard condition

Standard Condition		
	Indoor	27°C (DB) / 19°C (WB)
	Outdoor	35°C (DB) / 24°C (WB)

Total Cooling Capacity (TC)	2.50	kW
Sensible Heat Capacity (SHC)	2.00	kW

Outdoor air temperature	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)	
DB (°C)	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-B13S4KVP(D)G-E ; RAS-13S4AVPG-E

Specification of product at standard condition

Standard Condition		
	Indoor	27°C (DB) / 19°C (WB)
	Outdoor	35°C (DB) / 24°C (WB)

Total Cooling Capacity (TC)	3.50	kW
Sensible Heat Capacity (SHC)	2.70	kW

Outdoor air temperature	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)	
DB (°C)	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-B18S4KVP(D)G-E ; RAS-18S4AVPG-E

Specification of product at standard condition

Standard Condition		
	Indoor	27°C (DB) / 19°C (WB)
	Outdoor	35°C (DB) / 24°C (WB)

Total Cooling Capacity (TC)	5.00	kW
Sensible Heat Capacity (SHC)	3.50	kW

Outdoor air temperature	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)	
DB (°C)	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	3.69	2.80	4.07	2.98	4.36	3.16	4.49	3.14	4.61	3.13	4.89	3.07	5.11	2.97
44	3.63	2.76	4.01	2.93	4.30	3.11	4.42	3.10	4.55	3.08	4.82	3.02	5.04	2.93
45	3.58	2.72	3.95	2.89	4.23	3.07	4.36	3.05	4.48	3.04	4.75	2.98	4.97	2.89
46	3.53	2.68	3.90	2.85	4.17	3.02	4.29	3.01	4.42	2.99	4.68	2.93	4.89	2.85

9. Part Load Performance

Indoor: RAS-B10S4KVPG-E, RAS-B10S4KVDG-E
Outdoor: RAS-10S4AVPG-E

Operation range		Cooling		Heating	
		Q	P	Q	P
MINIMUM	W	600	160	650	160
RATING	W	2500	470	3200	600
MAXIMUM	W	3500	820	5800	1500

Cooling

Outdoor Temperature	Parts Load (%)																			
	100 (Max)		90		80		72 (Rated)		60		50		40		30		20		10	
DB (°C)	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P
20	4174	644	3756	485	3339	423	2981	369	2504	318	2087	273	1670	228	1252	183	835	132	716	126
21	4129	655	3716	494	3303	430	2949	376	2477	324	2064	278	1652	232	1239	187	826	134	708	128
22	4084	667	3676	503	3267	438	2917	382	2450	329	2042	283	1634	236	1225	190	817	136	700	130
23	4039	679	3635	512	3231	446	2885	389	2423	335	2020	288	1616	241	1212	193	808	139	692	132
24	3994	691	3595	521	3195	453	2853	396	2396	341	1997	293	1598	245	1198	197	799	141	685	135
25	3949	702	3554	529	3159	461	2821	403	2370	347	1975	298	1580	249	1185	200	790	144	677	137
26	3904	714	3514	538	3123	469	2789	409	2343	353	1952	303	1562	253	1171	203	781	146	669	139
27	3859	726	3473	547	3087	477	2757	416	2316	358	1930	308	1544	257	1158	207	772	148	662	142
28	3814	738	3433	556	3052	484	2725	423	2289	364	1907	313	1526	261	1144	210	763	151	654	144
29	3770	749	3393	565	3016	492	2693	430	2262	370	1885	318	1508	266	1131	213	754	153	646	146
30	3725	761	3352	574	2980	500	2660	436	2235	376	1862	323	1490	270	1117	217	745	156	639	149
31	3680	773	3312	583	2944	507	2628	443	2208	382	1840	328	1472	274	1104	220	736	158	631	151
32	3635	785	3271	591	2908	515	2596	450	2181	387	1817	333	1454	278	1090	223	727	160	623	153
33	3590	796	3231	600	2872	523	2564	457	2154	393	1795	338	1436	282	1077	227	718	163	615	155
34	3545	808	3190	609	2836	531	2532	463	2127	399	1772	343	1418	286	1063	230	709	165	608	158
35	**3500**	**820**	**3150**	**618**	**2800**	**538**	**2500**	**470**	**2100**	**405**	**1750**	**348**	**1400**	**291**	**1050**	**233**	**700**	**168**	**600**	**160**
36	3455	832	3110	627	2764	546	2468	477	2073	411	1728	353	1382	295	1037	237	691	170	592	162
37	3410	844	3069	636	2728	554	2436	483	2046	416	1705	358	1364	299	1023	240	682	172	585	165
38	3365	855	3029	645	2692	561	2404	490	2019	422	1683	363	1346	303	1010	243	673	175	577	167
39	3320	867	2988	653	2656	569	2372	497	1992	428	1660	368	1328	307	996	247	664	177	569	169
40	3275	879	2948	662	2620	577	2340	504	1965	434	1638	373	1310	311	983	250	655	180	562	171
41	3231	891	2907	671	2584	585	2308	510	1938	440	1615	378	1292	316	969	253	646	182	554	174
42	3186	902	2867	680	2548	592	2275	517	1911	445	1593	383	1274	320	956	257	637	185	546	176
43	3141	914	2827	689	2513	600	2243	524	1884	451	1570	387	1256	324	942	260	628	187	538	178
44	3096	926	2786	698	2477	608	2211	531	1857	457	1548	392	1238	328	929	264	619	189	531	181
45	3051	938	2746	707	2441	615	2179	537	1831	463	1525	397	1220	332	915	267	610	192	523	183
46	3006	949	2705	715	2405	623	2147	544	1804	469	1503	402	1202	336	902	270	601	194	515	185

Heating

Outdoor Temperature	Parts Load (%)																			
	100 (Max)		90		80		70		60		55 (Rated)		40		30		20		10	
DB (°C)	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P
-20	2000	1000	1800	750	1600	650	1400	549	1200	449	1104	408	801	275	600	207	400	139	224	109
-19	2120	1020	1908	765	1696	663	1484	560	1272	458	1171	417	849	281	636	211	424	142	238	111
-18	2240	1040	2016	780	1792	676	1568	571	1344	467	1237	425	897	286	672	215	448	144	251	113
-17	2360	1060	2124	795	1888	689	1652	582	1416	475	1303	433	945	292	708	219	472	147	265	115
-16	2480	1080	2232	810	1984	702	1736	593	1488	484	1369	441	993	297	745	224	496	150	278	118
-15	2600	1100	2340	825	2080	715	1821	617	1561	504	1436	449	1041	303	781	228	520	153	292	120
-14	2740	1120	2466	840	2192	728	1919	628	1645	513	1513	458	1097	308	823	232	548	156	307	122
-13	2880	1140	2592	855	2304	741	2017	639	1729	522	1590	466	1153	314	865	236	576	158	323	124
-12	3020	1160	2718	870	2416	754	2115	650	1813	531	1668	474	1209	319	907	240	604	161	339	126
-11	3160	1180	2844	885	2528	767	2214	662	1897	540	1745	482	1265	325	949	244	632	164	354	129
-10	3300	1200	2970	900	2640	780	2312	673	1981	550	1822	490	1321	330	991	248	660	167	370	131
-9	3375	1208	3038	907	2700	785	2364	678	2026	553	1864	494	1351	333	1013	250	675	168	378	132
-8	3450	1217	3105	913	2760	791	2417	682	2071	557	1905	497	1381	335	1036	252	690	169	387	133
-7	3525	1225	3173	919	2820	796	2469	687	2116	561	1946	500	1411	337	1058	254	705	170	395	133
-6	3600	1233	3240	925	2880	801	2522	692	2161	565	1988	504	1441	339	1081	255	720	171	404	134
-5	3675	1242	3308	932	2940	807	2574	696	2207	569	2029	507	1471	342	1103	257	736	172	412	135
-4	3750	1250	3375	938	3000	812	2627	701	2252	573	2071	511	1501	344	1126	259	751	174	421	136
-3	3825	1258	3443	944	3060	818	2679	706	2297	576	2112	514	1531	346	1148	261	766	175	429	137
-2	3900	1267	3510	951	3120	823	2732	710	2342	580	2154	517	1561	349	1171	262	781	176	437	138
-1	3975	1275	3578	957	3180	828	2784	715	2387	584	2195	521	1591	351	1193	264	796	177	446	139
0	4050	1283	3645	963	3240	834	2837	720	2432	588	2236	524	1621	353	1216	266	811	178	454	140
1	4125	1292	3713	969	3300	839	2889	724	2477	592	2278	528	1651	355	1238	267	826	179	463	141
2	4200	1300	3780	976	3360	845	2942	729	2522	595	2319	531	1681	358	1261	269	841	181	471	142
3	4269	1315	3842	987	3415	855	2990	739	2563	603	2357	538	1709	363	1282	273	854	183	519	146
4	4337	1330	3903	998	3470	865	3038	749	2604	611	2395	545	1736	367	1302	276	868	185	568	151
5	4406	1346	3965	1010	3525	874	3087	758	2646	619	2433	552	1764	372	1323	280	882	188	616	155
6	5650	1477	5085	1108	4520	960	3955	811	3390	662	3118	591	2260	398	1695	299	1130	201	633	158
7	**5800**	**1500**	**5220**	**1126**	**4640**	**975**	**4060**	**824**	**3480**	**673**	**3200**	**600**	**2320**	**404**	**1740**	**304**	**1160**	**204**	**650**	**160**
8	5950	1523	5355	1143	4760	990	4165	837	3570	683	3283	609	2380	410	1785	309	1190	207	667	162
9	6099	1546	5489	1160	4879	1005	4270	849	3660	694	3366	619	2440	417	1830	314	1220	210	684	165
10	6249	1570	5624	1178	4999	1020	4374	862	3749	704	3448	628	2500	423	1875	318	1250	214	700	167
11	6399	1593	5759	1195	5119	1035	4479	875	3839	715	3531	637	2559	429	1920	323	1280	217	717	170
12	6548	1616	5894	1213	5239	1050	4584	888	3929	725	3613	647	2619	436	1965	328	1310	220	734	172
13	6698	1639	6028	1230	5358	1065	4689	900	4019	735	3696	656	2679	442	2009	332	1340	223	751	175
14	6848	1663	6163	1248	5478	1080	4793	913	4109	746	3779	665	2739	448	2054	337	1370	226	767	177
15	6997	1686	6298	1265	5598	1095	4898	926	4198	756	3861	674	2799	454	2099	342	1399	229	784	180
16	7147	1709	6432	1282	5718	1111	5003	939	4288	767	3944	684	2859	461	2144	347	1429	233	801	182
17	7297	1732	6567	1300	5837	1126	5108	951	4378	777	4026	693	2919	467	2189	351	1459	236	818	185
18	7446	1755	6702	1317	5957	1141	5213	964	4468	787	4109	702	2979	473	2234	356	1489	239	835	187
19	7596	1779	6837	1335	6077	1156	5317	977	4558	798	4192	712	3038	479	2279	361	1519	242	851	190
20	7746	1802	6971	1352	6197	1171	5422	990	4647	808	4274	721	3098	486	2324	365	1549	245	868	192
21	7895	1825	7106	1370	6316	1186	5527	1002	4737	819	4357	730	3158	492	2369	370	1579	248	885	195
22	8045	1848	7241	1387	6436	1201	5632	1015	4827	829	4439	739	3218	498	2414	375	1609	251	902	197
23	8195	1872	7375	1404	6556	1216	5736	1028	4917	840	4522	749	3278	504	2458	380	1639	255	918	200
24	8345	1895	7510	1422	6676	1231	5841	1041	5007	850	4605	758	3338	511	2503	384	1669	258	935	202

