

Inverter Multi System R32

Outdoor Unit (2 Rooms)

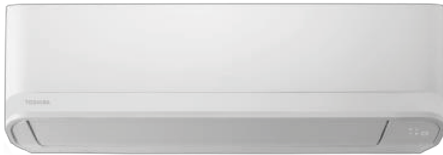
RAS-2M10U2AVG-E / TR

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1. Line up

RAS-2M10U2AVG-E / TR

Type	Appearance	Model name	Capacity rank
High wall DSK9		RAS-M10PKVPG-E/TR	10k
High wall Premium SHORAI		RAS-B10J2KVRG-E	10k
High wall SHORAI		RAS-M05PKVSG-E/TR	05k
		RAS-M07PKVSG-E/TR	07k
		RAS-B10PKVSG-E/TR	10k
High wall SEIYA		RAS-B05J2KVG-E/TR	05k
		RAS-B07J2KVG-E/TR	07k
		RAS-B10J2KVG-E/TR	10k
High wall MIRAI		RAS-B05BKVG-E/TR	05k
		RAS-B07BKVG-E/TR	07k
		RAS-B10BKVG-E/TR	10k
Ducted		RAS-M07U2DVG-E/TR	07k
		RAS-M10U2DVG-E/TR	10k
Compact 4-way Cassette		RAS-M10U2MUVG-E/TR	10k

Type	Appearance	Model name	Capacity rank
New Bi-Flow console		RAS-B10U2FVG-E1/TR	10k
Bi-Flow console		RAS-B10U2FVG-E/TR	10k

2. Specifications

2.1 Outdoor unit ; RAS-2M10U2AVG-E / TR

Unit model	Outdoor	RAS-	2M10U2AVG
	Connection indoor unit of this specification	RAS-	B10PKVSG (x2)
Cooling Capacity (*1)		(kW)	3.30
Cooling Capacity range		(kW)	1.25 to 3.90
Heating Capacity (*1)		(kW)	4.0
Heating Capacity range		(kW)	1.00 to 4.90
-7°C Max heating		(kW)	2.39
Power supply			1Ph,220-240V,50Hz
Electric characteristics	Total	Operation mode	Cooling
		Running current	(A) 3.93 / 3.75 / 3.57
		Power consumption	(W) 750
		Power factor	(%) 87
		Starting current	(A) 4.17
EER / COP			4.40 / 4.94
SEER / SCOP			6.73 / 4.60
Operating noise	Outdoor (Cooling/Heating)	Sound pressure level	(dBA) 45 / 46
		Sound power level	(dBA) 58 / 59
Outdoor unit	Dimension	Height	(mm) 630
		Width	(mm) 800
		Depth	(mm) 300
	Net weight	(kg)	42
	Compressor	Motor output	(W) 1715
		Type	Single rotary type with DC-inverter variable speed control
		Model	KSK89D53UFZ
	Fan motor output	(W)	43
	Air flow rate (Cooling/Heating)	(m³/h)	1863 / 1863
	Type		Flare connection
	Name of refrigerant		R32
	Weight of refrigerant	(kg)	0.85
Piping connection	Outdoor unit	A unit liquid side/gas side	Ø 6.35 / Ø 9.52
		B unit liquid side/gas side	Ø 6.35 / Ø 9.52
		C unit liquid side/gas side	-
	Maximum length (per unit)	(m)	10
	Maximum length (total)	(m)	20
	Maximum chargeless length	(m)	20
	Maximum height difference	(m)	8
Wiring connection	Power supply / interconnection		3 Wires : includes earth / 4 Wires : includes earth
Usable temperature range	Outdoor (Cooling/Heating)	(°C)	-10 to 46 °C / -20 to 24 °C
Accessory Outdoor unit	Installation manual		1

• 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.

• (*1) Rated conditions

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.

2.2 Combination

Cooling

Power supply voltage : 220V

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	05	-	-	5	1.50	-	-	1.50	350	1.87	85	-
					0.90	1.90		(1.10 - 1.80)	(250 - 420)	(1.42 - 2.17)	(80 - 88)	
	07	-	-	7	2.00	-	-	2.00	470	2.51	85	-
2 units					0.90	2.30		(1.20 - 2.50)	(260 - 590)	(1.48 - 3.05)	(80 - 88)	
	10	-	-	10	2.70	-	-	2.70	650	3.48	85	-
					0.90	2.70		(1.20 - 3.20)	(260 - 800)	(1.48 - 4.13)	(80 - 88)	
	05	05	-	10	1.50	1.50	-	3.00	850	4.44	87	5.40
								(1.25 - 3.50)	(250 - 910)	(1.34 - 4.60)	(85 - 90)	
	07	05	-	12	1.89	1.41	-	3.30	800	4.18	87	6.31
2 units								(1.25 - 3.60)	(250 - 910)	(1.34 - 4.60)	(85 - 90)	
	10	05	-	15	2.12	1.18	-	3.30	790	4.13	87	6.39
								(1.25 - 3.80)	(250 - 920)	(1.34 - 4.65)	(85 - 90)	
	07	07	-	14	1.65	1.65	-	3.30	780	4.08	87	6.47
								(1.25 - 3.70)	(250 - 920)	(1.34 - 4.65)	(85 - 90)	
	10	07	-	17	1.90	1.40	-	3.30	770	4.02	87	6.56
2 units								(1.25 - 3.80)	(250 - 930)	(1.34 - 4.70)	(85 - 90)	
	10	10	-	20	1.65	1.65	-	3.30	750	3.93	87	6.73
2 units								(1.25 - 3.90)	(250 - 930)	(1.33 - 4.70)	(85 - 90)	

Power supply voltage : 230V

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	05	-	-	5	1.50	-	-	1.50	350	1.79	85	-
					0.90	1.90		(1.10 - 1.80)	(250 - 420)	(1.36 - 2.08)	(80 - 88)	
	07	-	-	7	2.00	-	-	2.00	470	2.40	85	-
2 units					0.90	2.30		(1.20 - 2.50)	(260 - 590)	(1.41 - 2.92)	(80 - 88)	
	10	-	-	10	2.70	-	-	2.70	650	3.32	85	-
					0.90	2.70		(1.20 - 3.20)	(260 - 800)	(1.41 - 3.95)	(80 - 88)	
	05	05	-	10	1.50	1.50	-	3.00	850	4.25	87	5.40
								(1.25 - 3.50)	(250 - 910)	(1.28 - 4.40)	(85 - 90)	
	07	05	-	12	1.89	1.41	-	3.30	800	4.00	87	6.31
2 units								(1.25 - 3.60)	(250 - 910)	(1.28 - 4.40)	(85 - 90)	
	10	05	-	15	2.12	1.18	-	3.30	790	3.95	87	6.39
								(1.25 - 3.80)	(250 - 920)	(1.28 - 4.44)	(85 - 90)	
	07	07	-	14	1.65	1.65	-	3.30	780	3.90	87	6.47
								(1.25 - 3.70)	(250 - 920)	(1.28 - 4.44)	(85 - 90)	
	10	07	-	17	1.90	1.40	-	3.30	770	3.85	87	6.56
2 units								(1.25 - 3.80)	(250 - 930)	(1.28 - 4.49)	(85 - 90)	
	10	10	-	20	1.65	1.65	-	3.30	750	3.75	87	6.73
2 units								(1.25 - 3.90)	(250 - 930)	(1.28 - 4.50)	(85 - 90)	

Power supply voltage : 240V

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	05	-	-	5	1.50	-	-	1.50	350	1.72	85	-
					0.90	1.90		(1.10 - 1.80)	(250 - 420)	(1.30 - 1.99)	(80 - 88)	
	07	-	-	7	2.00	-	-	2.00	470	2.30	85	-
2 units					0.90	2.30		(1.20 - 2.50)	(260 - 590)	(1.35 - 2.79)	(80 - 88)	
	10	-	-	10	2.70	-	-	2.70	650	3.19	85	-
					0.90	2.70		(1.20 - 3.20)	(260 - 800)	(1.35 - 3.79)	(80 - 88)	
	05	05	-	10	1.50	1.50	-	3.00	850	4.07	87	5.40
								(1.25 - 3.50)	(250 - 910)	(1.23 - 4.21)	(85 - 90)	
	07	05	-	12	1.89	1.41	-	3.30	800	3.83	87	6.31
2 units								(1.25 - 3.60)	(250 - 910)	(1.23 - 4.21)	(85 - 90)	
	10	05	-	15	2.12	1.18	-	3.30	790	3.78	87	6.39
								(1.25 - 3.80)	(250 - 920)	(1.23 - 4.26)	(85 - 90)	
	07	07	-	14	1.65	1.65	-	3.30	780	3.74	87	6.47
								(1.25 - 3.70)	(250 - 920)	(1.23 - 4.26)	(85 - 90)	
	10	07	-	17	1.90	1.40	-	3.30	770	3.69	87	6.56
2 units								(1.25 - 3.80)	(250 - 930)	(1.23 - 4.31)	(85 - 90)	
	10	10	-	20	1.65	1.65	-	3.30	750	3.57	88	6.73
2 units								(1.25 - 3.90)	(250 - 930)	(1.23 - 4.30)	(85 - 90)	

• Specification values are those under the condition as follows ;

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

Piping length : 5 m per Indoor Unit.

Heating

Power supply voltage: 220V

Operating status	Indoor unit				Unit capacity (kW)			Total				
	A	B	C	ΣkBTU	A	B	C	Heating capacity (kW)	Power consumption (W)	Operating current (A)	Power factor (%)	Rated SCOP
1 unit	05	-	-	5	2.00	-	-	2.00 (0.90 - 2.50)	460 (210 - 580)	2.46 (1.19 - 3.00)	85 (80 - 88)	-
	07	-	-	7	2.70	-	-	2.70 (0.90 - 3.40)	630 (210 - 840)	3.37 (1.19 - 4.34)	85 (80 - 88)	-
	10	-	-	10	4.00	-	-	4.00 (0.90 - 4.80)	1080 (200 - 1370)	5.78 (1.14 - 7.08)	85 (80 - 88)	-
2 units	05	05	-	10	2.00	2.00	-	4.00 (1.00 - 4.40)	860 (200 - 1220)	4.44 (1.07 - 6.16)	88 (85 - 90)	4.33
	07	05	-	12	2.30	1.70	-	4.00 (1.00 - 4.50)	850 (200 - 1200)	4.39 (1.07 - 6.06)	88 (85 - 90)	4.38
	10	05	-	15	2.67	1.33	-	4.00 (1.00 - 4.70)	840 (200 - 1190)	4.34 (1.07 - 6.01)	88 (85 - 90)	4.44
	07	07	-	14	2.00	2.00	-	4.00 (1.00 - 4.60)	840 (200 - 1190)	4.34 (1.07 - 6.01)	88 (85 - 90)	4.44
	10	07	-	17	2.39	1.61	-	4.00 (1.00 - 4.80)	820 (200 - 1170)	4.24 (1.07 - 5.91)	88 (85 - 90)	4.54
	10	10	-	20	2.00	2.00	-	4.00 (1.00 - 4.90)	810 (200 - 1150)	4.17 (1.07 - 5.84)	88 (85 - 90)	4.60

