

***Multi-spilt Outdoor unit 2 rooms (S3AV)***

**Outdoor Unit**

**RAS-2M14S3AV-E**

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# 1. Line up

## RAS-2M14S3AV-E

Combination						
Indoor Unit						
07 Type	10 type	13 type	16 type	18 type	22 type	24 type
RAS-M07N3KV2-E1	RAS-B10N3KV2-E1	RAS-B13N3KV2-E1				
RAS-M07G3DV-E	RAS-B10N3KVP-E	RAS-B13N3KVP-E				
RAS-M07G3DV-ND	RAS-B10N3KVP-ND	RAS-B13N3KVP-ND				
	RAS-M10SMUV-E	RAS-M13SMUV-E				
	RAS-M10G3DV-E	RAS-M13G3DV-E				
	RAS-M10G3DV-ND	RAS-M13G3DV-ND				
	RAS-B10UFV-E1	RAS-B13UFV-E1				

## 2. Specifications

### 2.1 Outdoor unit : RAS-2M14S3AV-E

(2 units operation 13+13)

Model name		RAS-2M14S3AV-E							
Cooling	Normal rated	4.0							
Capacity (kW)	Capacity range	1.6 - 4.9							
Heating	Normal rated	4.4							
Capacity (kW)	Capacity range	1.3 - 5.2							
	Normal rated at low ambient temp.	3.8							
Rate of power supply		1Ph,220-240V,50Hz / 1Ph,220V,60Hz							
Electrical characteristic	Cooling	Cooling 220V		Cooling 230V		Cooling 240V			
		FCU	CDU	FCU	CDU	FCU	CDU		
		4.04		3.87		3.71			
	Heating	Current (A)		4.14		3.96		3.79	
		Power consumption (W)		890					
		EER		4.82					
	COP		5.18						
	Maximum of current (A)		12.6						
Dimension	Height (mm)	630							
	Width (mm)	800							
	Depth (mm)	300							
Weight (kg)		44							
Compressor power output (W)		1320							
Refrigerant amount (R410A) (kg)		1.32							
Fan motor output (W)		43							
Air flow volume (m <sup>3</sup> /h)		1863/1863							
Cooling / Heating (l/s)		517/517							
Installation specification	Connecting method		Flare						
	Connecting pipe diameter	Liquid	A-B room : φ6.35						
		Gas	A-B room : φ9.52						
	Minimum connecting pipe length (1room)		2m						
	Maximun connection pipe length	1 room	20m						
		total	30m						
Maximun height (CDU-FCU)		10m							
Connection of only one indoor unit		Unconnectable(connecting 2 units)							
Sound Pressure Level / Sound Power Level	Cooling (dB(A))		45/58						
	Heating (dB(A))		46/59						
Useable condition range of outdoor unit	Cooling operation		-10 to 46°C						
	Heating operation		-20 to 24°C						
Connection indoor unit of this specification		RAS-B13N3KV2-E1 x 2							
Standard pipe length		5m × 2 units							

## 2.2 Combination

## Cooling &lt;230V&gt;

Operating status	Indoor unit				Unit capacity (kW)			Total				
	A	B	C	ΣkBTU	A	B	C	Cooling capacity (kW)	Power consumption (W)	Operating current (A)	Power factor (%)	Rated SEER
1 unit	07	-	-	7	2.00	-	-	2.0 ( 1.3 - 3.0 )	400 ( 260 - 840 )	2.22 ( 1.47 - 3.91 )	78 ( 77 - 93 )	5.00
	10	-	-	10	2.70	-	-	2.7 ( 1.3 - 3.2 )	640 ( 260 - 860 )	3.24 ( 1.47 - 4.00 )	86 ( 77 - 93 )	4.22
	13	-	-	13	3.70	-	-	3.7 ( 1.3 - 3.8 )	1050 ( 260 - 1150 )	4.86 ( 1.47 - 5.31 )	94 ( 77 - 94 )	3.52
2 units	07	07	-	14	2.00	2.00	-	4.0 ( 1.6 - 4.5 )	940 ( 290 - 1130 )	4.36 ( 1.64 - 5.22 )	94 ( 77 - 94 )	4.26
	07	07	-	14	2.00	2.00	-	4.0 ( 1.6 - 4.5 )	940 ( 290 - 1130 )	4.36 ( 1.64 - 5.22 )	93 ( 77 - 94 )	6.55
	07	07	-	14	2.00	2.00	-	4.0 ( 1.6 - 4.5 )	940 ( 290 - 1130 )	4.36 ( 1.64 - 5.22 )	93 ( 77 - 94 )	5.77
	07	07	-	14	2.00	2.00	-	4.0 ( 1.6 - 4.5 )	940 ( 290 - 1130 )	4.36 ( 1.64 - 5.22 )	93 ( 77 - 94 )	5.12
	10	07	-	17	2.30	1.70	-	4.0 ( 1.6 - 4.6 )	870 ( 290 - 1130 )	4.05 ( 1.64 - 5.22 )	93 ( 77 - 94 )	4.60
	10	07	-	17	2.30	1.70	-	4.0 ( 1.6 - 4.6 )	870 ( 290 - 1130 )	4.05 ( 1.64 - 5.22 )	93 ( 77 - 94 )	6.58
	10	07	-	17	2.30	1.70	-	4.0 ( 1.6 - 4.6 )	870 ( 290 - 1130 )	4.36 ( 1.64 - 5.22 )	94 ( 77 - 94 )	5.79