Indoor: RAS-B13S4KVPG-E, RAS-B13S4KVDG-E
Outdoor: RAS-13S4AVPG-E

Operation range		Cooling		Heating	
		Q	P	Q	P
MINIMUM	W	900	200	700	180
RATING	W	3500	800	4000	800
MAXIMUM	W	4200	1100	6300	1600

Cooling

Outdoor Temperature	Parts Load (%)																			
	100 (Max)		90		83 (Rated)		70		60		50		40		30		20		10	
DB (°C)	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P
20	5009	864	4508	688	4174	628	3506	508	3005	418	2504	299	2003	223	1503	190	1073	157	1073	157
21	4955	879	4459	701	4129	639	3468	517	2973	426	2477	304	1982	227	1486	194	1062	160	1062	160
22	4901	895	4411	713	4084	651	3430	527	2940	433	2450	310	1960	231	1470	197	1050	163	1050	163
23	4847	911	4362	726	4039	662	3393	536	2908	441	2423	315	1939	235	1454	201	1039	166	1039	166
24	4793	927	4314	738	3994	674	3355	545	2876	449	2396	321	1917	239	1438	204	1027	168	1027	168
25	4739	942	4265	751	3949	685	3317	554	2843	456	2370	326	1896	243	1422	208	1016	171	1016	171
26	4685	958	4217	763	3904	697	3280	564	2811	464	2343	332	1874	247	1406	211	1004	174	1004	174
27	4631	974	4168	776	3859	708	3242	573	2779	472	2316	337	1852	251	1389	215	992	177	992	177
28	4577	990	4120	788	3814	720	3204	582	2746	479	2289	343	1831	255	1373	218	981	180	981	180
29	4523	1005	4071	801	3769	731	3166	592	2714	487	2262	348	1809	259	1357	222	969	183	969	183
30	4470	1021	4023	814	3724	743	3129	601	2682	495	2235	353	1788	264	1341	225	958	186	958	186
31	4416	1037	3974	826	3680	754	3091	610	2649	502	2208	359	1766	268	1325	228	946	189	946	189
32	4362	1053	3926	839	3635	766	3053	619	2617	510	2181	364	1745	272	1309	232	935	191	935	191
33	4308	1068	3877	851	3590	777	3015	629	2585	517	2154	370	1723	276	1292	235	923	194	923	194
34	4254	1084	3829	864	3545	788	2978	638	2552	525	2127	375	1702	280	1276	239	912	197	912	197
35	**4200**	**1100**	**3780**	**876**	**3500**	**800**	**2940**	**647**	**2520**	**533**	**2100**	**381**	**1680**	**284**	**1260**	**242**	**900**	**200**	**900**	**200**
36	4146	1116	3731	889	3455	811	2902	657	2488	540	2073	386	1658	288	1244	246	888	203	888	203
37	4092	1132	3683	901	3410	823	2865	666	2455	548	2046	392	1637	292	1228	249	877	206	877	206
38	4038	1147	3634	914	3365	834	2827	675	2423	556	2019	397	1615	296	1211	253	865	209	865	209
39	3984	1163	3586	927	3320	846	2789	684	2391	563	1992	403	1594	300	1195	256	854	211	854	211
40	3931	1179	3537	939	3275	857	2751	694	2358	571	1965	408	1572	304	1179	260	842	214	842	214
41	3877	1195	3489	952	3230	869	2714	703	2326	579	1938	414	1551	308	1163	263	831	217	831	217
42	3823	1210	3440	964	3185	880	2676	712	2294	586	1911	419	1529	312	1147	267	819	220	819	220
43	3769	1226	3392	977	3141	892	2638	721	2261	594	1884	424	1508	316	1131	270	808	223	808	223
44	3715	1242	3343	989	3096	903	2600	731	2229	601	1857	430	1486	320	1114	274	796	226	796	226
45	3661	1258	3295	1002	3051	915	2563	740	2197	609	1831	435	1464	325	1098	277	785	229	785	229
46	3607	1273	3246	1015	3006	926	2525	749	2164	617	1804	441	1443	329	1082	281	773	232	773	232

Heating

Outdoor Temperature	Parts Load (%)																			
	100 (Max)		90		80		70		63 (Rated)		50		40		30		20		10	
DB (°C)	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P
-20	2400	1050	2160	803	1920	698	1680	593	1524	525	1141	339	913	268	685	197	457	152	254	108
-19	2520	1080	2268	826	2016	718	1764	610	1600	540	1198	349	959	276	719	203	479	156	266	111
-18	2640	1110	2376	849	2112	738	1848	627	1676	555	1255	359	1004	284	753	209	502	160	279	114
-17	2760	1140	2484	872	2208	758	1932	644	1752	570	1313	368	1050	291	788	214	525	165	292	117
-16	2880	1170	2592	895	2304	778	2016	661	1829	585	1370	378	1096	299	822	220	548	169	304	120
-15	3000	1200	2700	918	2400	798	1997	619	1812	548	1427	388	1141	307	856	226	571	173	317	123
-14	3160	1230	2844	941	2528	818	2104	635	1908	562	1503	398	1202	314	902	231	601	178	334	126
-13	3320	1260	2988	963	2656	838	2210	650	2005	575	1579	407	1263	322	947	237	632	182	351	129
-12	3480	1290	3132	986	2784	858	2317	666	2101	589	1655	417	1324	330	993	243	662	187	368	133
-11	3640	1320	3276	1009	2912	878	2423	681	2198	603	1731	427	1385	337	1039	248	692	191	385	136
-10	3800	1350	3420	1032	3040	898	2530	697	2295	617	1807	436	1446	345	1084	254	723	195	402	139
-9	3883	1367	3495	1045	3107	909	2585	705	2345	624	1847	442	1477	349	1108	257	739	198	410	140
-8	3967	1383	3570	1058	3173	920	2641	714	2395	632	1886	447	1509	354	1132	260	755	200	419	142
-7	4050	1400	3645	1071	3240	931	2696	723	2446	639	1926	452	1541	358	1156	263	770	202	428	144
-6	4133	1417	3720	1083	3307	942	2752	731	2496	647	1966	458	1572	362	1179	266	786	205	437	146
-5	4217	1433	3795	1096	3373	953	2807	740	2546	655	2005	463	1604	366	1203	270	802	207	446	147
-4	4300	1450	3870	1109	3440	964	2863	748	2597	662	2045	469	1636	371	1227	273	818	210	454	149
-3	4383	1467	3945	1122	3507	975	2918	757	2647	670	2084	474	1668	375	1251	276	834	212	463	151
-2	4467	1483	4020	1134	3573	986	2974	766	2697	677	2124	479	1699	379	1274	279	850	214	472	152
-1	4550	1500	4095	1147	3640	997	3029	774	2747	685	2164	485	1731	383	1298	282	865	217	481	154
0	4633	1517	4170	1160	3707	1008	3085	783	2798	693	2203	490	1763	388	1322	285	881	219	490	156
1	4717	1533	4245	1172	3773	1019	3140	791	2848	700	2243	496	1794	392	1346	288	897	222	498	158
2	4800	1550	4320	1185	3840	1030	3196	800	2898	708	2283	501	1826	396	1370	291	913	224	507	159
3	4897	1582	4407	1210	3918	1052	3248	811	2946	717	2320	508	1856	402	1392	295	928	227	559	164
4	4994	1614	4495	1234	3995	1073	3300	821	2993	727	2357	514	1886	407	1414	299	943	230	612	169
5	5091	1645	4582	1258	4073	1094	3353	832	3041	737	2395	521	1916	412	1437	303	958	233	664	174
6	6137	1575	5524	1205	4910	1047	4296	890	3897	788	3069	557	2455	441	1841	324	1227	249	682	177
7	**6300**	**1600**	**5670**	**1223**	**5040**	**1064**	**4410**	**904**	**4000**	**800**	**3150**	**566**	**2520**	**448**	**1890**	**329**	**1260**	**253**	**700**	**180**
8	6463	1625	5816	1242	5170	1080	4524	918	4103	812	3231	575	2585	455	1939	334	1293	257	718	183
9	6625	1650	5963	1261	5300	1097	4638	932	4206	825	3313	584	2650	462	1988	340	1325	261	736	186
10	6788	1674	6109	1280	5430	1113	4751	946	4310	837	3394	592	2715	468	2036	345	1358	265	754	188
11	6950	1699	6255	1299	5560	1130	4865	960	4413	850	3475	601	2780	475	2085	350	1390	269	772	191
12	7113	1724	6402	1318	5690	1146	4979	974	4516	862	3556	610	2845	482	2134	355	1423	273	790	194
13	7275	1749	6548	1337	5820	1163	5093	988	4619	874	3638	619	2910	489	2183	360	1455	277	808	197
14	7438	1773	6694	1356	5950	1179	5207	1002	4722	887	3719	627	2975	496	2231	365	1488	281	826	200
15	7601	1798	6841	1375	6081	1195	5320	1016	4826	899	3800	636	3040	503	2280	370	1520	285	845	202
16	7763	1823	6987	1394	6211	1212	5434	1030	4929	911	3882	645	3105	510	2329	375	1553	289	863	205
17	7926	1848	7133	1413	6341	1228	5548	1044	5032	924	3963	654	3170	517	2378	380	1585	292	881	208
18	8088	1873	7280	1432	6471	1245	5662	1058	5135	936	4044	662	3235	524	2427	385	1618	296	899	211
19	8251	1897	7426	1451	6601	1261	5776	1072	5239	949	4125	671	3300	531	2475	391	1650	300	917	213
20	8414	1922	7572	1470	6731	1278	5889	1086	5342	961	4207	680	3365	538	2524	396	1683	304	935	216
21	8576	1947	7719	1489	6861	1294	6003	1100	5445	973	4288	689	3430	545	2573	401	1715	308	953	219
22	8739	1972	7865	1508	6991	1311	6117	1114	5548	986	4369	698	3495	552	2622	406	1748	312	971	222
23	8901	1996	8011	1527	7121	1327	6231	1128	5651	998	4451	706	3561	559	2670	411	1780	316	989	225
24	9064	2021	8157	1546	7251	1344	6345	1142	5755	1011	4532	715	3626	566	2719	416	1813	320	1007	227