Power supply voltage: 230V

Operating status	Indoor unit				Unit capacity (kW)			Total				
	A	B	C	ΣkBTU	A	B	C	Heating capacity (kW)	Power consumption (W)	Operating current (A)	Power factor (%)	Rated SCOP
1 unit	05	-	-	5	2.00	-	-	2.00 (0.90 - 2.50)	460 (210 - 580)	2.35 (1.14 - 2.87)	85 (80 - 88)	-
	07	-	-	7	2.70	-	-	2.70 (0.90 - 3.40)	630 (210 - 840)	3.22 (1.14 - 4.15)	85 (80 - 88)	-
	10	-	-	10	4.00	-	-	4.00 (0.90 - 4.80)	1080 (200 - 1370)	5.52 (1.09 - 6.77)	85 (80 - 88)	-
2 units	05	05	-	10	2.00	2.00	-	4.00 (1.00 - 4.40)	860 (200 - 1220)	4.27 (1.02 - 5.89)	88 (85 - 90)	4.33
	07	05	-	12	2.30	1.70	-	4.00 (1.00 - 4.50)	850 (200 - 1200)	4.22 (1.02 - 5.80)	88 (85 - 90)	4.38
	10	05	-	15	2.67	1.33	-	4.00 (1.00 - 4.70)	840 (200 - 1190)	4.17 (1.02 - 5.75)	88 (85 - 90)	4.44
	07	07	-	14	2.00	2.00	-	4.00 (1.00 - 4.60)	840 (200 - 1190)	4.17 (1.02 - 5.75)	88 (85 - 90)	4.44
	10	07	-	17	2.39	1.61	-	4.00 (1.00 - 4.80)	820 (200 - 1170)	4.07 (1.02 - 5.65)	88 (85 - 90)	4.54
	10	10	-	20	2.00	2.00	-	4.00 (1.00 - 4.90)	810 (200 - 1150)	4.02 (1.02 - 5.58)	88 (85 - 90)	4.60

Power supply voltage: 240V

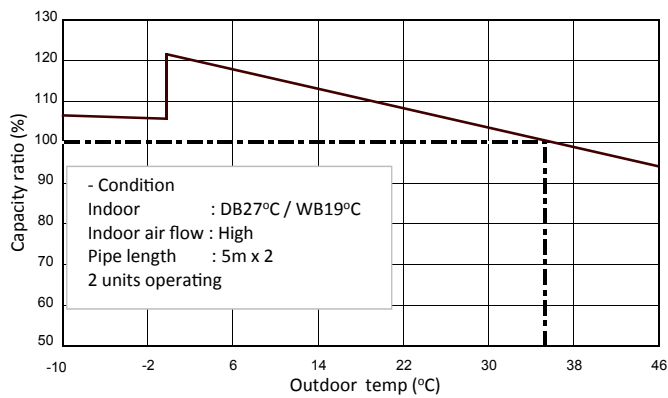
Operating status	Indoor unit				Unit capacity (kW)			Total				
	A	B	C	ΣkBTU	A	B	C	Heating capacity (kW)	Power consumption (W)	Operating current (A)	Power factor (%)	Rated SCOP
1 unit	05	-	-	5	2.00	-	-	2.00 (0.90 - 2.50)	460 (210 - 580)	2.25 (1.09 - 2.75)	85 (80 - 88)	-
	07	-	-	7	2.70	-	-	2.70 (0.90 - 3.40)	630 (210 - 840)	3.09 (1.09 - 3.98)	85 (80 - 88)	-
	10	-	-	10	4.00	-	-	4.00 (0.90 - 4.80)	1080 (200 - 1370)	5.29 (1.04 - 6.49)	85 (80 - 88)	-
2 units	05	05	-	10	2.00	2.00	-	4.00 (1.00 - 4.40)	860 (200 - 1220)	4.07 (0.98 - 5.65)	88 (85 - 90)	4.33
	07	05	-	12	2.30	1.70	-	4.00 (1.00 - 4.50)	850 (200 - 1200)	4.02 (0.98 - 5.56)	88 (85 - 90)	4.38
	10	05	-	15	2.67	1.33	-	4.00 (1.00 - 4.70)	840 (200 - 1190)	3.98 (0.98 - 5.51)	88 (85 - 90)	4.44
	07	07	-	14	2.00	2.00	-	4.00 (1.00 - 4.60)	840 (200 - 1190)	3.98 (0.98 - 5.51)	88 (85 - 90)	4.44
	10	07	-	17	2.39	1.61	-	4.00 (1.00 - 4.80)	820 (200 - 1170)	3.88 (0.98 - 5.42)	88 (85 - 90)	4.54
	10	10	-	20	2.00	2.00	-	4.00 (1.00 - 4.90)	810 (200 - 1150)	3.85 (0.98 - 5.35)	88 (85 - 90)	4.60

• Specification values are those under the condition as follows ;
 Heating : Capacity test condition, inside : 20 °C (Db), outside : 7 °C (Db) / 6 °C (Wb)
 Piping length : 5 m per Indoor Unit.

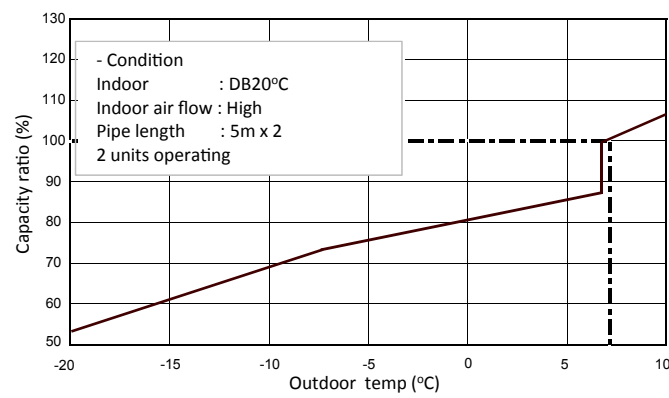
3. Cooling / Heating Capacity Characteristic

Capacity variation ratio according to outdoor temperature

<Cooling>

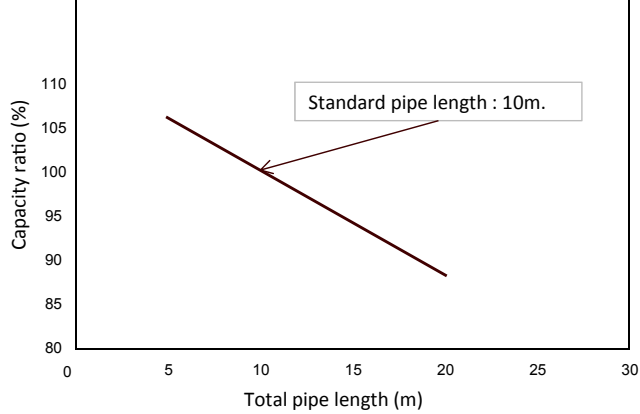


<Heating>

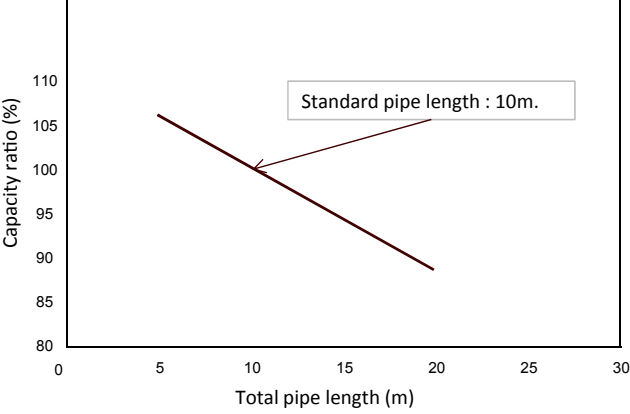


Capacity variation ratio according to pipe length

<Cooling>



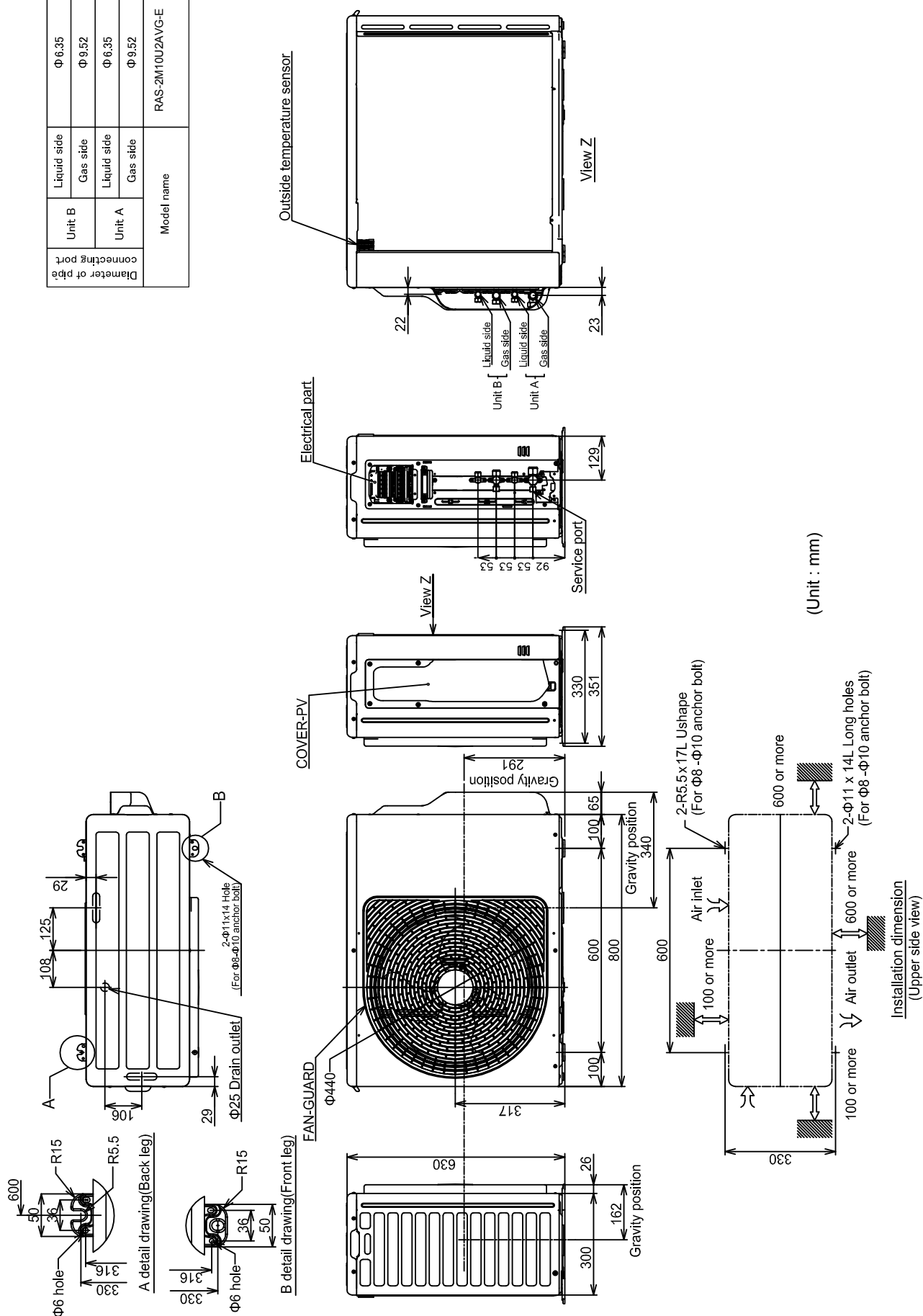
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4. Dimension