	10	07	-	17	2.30	1.70	-	4.0 ( 1.6 - 4.6 )	870 ( 290 - 1130 )	4.05 ( 1.64 - 5.22 )	93 ( 77 - 94 )	6.47
	10	07	-	17	2.30	1.70	-	4.0 ( 1.6 - 4.6 )	870 ( 290 - 1130 )	4.05 ( 1.64 - 5.22 )	93 ( 77 - 94 )	5.71
	10	07	-	17	2.30	1.70	-	4.0 ( 1.6 - 4.6 )	870 ( 290 - 1130 )	4.05 ( 1.64 - 5.22 )	93 ( 77 - 94 )	6.57
	10	07	-	17	2.30	1.70	-	4.0 ( 1.6 - 4.6 )	870 ( 290 - 1130 )	4.05 ( 1.64 - 5.22 )	93 ( 77 - 94 )	5.79
	10	07	-	17	2.30	1.70	-	4.0 ( 1.6 - 4.6 )	870 ( 290 - 1130 )	4.05 ( 1.64 - 5.22 )	93 ( 77 - 94 )	6.40
	10	07	-	17	2.30	1.70	-	4.0 ( 1.6 - 4.6 )	870 ( 290 - 1130 )	4.05 ( 1.64 - 5.22 )	93 ( 77 - 94 )	5.65
	10	07	-	17	2.30	1.70	-	4.0 ( 1.6 - 4.6 )	870 ( 290 - 1130 )	4.05 ( 1.64 - 5.22 )	93 ( 77 - 94 )	5.79
	10	07	-	17	2.30	1.70	-	4.0 ( 1.6 - 4.6 )	870 ( 290 - 1130 )	4.05 ( 1.64 - 5.22 )	93 ( 77 - 94 )	5.14
	13	07	-	20	2.60	1.40	-	4.0 ( 1.6 - 4.7 )	850 ( 290 - 1140 )	3.96 ( 1.64 - 5.26 )	93 ( 77 - 94 )	4.71
	13	07	-	20	2.60	1.40	-	4.0 ( 1.6 - 4.7 )	850 ( 290 - 1150 )	3.96 ( 1.64 - 5.26 )	93 ( 77 - 94 )	6.65
	13	07	-	20	2.60	1.40	-	4.0 ( 1.6 - 4.7 )	850 ( 290 - 1130 )	3.96 ( 1.64 - 5.26 )	93 ( 77 - 94 )	5.58
	13	07	-	20	2.60	1.40	-	4.0 ( 1.6 - 4.7 )	850 ( 290 - 1140 )	3.96 ( 1.64 - 5.26 )	93 ( 77 - 94 )	6.53
	13	07	-	20	2.60	1.40	-	4.0 ( 1.6 - 4.7 )	850 ( 290 - 1140 )	3.96 ( 1.64 - 5.26 )	93 ( 77 - 94 )	5.76
	13	07	-	20	2.60	1.40	-	4.0 ( 1.6 - 4.7 )	850 ( 290 - 1150 )	3.96 ( 1.64 - 5.26 )	93 ( 77 - 94 )	6.64
	13	07	-	20	2.60	1.40	-	4.0 ( 1.6 - 4.7 )	850 ( 290 - 1150 )	3.96 ( 1.64 - 5.26 )	93 ( 77 - 94 )	5.84
	13	07	-	20	2.60	1.40	-	4.0 ( 1.6 - 4.7 )	850 ( 290 - 1130 )	3.96 ( 1.64 - 5.26 )	93 ( 77 - 94 )	6.45
	13	07	-	20	2.60	1.40	-	4.0 ( 1.6 - 4.7 )	850 ( 290 - 1140 )	3.96 ( 1.64 - 5.26 )	93 ( 77 - 94 )	5.70
	13	07	-	20	2.60	1.40	-	4.0 ( 1.6 - 4.7 )	850 ( 290 - 1140 )	3.96 ( 1.64 - 5.26 )	93 ( 77 - 94 )	5.82
	13	07	-	20	2.60	1.40	-	4.0 ( 1.6 - 4.7 )	850 ( 290 - 1150 )	3.96 ( 1.64 - 5.26 )	93 ( 77 - 94 )	5.15
	10	10	-	20	2.00	2.00	-	4.0 ( 1.6 - 4.7 )	850 ( 290 - 1150 )	3.96 ( 1.64 - 5.26 )	93 ( 77 - 94 )	4.71
	10	10	-	20	2.00	2.00	-	4.0 ( 1.6 - 4.7 )	850 ( 290 - 1140 )	3.96 ( 1.64 - 5.26 )	93 ( 77 - 94 )	6.63
	10	10	-	20	2.00	2.00	-	4.0 ( 1.6 - 4.7 )	850 ( 290 - 1140 )	3.96 ( 1.64 - 5.26 )	93 ( 77 - 94 )	6.53
	10	10	-	20	2.00	2.00	-	4.0 ( 1.6 - 4.7 )	850 ( 290 - 1140 )	3.96 ( 1.64 - 5.26 )	93 ( 77 - 94 )	6.63
	10	10	-	20	2.00	2.00	-	4.0 ( 1.6 - 4.7 )	850 ( 290 - 1140 )	3.96 ( 1.64 - 5.26 )	93 ( 77 - 94 )	6.45
	10	10	-	20	2.00	2.00	-	4.0 ( 1.6 - 4.7 )	850 ( 290 - 1140 )	3.96 ( 1.64 - 5.26 )	93 ( 77 - 94 )	5.84
	10	10	-	20	2.00	2.00	-	4.0 ( 1.6 - 4.7 )	850 ( 290 - 1150 )	3.96 ( 1.64 - 5.26 )	93 ( 77 - 94 )	6.42
10	10	-	20	2.00	2.00	-	4.0 ( 1.6 - 4.7 )	850 ( 290 - 1150 )	3.96 ( 1.64 - 5.26 )	93 ( 77 - 94 )	6.52	
10	10	-	20	2.00	2.00	-	4.0 ( 1.6 - 4.7 )	850 ( 290 - 1130 )	3.96 ( 1.64 - 5.26 )	93 ( 77 - 94 )	6.35	
10	10	-	20	2.00	2.00	-	4.0 ( 1.6 - 4.7 )	850 ( 290 - 1140 )	3.96 ( 1.64 - 5.26 )	93 ( 77 - 94 )	5.76	
10	10	-	20	2.00	2.00	-	4.0 ( 1.6 - 4.7 )	850 ( 290 - 1140 )	3.96 ( 1.64 - 5.26 )	93 ( 77 - 94 )	6.62	
10	10	-	20	2.00	2.00	-	4.0 ( 1.6 - 4.7 )	850 ( 290 - 1150 )	3.96 ( 1.64 - 5.26 )	93 ( 77 - 94 )	6.44	
10	10	-	20	2.00	2.00	-	4.0 ( 1.6 - 4.7 )	850 ( 290 - 1150 )	3.96 ( 1.64 - 5.26 )	93 ( 77 - 94 )	5.83	
10	10	-	20	2.00	2.00	-	4.0 ( 1.6 - 4.7 )	850 ( 290 - 1140 )	3.96 ( 1.64 - 5.26 )	93 ( 77 - 94 )	6.27	
10	10	-	20	2.00	2.00	-	4.0 ( 1.6 - 4.7 )	850 ( 290 - 1150 )	3.96 ( 1.64 - 5.26 )	93 ( 77 - 94 )	5.69	
10	10	-	20	2.00	2.00	-	4.0 ( 1.6 - 4.7 )	850 ( 290 - 1150 )	3.96 ( 1.64 - 5.26 )	93 ( 77 - 94 )	5.17	