Indoor: RAS-B18S4KVPG-E, RAS-B18S4KVDG-E
Outdoor: RAS-18S4AVPG-E

Operation range		Cooling		Heating	
		Q	P	Q	P
MINIMUM	W	900	200	800	190
RATING	W	5000	1400	6000	1450
MAXIMUM	W	6000	2200	7200	1900

Cooling

Outdoor Temperature	Parts Load (%)																			
	100 (Max)		90		83 (Rated)		70		60		50		40		30		20		10	
DB (°C)	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P
20	7155	1727	6440	1222	5962	1099	5009	853	4293	668	3578	500	2862	370	2147	285	1431	200	1073	157
21	7078	1759	6370	1244	5898	1119	4955	868	4247	680	3539	509	2831	377	2123	290	1416	203	1062	160
22	7001	1790	6301	1267	5834	1139	4901	884	4201	692	3501	518	2800	384	2100	295	1400	207	1050	163
23	6924	1822	6232	1289	5770	1159	4847	899	4154	705	3462	527	2770	391	2077	301	1385	211	1039	166
24	6847	1853	6162	1311	5706	1179	4793	915	4108	717	3424	536	2739	397	2054	306	1369	214	1027	168
25	6770	1885	6093	1334	5641	1199	4739	931	4062	729	3385	545	2708	404	2031	311	1354	218	1016	171
26	6693	1916	6024	1356	5577	1219	4685	946	4016	741	3347	554	2677	411	2008	316	1339	222	1004	174
27	6616	1948	5954	1378	5513	1239	4631	962	3970	753	3308	563	2646	418	1985	321	1323	225	992	177
28	6539	1979	5885	1401	5449	1259	4577	977	3923	766	3270	572	2616	425	1962	327	1308	229	981	180
29	6462	2011	5816	1423	5385	1280	4523	993	3877	778	3231	582	2585	431	1939	332	1292	232	969	183
30	6385	2042	5747	1445	5321	1300	4470	1008	3831	790	3193	591	2554	438	1916	337	1277	236	958	186
31	6308	2074	5677	1468	5256	1320	4416	1024	3785	802	3154	600	2523	445	1892	342	1262	240	946	189
32	6231	2105	5608	1490	5192	1340	4362	1040	3739	814	3116	609	2492	452	1869	348	1246	243	935	191
33	6154	2137	5539	1512	5128	1360	4308	1055	3692	827	3077	618	2462	458	1846	353	1231	247	923	194
34	6077	2168	5469	1535	5064	1380	4254	1071	3646	839	3039	627	2431	465	1823	358	1215	251	912	197
35	**6000**	**2200**	**5400**	**1557**	**5000**	**1400**	**4200**	**1086**	**3600**	**851**	**3000**	**636**	**2400**	**472**	**1800**	**363**	**1200**	**254**	**900**	**200**
36	5923	2232	5331	1579	4936	1420	4146	1102	3554	863	2962	645	2369	479	1777	368	1185	258	888	203
37	5846	2263	5261	1601	4871	1440	4092	1117	3508	875	2923	655	2338	485	1754	374	1169	262	877	206
38	5769	2295	5192	1624	4807	1460	4038	1133	3461	888	2885	664	2308	492	1731	379	1154	265	865	209
39	5692	2326	5123	1646	4743	1480	3984	1149	3415	900	2846	673	2277	499	1708	384	1138	269	854	211
40	5615	2358	5054	1668	4679	1500	3931	1164	3369	912	2808	682	2246	506	1685	389	1123	273	842	214
41	5538	2389	4984	1691	4615	1520	3877	1180	3323	924	2769	691	2215	512	1661	394	1108	276	831	217
42	5461	2421	4915	1713	4551	1540	3823	1195	3277	936	2731	700	2184	519	1638	400	1092	280	819	220
43	5384	2452	4846	1735	4486	1560	3769	1211	3230	949	2692	709	2154	526	1615	405	1077	284	808	223
44	5307	2484	4776	1758	4422	1581	3715	1226	3184	961	2654	718	2123	533	1592	410	1061	287	796	226
45	5153	2434	4638	1723	4294	1549	3661	1242	3138	973	2615	728	2092	540	1569	415	1046	291	785	229
46	5049	2434	4544	1723	4207	1549	3607	1258	3092	985	2577	737	2061	546	1546	420	1031	294	773	232

Heating

Outdoor Temperature	Parts Load (%)																			
	100 (Max)		90		83 (Rated)		70		60		50		40		30		20		10	
DB (°C)	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P
-20	2500	1060	2250	880	2083	809	1750	679	1500	582	1208	377	966	282	725	188	483	160	268	103
-19	2640	1098	2376	912	2200	838	1848	704	1584	603	1275	391	1020	293	765	195	510	166	283	107
-18	2780	1136	2502	944	2317	867	1946	728	1668	624	1343	404	1074	303	806	201	537	171	298	110
-17	2920	1174	2628	975	2433	896	2044	752	1752	644	1411	418	1129	313	846	208	564	177	313	114
-16	3060	1212	2754	1007	2550	925	2142	777	1836	665	1478	431	1183	323	887	215	591	183	329	118
-15	3200	1250	2880	1038	2667	954	2164	778	1855	667	1546	445	1237	333	928	222	618	188	344	121
-14	3420	1294	3078	1075	2850	987	2313	806	1983	690	1652	460	1322	345	991	229	661	195	367	126
-13	3640	1338	3276	1111	3033	1021	2462	833	2110	714	1758	476	1407	357	1055	237	703	202	391	130
-12	3860	1382	3474	1148	3217	1055	2611	861	2238	737	1865	492	1492	368	1119	245	746	208	414	134
-11	4080	1426	3672	1185	3400	1088	2759	888	2365	761	1971	507	1577	380	1183	253	788	215	438	139
-10	4300	1470	3870	1221	3583	1122	2908	915	2493	784	2077	523	1662	392	1246	261	831	222	462	143
-9	4392	1492	3953	1239	3660	1138	2970	929	2546	796	2122	531	1697	397	1273	264	849	225	471	145
-8	4483	1513	4035	1257	3736	1155	3032	942	2599	807	2166	538	1733	403	1300	268	866	228	481	147
-7	4575	1535	4118	1275	3812	1171	3094	956	2652	819	2210	546	1768	409	1326	272	884	231	491	149
-6	4667	1557	4200	1293	3889	1188	3156	969	2705	830	2254	554	1804	415	1353	276	902	235	501	151
-5	4758	1578	4283	1311	3965	1204	3218	983	2758	842	2299	561	1839	421	1379	280	919	238	511	153
-4	4850	1600	4365	1329	4042	1221	3280	996	2812	854	2343	569	1874	426	1406	284	937	241	521	156
-3	4942	1622	4448	1347	4118	1238	3342	1010	2865	865	2387	577	1910	432	1432	287	955	244	531	158
-2	5033	1643	4530	1365	4194	1254	3404	1023	2918	877	2432	585	1945	438	1459	291	973	248	540	160
-1	5125	1665	4613	1383	4271	1271	3466	1037	2971	888	2476	592	1981	444	1486	295	990	251	550	162
0	5217	1687	4695	1401	4347	1287	3528	1050	3024	900	2520	600	2016	449	1512	299	1008	254	560	164
1	5308	1708	4778	1419	4423	1304	3590	1064	3077	911	2564	608	2052	455	1539	303	1026	258	570	166
2	5400	1730	4860	1437	4500	1320	3652	1077	3130	923	2609	615	2087	461	1565	307	1043	261	580	168
3	5503	1757	4953	1460	4586	1341	3712	1092	3182	935	2651	624	2121	467	1591	311	1061	264	639	173
4	5606	1784	5045	1482	4671	1362	3772	1106	3233	948	2694	632	2155	473	1616	315	1078	268	699	179
5	5709	1812	5138	1505	4757	1383	3832	1121	3284	960	2737	640	2190	480	1642	319	1095	271	759	184
6	7014	1871	6313	1554	5845	1427	4910	1199	4209	1027	3507	685	2806	513	2104	341	1403	290	779	187
7	**7200**	**1900**	**6480**	**1578**	**6000**	**1450**	**5040**	**1217**	**4320**	**1043**	**3600**	**695**	**2880**	**521**	**2160**	**346**	**1440**	**295**	**800**	**190**
8	7386	1929	6647	1603	6155	1472	5170	1236	4431	1059	3693	706	2954	529	2216	352	1477	299	821	193
9	7572	1959	6814	1627	6309	1495	5300	1255	4543	1075	3786	717	3029	537	2271	357	1514	304	841	196
10	7757	1988	6982	1652	6464	1517	5430	1274	4654	1091	3879	728	3103	545	2327	363	1551	308	862	199
11	7943	2018	7149	1676	6619	1540	5560	1293	4766	1108	3972	738	3177	553	2383	368	1589	313	883	202
12	8129	2047	7316	1700	6774	1562	5690	1312	4877	1124	4065	749	3252	561	2439	373	1626	318	903	205
13	8315	2077	7483	1725	6929	1585	5820	1330	4989	1140	4157	760	3326	569	2494	379	1663	322	924	208
14	8501	2106	7651	1749	7084	1607	5950	1349	5100	1156	4250	771	3400	577	2550	384	1700	327	945	211
15	8686	2135	7818	1774	7238	1630	6081	1368	5212	1172	4343	782	3475	585	2606	389	1737	331	965	214
16	8872	2165	7985	1798	7393	1652	6211	1387	5323	1188	4436	792	3549	594	2662	395	1774	336	986	216
17	9058	2194	8152	1823	7548	1674	6341	1406	5435	1204	4529	803	3623	602	2717	400	1812	340	1006	219
18	9244	2224	8319	1847	7703	1697	6471	1425	5546	1221	4622	814	3698	610	2773	405	1849	345	1027	222
19	9430	2253	8487	1871	7858	1719	6601	1444	5658	1237	4715	825	3772	618	2829	411	1886	349	1048	225
20	9615	2282	8654	1896	8013	1742	6731	1462	5769	1253	4808	835	3846	626	2885	416	1923	354	1068	228
21	9801	2312	8821	1920	8167	1764	6861	1481	5881	1269	4901	846	3921	634	2940	422	1960	359	1089	231
22	9987	2341	8988	1945	8322	1787	6991	1500	5992	1285	4994	857	3995	642	2996	427	1997	363	1110	234
23	10173	2371	9156	1969	8477	1809	7121	1519	6104	1301	5086	868	4069	650	3052	432	2035	368	1130	237
24	10359	2400	9323	1994	8632	1832	7251	1538	6215	1317	5179	878	4143	658	3108	438	2072	372	1151	240