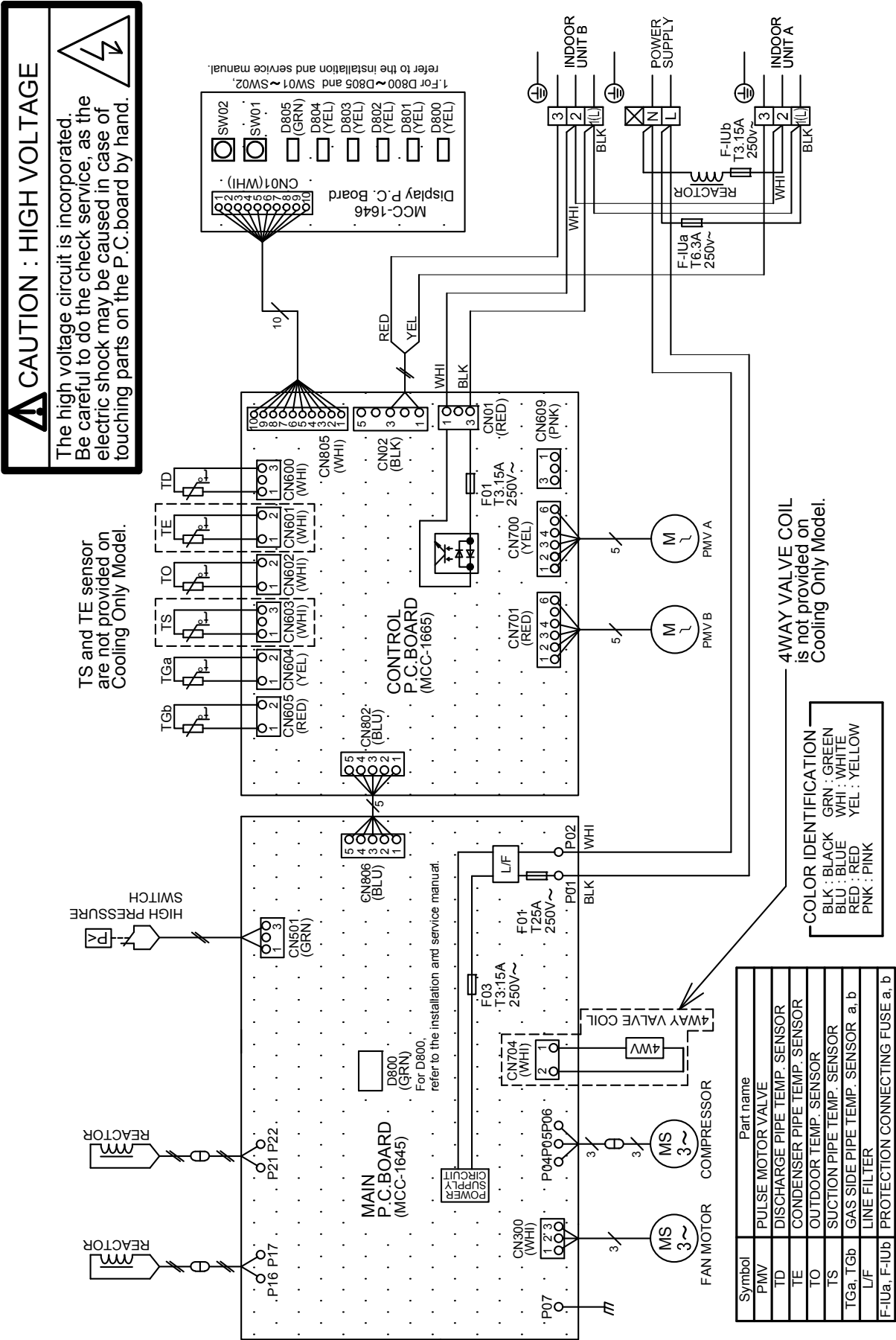
RAS-2M10U2AVG-E / TR

Diameter of pipe connecting port	Unit B	Liquid side	Φ 6.35
		Gas side	Φ 9.52
	Unit A	Liquid side	Φ 6.35
		Gas side	Φ 9.52
Model name		RAS-2M10U2AVG-E	



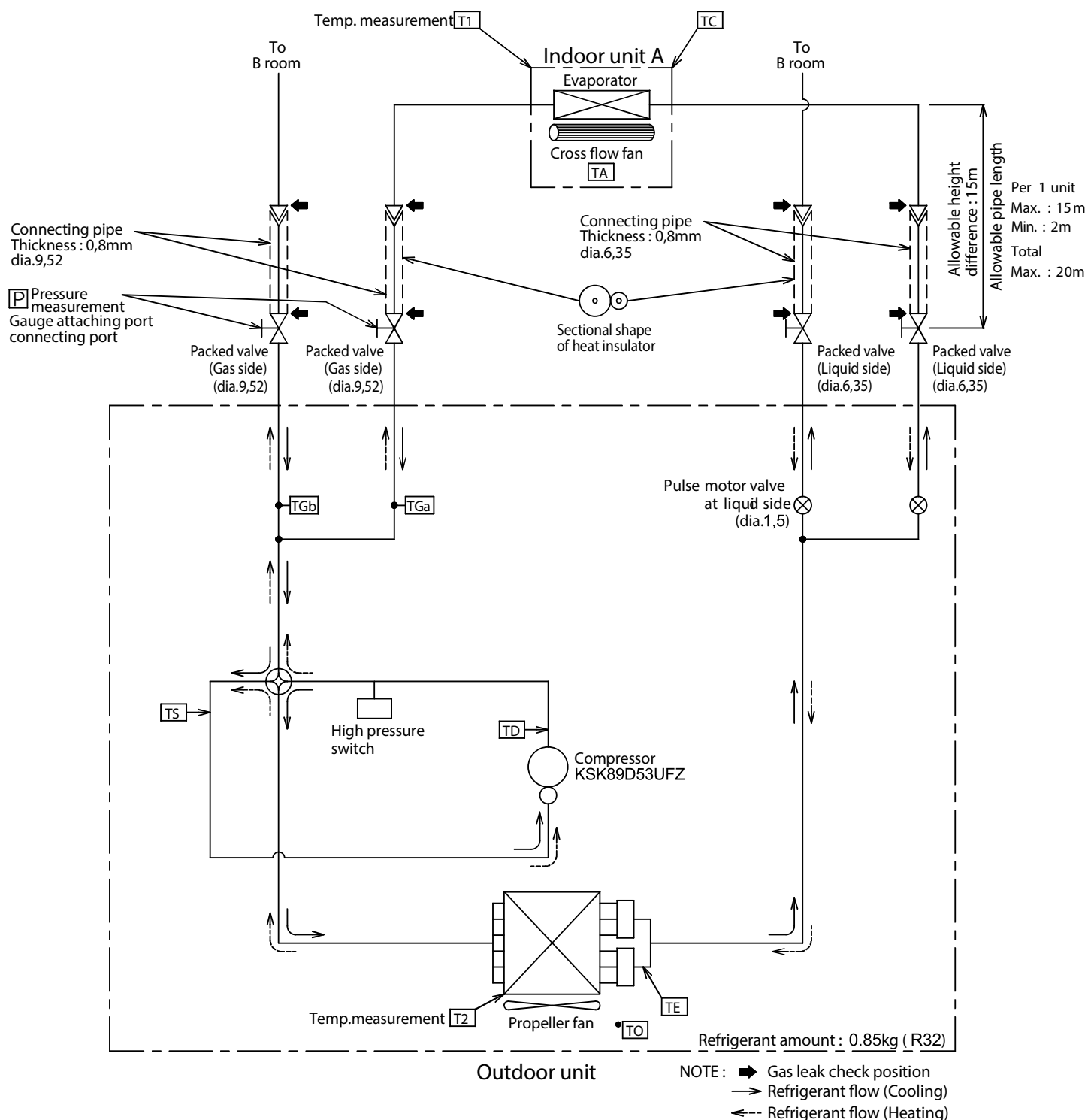
5. Wiring diagrams

RAS-2M10U2AVG-E / TR



6. Refrigerant Cycle Diagram

RAS-2M10U2AVG-E / TR



NOTE :

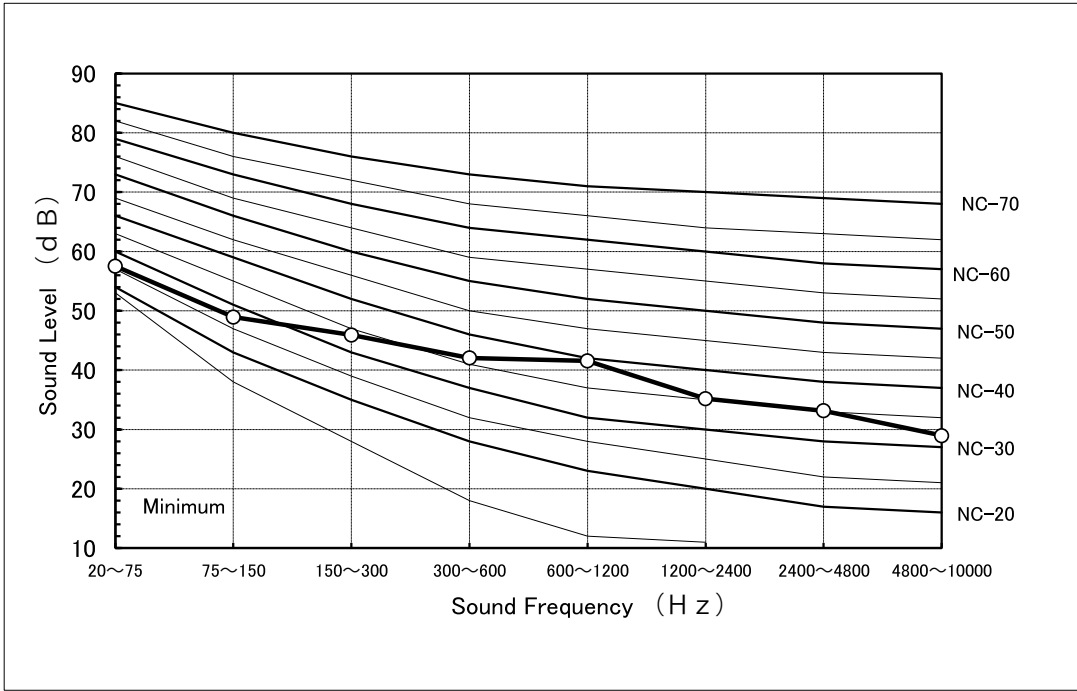
- You need not add refrigerant if the piping length is 20 m or less.
- Connection of only one indoor unit is unavailable. Two indoor units should be connected.