## Cooling &lt;230V&gt;

Operating status	Indoor unit				Unit capacity (kW)			Total				
	A	B	C	ΣkBTU	A	B	C	Cooling capacity (kW)	Power consumption (W)	Operating current (A)	Power factor (%)	Rated SEER
2 units	13	10	-	23	2.31	1.69	-	4.0 ( 1.6 - 4.8 )	840 ( 290 - 1150 )	3.91 ( 1.64 - 5.31 )	93 ( 77 - 94 )	4.76
	13	10	-	23	2.31	1.69	-	4.0 ( 1.6 - 4.8 )	840 ( 290 - 1150 )	3.91 ( 1.64 - 5.31 )	93 ( 77 - 94 )	6.70
	13	10	-	23	2.31	1.69	-	4.0 ( 1.6 - 4.8 )	840 ( 290 - 1150 )	3.91 ( 1.64 - 5.31 )	93 ( 77 - 94 )	6.59
	13	10	-	23	2.31	1.69	-	4.0 ( 1.6 - 4.8 )	840 ( 290 - 1150 )	3.91 ( 1.64 - 5.31 )	93 ( 77 - 94 )	6.69
	13	10	-	23	2.31	1.69	-	4.0 ( 1.6 - 4.8 )	840 ( 290 - 1150 )	3.91 ( 1.64 - 5.31 )	93 ( 77 - 94 )	6.51
	13	10	-	23	2.31	1.69	-	4.0 ( 1.6 - 4.8 )	840 ( 290 - 1150 )	3.91 ( 1.64 - 5.31 )	93 ( 77 - 94 )	5.89
	13	10	-	23	2.31	1.69	-	4.0 ( 1.6 - 4.8 )	840 ( 290 - 1150 )	3.91 ( 1.64 - 5.31 )	93 ( 77 - 94 )	6.58
	13	10	-	23	2.31	1.69	-	4.0 ( 1.6 - 4.8 )	840 ( 290 - 1150 )	3.91 ( 1.64 - 5.31 )	94 ( 77 - 94 )	6.48
	13	10	-	23	2.31	1.69	-	4.0 ( 1.6 - 4.8 )	840 ( 290 - 1150 )	3.91 ( 1.64 - 5.31 )	93 ( 77 - 94 )	6.58
	13	10	-	23	2.31	1.69	-	4.0 ( 1.6 - 4.8 )	840 ( 290 - 1150 )	3.91 ( 1.64 - 5.31 )	93 ( 77 - 94 )	6.40
	13	10	-	23	2.31	1.69	-	4.0 ( 1.6 - 4.8 )	840 ( 290 - 1150 )	3.91 ( 1.64 - 5.31 )	93 ( 77 - 94 )	5.80
	13	10	-	23	2.31	1.69	-	4.0 ( 1.6 - 4.8 )	840 ( 290 - 1150 )	3.91 ( 1.64 - 5.31 )	93 ( 77 - 94 )	6.69
	13	10	-	23	2.31	1.69	-	4.0 ( 1.6 - 4.8 )	840 ( 290 - 1150 )	3.91 ( 1.64 - 5.31 )	93 ( 77 - 94 )	6.58
	13	10	-	23	2.31	1.69	-	4.0 ( 1.6 - 4.8 )	840 ( 290 - 1150 )	3.91 ( 1.64 - 5.31 )	93 ( 77 - 94 )	6.69
	13	10	-	23	2.31	1.69	-	4.0 ( 1.6 - 4.8 )	840 ( 290 - 1150 )	3.91 ( 1.64 - 5.31 )	93 ( 77 - 94 )	6.51
	13	10	-	23	2.31	1.69	-	4.0 ( 1.6 - 4.8 )	840 ( 290 - 1150 )	3.91 ( 1.64 - 5.31 )	93 ( 77 - 94 )	5.89
	13	10	-	23	2.31	1.69	-	4.0 ( 1.6 - 4.8 )	840 ( 290 - 1150 )	3.91 ( 1.64 - 5.31 )	93 ( 77 - 94 )	6.50
	13	10	-	23	2.31	1.69	-	4.0 ( 1.6 - 4.8 )	840 ( 290 - 1150 )	3.91 ( 1.64 - 5.31 )	93 ( 77 - 94 )	6.40
	13	10	-	23	2.31	1.69	-	4.0 ( 1.6 - 4.8 )	840 ( 290 - 1150 )	3.91 ( 1.64 - 5.31 )	93 ( 77 - 94 )	6.49
	13	10	-	23	2.31	1.69	-	4.0 ( 1.6 - 4.8 )	840 ( 290 - 1150 )	3.91 ( 1.64 - 5.31 )	93 ( 77 - 94 )	6.32
	13	10	-	23	2.31	1.69	-	4.0 ( 1.6 - 4.8 )	840 ( 290 - 1150 )	3.91 ( 1.64 - 5.31 )	93 ( 77 - 94 )	5.74
	13	10	-	23	2.31	1.69	-	4.0 ( 1.6 - 4.8 )	840 ( 290 - 1150 )	3.91 ( 1.64 - 5.31 )	93 ( 77 - 94 )	5.86
	13	10	-	23	2.31	1.69	-	4.0 ( 1.6 - 4.8 )	840 ( 290 - 1150 )	3.91 ( 1.64 - 5.31 )	93 ( 77 - 94 )	5.78
	13	10	-	23	2.31	1.69	-	4.0 ( 1.6 - 4.8 )	840 ( 290 - 1150 )	3.91 ( 1.64 - 5.31 )	93 ( 77 - 94 )	5.86
	13	10	-	23	2.31	1.69	-	4.0 ( 1.6 - 4.8 )	840 ( 290 - 1150 )	3.91 ( 1.64 - 5.31 )	93 ( 77 - 94 )	5.72
	13	10	-	23	2.31	1.69	-	4.0 ( 1.6 - 4.8 )	840 ( 290 - 1150 )	3.91 ( 1.64 - 5.31 )	93 ( 77 - 94 )	5.19
	13	13	-	26	2.00	2.00	-	4.0 ( 1.6 - 4.9 )	830 ( 290 - 1150 )	3.87 ( 1.64 - 5.31 )	93 ( 77 - 94 )	4.82
	13	13	-	26	2.00	2.00	-	4.0 ( 1.6 - 4.9 )	830 ( 290 - 1150 )	3.87 ( 1.64 - 5.31 )	93 ( 77 - 94 )	6.73
	13	13	-	26	2.00	2.00	-	4.0 ( 1.6 - 4.9 )	830 ( 290 - 1150 )	3.87 ( 1.64 - 5.31 )	93 ( 77 - 94 )	6.61
	13	13	-	26	2.00	2.00	-	4.0 ( 1.6 - 4.9 )	830 ( 290 - 1150 )	3.87 ( 1.64 - 5.31 )	93 ( 77 - 94 )	6.72
	13	13	-	26	2.00	2.00	-	4.0 ( 1.6 - 4.9 )	830 ( 290 - 1150 )	3.87 ( 1.64 - 5.31 )	93 ( 77 - 94 )	6.52
	13	13	-	26	2.00	2.00	-	4.0 ( 1.6 - 4.9 )	830 ( 290 - 1150 )	3.87 ( 1.64 - 5.31 )	93 ( 77 - 94 )	5.88
13	13	-	26	2.00	2.00	-	4.0 ( 1.6 - 4.9 )	830 ( 290 - 1150 )	3.87 ( 1.64 - 5.31 )	93 ( 77 - 94 )	6.50	
13	13	-	26	2.00	2.00	-	4.0 ( 1.6 - 4.9 )	830 ( 290 - 1150 )	3.87 ( 1.64 - 5.31 )	93 ( 77 - 94 )	6.60	
13	13	-	26	2.00	2.00	-	4.0 ( 1.6 - 4.9 )	830 ( 290 - 1150 )	3.87 ( 1.64 - 5.31 )	93 ( 77 - 94 )	6.41	
13	13	-	26	2.00	2.00	-	4.0 ( 1.6 - 4.9 )	830 ( 290 - 1150 )	3.87 ( 1.64 - 5.31 )	93 ( 77 - 94 )	5.79	
13	13	-	26	2.00	2.00	-	4.0 ( 1.6 - 4.9 )	830 ( 290 - 1150 )	3.87 ( 1.64 - 5.31 )	93 ( 77 - 94 )	6.71	
13	13	-	26	2.00	2.00	-	4.0 ( 1.6 - 4.9 )	830 ( 290 - 1150 )	3.87 ( 1.64 - 5.31 )	93 ( 77 - 94 )	6.52	
13	13	-	26	2.00	2.00	-	4.0 ( 1.6 - 4.9 )	830 ( 290 - 1150 )	3.87 ( 1.64 - 5.31 )	93 ( 77 - 94 )	5.88	
13	13	-	26	2.00	2.00	-	4.0 ( 1.6 - 4.9 )	830 ( 290 - 1150 )	3.87 ( 1.64 - 5.31 )	93 ( 77 - 94 )	6.33	
13	13	-	26	2.00	2.00	-	4.0 ( 1.6 - 4.9 )	830 ( 290 - 1150 )	3.87 ( 1.64 - 5.31 )	93 ( 77 - 94 )	5.73	
13	13	-	26	2.00	2.00	-	4.0 ( 1.6 - 4.9 )	830 ( 290 - 1150 )	3.87 ( 1.64 - 5.31 )	93 ( 77 - 94 )	5.18	