10. Performance Characteristic

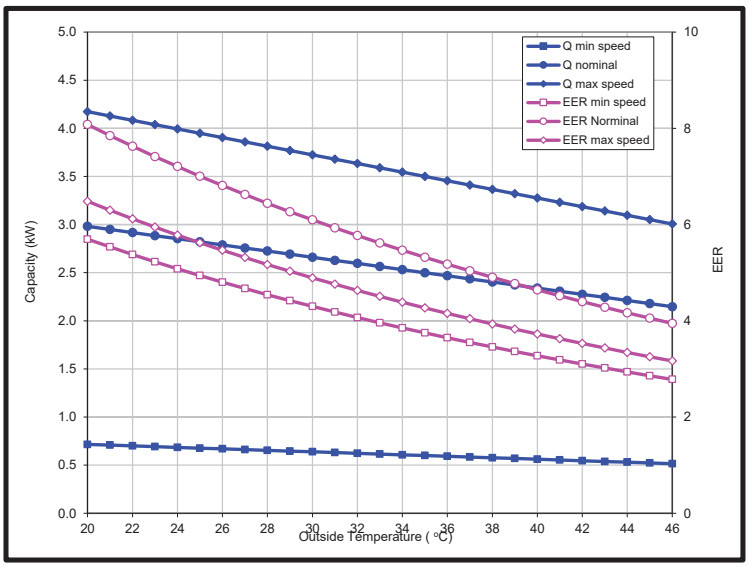
Model : RAS-B10S4KVP(D)G-E ; RAS-10S4AVPG-E

Product specification :

Condition		Capacity (kW)	Power (kW)	EER/COP
Cooling JIS	Min	0.60	0.16	3.75
In: 27°C DB/19°C WB	Rated	2.50	0.47	5.32
Out: 35°C DB/24°C WB	Max	3.50	0.82	4.27
Heating JIS	Min	0.65	0.16	4.06
In: 20°C DB/15°C WB	Rated	3.20	0.60	5.33
Out: 7°C DB/6°C WB	Max	5.80	1.50	3.87
Heating Low Temp. In: 20°C DB/15°C WB Out: 2°C DB/1°C WB	Max	4.20	1.30	3.23
Heating Low Temp. In: 20°C DB/15°C WB Out: -10°C DB	Max	3.30	1.20	2.75
Heating Low Temp. In: 20°C DB/15°C WB Out: -15°C DB	Max	2.60	1.10	2.36
Heating Low Temp. In: 20°C DB/15°C WB Out: -20°C DB	Max	2.00	1.00	2.00

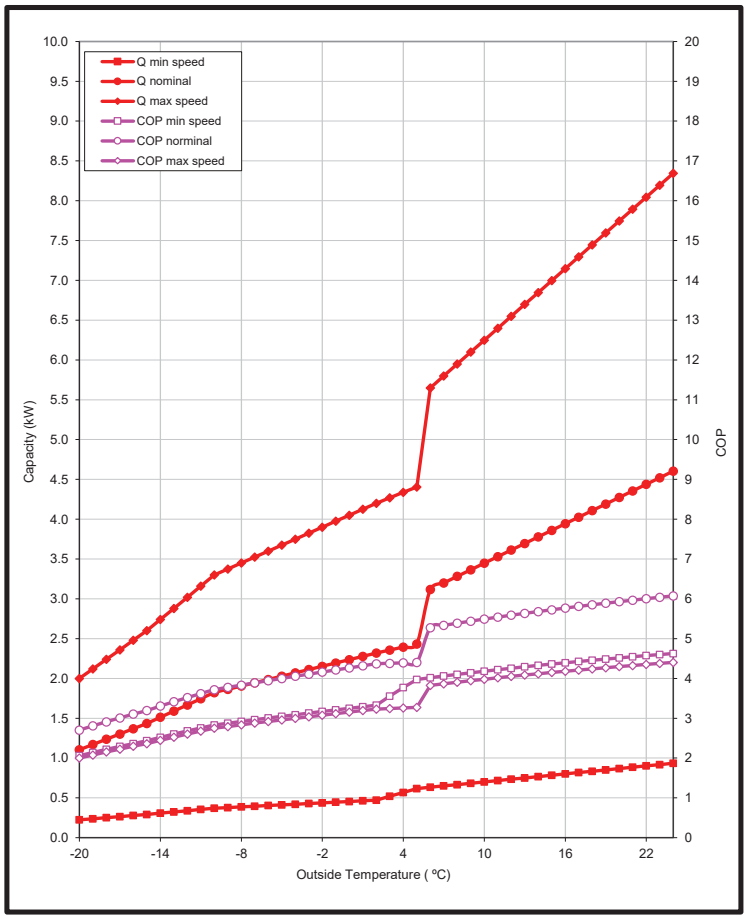
Cooling performance characteristic :

Outside	Min capacity			Nominal capacity			Max capacity		
Temp	Capacity	Power	EER	Capacity	Power	EER	Capacity	Power	EER
(°C)	(kW)	(kW)	(-)	(kW)	(kW)	(-)	(kW)	(kW)	(-)
20	0.72	0.13	5.70	2.98	0.37	8.08	4.17	0.64	6.48
21	0.71	0.13	5.53	2.95	0.38	7.85	4.13	0.66	6.30
22	0.70	0.13	5.38	2.92	0.38	7.63	4.08	0.67	6.12
23	0.69	0.13	5.23	2.89	0.39	7.41	4.04	0.68	5.95
24	0.68	0.13	5.08	2.85	0.40	7.21	3.99	0.69	5.78
25	0.68	0.14	4.94	2.82	0.40	7.01	3.95	0.70	5.62
26	0.67	0.14	4.80	2.79	0.41	6.81	3.90	0.71	5.47
27	0.66	0.14	4.67	2.76	0.42	6.62	3.86	0.73	5.32
28	0.65	0.14	4.54	2.72	0.42	6.44	3.81	0.74	5.17
29	0.65	0.15	4.42	2.69	0.43	6.27	3.77	0.75	5.03
30	0.64	0.15	4.30	2.66	0.44	6.10	3.72	0.76	4.89
31	0.63	0.15	4.18	2.63	0.44	5.93	3.68	0.77	4.76
32	0.62	0.15	4.07	2.60	0.45	5.77	3.63	0.78	4.63
33	0.62	0.16	3.96	2.56	0.46	5.62	3.59	0.80	4.51
34	0.61	0.16	3.85	2.53	0.46	5.47	3.54	0.81	4.39
35	**0.60**	**0.16**	**3.75**	**2.50**	**0.47**	**5.32**	**3.50**	**0.82**	**4.27**
36	0.59	0.16	3.65	2.47	0.48	5.18	3.46	0.83	4.15
37	0.58	0.16	3.55	2.44	0.48	5.04	3.41	0.84	4.04
38	0.58	0.17	3.46	2.40	0.49	4.90	3.37	0.86	3.93
39	0.57	0.17	3.36	2.37	0.50	4.77	3.32	0.87	3.83
40	0.56	0.17	3.27	2.34	0.50	4.64	3.28	0.88	3.73
41	0.55	0.17	3.19	2.31	0.51	4.52	3.23	0.89	3.63
42	0.55	0.18	3.10	2.28	0.52	4.40	3.19	0.90	3.53
43	0.54	0.18	3.02	2.24	0.52	4.28	3.14	0.91	3.44
44	0.53	0.18	2.94	2.21	0.53	4.17	3.10	0.93	3.34
45	0.52	0.18	2.86	2.18	0.54	4.06	3.05	0.94	3.25
46	0.52	0.19	2.78	2.15	0.54	3.95	3.01	0.95	3.17



Heating performance characteristic :