7. Sound Characteristics (NC Curve)

RAS-2M10U2AVG-E / TR

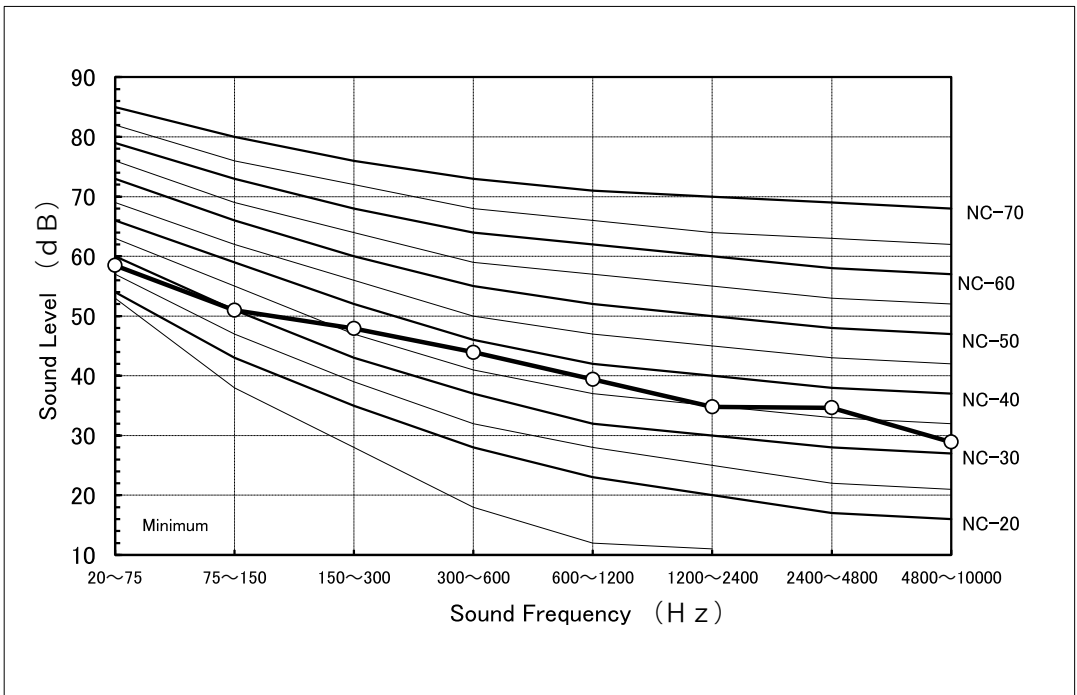
Cooling

Specification (d B)	
Fan tap	Cooling
Sound Pressure level (dB)	45



Heating

Specification (d B)	
Fan tap	Heating
Sound Pressure level (dB)	46



8. Capacity table

Cooling

2 - rooms multisplit : 1 - unit operation

Indoor units : 05 type

07 type

10 type

Outdoor unit : RAS-2M10U2AVG-E / TR

Combination (Capacity)	Outdoor air temp. [°C DB]	Indoor air temp. [°C WB]											
		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]
05	46	1.17	0.38	1.24	0.39	1.31	0.39	1.35	0.40	1.45	0.41	1.52	0.41
	43	1.22	0.37	1.28	0.38	1.35	0.38	1.39	0.39	1.49	0.39	1.56	0.40
	40	1.26	0.36	1.33	0.36	1.40	0.37	1.43	0.37	1.53	0.38	1.60	0.39
	35	1.33	0.34	1.40	0.34	1.47	0.35	1.50	0.35	1.60	0.36	1.67	0.36
	32	1.37	0.33	1.44	0.33	1.51	0.34	1.54	0.34	1.65	0.35	1.72	0.35
	25	1.47	0.30	1.54	0.30	1.61	0.31	1.64	0.31	1.74	0.32	1.81	0.32
	22	1.51	0.29	1.58	0.29	1.65	0.30	1.68	0.30	1.78	0.31	1.86	0.31
07	46	1.56	0.51	1.66	0.52	1.75	0.53	1.80	0.53	1.93	0.54	2.03	0.55
	43	1.62	0.50	1.71	0.51	1.81	0.51	1.85	0.52	1.99	0.53	2.08	0.54
	40	1.68	0.48	1.77	0.49	1.86	0.50	1.91	0.50	2.05	0.51	2.14	0.52
	35	1.77	0.45	1.86	0.46	1.95	0.47	2.00	0.47	2.14	0.48	2.23	0.49
	32	1.83	0.44	1.92	0.44	2.01	0.45	2.06	0.46	2.19	0.47	2.29	0.47
	25	1.96	0.40	2.05	0.41	2.14	0.42	2.19	0.42	2.32	0.43	2.42	0.44
	22	2.01	0.38	2.10	0.39	2.20	0.40	2.24	0.40	2.38	0.42	2.47	0.42
10	46	2.11	0.71	2.24	0.72	2.36	0.73	2.42	0.74	2.61	0.75	2.74	0.76
	43	2.19	0.69	2.31	0.70	2.44	0.71	2.50	0.72	2.69	0.73	2.81	0.74
	40	2.26	0.67	2.39	0.68	2.51	0.69	2.58	0.69	2.76	0.71	2.89	0.72
	35	2.39	0.62	2.51	0.63	2.64	0.64	2.70	0.65	2.89	0.67	3.01	0.68
	32	2.46	0.61	2.59	0.61	2.71	0.63	2.78	0.63	2.96	0.65	3.09	0.66
	25	2.64	0.55	2.77	0.56	2.89	0.58	2.95	0.58	3.14	0.60	3.26	0.60
	22	2.72	0.53	2.84	0.54	2.97	0.55	3.03	0.55	3.21	0.57	3.34	0.58

TC : Total capacity [kW]

PI : Power input [kW]

Cooling

2 - rooms multisplit : 2 - units operation

Indoor units : 05 type + 05 type 07 type + 07 type
 07 type + 05 type 10 type + 07 type
 10 type + 05 type 10 type + 10 type

Outdoor unit : RAS-2M10U2AVG-E / TR

Combination (Capacity)	Outdoor air temp. [°C DB]	Indoor air temp. [°C WB]											
		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]
05+05	46	2.35	0.93	2.49	0.94	2.62	0.96	2.69	0.97	2.90	0.98	3.04	1.00
	43	2.43	0.90	2.57	0.91	2.71	0.93	2.78	0.94	2.98	0.95	3.12	0.97
	40	2.51	0.87	2.65	0.88	2.79	0.90	2.86	0.91	3.07	0.93	3.21	0.94
	35	2.65	0.82	2.79	0.83	2.93	0.84	3.00	0.85	3.21	0.87	3.35	0.88
	32	2.74	0.79	2.88	0.80	3.02	0.82	3.09	0.83	3.29	0.85	3.43	0.86
	25	2.93	0.72	3.07	0.73	3.21	0.75	3.28	0.75	3.49	0.78	3.63	0.79
	22	3.02	0.69	3.16	0.70	3.30	0.72	3.36	0.72	3.57	0.75	3.71	0.76
07+05	46	2.58	0.88	2.73	0.89	2.89	0.90	2.96	0.91	3.19	0.93	3.34	0.94
	43	2.67	0.85	2.83	0.86	2.98	0.87	3.06	0.88	3.28	0.90	3.44	0.91
	40	2.77	0.82	2.92	0.83	3.07	0.85	3.15	0.85	3.37	0.87	3.53	0.88
	35	2.92	0.77	3.07	0.78	3.22	0.79	3.30	0.80	3.53	0.82	3.68	0.83
	32	3.01	0.75	3.16	0.76	3.32	0.77	3.39	0.78	3.62	0.80	3.77	0.81
	25	3.23	0.68	3.38	0.69	3.53	0.71	3.61	0.71	3.83	0.73	3.99	0.74
	22	3.32	0.65	3.47	0.66	3.62	0.68	3.70	0.68	3.93	0.71	4.08	0.71
10+05	46	2.58	0.87	2.73	0.88	2.89	0.89	2.96	0.90	3.19	0.91	3.34	0.93
	43	2.67	0.84	2.83	0.85	2.98	0.86	3.06	0.87	3.28	0.89	3.44	0.90
	40	2.77	0.81	2.92	0.82	3.07	0.84	3.15	0.84	3.37	0.86	3.53	0.87
	35	2.92	0.76	3.07	0.77	3.22	0.78	3.30	0.79	3.53	0.81	3.68	0.82
	32	3.01	0.74	3.16	0.75	3.32	0.76	3.39	0.77	3.62	0.79	3.77	0.80
	25	3.23	0.67	3.38	0.68	3.53	0.70	3.61	0.70	3.83	0.73	3.99	0.73
	22	3.32	0.65	3.47	0.65	3.62	0.67	3.70	0.67	3.93	0.70	4.08	0.70
07+07	46	2.58	0.85	2.73	0.87	2.89	0.88	2.96	0.89	3.19	0.90	3.34	0.92
	43	2.67	0.83	2.83	0.84	2.98	0.85	3.06	0.86	3.28	0.88	3.44	0.89
	40	2.77	0.80	2.92	0.81	3.07	0.83	3.15	0.83	3.37	0.85	3.53	0.86
	35	2.92	0.75	3.07	0.76	3.22	0.77	3.30	0.78	3.53	0.80	3.68	0.81
	32	3.01	0.73	3.16	0.74	3.32	0.75	3.39	0.76	3.62	0.78	3.77	0.79
	25	3.23	0.66	3.38	0.67	3.53	0.69	3.61	0.69	3.83	0.72	3.99	0.72
	22	3.32	0.64	3.47	0.64	3.62	0.67	3.70	0.66	3.93	0.69	4.08	0.70
10+07	46	2.58	0.84	2.73	0.86	2.89	0.87	2.96	0.88	3.19	0.89	3.34	0.90
	43	2.67	0.82	2.83	0.83	2.98	0.84	3.06	0.85	3.28	0.87	3.44	0.88
	40	2.77	0.79	2.92	0.80	3.07	0.81	3.15	0.82	3.37	0.84	3.53	0.85
	35	2.92	0.74	3.07	0.75	3.22	0.76	3.30	0.77	3.53	0.79	3.68	0.80
	32	3.01	0.72	3.16	0.73	3.32	0.74	3.39	0.75	3.62	0.77	3.77	0.78
	25	3.23	0.66	3.38	0.66	3.53	0.68	3.61	0.68	3.83	0.71	3.99	0.71
	22	3.32	0.63	3.47	0.64	3.62	0.66	3.70	0.66	3.93	0.68	4.08	0.69
10+10	46	2.58	0.82	2.73	0.83	2.89	0.84	2.96	0.85	3.19	0.87	3.34	0.88
	43	2.67	0.80	2.83	0.81	2.98	0.82	3.06	0.83	3.28	0.84	3.44	0.85
	40	2.77	0.77	2.92	0.78	3.07	0.79	3.15	0.80	3.37	0.82	3.53	0.83
	35	2.92	0.72	3.07	0.73	3.22	0.74	3.30	0.75	3.53	0.77	3.68	0.78
	32	3.01	0.70	3.16	0.71	3.32	0.73	3.39	0.73	3.62	0.75	3.77	0.76
	25	3.23	0.64	3.38	0.65	3.53	0.67	3.61	0.67	3.83	0.69	3.99	0.70
	22	3.32	0.61	3.47	0.62	3.62	0.64	3.70	0.64	3.93	0.66	4.08	0.67