## Heating &lt;230V&gt;

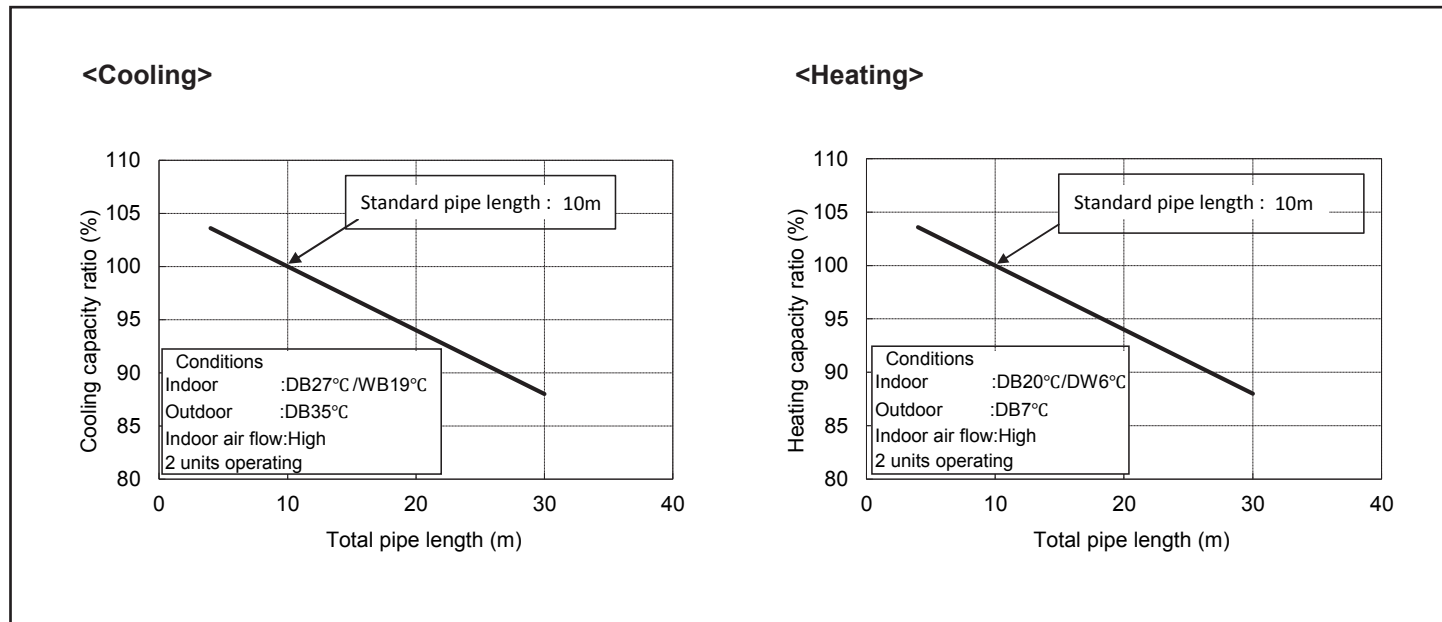
Operating status	Indoor unit				Unit capacity (kW)			Total				
	A	B	C	ΣKBTU	A	B	C	Cooling capacity (kW)	Power consumption (W)	Operating current (A)	Power factor (%)	Rated SCOP
1 unit	07	-	-	7	2.00	-	-	2.7 ( 0.9 - 4.3 )	620 ( 190 - 1390 )	3.20 ( 1.08 - 6.37 )	84 ( 76 - 95 )	4.35
	10	-	-	10	4.00	-	-	4.0 ( 0.9 - 4.4 )	1120 ( 190 - 1360 )	5.17 ( 1.08 - 6.24 )	94 ( 76 - 95 )	3.57
	13	-	-	13	4.40	-	-	4.4 ( 1.0 - 4.7 )	1260 ( 190 - 1480 )	5.80 ( 1.08 - 6.77 )	95 ( 76 - 94 )	3.49
2 units	07	07	-	14	2.20	2.20	-	4.4 ( 1.3 - 5.1 )	920 ( 240 - 1270 )	4.27 ( 1.36 - 5.84 )	94 ( 77 - 95 )	4.78
	07	07	-	14	2.20	2.20	-	4.4 ( 1.3 - 5.1 )	920 ( 240 - 1270 )	4.27 ( 1.36 - 5.84 )	94 ( 77 - 95 )	4.31
	07	07	-	14	2.20	2.20	-	4.4 ( 1.3 - 5.1 )	920 ( 240 - 1270 )	4.27 ( 1.36 - 5.84 )	94 ( 77 - 95 )	4.22
	07	07	-	14	2.20	2.20	-	4.4 ( 1.3 - 5.1 )	920 ( 240 - 1270 )	4.27 ( 1.36 - 5.84 )	94 ( 77 - 95 )	4.12
	10	07	-	17	2.63	1.77	-	4.4 ( 1.3 - 5.1 )	910 ( 250 - 1250 )	4.23 ( 1.42 - 5.75 )	94 ( 77 - 94 )	4.84
	10	07	-	17	2.63	1.77	-	4.4 ( 1.3 - 5.1 )	910 ( 250 - 1250 )	4.23 ( 1.42 - 5.75 )	94 ( 77 - 94 )	4.33
	10	07	-	17	2.63	1.77	-	4.4 ( 1.3 - 5.1 )	910 ( 250 - 1250 )	4.23 ( 1.42 - 5.75 )	94 ( 77 - 94 )	4.24
	10	07	-	17	2.63	1.77	-	4.4 ( 1.3 - 5.1 )	910 ( 250 - 1250 )	4.23 ( 1.42 - 5.75 )	93 ( 77 - 94 )	4.33
	10	07	-	17	2.63	1.77	-	4.4 ( 1.3 - 5.1 )	910 ( 250 - 1250 )	4.23 ( 1.42 - 5.75 )	93 ( 77 - 94 )	4.23
	10	07	-	17	2.63	1.77	-	4.4 ( 1.3 - 5.1 )	910 ( 250 - 1250 )	4.23 ( 1.42 - 5.75 )	93 ( 77 - 94 )	4.33
	10	07	-	17	2.63	1.77	-	4.4 ( 1.3 - 5.1 )	910 ( 250 - 1250 )	4.23 ( 1.42 - 5.75 )	93 ( 77 - 94 )	4.23
	10	07	-	17	2.63	1.77	-	4.4 ( 1.3 - 5.1 )	910 ( 250 - 1250 )	4.23 ( 1.42 - 5.75 )	93 ( 77 - 94 )	4.32
	10	07	-	17	2.63	1.77	-	4.4 ( 1.3 - 5.1 )	910 ( 250 - 1250 )	4.23 ( 1.42 - 5.75 )	93 ( 77 - 94 )	4.23
	10	07	-	17	2.63	1.77	-	4.4 ( 1.3 - 5.1 )	910 ( 250 - 1250 )	4.23 ( 1.42 - 5.75 )	93 ( 77 - 94 )	4.24
	10	07	-	17	2.63	1.77	-	4.4 ( 1.3 - 5.1 )	910 ( 250 - 1250 )	4.23 ( 1.42 - 5.75 )	93 ( 77 - 94 )	4.14
	13	07	-	20	2.73	1.67	-	4.4 ( 1.3 - 5.2 )	880 ( 240 - 1250 )	4.09 ( 1.42 - 5.75 )	93 ( 77 - 94 )	5.00
	13	07	-	20	2.73	1.67	-	4.4 ( 1.3 - 5.2 )	880 ( 240 - 1250 )	4.09 ( 1.42 - 5.75 )	93 ( 77 - 94 )	4.37
	13	07	-	20	2.73	1.67	-	4.4 ( 1.3 - 5.2 )	880 ( 240 - 1250 )	4.09 ( 1.42 - 5.75 )	93 ( 77 - 94 )	4.27