Outside	Min capacity			Nominal capacity			Max capacity		
Temp	Capacity	Power	COP	Capacity	Power	COP	Capacity	Power	COP
(°C)	(kW)	(kW)	(-)	(kW)	(kW)	(-)	(kW)	(kW)	(-)
-20	**0.22**	**0.11**	**2.06**	**1.10**	**0.41**	**2.70**	**2.00**	**1.00**	**2.00**
-19	0.24	0.11	2.14	1.17	0.42	2.81	2.12	1.02	2.08
-18	0.25	0.11	2.22	1.24	0.42	2.91	2.24	1.04	2.15
-17	0.26	0.12	2.29	1.30	0.43	3.01	2.36	1.06	2.23
-16	0.28	0.12	2.36	1.37	0.44	3.10	2.48	1.08	2.30
-15	**0.29**	**0.12**	**2.43**	**1.44**	**0.45**	**3.20**	**2.60**	**1.10**	**2.36**
-14	0.31	0.12	2.52	1.51	0.46	3.31	2.74	1.12	2.45
-13	0.32	0.12	2.60	1.59	0.47	3.41	2.88	1.14	2.53
-12	0.34	0.13	2.68	1.67	0.47	3.52	3.02	1.16	2.60
-11	0.35	0.13	2.76	1.74	0.48	3.62	3.16	1.18	2.68
-10	**0.37**	**0.13**	**2.83**	**1.82**	**0.49**	**3.72**	**3.30**	**1.20**	**2.75**
-9	0.38	0.13	2.88	1.86	0.49	3.78	3.38	1.21	2.79
-8	0.39	0.13	2.92	1.90	0.50	3.83	3.45	1.22	2.84
-7	0.40	0.13	2.96	1.95	0.50	3.89	3.53	1.23	2.88
-6	0.40	0.13	3.01	1.99	0.50	3.95	3.60	1.23	2.92
-5	0.41	0.14	3.05	2.03	0.51	4.00	3.68	1.24	2.96
-4	0.42	0.14	3.09	2.07	0.51	4.06	3.75	1.25	3.00
-3	0.43	0.14	3.13	2.11	0.51	4.11	3.83	1.26	3.04
-2	0.44	0.14	3.17	2.15	0.52	4.16	3.90	1.27	3.08
-1	0.45	0.14	3.21	2.19	0.52	4.21	3.98	1.28	3.12
0	0.45	0.14	3.25	2.24	0.52	4.27	4.05	1.28	3.16
1	0.46	0.14	3.29	2.28	0.53	4.32	4.13	1.29	3.19
2	**0.47**	**0.14**	**3.33**	**2.32**	**0.53**	**4.37**	**4.20**	**1.30**	**3.23**
3	0.52	0.15	3.56	2.36	0.54	4.38	4.27	1.32	3.25
4	0.57	0.15	3.77	2.39	0.55	4.39	4.34	1.33	3.26
5	0.62	0.16	3.98	2.43	0.55	4.40	4.41	1.35	3.27
6	0.63	0.16	4.02	3.12	0.59	5.28	5.65	1.48	3.83
7	**0.65**	**0.16**	**4.06**	**3.20**	**0.60**	**5.33**	**5.80**	**1.50**	**3.87**
8	0.67	0.16	4.10	3.28	0.61	5.39	5.95	1.52	3.91
9	0.68	0.16	4.14	3.37	0.62	5.44	6.10	1.55	3.94
10	0.70	0.17	4.18	3.45	0.63	5.49	6.25	1.57	3.98
11	0.72	0.17	4.22	3.53	0.64	5.54	6.40	1.59	4.02
12	0.73	0.17	4.26	3.61	0.65	5.59	6.55	1.62	4.05
13	0.75	0.17	4.29	3.70	0.66	5.64	6.70	1.64	4.09
14	0.77	0.18	4.33	3.78	0.67	5.68	6.85	1.66	4.12
15	0.78	0.18	4.36	3.86	0.67	5.73	7.00	1.69	4.15
16	0.80	0.18	4.39	3.94	0.68	5.77	7.15	1.71	4.18
17	0.82	0.18	4.43	4.03	0.69	5.81	7.30	1.73	4.21
18	0.83	0.19	4.46	4.11	0.70	5.85	7.45	1.76	4.24
19	0.85	0.19	4.49	4.19	0.71	5.89	7.60	1.78	4.27
20	0.87	0.19	4.52	4.27	0.72	5.93	7.75	1.80	4.30
21	0.88	0.19	4.55	4.36	0.73	5.97	7.90	1.83	4.33
22	0.90	0.20	4.57	4.44	0.74	6.00	8.05	1.85	4.35
23	0.92	0.20	4.60	4.52	0.75	6.04	8.19	1.87	4.38
24	0.94	0.20	4.63	4.60	0.76	6.07	8.34	1.89	4.40



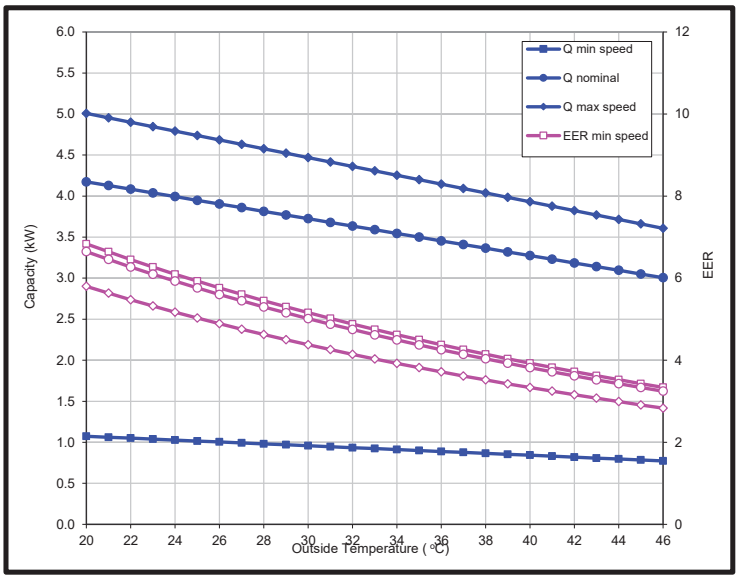
Model : RAS-B13S4KVP(D)G-E ; RAS-13S4AVPG-E

Product specification :

Condition		Capacity (kW)	Power (kW)	EER/COP
Cooling JIS	Min	0.90	0.20	4.50
In: 27°C DB/19°C WB	Rated	3.50	0.80	4.38
Out: 35°C DB/24°C WB	Max	4.20	1.10	3.82
Heating JIS	Min	0.70	0.18	3.89
In: 20°C DB/15°C WB	Rated	4.00	0.80	5.00
Out: 7°C DB/6°C WB	Max	6.30	1.60	3.94
Heating Low Temp. In: 20°C DB/15°C WB Out: 2°C DB/1°C WB	Max	4.80	1.55	3.10
Heating Low Temp. In: 20°C DB/15°C WB Out: -10°C DB	Max	3.80	1.35	2.81
Heating Low Temp. In: 20°C DB/15°C WB Out: -15°C DB	Max	3.00	1.20	2.50
Heating Low Temp. In: 20°C DB/15°C WB Out: -20°C DB	Max	2.40	1.05	2.29

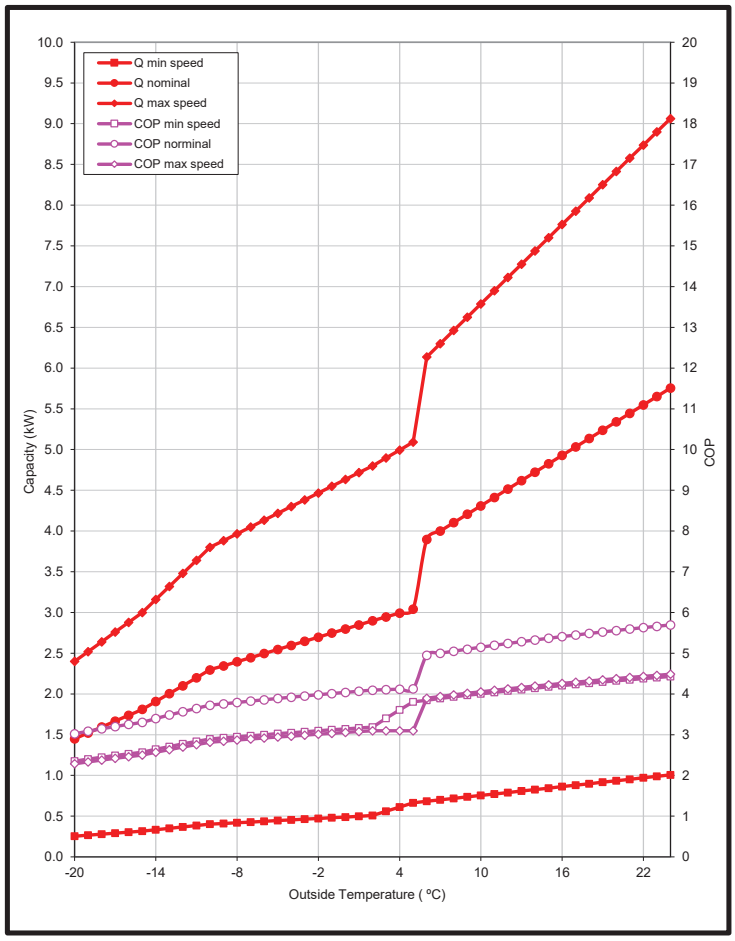
Cooling performance characteristic :

Outside	Min capacity			Nominal capacity			Max capacity		
Temp	Capacity	Power	EER	Capacity	Power	EER	Capacity	Power	EER
(°C)	(kW)	(kW)	(-)	(kW)	(kW)	(-)	(kW)	(kW)	(-)
20	1.07	0.16	6.84	4.17	0.63	6.65	5.01	0.86	5.80
21	1.06	0.16	6.64	4.13	0.64	6.46	4.95	0.88	5.63
22	1.05	0.16	6.45	4.08	0.65	6.27	4.90	0.90	5.48
23	1.04	0.17	6.27	4.04	0.66	6.10	4.85	0.91	5.32
24	1.03	0.17	6.10	3.99	0.67	5.93	4.79	0.93	5.17
25	1.02	0.17	5.93	3.95	0.69	5.76	4.74	0.94	5.03
26	1.00	0.17	5.76	3.90	0.70	5.60	4.69	0.96	4.89
27	0.99	0.18	5.60	3.86	0.71	5.45	4.63	0.97	4.76
28	0.98	0.18	5.45	3.81	0.72	5.30	4.58	0.99	4.63
29	0.97	0.18	5.30	3.77	0.73	5.16	4.52	1.01	4.50
30	0.96	0.19	5.16	3.72	0.74	5.02	4.47	1.02	4.38
31	0.95	0.19	5.02	3.68	0.75	4.88	4.42	1.04	4.26
32	0.93	0.19	4.88	3.63	0.77	4.75	4.36	1.05	4.14
33	0.92	0.19	4.75	3.59	0.78	4.62	4.31	1.07	4.03
34	0.91	0.20	4.62	3.54	0.79	4.50	4.25	1.08	3.92
35	**0.90**	**0.20**	**4.50**	**3.50**	**0.80**	**4.38**	**4.20**	**1.10**	**3.82**
36	0.89	0.20	4.38	3.46	0.81	4.26	4.15	1.12	3.72
37	0.88	0.21	4.26	3.41	0.82	4.14	4.09	1.13	3.62
38	0.87	0.21	4.15	3.37	0.83	4.03	4.04	1.15	3.52
39	0.85	0.21	4.04	3.32	0.85	3.93	3.98	1.16	3.43
40	0.84	0.21	3.93	3.28	0.86	3.82	3.93	1.18	3.33
41	0.83	0.22	3.82	3.23	0.87	3.72	3.88	1.19	3.25
42	0.82	0.22	3.72	3.19	0.88	3.62	3.82	1.21	3.16
43	0.81	0.22	3.62	3.14	0.89	3.52	3.77	1.23	3.07
44	0.80	0.23	3.53	3.10	0.90	3.43	3.71	1.24	2.99
45	0.78	0.23	3.43	3.05	0.91	3.34	3.66	1.26	2.91
46	0.77	0.23	3.34	3.01	0.93	3.25	3.61	1.27	2.83