TC : Total capacity [kW]

PI : Power input [kW]

Heating

2 - room multisplit : 1 - unit operation

Indoor units : 05 type

07 type

10 type

Outdoor unit : RAS-2M10U2AVG-E / TR

Combination (Capacity)	Outdoor air temp. [°C WB]	Indoor air temp. [°C DB]											
		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]
05	15	2.46	0.49	2.43	0.49	2.41	0.49	2.39	0.50	2.38	0.50	2.35	0.50
	10	2.24	0.47	2.21	0.47	2.18	0.48	2.17	0.48	2.15	0.48	2.12	0.48
	6	2.06	0.45	2.03	0.46	2.00	0.46	1.99	0.46	1.97	0.46	1.94	0.46
	0	1.78	0.43	1.76	0.43	1.73	0.44	1.72	0.44	1.70	0.44	1.67	0.44
	-5	1.56	0.41	1.53	0.41	1.50	0.42	1.49	0.42	1.48	0.42	1.45	0.42
	-10	1.33	0.39	1.31	0.40	1.28	0.40	1.26	0.40	1.25	0.40	1.22	0.40
	-15	1.11	0.37	1.08	0.38	1.05	0.38	1.04	0.38	1.02	0.38	1.00	0.38
07	15	3.32	0.67	3.29	0.67	3.25	0.68	3.23	0.68	3.21	0.68	3.17	0.68
	10	3.02	0.64	2.98	0.64	2.94	0.65	2.92	0.65	2.91	0.65	2.87	0.66
	6	2.77	0.62	2.74	0.62	2.70	0.63	2.68	0.63	2.66	0.63	2.62	0.64
	0	2.41	0.59	2.37	0.59	2.33	0.60	2.32	0.60	2.30	0.60	2.26	0.60
	-5	2.10	0.56	2.07	0.57	2.03	0.57	2.01	0.57	1.99	0.57	1.96	0.58
	-10	1.80	0.54	1.76	0.54	1.73	0.55	1.71	0.55	1.69	0.55	1.65	0.55
	-15	1.49	0.51	1.46	0.52	1.42	0.52	1.40	0.52	1.38	0.52	1.35	0.53
10	15	4.92	1.14	4.87	1.15	4.81	1.16	4.79	1.16	4.76	1.16	4.70	1.17
	10	4.47	1.10	4.42	1.11	4.36	1.12	4.33	1.12	4.31	1.12	4.25	1.13
	6	4.11	1.06	4.05	1.07	4.00	1.08	3.97	1.08	3.94	1.08	3.89	1.09
	0	3.57	1.01	3.51	1.02	3.46	1.03	3.43	1.03	3.40	1.03	3.35	1.04
	-5	3.12	0.97	3.06	0.97	3.01	0.98	2.98	0.99	2.95	0.99	2.90	0.99
	-10	2.67	0.92	2.61	0.93	2.56	0.94	2.53	0.94	2.50	0.94	2.44	0.95
	-15	2.21	0.88	2.16	0.88	2.10	0.89	2.08	0.90	2.05	0.90	1.99	0.90

TC : Total capacity [kW]

PI : Power input [kW]

Heating**2 - rooms multisplit : 2 - units operation**

Indoor units : 05 type + 05 type 07 type + 07 type
 07 type + 05 type 10 type + 07 type
 10 type + 05 type 10 type + 10 type

Outdoor unit : RAS-2M10U2AVG-E / TR

Combination (Capacity)	Outdoor air temp. [°C WB]	Indoor air temp. [°C DB]											
		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]
05+05	15	4.92	0.91	4.87	0.92	4.81	0.92	4.79	0.93	4.76	0.93	4.70	0.93
	10	4.47	0.87	4.42	0.88	4.36	0.89	4.33	0.89	4.31	0.89	4.25	0.90
	6	4.11	0.85	4.05	0.85	4.00	0.86	3.97	0.86	3.94	0.86	3.89	0.87
	0	3.57	0.80	3.51	0.81	3.46	0.82	3.43	0.82	3.40	0.82	3.35	0.83
	-5	3.12	0.77	3.06	0.77	3.01	0.78	2.98	0.78	2.95	0.78	2.90	0.79
	-10	2.67	0.73	2.61	0.74	2.56	0.75	2.53	0.75	2.50	0.75	2.44	0.75
	-15	2.21	0.70	2.16	0.70	2.10	0.71	2.08	0.71	2.05	0.71	1.99	0.72
07+05	15	4.92	0.90	4.87	0.90	4.81	0.91	4.79	0.92	4.76	0.92	4.70	0.92
	10	4.47	0.86	4.42	0.87	4.36	0.88	4.33	0.88	4.31	0.88	4.25	0.89
	6	4.11	0.84	4.05	0.84	4.00	0.85	3.97	0.85	3.94	0.85	3.89	0.86
	0	3.57	0.80	3.51	0.80	3.46	0.81	3.43	0.81	3.40	0.81	3.35	0.82
	-5	3.12	0.76	3.06	0.77	3.01	0.77	2.98	0.78	2.95	0.78	2.90	0.78
	-10	2.67	0.73	2.61	0.73	2.56	0.74	2.53	0.74	2.50	0.74	2.44	0.74
	-15	2.21	0.69	2.16	0.70	2.10	0.70	2.08	0.71	2.05	0.71	1.99	0.71
10+05	15	4.92	0.89	4.87	0.89	4.81	0.90	4.79	0.91	4.76	0.91	4.70	0.91
	10	4.47	0.85	4.42	0.86	4.36	0.87	4.33	0.87	4.31	0.87	4.25	0.88
	6	4.11	0.83	4.05	0.83	4.00	0.84	3.97	0.84	3.94	0.84	3.89	0.85
	0	3.57	0.79	3.51	0.79	3.46	0.80	3.43	0.80	3.40	0.80	3.35	0.81
	-5	3.12	0.75	3.06	0.76	3.01	0.76	2.98	0.77	2.95	0.77	2.90	0.77
	-10	2.67	0.72	2.61	0.72	2.56	0.73	2.53	0.73	2.50	0.73	2.44	0.74
	-15	2.21	0.68	2.16	0.69	2.10	0.69	2.08	0.70	2.05	0.70	1.99	0.70
07+07	15	4.92	0.89	4.87	0.89	4.81	0.90	4.79	0.91	4.76	0.91	4.70	0.91
	10	4.47	0.85	4.42	0.86	4.36	0.87	4.33	0.87	4.31	0.87	4.25	0.88
	6	4.11	0.83	4.05	0.83	4.00	0.84	3.97	0.84	3.94	0.84	3.89	0.85
	0	3.57	0.79	3.51	0.79	3.46	0.80	3.43	0.80	3.40	0.80	3.35	0.81
	-5	3.12	0.75	3.06	0.76	3.01	0.76	2.98	0.77	2.95	0.77	2.90	0.77
	-10	2.67	0.72	2.61	0.72	2.56	0.73	2.53	0.73	2.50	0.73	2.44	0.74
	-15	2.21	0.68	2.16	0.69	2.10	0.69	2.08	0.70	2.05	0.70	1.99	0.70
10+07	15	4.92	0.87	4.87	0.87	4.81	0.88	4.79	0.88	4.76	0.88	4.70	0.89
	10	4.47	0.83	4.42	0.84	4.36	0.85	4.33	0.85	4.31	0.85	4.25	0.86
	6	4.11	0.81	4.05	0.81	4.00	0.82	3.97	0.82	3.94	0.82	3.89	0.83
	0	3.57	0.77	3.51	0.77	3.46	0.78	3.43	0.78	3.40	0.78	3.35	0.79
	-5	3.12	0.73	3.06	0.74	3.01	0.75	2.98	0.75	2.95	0.75	2.90	0.75
	-10	2.67	0.70	2.61	0.71	2.56	0.71	2.53	0.71	2.50	0.71	2.44	0.72
	-15	2.21	0.67	2.16	0.67	2.10	0.68	2.08	0.68	2.05	0.68	1.99	0.68
10+10	15	4.92	0.86	4.87	0.86	4.81	0.87	4.79	0.87	4.76	0.87	4.70	0.88
	10	4.47	0.82	4.42	0.83	4.36	0.84	4.33	0.84	4.31	0.84	4.25	0.85
	6	4.11	0.80	4.05	0.80	4.00	0.81	3.97	0.81	3.94	0.81	3.89	0.82
	0	3.57	0.76	3.51	0.76	3.46	0.77	3.43	0.77	3.40	0.77	3.35	0.78
	-5	3.12	0.72	3.06	0.73	3.01	0.74	2.98	0.74	2.95	0.74	2.90	0.74
	-10	2.67	0.69	2.61	0.70	2.56	0.70	2.53	0.71	2.50	0.71	2.44	0.71
	-15	2.21	0.66	2.16	0.66	2.10	0.67	2.08	0.67	2.05	0.67	1.99	0.68

TC : Total capacity [kW]

PI : Power input [kW]

9. Part Load Performance

Outdoor unit : RAS-2M10U2AVG-E, RAS-2M10U2AVG-TR

1-Indoor unit connection (Type : 05)

Compressor Speed	Cooling		Heating	
	Capacity Q(W)	Power consumption W(W)	Capacity Q(W)	Power consumption W(W)
MINIMUM	1100	250	900	210
RATING	1500	350	2000	460
MAXIMUM	1800	420	2500	580

Cooling Rating

Outdoor temperature(°C)	-	Load(%)									
		100	90	80	70	60	50	40	30	20	10
46	Q	1250	1120	1000	910	910	910	910	910	910	910
	W	430	380	340	310	310	310	310	310	310	310
43	Q	1320	1180	1050	960	960	960	960	960	960	960
	W	410	360	330	290	290	290	290	290	290	290
40	Q	1380	1250	1110	1020	1020	1020	1020	1020	1020	1020
	W	390	340	310	280	280	280	280	280	280	280
35	Q	1500	1350	1200	1100	1100	1100	1100	1100	1100	1100
	W	350	310	280	250	250	250	250	250	250	250
30	Q	1540	1390	1230	1130	1130	1130	1130	1130	1130	1130
	W	310	280	250	220	220	220	220	220	220	220
25	Q	1580	1430	1260	1160	1160	1160	1160	1160	1160	1160
	W	280	250	220	200	200	200	200	200	200	200
20	Q	1630	1470	1300	1190	1190	1190	1190	1190	1190	1190
	W	240	220	200	170	170	170	170	170	170	170
15	Q	1670	1510	1330	1230	1230	1230	1230	1230	1230	1230
	W	210	190	170	150	150	150	150	150	150	150
10	Q	1720	1550	1370	1270	1270	1270	1270	1270	1270	1270
	W	200	180	160	140	140	140	140	140	140	140
5	Q	1770	1600	1410	1300	1300	1300	1300	1300	1300	1300
	W	190	170	160	140	140	140	140	140	140	140
0	Q	1810	1640	1450	1340	1340	1340	1340	1340	1340	1340
	W	180	170	150	130	130	130	130	130	130	130
-5	Q	1590	1450	1270	1170	1170	1170	1170	1170	1170	1170
	W	270	260	220	190	190	190	190	190	190	190
-10	Q	1590	1450	1280	1180	1180	1180	1180	1180	1180	1180
	W	260	260	220	190	190	190	190	190	190	190