	13	07	-	20	2.73	1.67	-	4.4 ( 1.3 - 5.2 )	880 ( 240 - 1250 )	4.09 ( 1.42 - 5.75 )	93 ( 77 - 94 )	4.37
	13	07	-	20	2.73	1.67	-	4.4 ( 1.3 - 5.2 )	880 ( 240 - 1250 )	4.09 ( 1.42 - 5.75 )	93 ( 77 - 94 )	4.27
	13	07	-	20	2.73	1.67	-	4.4 ( 1.3 - 5.2 )	880 ( 240 - 1250 )	4.09 ( 1.42 - 5.75 )	93 ( 77 - 94 )	4.37
	13	07	-	20	2.73	1.67	-	4.4 ( 1.3 - 5.2 )	880 ( 240 - 1250 )	4.09 ( 1.42 - 5.75 )	93 ( 77 - 94 )	4.27
	13	07	-	20	2.73	1.67	-	4.4 ( 1.3 - 5.2 )	880 ( 240 - 1250 )	4.09 ( 1.42 - 5.75 )	93 ( 77 - 94 )	4.37
	13	07	-	20	2.73	1.67	-	4.4 ( 1.3 - 5.2 )	880 ( 240 - 1250 )	4.09 ( 1.42 - 5.75 )	93 ( 77 - 94 )	4.27
	13	07	-	20	2.73	1.67	-	4.4 ( 1.3 - 5.2 )	880 ( 240 - 1250 )	4.09 ( 1.42 - 5.75 )	93 ( 77 - 94 )	4.17
	10	10	-	20	2.20	2.20	-	4.4 ( 1.3 - 5.1 )	890 ( 250 - 1230 )	4.14 ( 1.42 - 5.66 )	94 ( 77 - 94 )	4.94
	10	10	-	20	2.00	2.00	-	4.4 ( 1.3 - 5.1 )	890 ( 250 - 1230 )	4.14 ( 1.42 - 5.66 )	94 ( 77 - 94 )	4.35
	10	10	-	20	2.00	2.00	-	4.4 ( 1.3 - 5.1 )	890 ( 250 - 1230 )	4.14 ( 1.42 - 5.66 )	94 ( 77 - 94 )	4.35
	10	10	-	20	2.00	2.00	-	4.4 ( 1.3 - 5.1 )	890 ( 250 - 1230 )	4.14 ( 1.42 - 5.66 )	94 ( 77 - 94 )	4.35
	10	10	-	20	2.00	2.00	-	4.4 ( 1.3 - 5.1 )	890 ( 250 - 1230 )	4.14 ( 1.42 - 5.66 )	94 ( 77 - 94 )	4.35
10	10	-	20	2.00	2.00	-	4.4 ( 1.3 - 5.1 )	890 ( 250 - 1230 )	4.14 ( 1.42 - 5.66 )	94 ( 77 - 94 )	4.26	
10	10	-	20	2.00	2.00	-	4.4 ( 1.3 - 5.1 )	890 ( 250 - 1230 )	4.14 ( 1.42 - 5.66 )	94 ( 77 - 94 )	4.34	
10	10	-	20	2.00	2.00	-	4.4 ( 1.3 - 5.1 )	890 ( 250 - 1230 )	4.14 ( 1.42 - 5.66 )	94 ( 77 - 94 )	4.35	
10	10	-	20	2.00	2.00	-	4.4 ( 1.3 - 5.1 )	890 ( 250 - 1230 )	4.14 ( 1.42 - 5.66 )	94 ( 77 - 94 )	4.34	
10	10	-	20	2.00	2.00	-	4.4 ( 1.3 - 5.1 )	890 ( 250 - 1230 )	4.14 ( 1.42 - 5.66 )	94 ( 77 - 94 )	4.25	
10	10	-	20	2.00	2.00	-	4.4 ( 1.3 - 5.1 )	890 ( 250 - 1230 )	4.14 ( 1.42 - 5.66 )	94 ( 77 - 94 )	4.35	
10	10	-	20	2.00	2.00	-	4.4 ( 1.3 - 5.1 )	890 ( 250 - 1230 )	4.14 ( 1.42 - 5.66 )	94 ( 77 - 94 )	4.35	
10	10	-	20	2.00	2.00	-	4.4 ( 1.3 - 5.1 )	890 ( 250 - 1230 )	4.14 ( 1.42 - 5.66 )	94 ( 77 - 94 )	4.26	
10	10	-	20	2.00	2.00	-	4.4 ( 1.3 - 5.1 )	890 ( 250 - 1230 )	4.14 ( 1.42 - 5.66 )	94 ( 77 - 94 )	4.34	
10	10	-	20	2.00	2.00	-	4.4 ( 1.3 - 5.1 )	890 ( 250 - 1230 )	4.14 ( 1.42 - 5.66 )	94 ( 77 - 94 )	4.25	
10	10	-	20	2.00	2.00	-	4.4 ( 1.3 - 5.1 )	890 ( 250 - 1230 )	4.14 ( 1.42 - 5.66 )	94 ( 77 - 94 )	4.16	