Heating performance characteristic :

Outside	Min capacity			Nominal capacity			Max capacity		
Temp	Capacity	Power	COP	Capacity	Power	COP	Capacity	Power	COP
(°C)	(kW)	(kW)	(-)	(kW)	(kW)	(-)	(kW)	(kW)	(-)
-20	**0.25**	**0.11**	**2.35**	**1.45**	**0.48**	**3.02**	**2.40**	**1.05**	**2.29**
-19	0.27	0.11	2.40	1.52	0.49	3.08	2.52	1.08	2.33
-18	0.28	0.11	2.45	1.59	0.51	3.14	2.64	1.11	2.38
-17	0.29	0.12	2.49	1.67	0.52	3.20	2.76	1.14	2.42
-16	0.30	0.12	2.53	1.74	0.53	3.25	2.88	1.17	2.46
-15	**0.32**	**0.12**	**2.57**	**1.81**	**0.55**	**3.31**	**3.00**	**1.20**	**2.50**
-14	0.33	0.13	2.64	1.91	0.56	3.40	3.16	1.23	2.57
-13	0.35	0.13	2.71	2.00	0.58	3.48	3.32	1.26	2.63
-12	0.37	0.13	2.77	2.10	0.59	3.57	3.48	1.29	2.70
-11	0.38	0.14	2.84	2.20	0.60	3.65	3.64	1.32	2.76
-10	**0.40**	**0.14**	**2.89**	**2.29**	**0.62**	**3.72**	**3.80**	**1.35**	**2.81**
-9	0.41	0.14	2.92	2.35	0.62	3.76	3.88	1.37	2.84
-8	0.42	0.14	2.95	2.40	0.63	3.79	3.97	1.38	2.87
-7	0.43	0.14	2.97	2.45	0.64	3.82	4.05	1.40	2.89
-6	0.44	0.15	3.00	2.50	0.65	3.86	4.13	1.42	2.92
-5	0.45	0.15	3.03	2.55	0.65	3.89	4.22	1.43	2.94
-4	0.45	0.15	3.05	2.60	0.66	3.92	4.30	1.45	2.97
-3	0.46	0.15	3.07	2.65	0.67	3.95	4.38	1.47	2.99
-2	0.47	0.15	3.10	2.70	0.68	3.98	4.47	1.48	3.01
-1	0.48	0.15	3.12	2.75	0.69	4.01	4.55	1.50	3.03
0	0.49	0.16	3.14	2.80	0.69	4.04	4.63	1.52	3.05
1	0.50	0.16	3.16	2.85	0.70	4.07	4.72	1.53	3.08
2	**0.51**	**0.16**	**3.18**	**2.90**	**0.71**	**4.09**	**4.80**	**1.55**	**3.10**
3	0.56	0.16	3.40	2.95	0.72	4.11	4.90	1.58	3.10
4	0.61	0.17	3.61	2.99	0.73	4.12	4.99	1.61	3.10
5	0.66	0.17	3.81	3.04	0.74	4.13	5.09	1.65	3.09
6	0.68	0.18	3.85	3.90	0.79	4.95	6.14	1.58	3.90
7	**0.70**	**0.18**	**3.89**	**4.00**	**0.80**	**5.00**	**6.30**	**1.60**	**3.94**
8	0.72	0.18	3.93	4.10	0.81	5.05	6.46	1.62	3.98
9	0.74	0.19	3.97	4.21	0.82	5.10	6.63	1.65	4.02
10	0.75	0.19	4.00	4.31	0.84	5.15	6.79	1.67	4.05
11	0.77	0.19	4.04	4.41	0.85	5.19	6.95	1.70	4.09
12	0.79	0.19	4.08	4.52	0.86	5.24	7.11	1.72	4.13
13	0.81	0.20	4.11	4.62	0.87	5.28	7.28	1.75	4.16
14	0.83	0.20	4.14	4.72	0.89	5.33	7.44	1.77	4.19
15	0.84	0.20	4.17	4.83	0.90	5.37	7.60	1.80	4.23
16	0.86	0.21	4.21	4.93	0.91	5.41	7.76	1.82	4.26
17	0.88	0.21	4.24	5.03	0.92	5.45	7.93	1.85	4.29
18	0.90	0.21	4.27	5.14	0.94	5.49	8.09	1.87	4.32
19	0.92	0.21	4.30	5.24	0.95	5.52	8.25	1.90	4.35
20	0.93	0.22	4.32	5.34	0.96	5.56	8.41	1.92	4.38
21	0.95	0.22	4.35	5.45	0.97	5.59	8.58	1.95	4.41
22	0.97	0.22	4.38	5.55	0.99	5.63	8.74	1.97	4.43
23	0.99	0.22	4.40	5.65	1.00	5.66	8.90	2.00	4.46
24	1.01	0.23	4.43	5.75	1.01	5.69	9.06	2.02	4.48



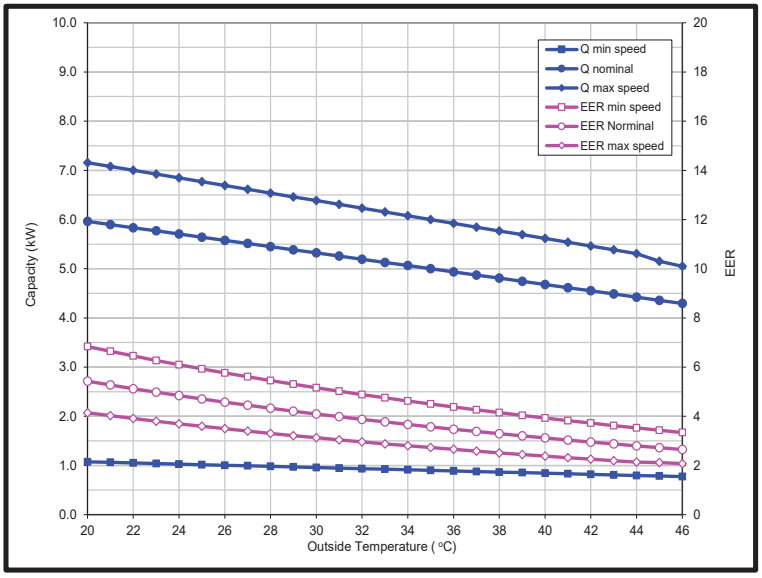
Model : RAS-B18S4KVP(D)G-E ; RAS-18S4AVPG-E

Product specification :

Condition		Capacity (kW)	Power (kW)	EER/COP
Cooling JIS	Min	0.90	0.20	4.50
In: 27°C DB/19°C WB	Rated	5.00	1.40	3.57
Out: 35°C DB/24°C WB	Max	6.00	2.20	2.73
Heating JIS	Min	0.80	0.19	4.21
In: 20°C DB/15°C WB	Rated	6.00	1.45	4.14
Out: 7°C DB/6°C WB	Max	7.20	1.90	3.79
Heating Low Temp. In: 20°C DB/15°C WB Out: 2°C DB/1°C WB	Max	5.40	1.73	3.12
Heating Low Temp. In: 20°C DB/15°C WB Out: -10°C DB	Max	4.30	1.47	2.93
Heating Low Temp. In: 20°C DB/15°C WB Out: -15°C DB	Max	3.20	1.25	2.56
Heating Low Temp. In: 20°C DB/15°C WB Out: -20°C DB	Max	2.50	1.06	2.36

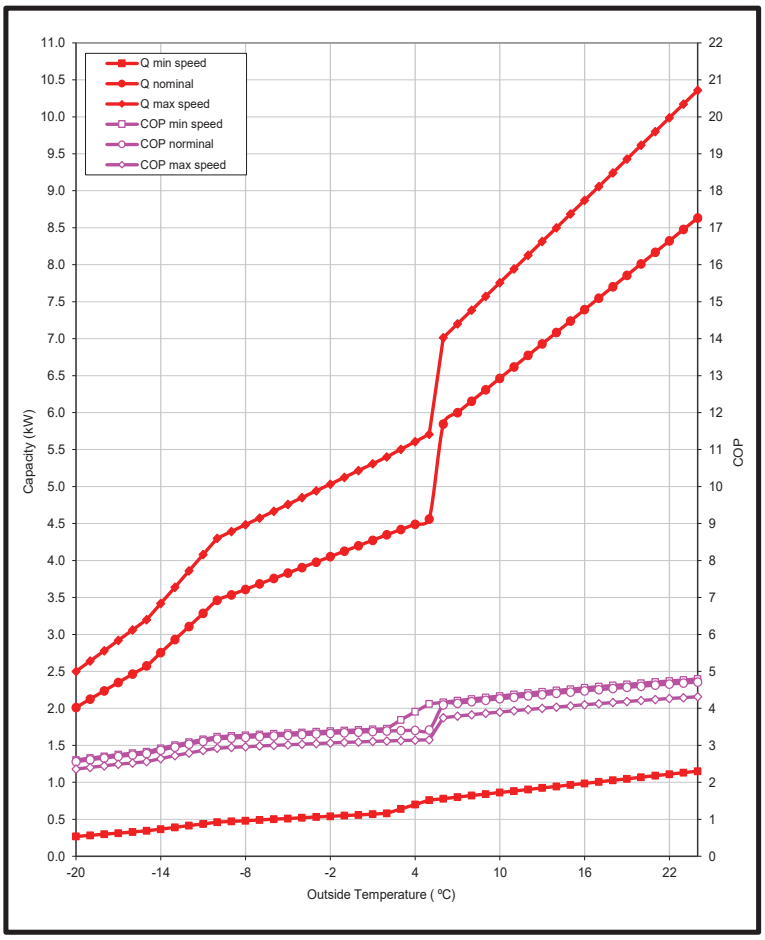
Cooling performance characteristic :