Heating Rating

Outdoor temperature(°C)	-	Load(%)									
		100	90	80	70	60	50	40	30	20	10
20	Q	2510	2260	2010	1760	1510	1260	1130	1130	1130	1130
	W	510	450	410	350	310	250	230	230	230	230
15	Q	2320	2080	1850	1620	1390	1160	1040	1040	1040	1040
	W	490	440	390	340	300	240	220	220	220	220
10	Q	2120	1910	1690	1480	1270	1060	950	950	950	950
	W	470	420	380	330	290	240	210	210	210	210
7	Q	2000	1800	1600	1400	1200	1000	900	900	900	900
	W	460	410	370	320	280	230	210	210	210	210
5.5	Q	1710	1540	1370	1190	1020	850	770	770	770	770
	W	430	380	340	300	260	210	200	200	200	200
5	Q	1700	1530	1360	1180	1010	840	770	770	770	770
	W	430	380	340	300	260	210	200	200	200	200
2	Q	1640	1470	1310	1140	980	810	740	740	740	740
	W	440	390	350	300	270	220	200	200	200	200
0	Q	1600	1430	1280	1110	950	790	720	720	720	720
	W	440	390	350	300	270	220	200	200	200	200
-5	Q	1490	1340	1190	1040	890	740	670	670	670	670
	W	450	400	360	310	280	230	210	210	210	210
-7	Q	1450	1300	1160	1010	870	720	650	650	650	650
	W	450	400	360	310	280	230	210	210	210	210
-10	Q	1360	1220	1090	950	820	680	610	610	610	610
	W	440	390	350	300	270	220	210	210	210	210
-15	Q	1220	1090	980	850	730	610	550	550	550	550
	W	420	370	340	290	260	220	200	200	200	200
-20	Q	1080	970	860	750	650	530	480	480	480	480
	W	400	360	320	280	250	210	190	190	190	190

Outdoor unit : RAS-2M10U2AVG-E, RAS-2M10U2AVG-TR

1-Indoor unit connection (Type : 07)

Compressor Speed	Cooling		Heating	
	Capacity Q(W)	Power consumption W(W)	Capacity Q(W)	Power consumption W(W)
MINIMUM	1200	260	900	210
RATING	2000	470	2700	630
MAXIMUM	2500	590	3400	840

Cooling Rating

Outdoor temperature(°C)	-	Load(%)									
		100	90	80	70	60	50	40	30	20	10
46	Q	1660	1500	1330	1160	1000	1000	1000	1000	1000	1000
	W	580	520	460	380	320	320	320	320	320	320
43	Q	1750	1580	1400	1230	1050	1050	1050	1050	1050	1050
	W	550	490	430	360	300	300	300	300	300	300
40	Q	1850	1660	1480	1290	1110	1110	1110	1110	1110	1110
	W	520	460	410	340	290	290	290	290	290	290
35	Q	2000	1800	1600	1400	1200	1200	1200	1200	1200	1200
	W	470	420	370	310	260	260	260	260	260	260
30	Q	2060	1850	1640	1440	1230	1230	1230	1230	1230	1230
	W	420	380	330	280	230	230	230	230	230	230
25	Q	2120	1900	1690	1480	1260	1260	1260	1260	1260	1260
	W	370	340	290	250	200	200	200	200	200	200
20	Q	2180	1950	1730	1520	1300	1300	1300	1300	1300	1300
	W	330	300	260	220	180	180	180	180	180	180
15	Q	2230	2010	1780	1560	1330	1330	1330	1330	1330	1330
	W	280	260	220	190	150	150	150	150	150	150
10	Q	2290	2070	1830	1610	1370	1370	1370	1370	1370	1370
	W	270	250	210	180	140	140	140	140	140	140
5	Q	2360	2130	1880	1650	1410	1410	1410	1410	1410	1410
	W	260	240	200	170	140	140	140	140	140	140
0	Q	2420	2180	1930	1700	1450	1450	1450	1450	1450	1450
	W	240	230	190	170	130	130	130	130	130	130
-5	Q	2130	1920	1700	1500	1270	1270	1270	1270	1270	1270
	W	360	350	290	260	190	190	190	190	190	190
-10	Q	2140	1920	1700	1500	1280	1280	1280	1280	1280	1280
	W	350	340	280	260	190	190	190	190	190	190

Heating Rating

Outdoor temperature(°C)	-	Load(%)									
		100	90	80	70	60	50	40	30	20	10
20	Q	3390	3050	2720	2380	2040	1700	1360	1130	1130	1130
	W	690	630	550	480	420	350	280	230	230	230
15	Q	3130	2810	2500	2190	1880	1560	1250	1040	1040	1040
	W	670	610	530	470	400	340	270	220	220	220
10	Q	2860	2570	2290	2000	1720	1430	1140	950	950	950
	W	640	580	510	450	390	330	260	210	210	210
7	Q	2700	2430	2160	1890	1620	1350	1080	900	900	900
	W	630	570	500	440	380	320	250	210	210	210
5.5	Q	2300	2070	1840	1610	1380	1150	920	770	770	770
	W	590	530	470	410	350	300	230	200	200	200
5	Q	2290	2060	1830	1600	1370	1140	910	770	770	770
	W	590	530	470	410	350	300	230	200	200	200
2	Q	2200	1980	1760	1540	1320	1100	880	740	740	740
	W	600	540	480	420	360	300	240	200	200	200
0	Q	2150	1930	1720	1500	1290	1080	860	720	720	720
	W	600	540	480	420	360	300	240	200	200	200
-5	Q	2010	1810	1600	1410	1200	1010	800	670	670	670
	W	620	560	490	430	370	310	250	210	210	210
-7	Q	1950	1760	1560	1370	1170	980	780	650	650	650
	W	620	560	490	430	370	310	250	210	210	210
-10	Q	1830	1660	1470	1290	1100	920	730	610	610	610
	W	610	550	480	420	360	300	240	210	210	210
-15	Q	1640	1480	1310	1150	980	830	660	550	550	550
	W	580	520	460	400	350	290	230	200	200	200
-20	Q	1450	1310	1160	1020	870	730	580	480	480	480
	W	560	500	440	390	330	280	220	190	190	190

Outdoor unit : RAS-2M10U2AVG-E, RAS-2M10U2AVG-TR

1-Indoor unit connection (Type : 10)

Compressor Speed	Cooling		Heating	
	Capacity Q(W)	Power consumption W(W)	Capacity Q(W)	Power consumption W(W)
MINIMUM	1200	260	900	200
RATING	2700	650	4000	1080
MAXIMUM	3200	800	4800	1370

Cooling Rating

Outdoor temperature(°C)	-	Load(%)									
		100	90	80	70	60	50	40	30	20	10
46	Q	2240	2020	1790	1570	1350	1120	1000	1000	1000	1000
	W	800	710	630	540	460	370	320	320	320	320
43	Q	2370	2130	1890	1660	1420	1180	1050	1050	1050	1050
	W	760	680	600	510	430	350	300	300	300	300
40	Q	2490	2240	1990	1740	1500	1250	1110	1110	1110	1110
	W	720	640	560	490	410	330	290	290	290	290
35	Q	2700	2430	2160	1890	1620	1350	1200	1200	1200	1200
	W	650	580	510	440	370	300	260	260	260	260
30	Q	2780	2500	2220	1940	1670	1390	1230	1230	1230	1230
	W	580	520	460	390	330	270	230	230	230	230
25	Q	2860	2570	2280	1990	1720	1430	1260	1260	1260	1260
	W	520	460	410	350	290	240	200	200	200	200
20	Q	2940	2640	2340	2050	1760	1470	1300	1300	1300	1300
	W	450	410	360	300	260	210	180	180	180	180
15	Q	3010	2710	2410	2100	1810	1510	1330	1330	1330	1330
	W	390	350	310	260	220	180	150	150	150	150
10	Q	3100	2790	2480	2160	1860	1550	1370	1370	1370	1370
	W	370	340	300	250	210	170	140	140	140	140
5	Q	3180	2870	2550	2220	1910	1600	1410	1410	1410	1410
	W	360	320	280	240	200	160	140	140	140	140
0	Q	3270	2940	2620	2280	1970	1640	1450	1450	1450	1450
	W	340	310	270	230	190	160	130	130	130	130
-5	Q	2870	2580	2300	2010	1730	1450	1270	1270	1270	1270
	W	520	470	410	350	290	240	190	190	190	190
-10	Q	2880	2590	2310	2010	1730	1450	1280	1280	1280	1280
	W	500	450	400	340	280	240	190	190	190	190

Heating Rating

Outdoor temperature(°C)	-	Load(%)									
		100	90	80	70	60	50	40	30	20	10
20	Q	5030	4530	4020	3520	3020	2510	2010	1510	1130	1130
	W	1190	1070	940	820	690	560	440	320	220	220
15	Q	4630	4170	3710	3240	2780	2320	1850	1390	1040	1040
	W	1150	1030	900	790	670	540	430	310	210	210
10	Q	4240	3810	3390	2970	2540	2120	1690	1270	950	950
	W	1110	990	870	760	640	520	410	300	200	200
7	Q	4000	3600	3200	2800	2400	2000	1600	1200	900	900
	W	1080	970	850	740	630	510	400	290	200	200
5.5	Q	3410	3070	2730	2390	2050	1710	1370	1020	770	770
	W	1010	900	790	690	590	480	370	270	190	190
5	Q	3390	3050	2710	2380	2040	1700	1360	1010	770	770
	W	1010	900	790	690	590	480	370	270	190	190
2	Q	3260	2940	2610	2290	1960	1640	1310	980	740	740
	W	1020	910	800	700	600	490	380	280	190	190
0	Q	3180	2860	2550	2230	1910	1600	1280	950	720	720
	W	1030	920	810	710	600	490	380	280	190	190
-5	Q	2970	2680	2380	2090	1790	1490	1190	890	670	670
	W	1050	940	830	720	620	500	390	290	200	200
-7	Q	2890	2600	2310	2030	1740	1450	1160	870	650	650
	W	1060	950	840	730	620	500	390	290	200	200
-10	Q	2720	2450	2170	1910	1640	1360	1090	820	610	610
	W	1040	930	820	710	610	490	380	280	200	200
-15	Q	2430	2190	1940	1710	1460	1220	980	730	550	550
	W	990	890	790	680	580	470	370	270	190	190
-20	Q	2150	1930	1720	1510	1290	1080	860	650	480	480
	W	950	850	750	660	560	450	350	260	180	180

Outdoor unit : RAS-2M10U2AVG-E, RAS-2M10U2AVG-TR

2-Indoor units connection (Type : 05+05)

Compressor Speed	Cooling		Heating	
	Capacity Q(W)	Power consumption W(W)	Capacity Q(W)	Power consumption W(W)
MINIMUM	1250	250	1000	200
RATING	3000	850	4000	860
MAXIMUM	3500	910	4400	1220