### 3. Pipe Capacity correction

#### RAS-2M14S3AV-E

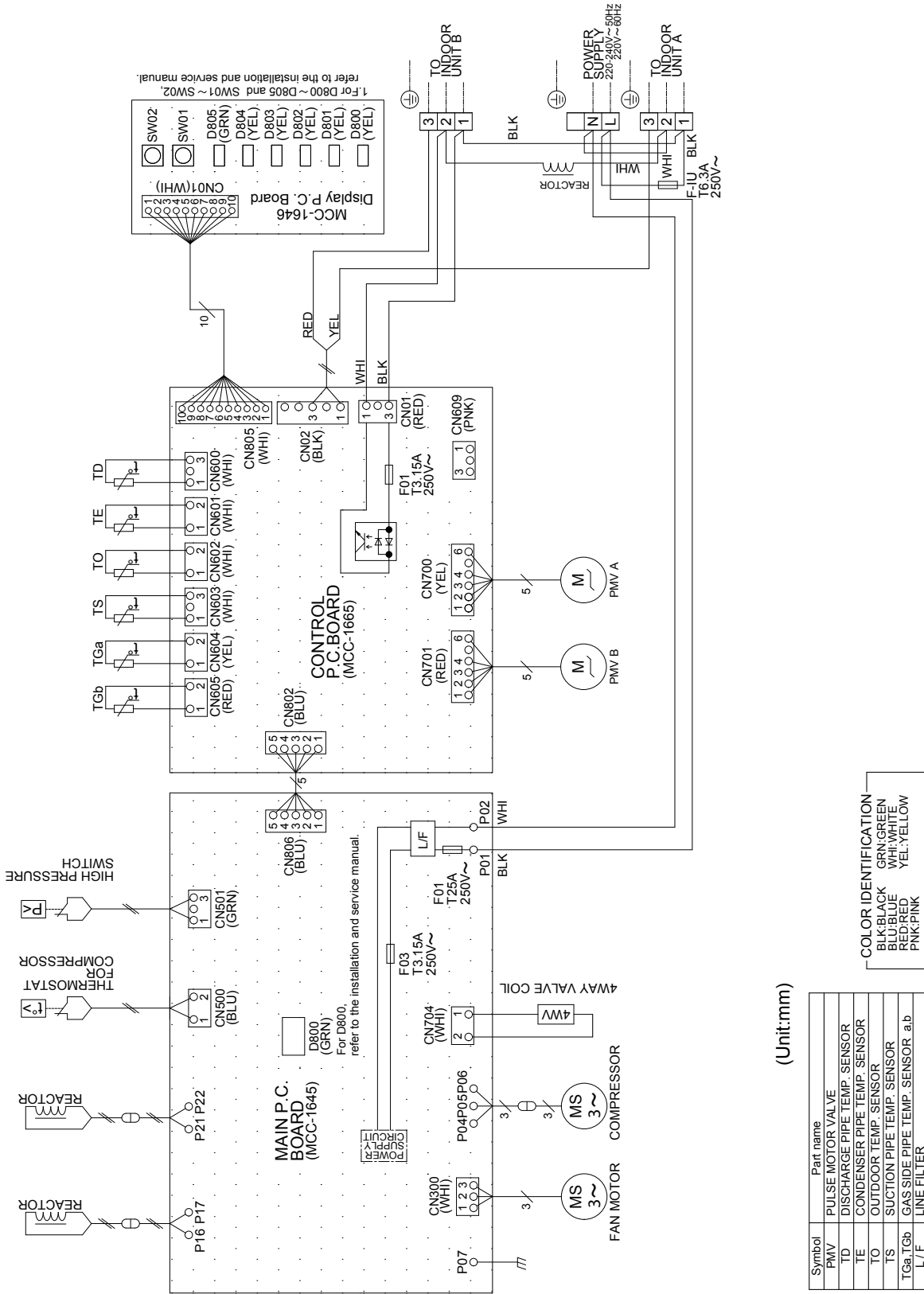
#### 2 Unit operating





# 5. Wiring diagrams

## RAS-2M14S3AV-E



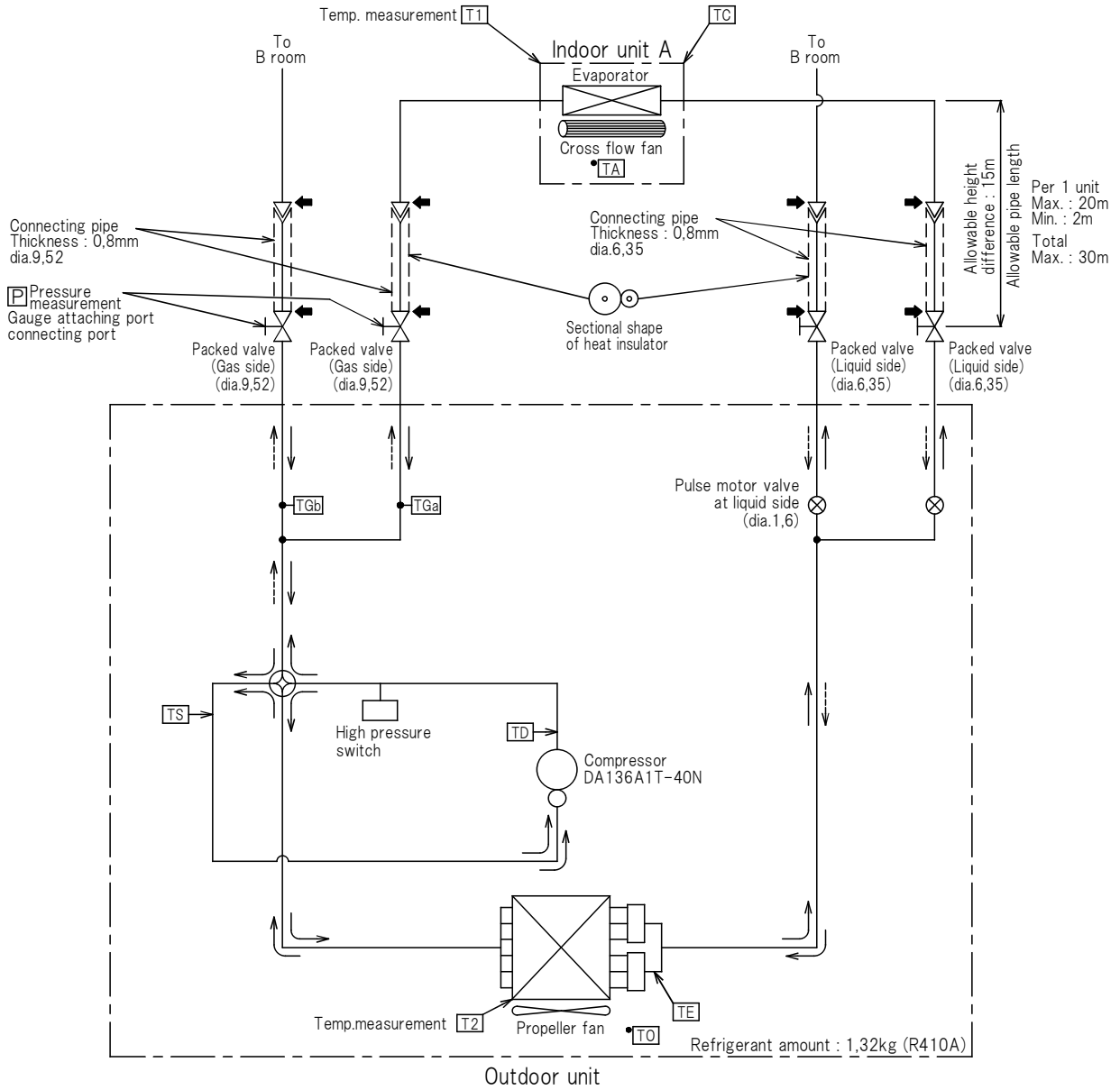
(Unit:mm)

Symbol	Part name
PMV	PULSE MOTOR/VALVE
TD	DISCHARGE PIPE TEMP. SENSOR
TE	CONDENSER PIPE TEMP. SENSOR
TO	OUTDOOR TEMP. SENSOR
TS	SUCTION PIPE TEMP. SENSOR
TGa, TGb	GAS SIDE PIPE TEMP. SENSOR. a,b
L/F	LINE FILTER

COLOR IDENTIFICATION	
BLK	BLACK
GRN	GREEN
BLU	BLUE
RED	RED
YEL	YELLOW
PNK	PINK

# 6. REFRIGERANT CYCLE DIAGRAM

## RAS-2M14S3AV-E



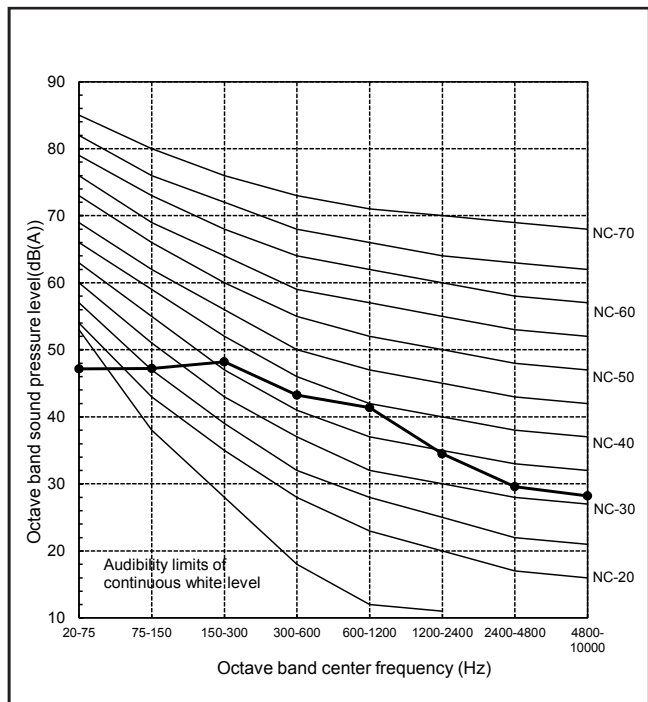
NOTE : ➡ Gas leak check position  
 ➔ Refrigerant flow (Cooling)  
 ←← Refrigerant flow (Heating)

## 7. Sound Characteristics (NC Curve)

### RAS-2M14S3AV-E

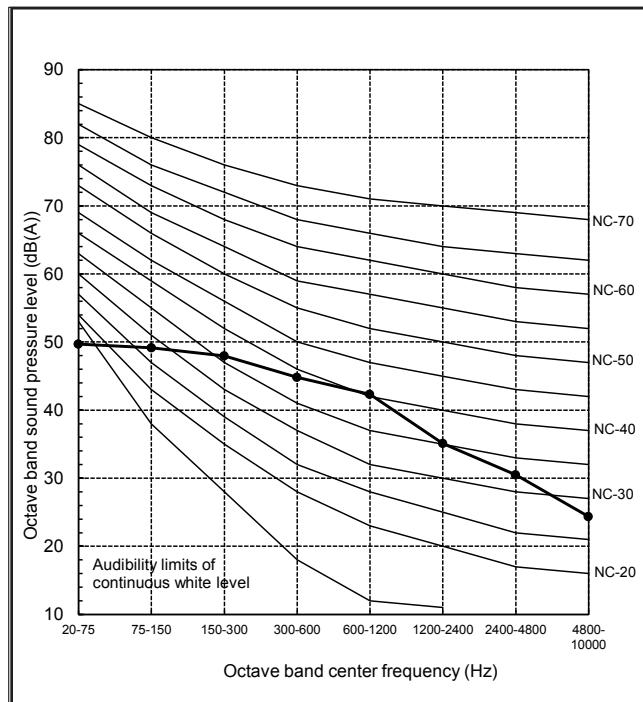
#### (Cooling)