Outside	Min capacity			Nominal capacity			Max capacity		
Temp	Capacity	Power	EER	Capacity	Power	EER	Capacity	Power	EER
(°C)	(kW)	(kW)	(-)	(kW)	(kW)	(-)	(kW)	(kW)	(-)
20	1.07	0.16	6.84	5.96	1.10	5.43	7.16	1.73	4.14
21	1.06	0.16	6.64	5.90	1.12	5.27	7.08	1.76	4.02
22	1.05	0.16	6.45	5.83	1.14	5.12	7.00	1.79	3.91
23	1.04	0.17	6.27	5.77	1.16	4.98	6.92	1.82	3.80
24	1.03	0.17	6.10	5.71	1.18	4.84	6.85	1.85	3.69
25	1.02	0.17	5.93	5.64	1.20	4.70	6.77	1.88	3.59
26	1.00	0.17	5.76	5.58	1.22	4.57	6.69	1.92	3.49
27	0.99	0.18	5.60	5.51	1.24	4.45	6.62	1.95	3.40
28	0.98	0.18	5.45	5.45	1.26	4.33	6.54	1.98	3.30
29	0.97	0.18	5.30	5.39	1.28	4.21	6.46	2.01	3.21
30	0.96	0.19	5.16	5.32	1.30	4.09	6.39	2.04	3.13
31	0.95	0.19	5.02	5.26	1.32	3.98	6.31	2.07	3.04
32	0.93	0.19	4.88	5.19	1.34	3.88	6.23	2.11	2.96
33	0.92	0.19	4.75	5.13	1.36	3.77	6.15	2.14	2.88
34	0.91	0.20	4.62	5.06	1.38	3.67	6.08	2.17	2.80
35	**0.90**	**0.20**	**4.50**	**5.00**	**1.40**	**3.57**	**6.00**	**2.20**	**2.73**
36	0.89	0.20	4.38	4.94	1.42	3.48	5.92	2.23	2.65
37	0.88	0.21	4.26	4.87	1.44	3.38	5.85	2.26	2.58
38	0.87	0.21	4.15	4.81	1.46	3.29	5.77	2.29	2.51
39	0.85	0.21	4.04	4.74	1.48	3.20	5.69	2.33	2.45
40	0.84	0.21	3.93	4.68	1.50	3.12	5.62	2.36	2.38
41	0.83	0.22	3.82	4.62	1.52	3.04	5.54	2.39	2.32
42	0.82	0.22	3.72	4.55	1.54	2.95	5.46	2.42	2.26
43	0.81	0.22	3.62	4.49	1.56	2.88	5.38	2.45	2.20
44	0.80	0.23	3.53	4.42	1.58	2.80	5.31	2.48	2.14
45	0.78	0.23	3.43	4.36	1.60	2.72	5.15	2.43	2.12
46	0.77	0.23	3.34	4.29	1.62	2.65	5.05	2.43	2.07



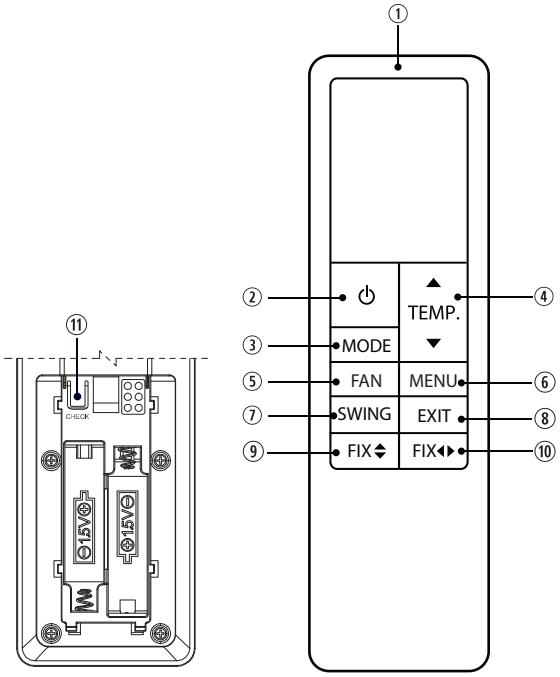
Heating performance characteristic :

Outside	Min capacity			Nominal capacity			Max capacity		
Temp	Capacity	Power	COP	Capacity	Power	COP	Capacity	Power	COP
(°C)	(kW)	(kW)	(-)	(kW)	(kW)	(-)	(kW)	(kW)	(-)
-20	**0.27**	**0.10**	**2.61**	**2.01**	**0.79**	**2.56**	**2.50**	**1.06**	**2.36**
-19	0.28	0.11	2.66	2.13	0.81	2.61	2.64	1.10	2.40
-18	0.30	0.11	2.70	2.24	0.84	2.66	2.78	1.14	2.45
-17	0.31	0.11	2.75	2.35	0.87	2.70	2.92	1.17	2.49
-16	0.33	0.12	2.79	2.46	0.90	2.74	3.06	1.21	2.52
-15	**0.34**	**0.12**	**2.83**	**2.58**	**0.93**	**2.78**	**3.20**	**1.25**	**2.56**
-14	0.37	0.13	2.92	2.75	0.96	2.87	3.42	1.29	2.64
-13	0.39	0.13	3.00	2.93	0.99	2.95	3.64	1.34	2.72
-12	0.41	0.13	3.09	3.11	1.03	3.03	3.86	1.38	2.79
-11	0.44	0.14	3.16	3.29	1.06	3.11	4.08	1.43	2.86
-10	**0.46**	**0.14**	**3.23**	**3.46**	**1.09**	**3.18**	**4.30**	**1.47**	**2.93**
-9	0.47	0.14	3.25	3.54	1.11	3.20	4.39	1.49	2.94
-8	0.48	0.15	3.27	3.61	1.12	3.22	4.48	1.51	2.96
-7	0.49	0.15	3.29	3.68	1.14	3.24	4.58	1.54	2.98
-6	0.50	0.15	3.31	3.76	1.15	3.25	4.67	1.56	3.00
-5	0.51	0.15	3.33	3.83	1.17	3.27	4.76	1.58	3.01
-4	0.52	0.16	3.35	3.90	1.19	3.29	4.85	1.60	3.03
-3	0.53	0.16	3.37	3.98	1.20	3.31	4.94	1.62	3.05
-2	0.54	0.16	3.38	4.05	1.22	3.32	5.03	1.64	3.06
-1	0.55	0.16	3.40	4.13	1.23	3.34	5.13	1.67	3.08
0	0.56	0.16	3.42	4.20	1.25	3.36	5.22	1.69	3.09
1	0.57	0.17	3.43	4.27	1.27	3.37	5.31	1.71	3.11
2	**0.58**	**0.17**	**3.45**	**4.35**	**1.28**	**3.39**	**5.40**	**1.73**	**3.12**
3	0.64	0.17	3.69	4.42	1.30	3.40	5.50	1.76	3.13
4	0.70	0.18	3.91	4.49	1.32	3.41	5.61	1.78	3.14
5	0.76	0.18	4.12	4.56	1.33	3.42	5.71	1.81	3.15
6	0.78	0.19	4.17	5.85	1.43	4.09	7.01	1.87	3.75
7	**0.80**	**0.19**	**4.21**	**6.00**	**1.45**	**4.14**	**7.20**	**1.90**	**3.79**
8	0.82	0.19	4.25	6.15	1.47	4.18	7.39	1.93	3.83
9	0.84	0.20	4.29	6.31	1.49	4.22	7.57	1.96	3.87
10	0.86	0.20	4.34	6.46	1.52	4.26	7.76	1.99	3.90
11	0.88	0.20	4.37	6.62	1.54	4.30	7.94	2.02	3.94
12	0.90	0.20	4.41	6.77	1.56	4.34	8.13	2.05	3.97
13	0.92	0.21	4.45	6.93	1.58	4.37	8.31	2.08	4.00
14	0.94	0.21	4.49	7.08	1.61	4.41	8.50	2.11	4.04
15	0.97	0.21	4.52	7.24	1.63	4.44	8.69	2.14	4.07
16	0.99	0.22	4.55	7.39	1.65	4.48	8.87	2.16	4.10
17	1.01	0.22	4.59	7.55	1.67	4.51	9.06	2.19	4.13
18	1.03	0.22	4.62	7.70	1.70	4.54	9.24	2.22	4.16
19	1.05	0.23	4.65	7.86	1.72	4.57	9.43	2.25	4.19
20	1.07	0.23	4.68	8.01	1.74	4.60	9.62	2.28	4.21
21	1.09	0.23	4.71	8.17	1.76	4.63	9.80	2.31	4.24
22	1.11	0.23	4.74	8.32	1.79	4.66	9.99	2.34	4.27
23	1.13	0.24	4.77	8.48	1.81	4.69	10.17	2.37	4.29
24	1.15	0.24	4.80	8.63	1.83	4.71	10.36	2.40	4.32

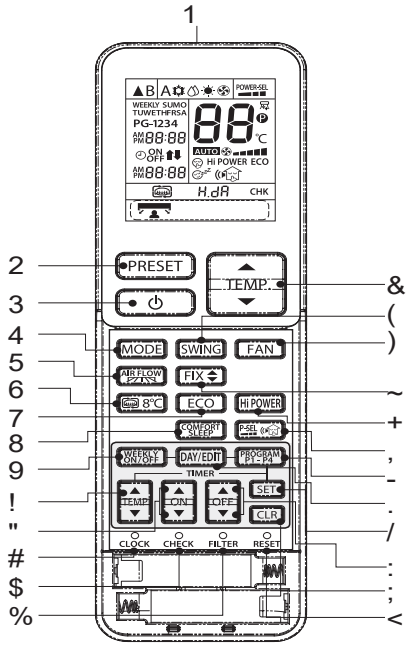


11. Accessories

Standard RC : WH-UD01UE, WH-UD02UE

Appearance	Remote control features
	① Infrared signal emitter ② Start/Stop button ③ Mode select button ④ Temperature button ⑤ Fan speed button ⑥ Menu select button ⑦ Swing louver button ⑧ Exit button ⑨ Set louver Up-Down button ⑩ Set louver Left-Right button ⑪ Check button* *Check button under battery cover

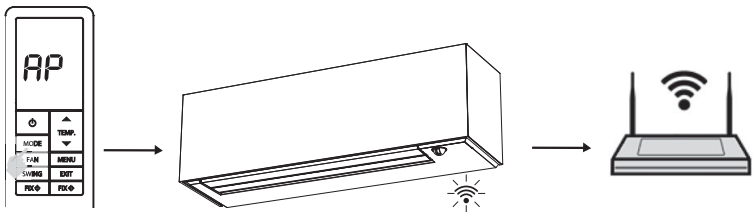
Option RC : RB-RXS33-E

Appearance	Remote control features
	1 Infrared signal emitter 2 Memory and Preset button (PRESET) 3 Start/Stop button 4 Mode select button (MODE) 5 Air flow/HADA CARE FLOW button 6 Fireplace/8°C button 7 ECO button 8 Comfort sleep button (COMFORT SLEEP) 9 Weekly timer (ON/OFF) ! Temp for Weekly timer " On timer button (ON) # Set clock button (CLOCK) $ Check button (CHECK) % Filter reset button (FILTER) & Temperature button (TEMP) (Swing louver button (SWING)) Fan speed button (FAN) ~ Set louver button (FIX) + High power button (Hi POWER) , Power selection/Silent button (P-SEL/SILENT) - Program P1 - P4 . Day/Edit button / Setup button (SET) : Off timer button (OFF) ; Clear button (CLR) < Reset button (RESET)

Toshiba Home AC Control application support

iOS : 9.0 or later.