Cooling Rating

Outdoor temperature(°C)	-	Load(%)									
		100	90	80	70	60	50	40	30	20	10
46	Q	2490	2240	1990	1740	1500	1250	1040	1040	1040	1040
	W	1050	920	790	660	540	420	310	310	310	310
43	Q	2630	2370	2100	1840	1580	1320	1100	1100	1100	1100
	W	990	880	750	630	510	400	290	290	290	290
40	Q	2770	2490	2220	1940	1660	1380	1150	1150	1150	1150
	W	940	830	710	600	490	380	280	280	280	280
35	Q	3000	2700	2400	2100	1800	1500	1250	1250	1250	1250
	W	850	750	640	540	440	340	250	250	250	250
30	Q	3080	2780	2470	2160	1850	1540	1290	1290	1290	1290
	W	760	670	570	480	390	300	220	220	220	220
25	Q	3170	2860	2540	2220	1900	1580	1330	1330	1330	1330
	W	680	600	510	430	350	270	200	200	200	200
20	Q	3250	2940	2610	2280	1950	1630	1360	1360	1360	1360
	W	590	520	450	380	300	230	170	170	170	170
15	Q	3340	3010	2680	2340	2010	1670	1400	1400	1400	1400
	W	510	450	380	320	260	200	150	150	150	150
10	Q	3440	3100	2760	2410	2070	1720	1440	1440	1440	1440
	W	490	430	360	310	250	190	140	140	140	140
5	Q	3530	3180	2830	2480	2130	1770	1480	1480	1480	1480
	W	470	410	350	290	240	180	140	140	140	140
0	Q	3630	3270	2910	2540	2180	1810	1520	1520	1520	1520
	W	450	390	330	280	230	170	130	130	130	130
-5	Q	3190	2870	2560	2230	1920	1590	1330	1330	1330	1330
	W	680	590	510	430	350	260	190	190	190	190
-10	Q	3200	2880	2570	2240	1920	1590	1340	1340	1340	1340
	W	660	580	490	420	340	260	190	190	190	190

Heating Rating

Outdoor temperature(°C)	-	Load(%)									
		100	90	80	70	60	50	40	30	20	10
20	Q	5030	4530	4020	3520	3020	2510	2010	1510	1260	1260
	W	950	850	750	660	560	460	360	260	220	220
15	Q	4630	4170	3710	3240	2780	2320	1850	1390	1160	1160
	W	910	820	720	640	540	450	350	260	210	210
10	Q	4240	3810	3390	2970	2540	2120	1690	1270	1060	1060
	W	880	790	700	610	520	430	340	250	200	200
7	Q	4000	3600	3200	2800	2400	2000	1600	1200	1000	1000
	W	860	770	680	600	510	420	330	240	200	200
5.5	Q	3410	3070	2730	2390	2050	1710	1370	1020	850	850
	W	800	720	630	560	480	390	310	220	190	190
5	Q	3390	3050	2710	2380	2040	1700	1360	1010	840	840
	W	800	720	630	560	480	390	310	220	190	190
2	Q	3260	2940	2610	2290	1960	1640	1310	980	810	810
	W	810	730	640	570	490	400	310	230	190	190
0	Q	3180	2860	2550	2230	1910	1600	1280	950	790	790
	W	820	740	650	570	490	400	310	230	190	190
-5	Q	2970	2680	2380	2090	1790	1490	1190	890	740	740
	W	840	750	660	590	500	410	320	240	200	200
-7	Q	2890	2600	2310	2030	1740	1450	1160	870	720	720
	W	850	760	670	590	500	410	320	240	200	200
-10	Q	2720	2450	2170	1910	1640	1360	1090	820	680	680
	W	830	740	650	580	490	400	310	230	200	200
-15	Q	2430	2190	1940	1710	1460	1220	980	730	610	610
	W	800	710	630	550	470	380	300	220	190	190
-20	Q	2150	1930	1720	1510	1290	1080	860	650	530	530
	W	760	680	600	530	450	370	290	220	180	180

Outdoor unit : RAS-2M10U2AVG-E, RAS-2M10U2AVG-TR

2-Indoor units connection (Type : 05+07)

Compressor Speed	Cooling		Heating	
	Capacity Q(W)	Power consumption W(W)	Capacity Q(W)	Power consumption W(W)
MINIMUM	1250	250	1000	200
RATING	3300	800	4000	850
MAXIMUM	3600	910	4500	1200

Cooling Rating

Outdoor temperature(°C)	-	Load(%)									
		100	90	80	70	60	50	40	30	20	10
46	Q	2740	2470	2190	1920	1640	1370	1100	1040	1040	1040
	W	980	870	760	650	550	440	330	310	310	310
43	Q	2890	2600	2320	2030	1740	1450	1160	1100	1100	1100
	W	930	830	720	620	530	420	320	290	290	290
40	Q	3050	2740	2440	2130	1830	1520	1220	1150	1150	1150
	W	880	780	680	590	500	400	300	280	280	280
35	Q	3300	2970	2640	2310	1980	1650	1320	1250	1250	1250
	W	800	710	620	530	450	360	270	250	250	250
30	Q	3390	3050	2710	2370	2040	1700	1360	1290	1290	1290
	W	720	640	560	470	400	320	240	220	220	220
25	Q	3490	3140	2790	2440	2100	1750	1400	1330	1330	1330
	W	640	570	500	420	360	290	210	200	200	200
20	Q	3580	3220	2860	2500	2150	1800	1440	1360	1360	1360
	W	560	500	440	370	310	250	190	170	170	170
15	Q	3680	3310	2940	2570	2210	1840	1470	1400	1400	1400
	W	480	430	380	320	270	220	160	150	150	150
10	Q	3790	3410	3020	2640	2270	1890	1510	1440	1440	1440
	W	460	410	360	310	260	210	150	140	140	140
5	Q	3890	3500	3110	2720	2340	1950	1550	1480	1480	1480
	W	440	390	350	290	250	200	150	140	140	140
0	Q	4000	3600	3190	2790	2400	2000	1600	1520	1520	1520
	W	420	380	330	280	240	190	140	130	130	130
-5	Q	3510	3160	2800	2450	2110	1760	1410	1330	1330	1330
	W	640	570	510	430	360	290	210	190	190	190
-10	Q	3530	3170	2810	2460	2120	1760	1410	1340	1340	1340
	W	620	560	490	420	350	280	210	190	190	190

Heating Rating

Outdoor temperature(°C)	-	Load(%)									
		100	90	80	70	60	50	40	30	20	10
20	Q	5030	4530	4020	3520	3020	2510	2010	1510	1260	1260
	W	940	840	750	650	550	460	360	260	220	220
15	Q	4630	4170	3710	3240	2780	2320	1850	1390	1160	1160
	W	900	810	720	630	530	450	350	260	210	210
10	Q	4240	3810	3390	2970	2540	2120	1690	1270	1060	1060
	W	870	780	700	600	510	430	340	250	200	200
7	Q	4000	3600	3200	2800	2400	2000	1600	1200	1000	1000
	W	850	760	680	590	500	420	330	240	200	200
5.5	Q	3410	3070	2730	2390	2050	1710	1370	1020	850	850
	W	790	710	630	550	470	390	310	220	190	190
5	Q	3390	3050	2710	2380	2040	1700	1360	1010	840	840
	W	790	710	630	550	470	390	310	220	190	190
2	Q	3260	2940	2610	2290	1960	1640	1310	980	810	810
	W	800	720	640	560	480	400	310	230	190	190
0	Q	3180	2860	2550	2230	1910	1600	1280	950	790	790
	W	810	730	650	560	480	400	310	230	190	190
-5	Q	2970	2680	2380	2090	1790	1490	1190	890	740	740
	W	830	740	660	580	490	410	320	240	200	200
-7	Q	2890	2600	2310	2030	1740	1450	1160	870	720	720
	W	840	750	670	580	490	410	320	240	200	200
-10	Q	2720	2450	2170	1910	1640	1360	1090	820	680	680
	W	820	730	650	570	480	400	310	230	200	200
-15	Q	2430	2190	1940	1710	1460	1220	980	730	610	610
	W	790	700	630	540	460	380	300	220	190	190
-20	Q	2150	1930	1720	1510	1290	1080	860	650	530	530
	W	750	670	600	520	440	370	290	220	180	180

Outdoor unit : RAS-2M10U2AVG-E, RAS-2M10U2AVG-TR

2-Indoor units connection (Type : 05+10)

Compressor Speed	Cooling		Heating	
	Capacity Q(W)	Power consumption W(W)	Capacity Q(W)	Power consumption W(W)
MINIMUM	1250	250	1000	200
RATING	3300	790	4000	840
MAXIMUM	3800	920	4700	1190

Cooling Rating

Outdoor temperature(°C)	-	Load(%)									
		100	90	80	70	60	50	40	30	20	10
46	Q	2740	2470	2190	1920	1640	1370	1100	1040	1040	1040
	W	970	860	760	650	540	440	330	310	310	310
43	Q	2890	2600	2320	2030	1740	1450	1160	1100	1100	1100
	W	920	820	720	620	510	420	320	290	290	290
40	Q	3050	2740	2440	2130	1830	1520	1220	1150	1150	1150
	W	870	770	680	590	490	400	300	280	280	280
35	Q	3300	2970	2640	2310	1980	1650	1320	1250	1250	1250
	W	790	700	620	530	440	360	270	250	250	250
30	Q	3390	3050	2710	2370	2040	1700	1360	1290	1290	1290
	W	710	630	560	470	390	320	240	220	220	220
25	Q	3490	3140	2790	2440	2100	1750	1400	1330	1330	1330
	W	630	560	500	420	350	290	210	200	200	200
20	Q	3580	3220	2860	2500	2150	1800	1440	1360	1360	1360
	W	550	490	440	370	300	250	190	170	170	170
15	Q	3680	3310	2940	2570	2210	1840	1470	1400	1400	1400
	W	480	420	380	320	260	220	160	150	150	150
10	Q	3790	3410	3020	2640	2270	1890	1510	1440	1440	1440
	W	460	400	360	310	250	210	150	140	140	140
5	Q	3890	3500	3110	2720	2340	1950	1550	1480	1480	1480
	W	440	380	350	290	240	200	150	140	140	140
0	Q	4000	3600	3190	2790	2400	2000	1600	1520	1520	1520
	W	420	370	330	280	230	190	140	130	130	130
-5	Q	3510	3160	2800	2450	2110	1760	1410	1330	1330	1330
	W	640	560	510	430	350	290	210	190	190	190
-10	Q	3530	3170	2810	2460	2120	1760	1410	1340	1340	1340
	W	620	550	490	420	340	280	210	190	190	190