Fan Tap	Cooling
Sound pressure level (dB(A))	45

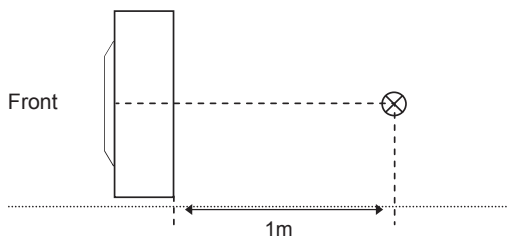


#### (Heating)

Fan Tap	Heating
Sound pressure level (dB(A))	46



Sound level values shown are based on a measurement in a non resonant room



## 8. Capacity table

### Cooling(230V/50Hz)

Combination (Capacity)	Outdoor air temp. [°CDB]	Indoor air temp. [°CWB]											
		14		16		18		19		22		24	
		TC [kW]	PI [kW]	TC [kW]	PI [kW]	TC [kW]	PI [kW]	TC [kW]	PI [kW]	TC [kW]	PI [kW]	TC [kW]	PI [kW]
07	46	1.56	0.44	1.66	0.44	1.75	0.45	1.80	0.45	1.93	0.46	2.03	0.47
	43	1.62	0.42	1.71	0.43	1.81	0.44	1.85	0.44	1.99	0.45	2.08	0.46
	40	1.68	0.41	1.77	0.42	1.86	0.42	1.91	0.43	2.05	0.44	2.14	0.44
	35	1.77	0.38	1.86	0.39	1.95	0.40	2.00	0.40	2.14	0.41	2.23	0.42
	32	1.83	0.37	1.92	0.38	2.01	0.39	2.06	0.39	2.19	0.40	2.29	0.40
	25	1.96	0.34	2.05	0.34	2.14	0.35	2.19	0.36	2.32	0.37	2.42	0.37
	22	2.01	0.33	2.10	0.33	2.20	0.34	2.24	0.34	2.38	0.35	2.47	0.36
10	46	2.11	0.70	2.24	0.71	2.36	0.72	2.42	0.73	2.61	0.74	2.74	0.75
	43	2.19	0.68	2.31	0.69	2.44	0.70	2.50	0.70	2.69	0.72	2.81	0.73
	40	2.26	0.66	2.39	0.67	2.51	0.68	2.58	0.68	2.76	0.70	2.89	0.71
	35	2.39	0.61	2.51	0.62	2.64	0.63	2.70	0.64	2.89	0.65	3.01	0.66
	32	2.46	0.60	2.59	0.61	2.71	0.62	2.78	0.62	2.96	0.64	3.09	0.65
	25	2.64	0.55	2.77	0.55	2.89	0.57	2.95	0.57	3.14	0.59	3.26	0.59
	22	2.72	0.52	2.84	0.53	2.97	0.55	3.03	0.55	3.21	0.57	3.34	0.57
13	46	2.90	1.15	3.07	1.17	3.24	1.18	3.32	1.19	3.58	1.22	3.75	1.23
	43	3.00	1.11	3.17	1.13	3.34	1.15	3.43	1.16	3.68	1.18	3.85	1.20
	40	3.10	1.08	3.27	1.09	3.44	1.11	3.53	1.12	3.78	1.14	3.96	1.16
	35	3.27	1.01	3.44	1.02	3.61	1.04	3.70	1.05	3.96	1.07	4.13	1.09
	32	3.38	0.98	3.55	0.99	3.72	1.02	3.81	1.02	4.06	1.05	4.23	1.06
	25	3.62	0.89	3.79	0.91	3.96	0.93	4.05	0.93	4.30	0.96	4.47	0.97
	22	3.72	0.86	3.89	0.87	4.06	0.90	4.15	0.89	4.40	0.93	4.58	0.94

TC : Total capacity [kW]

PI : Power input [kW]

## Cooling(230V/50Hz)

Combination (Capacity)	Outdoor air temp. [°C DB]	Indoor air temp. [°CWB]											
		14		16		18		19		22		24	
		TC [kW]	PI [kW]	TC [kW]	PI [kW]	TC [kW]	PI [kW]	TC [kW]	PI [kW]	TC [kW]	PI [kW]	TC [kW]	PI [kW]
07+07	46	3.13	1.03	3.31	1.04	3.50	1.06	3.59	1.07	3.87	1.09	4.05	1.10
	43	3.24	1.00	3.43	1.01	3.61	1.03	3.70	1.03	3.98	1.06	4.17	1.07
	40	3.35	0.96	3.54	0.98	3.72	0.99	3.82	1.00	4.09	1.02	4.28	1.04
	35	3.54	0.90	3.72	0.92	3.91	0.93	4.00	0.94	4.28	0.96	4.46	0.98
	32	3.65	0.88	3.84	0.89	4.02	0.91	4.11	0.91	4.39	0.94	4.57	0.95
	25	3.91	0.80	4.10	0.81	4.28	0.83	4.37	0.83	4.65	0.86	4.84	0.87
	22	4.02	0.77	4.21	0.78	4.39	0.80	4.49	0.80	4.76	0.83	4.95	0.84
10+07	46	3.44	1.01	3.65	1.02	3.85	1.04	3.95	1.05	4.25	1.07	4.46	1.08
	43	3.57	0.98	3.77	0.99	3.97	1.00	4.07	1.01	4.38	1.03	4.58	1.05
	40	3.69	0.94	3.89	0.96	4.09	0.97	4.20	0.98	4.50	1.00	4.70	1.02
	35	3.89	0.88	4.09	0.90	4.30	0.91	4.40	0.92	4.70	0.94	4.91	0.96
	32	4.02	0.86	4.22	0.87	4.42	0.89	4.52	0.89	4.83	0.92	5.03	0.93
	25	4.30	0.78	4.51	0.79	4.71	0.82	4.81	0.82	5.11	0.84	5.32	0.85
	22	4.43	0.75	4.63	0.76	4.83	0.78	4.93	0.78	5.23	0.81	5.44	0.82
13+07	46	3.44	0.96	3.65	0.98	3.85	0.99	3.95	1.00	4.25	1.02	4.46	1.03
	43	3.57	0.93	3.77	0.95	3.97	0.96	4.07	0.97	4.38	0.99	4.58	1.00
	40	3.69	0.90	3.89	0.92	4.09	0.93	4.20	0.94	4.50	0.96	4.70	0.97
	35	3.89	0.85	4.09	0.86	4.30	0.87	4.40	0.88	4.70	0.90	4.91	0.91
	32	4.02	0.82	4.22	0.83	4.42	0.85	4.52	0.85	4.83	0.88	5.03	0.89
	25	4.30	0.75	4.51	0.76	4.71	0.78	4.81	0.78	5.11	0.81	5.32	0.82
	22	4.43	0.72	4.63	0.73	4.83	0.75	4.93	0.75	5.23	0.78	5.44	0.78
10+10	46	3.44	0.98	3.65	0.99	3.85	1.00	3.95	1.01	4.25	1.03	4.46	1.05
	43	3.57	0.94	3.77	0.96	3.97	0.97	4.07	0.98	4.38	1.00	4.58	1.01
	40	3.69	0.91	3.89	0.93	4.09	0.94	4.20	0.95	4.50	0.97	4.70	0.98
	35	3.89	0.85	4.09	0.87	4.30	0.88	4.40	0.89	4.70	0.91	4.91	0.92
	32	4.02	0.83	4.22	0.84	4.42	0.86	4.52	0.86	4.83	0.89	5.03	0.90
	25	4.30	0.76	4.51	0.77	4.71	0.79	4.81	0.79	5.11	0.82	5.32	0.82
	22	4.43	0.73	4.63	0.74	4.83	0.76	4.93	0.76	5.23	0.79	5.44	0.79
13+10	46	3.13	0.92	3.31	0.93	3.50	0.95	3.59	0.95	3.87	0.97	4.05	0.99
	43	3.24	0.89	3.43	0.90	3.61	0.92	3.70	0.92	3.98	0.94	4.17	0.96
	40	3.35	0.86	3.54	0.87	3.72	0.89	3.82	0.90	4.09	0.91	4.28	0.93
	35	3.54	0.81	3.72	0.82	3.91	0.83	4.00	0.84	4.28	0.86	4.46	0.87
	32	3.65	0.78	3.84	0.79	4.02	0.81	4.11	0.82	4.39	0.84	4.57	0.85
	25	3.91	0.72	4.10	0.72	4.28	0.75	4.37	0.75	4.65	0.77	4.84	0.78
	22	4.02	0.69	4.21	0.69	4.39	0.72	4.49	0.72	4.76	0.74	4.95	0.75
13+13	46	3.13	0.91	3.31	0.92	3.50	0.93	3.59	0.94	3.87	0.96	4.05	0.98
	43	3.24	0.88	3.43	0.89	3.61	0.91	3.70	0.91	3.98	0.93	4.17	0.95
	40	3.35	0.85	3.54	0.86	3.72	0.88	3.82	0.88	4.09	0.90	4.28	0.92
	35	3.54	0.80	3.72	0.81	3.91	0.82	4.00	0.83	4.28	0.85	4.46	0.86
	32	3.65	0.77	3.84	0.78	4.02	0.80	4.11	0.81	4.39	0.83	4.57	0.84
	25	3.91	0.71	4.10	0.72	4.28	0.74	4.37	0.74	4.65	0.76	4.84	0.77
	22	4.02	0.68	4.21	0.69	4.39	0.71	4.49	0.71	4.76	0.73	4.95	0.74

TC : Total capacity [kW]

PI : Power input [kW]