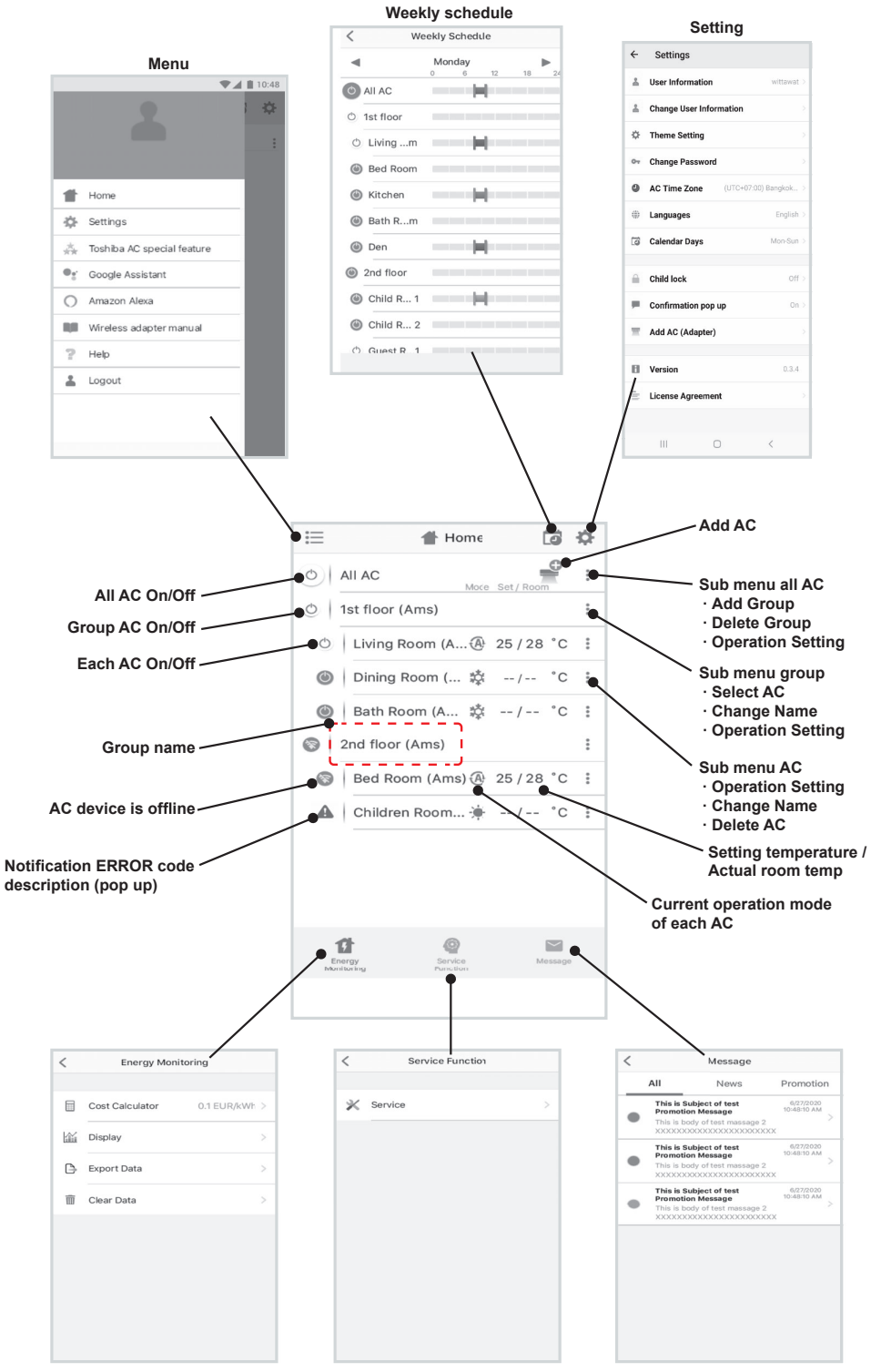
Android : Version 5.0 or later.



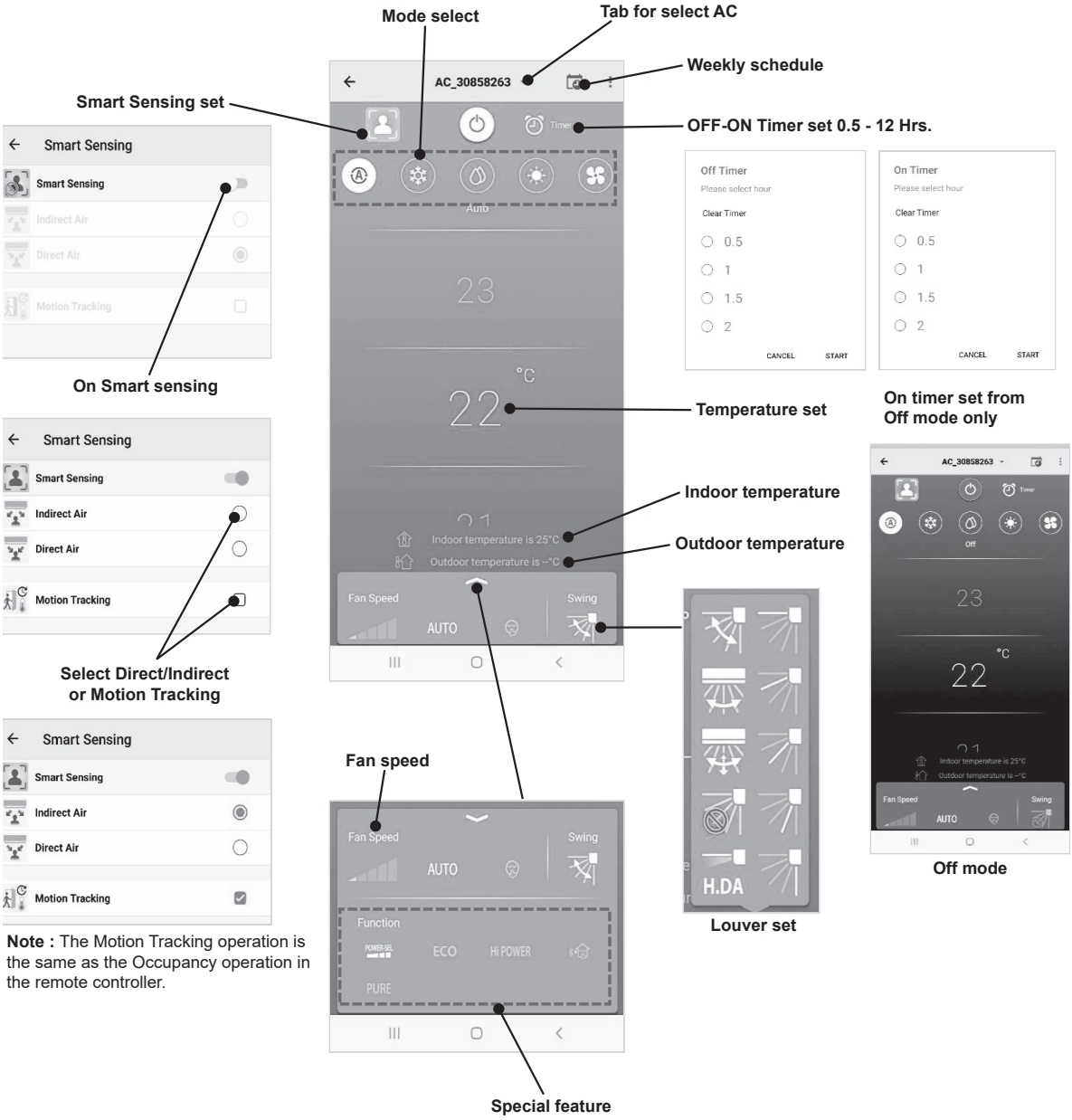
Active Wireless adapter by Remote controller.

Toshiba Home AC Control application

Home screen



Setting in operation mode



Note : The Motion Tracking operation is the same as the Occupancy operation in the remote controller.

Summary features

	Model code	Strong Defrost	Smart Sensing	Pure	Hi power	Silent CDU	Power select	Eco logic	Fix vertical	Swing vertical	Fix Horizontal	Swing Horizontal	3D airflow (Swing V&H)	HADA care
Standard RC	WH-UD01UE WH-UD02UE	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Option RC	RB-RXS33-E	X	X	X	✓	✓	✓	✓	✓	✓	X	✓	✓	✓
Wi-Fi App	Built-In	X	✓	✓	✓	✓	✓	✓	✓	✓	X	✓	✓	✓

	Model code	Preset	Fan speed	Quiet FCU	8° C	Fire place	Off timer (0.5, 1-12hrs.)	24 Hrs. on-off timer	Weekly timer	On demand defrost	FCU led Dim	Comfort sleep	Backlight display	Luminous button	Wired connect able RC
Standard RC	WH-UD01UE WH-UD02UE	X	✓	✓	✓5-30°C	✓	✓	X	X	✓	✓	X	✓	X	X
Option RC	RB-RXS33-E	✓	✓	✓	✓	✓	X	✓	✓	✓	✓	✓	✓	✓	✓
Wi-Fi App	Built-In	X	✓	✓	✓	✓	✓	X	✓	X	X	X			

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Revision 02 : 240610