## Heating (230V/50Hz)

Combination (Capacity)	Outdoor air temp. [°CWB]	Indoor air temp. [°CDB]											
		16		18		20		21		22		24	
		TC [kW]	PI [kW]	TC [kW]	PI [kW]	TC [kW]	PI [kW]	TC [kW]	PI [kW]	TC [kW]	PI [kW]	TC [kW]	PI [kW]
07	15	3.32	0.66	3.29	0.66	3.25	0.67	3.23	0.67	3.21	0.67	3.17	0.67
	10	3.02	0.63	2.98	0.63	2.94	0.64	2.92	0.64	2.91	0.64	2.87	0.65
	6	2.77	0.61	2.74	0.61	2.70	0.62	2.68	0.62	2.66	0.62	2.62	0.63
	0	2.41	0.58	2.37	0.58	2.33	0.59	2.32	0.59	2.30	0.59	2.26	0.60
	-5	2.10	0.55	2.07	0.56	2.03	0.56	2.01	0.57	1.99	0.57	1.96	0.57
	-10	1.80	0.53	1.76	0.53	1.73	0.54	1.71	0.54	1.69	0.54	1.65	0.54
	-15	1.49	0.50	1.46	0.51	1.42	0.51	1.40	0.51	1.38	0.51	1.35	0.52
10	15	4.92	1.18	4.87	1.19	4.81	1.20	4.79	1.21	4.76	1.21	4.70	1.22
	10	4.47	1.14	4.42	1.15	4.36	1.16	4.33	1.16	4.31	1.16	4.25	1.17
	6	4.11	1.10	4.05	1.11	4.00	1.12	3.97	1.12	3.94	1.12	3.89	1.13
	0	3.57	1.05	3.51	1.05	3.46	1.07	3.43	1.07	3.40	1.07	3.35	1.08
	-5	3.12	1.00	3.06	1.01	3.01	1.02	2.98	1.02	2.95	1.02	2.90	1.03
	-10	2.67	0.96	2.61	0.96	2.56	0.97	2.53	0.98	2.50	0.98	2.44	0.98
	-15	2.21	0.91	2.16	0.92	2.10	0.93	2.08	0.93	2.05	0.93	1.99	0.93
13	15	5.42	1.33	5.35	1.34	5.29	1.35	5.26	1.36	5.23	1.36	5.17	1.37
	10	4.92	1.28	4.86	1.29	4.80	1.30	4.77	1.31	4.74	1.31	4.67	1.31
	6	4.52	1.24	4.46	1.25	4.40	1.26	4.37	1.26	4.34	1.26	4.28	1.27
	0	3.93	1.18	3.87	1.19	3.80	1.20	3.77	1.20	3.74	1.20	3.68	1.21
	-5	3.43	1.13	3.37	1.13	3.31	1.15	3.28	1.15	3.25	1.15	3.19	1.16
	-10	2.93	1.08	2.87	1.08	2.81	1.09	2.78	1.10	2.75	1.10	2.69	1.10
	-15	2.44	1.03	2.38	1.03	2.32	1.04	2.28	1.05	2.25	1.05	2.19	1.05

TC : Total capacity [kW]

PI : Power input [kW]

## Heating (230V/50Hz)

Combination (Capacity)	Outdoor air temp. [°CWB]	Indoor air temp. [°CDB]											
		16		18		20		21		22		24	
		TC [kW]	PI [kW]	TC [kW]	PI [kW]	TC [kW]	PI [kW]	TC [kW]	PI [kW]	TC [kW]	PI [kW]	TC [kW]	PI [kW]
07+07	15	5.42	0.97	5.35	0.98	5.29	0.99	5.26	0.99	5.23	0.99	5.17	1.00
	10	4.92	0.94	4.86	0.94	4.80	0.95	4.77	0.95	4.74	0.95	4.67	0.96
	6	4.52	0.90	4.46	0.91	4.40	0.92	4.37	0.92	4.34	0.92	4.28	0.93
	0	3.93	0.86	3.87	0.87	3.80	0.88	3.77	0.88	3.74	0.88	3.68	0.88
	-5	3.43	0.82	3.37	0.83	3.31	0.84	3.28	0.84	3.25	0.84	3.19	0.84
	-10	2.93	0.79	2.87	0.79	2.81	0.80	2.78	0.80	2.75	0.80	2.69	0.81
10+07	15	5.42	0.96	5.35	0.97	5.29	0.98	5.26	0.98	5.23	0.98	5.17	0.99
	10	4.92	0.93	4.86	0.93	4.80	0.94	4.77	0.94	4.74	0.94	4.67	0.95
	6	4.52	0.90	4.46	0.90	4.40	0.91	4.37	0.91	4.34	0.91	4.28	0.92
	0	3.93	0.85	3.87	0.86	3.80	0.87	3.77	0.87	3.74	0.87	3.68	0.87
	-5	3.43	0.81	3.37	0.82	3.31	0.83	3.28	0.83	3.25	0.83	3.19	0.84
	-10	2.93	0.78	2.87	0.78	2.81	0.79	2.78	0.79	2.75	0.79	2.69	0.80
13+07	15	5.42	0.93	5.35	0.94	5.29	0.95	5.26	0.95	5.23	0.95	5.17	0.95
	10	4.92	0.90	4.86	0.90	4.80	0.91	4.77	0.91	4.74	0.91	4.67	0.92
	6	4.52	0.87	4.46	0.87	4.40	0.88	4.37	0.88	4.34	0.88	4.28	0.89
	0	3.93	0.82	3.87	0.83	3.80	0.84	3.77	0.84	3.74	0.84	3.68	0.84
	-5	3.43	0.79	3.37	0.79	3.31	0.80	3.28	0.80	3.25	0.80	3.19	0.81
	-10	2.93	0.75	2.87	0.76	2.81	0.76	2.78	0.77	2.75	0.77	2.69	0.77
10+10	15	5.42	0.94	5.35	0.95	5.29	0.96	5.26	0.96	5.23	0.96	5.17	0.97
	10	4.92	0.91	4.86	0.91	4.80	0.92	4.77	0.92	4.74	0.92	4.67	0.93
	6	4.52	0.88	4.46	0.88	4.40	0.89	4.37	0.89	4.34	0.89	4.28	0.90
	0	3.93	0.83	3.87	0.84	3.80	0.85	3.77	0.85	3.74	0.85	3.68	0.85
	-5	3.43	0.80	3.37	0.80	3.31	0.81	3.28	0.81	3.25	0.81	3.19	0.82
	-10	2.93	0.76	2.87	0.77	2.81	0.77	2.78	0.78	2.75	0.78	2.69	0.78
13+10	15	5.42	0.92	5.35	0.93	5.29	0.94	5.26	0.94	5.23	0.94	5.17	0.94
	10	4.92	0.88	4.86	0.89	4.80	0.90	4.77	0.90	4.74	0.90	4.67	0.91
	6	4.52	0.86	4.46	0.86	4.40	0.87	4.37	0.87	4.34	0.87	4.28	0.88
	0	3.93	0.81	3.87	0.82	3.80	0.83	3.77	0.83	3.74	0.83	3.68	0.84
	-5	3.43	0.78	3.37	0.78	3.31	0.79	3.28	0.79	3.25	0.79	3.19	0.80
	-10	2.93	0.74	2.87	0.75	2.81	0.76	2.78	0.76	2.75	0.76	2.69	0.76
13+13	15	5.42	0.90	5.35	0.90	5.29	0.91	5.26	0.92	5.23	0.92	5.17	0.92
	10	4.92	0.86	4.86	0.87	4.80	0.88	4.77	0.88	4.74	0.88	4.67	0.89
	6	4.52	0.84	4.46	0.84	4.40	0.85	4.37	0.85	4.34	0.85	4.28	0.86
	0	3.93	0.80	3.87	0.80	3.80	0.81	3.77	0.81	3.74	0.81	3.68	0.82
	-5	3.43	0.76	3.37	0.77	3.31	0.77	3.28	0.78	3.25	0.78	3.19	0.78
	-10	2.93	0.73	2.87	0.73	2.81	0.74	2.78	0.74	2.75	0.74	2.69	0.74
	-15	2.44	0.69	2.38	0.70	2.32	0.70	2.28	0.71	2.25	0.71	2.19	0.71

TC : Total capacity [kW]

PI : Power input [kW]

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