Heating Rating

Outdoor temperature(°C)	-	Load(%)									
		100	90	80	70	60	50	40	30	20	10
20	Q	5030	4530	4020	3520	3020	2510	2010	1510	1260	1260
	W	930	830	740	640	550	450	360	260	220	220
15	Q	4630	4170	3710	3240	2780	2320	1850	1390	1160	1160
	W	890	800	710	620	530	440	350	260	210	210
10	Q	4240	3810	3390	2970	2540	2120	1690	1270	1060	1060
	W	860	770	690	590	510	420	340	250	200	200
7	Q	4000	3600	3200	2800	2400	2000	1600	1200	1000	1000
	W	840	750	670	580	500	410	330	240	200	200
5.5	Q	3410	3070	2730	2390	2050	1710	1370	1020	850	850
	W	780	700	620	540	470	380	310	220	190	190
5	Q	3390	3050	2710	2380	2040	1700	1360	1010	840	840
	W	780	700	620	540	470	380	310	220	190	190
2	Q	3260	2940	2610	2290	1960	1640	1310	980	810	810
	W	790	710	630	550	480	390	310	230	190	190
0	Q	3180	2860	2550	2230	1910	1600	1280	950	790	790
	W	800	720	640	550	480	390	310	230	190	190
-5	Q	2970	2680	2380	2090	1790	1490	1190	890	740	740
	W	820	730	650	570	490	400	320	240	200	200
-7	Q	2890	2600	2310	2030	1740	1450	1160	870	720	720
	W	830	740	660	570	490	400	320	240	200	200
-10	Q	2720	2450	2170	1910	1640	1360	1090	820	680	680
	W	810	720	640	560	480	390	310	230	200	200
-15	Q	2430	2190	1940	1710	1460	1220	980	730	610	610
	W	780	690	620	530	460	370	300	220	190	190
-20	Q	2150	1930	1720	1510	1290	1080	860	650	530	530
	W	750	660	590	510	440	360	290	220	180	180

Outdoor unit : RAS-2M10U2AVG-E, RAS-2M10U2AVG-TR

2-Indoor units connection (Type : 07+07)

Compressor Speed	Cooling		Heating	
	Capacity Q(W)	Power consumption W(W)	Capacity Q(W)	Power consumption W(W)
MINIMUM	1250	250	1000	200
RATING	3300	780	4000	840
MAXIMUM	3700	920	4600	1190

Cooling Rating

Outdoor temperature(°C)	-	Load(%)									
		100	90	80	70	60	50	40	30	20	10
46	Q	2740	2470	2190	1920	1640	1370	1100	1040	1040	1040
	W	960	850	750	640	540	430	330	310	310	310
43	Q	2890	2600	2320	2030	1740	1450	1160	1100	1100	1100
	W	910	810	710	610	510	410	320	290	290	290
40	Q	3050	2740	2440	2130	1830	1520	1220	1150	1150	1150
	W	860	760	670	570	490	390	300	280	280	280
35	Q	3300	2970	2640	2310	1980	1650	1320	1250	1250	1250
	W	780	690	610	520	440	350	270	250	250	250
30	Q	3390	3050	2710	2370	2040	1700	1360	1290	1290	1290
	W	700	620	550	470	390	310	240	220	220	220
25	Q	3490	3140	2790	2440	2100	1750	1400	1330	1330	1330
	W	620	550	490	420	350	280	210	200	200	200
20	Q	3580	3220	2860	2500	2150	1800	1440	1360	1360	1360
	W	550	480	430	370	300	240	190	170	170	170
15	Q	3680	3310	2940	2570	2210	1840	1470	1400	1400	1400
	W	470	420	370	320	260	210	160	150	150	150
10	Q	3790	3410	3020	2640	2270	1890	1510	1440	1440	1440
	W	450	400	350	310	250	200	150	140	140	140
5	Q	3890	3500	3110	2720	2340	1950	1550	1480	1480	1480
	W	430	380	340	290	240	190	150	140	140	140
0	Q	4000	3600	3190	2790	2400	2000	1600	1520	1520	1520
	W	410	370	320	280	230	180	140	130	130	130
-5	Q	3510	3160	2800	2450	2110	1760	1410	1330	1330	1330
	W	620	560	490	430	350	270	210	190	190	190
-10	Q	3530	3170	2810	2460	2120	1760	1410	1340	1340	1340
	W	610	550	470	420	340	260	210	190	190	190

Heating Rating

Outdoor temperature(°C)	-	Load(%)									
		100	90	80	70	60	50	40	30	20	10
20	Q	5030	4530	4020	3520	3020	2510	2010	1510	1260	1260
	W	930	830	740	640	550	450	360	260	220	220
15	Q	4630	4170	3710	3240	2780	2320	1850	1390	1160	1160
	W	890	800	710	620	530	440	350	260	210	210
10	Q	4240	3810	3390	2970	2540	2120	1690	1270	1060	1060
	W	860	770	690	590	510	420	340	250	200	200
7	Q	4000	3600	3200	2800	2400	2000	1600	1200	1000	1000
	W	840	750	670	580	500	410	330	240	200	200
5.5	Q	3410	3070	2730	2390	2050	1710	1370	1020	850	850
	W	780	700	620	540	470	380	310	220	190	190
5	Q	3390	3050	2710	2380	2040	1700	1360	1010	840	840
	W	780	700	620	540	470	380	310	220	190	190
2	Q	3260	2940	2610	2290	1960	1640	1310	980	810	810
	W	790	710	630	550	480	390	310	230	190	190
0	Q	3180	2860	2550	2230	1910	1600	1280	950	790	790
	W	800	720	640	550	480	390	310	230	190	190
-5	Q	2970	2680	2380	2090	1790	1490	1190	890	740	740
	W	820	730	650	570	490	400	320	240	200	200
-7	Q	2890	2600	2310	2030	1740	1450	1160	870	720	720
	W	830	740	660	570	490	400	320	240	200	200
-10	Q	2720	2450	2170	1910	1640	1360	1090	820	680	680
	W	810	720	640	560	480	390	310	230	200	200
-15	Q	2430	2190	1940	1710	1460	1220	980	730	610	610
	W	780	690	620	530	460	370	300	220	190	190
-20	Q	2150	1930	1720	1510	1290	1080	860	650	530	530
	W	750	660	590	510	440	360	290	220	180	180

Outdoor unit : RAS-2M10U2AVG-E, RAS-2M10U2AVG-TR

2-Indoor units connection (Type : 07+10)

Compressor Speed	Cooling		Heating	
	Capacity Q(W)	Power consumption W(W)	Capacity Q(W)	Power consumption W(W)
MINIMUM	1250	250	1000	200
RATING	3300	770	4000	820
MAXIMUM	3800	930	4800	1170

Cooling Rating

Outdoor temperature(°C)	-	Load(%)									
		100	90	80	70	60	50	40	30	20	10
46	Q	2740	2470	2190	1920	1640	1370	1100	1040	1040	1040
	W	950	850	740	640	540	430	330	310	310	310
43	Q	2890	2600	2320	2030	1740	1450	1160	1100	1100	1100
	W	900	810	700	610	510	410	320	290	290	290
40	Q	3050	2740	2440	2130	1830	1520	1220	1150	1150	1150
	W	850	760	660	570	490	390	300	280	280	280
35	Q	3300	2970	2640	2310	1980	1650	1320	1250	1250	1250
	W	770	690	600	520	440	350	270	250	250	250
30	Q	3390	3050	2710	2370	2040	1700	1360	1290	1290	1290
	W	690	620	540	470	390	310	240	220	220	220
25	Q	3490	3140	2790	2440	2100	1750	1400	1330	1330	1330
	W	610	550	480	420	350	280	210	200	200	200
20	Q	3580	3220	2860	2500	2150	1800	1440	1360	1360	1360
	W	540	480	420	370	300	240	190	170	170	170
15	Q	3680	3310	2940	2570	2210	1840	1470	1400	1400	1400
	W	460	420	360	320	260	210	160	150	150	150
10	Q	3790	3410	3020	2640	2270	1890	1510	1440	1440	1440
	W	440	400	340	310	250	200	150	140	140	140
5	Q	3890	3500	3110	2720	2340	1950	1550	1480	1480	1480
	W	420	380	330	290	240	190	150	140	140	140
0	Q	4000	3600	3190	2790	2400	2000	1600	1520	1520	1520
	W	400	370	310	280	230	180	140	130	130	130
-5	Q	3510	3160	2800	2450	2110	1760	1410	1330	1330	1330
	W	600	560	470	430	350	270	210	190	190	190
-10	Q	3530	3170	2810	2460	2120	1760	1410	1340	1340	1340
	W	590	550	450	420	340	260	210	190	190	190

Heating Rating

Outdoor temperature(°C)	-	Load(%)									
		100	90	80	70	60	50	40	30	20	10
20	Q	5030	4530	4020	3520	3020	2510	2010	1510	1260	1260
	W	900	820	720	630	540	450	350	260	220	220
15	Q	4630	4170	3710	3240	2780	2320	1850	1390	1160	1160
	W	870	790	690	610	520	440	340	260	210	210
10	Q	4240	3810	3390	2970	2540	2120	1690	1270	1060	1060
	W	840	760	670	580	500	420	330	250	200	200
7	Q	4000	3600	3200	2800	2400	2000	1600	1200	1000	1000
	W	820	740	650	570	490	410	320	240	200	200
5.5	Q	3410	3070	2730	2390	2050	1710	1370	1020	850	850
	W	760	690	610	530	460	380	300	220	190	190
5	Q	3390	3050	2710	2380	2040	1700	1360	1010	840	840
	W	760	690	610	530	460	380	300	220	190	190
2	Q	3260	2940	2610	2290	1960	1640	1310	980	810	810
	W	770	700	620	540	470	390	300	230	190	190
0	Q	3180	2860	2550	2230	1910	1600	1280	950	790	790
	W	780	710	620	540	470	390	300	230	190	190
-5	Q	2970	2680	2380	2090	1790	1490	1190	890	740	740
	W	800	720	640	560	480	400	310	240	200	200
-7	Q	2890	2600	2310	2030	1740	1450	1160	870	720	720
	W	810	730	640	560	480	400	310	240	200	200
-10	Q	2720	2450	2170	1910	1640	1360	1090	820	680	680
	W	790	710	620	550	470	390	300	230	200	200
-15	Q	2430	2190	1940	1710	1460	1220	980	730	610	610
	W	760	680	600	520	450	370	290	220	190	190
-20	Q	2150	1930	1720	1510	1290	1080	860	650	530	530
	W	730	660	570	500	430	360	280	220	180	180

Outdoor unit : RAS-2M10U2AVG-E, RAS-2M10U2AVG-TR

2-Indoor units connection (Type : 10+10)

Compressor Speed	Cooling		Heating	
	Capacity Q(W)	Power consumption W(W)	Capacity Q(W)	Power consumption W(W)
MINIMUM	1250	250	1000	200
RATING	3300	750	4000	810
MAXIMUM	3900	930	4900	1150

Cooling Rating

Outdoor temperature(°C)	-	Load(%)									
		100	90	80	70	60	50	40	30	20	10
46	Q	2740	2470	2190	1920	1640	1370	1100	1040	1040	1040
	W	920	820	730	630	530	430	330	310	310	310
43	Q	2890	2600	2320	2030	1740	1450	1160	1100	1100	1100
	W	880	780	690	600	500	410	320	290	290	290
40	Q	3050	2740	2440	2130	1830	1520	1220	1150	1150	1150
	W	830	740	650	560	470	390	300	280	280	280
35	Q	3300	2970	2640	2310	1980	1650	1320	1250	1250	1250
	W	750	670	590	510	430	350	270	250	250	250
30	Q	3390	3050	2710	2370	2040	1700	1360	1290	1290	1290
	W	670	600	530	460	390	310	240	220	220	220
25	Q	3490	3140	2790	2440	2100	1750	1400	1330	1330	1330
	W	600	530	470	410	350	280	210	200	200	200
20	Q	3580	3220	2860	2500	2150	1800	1440	1360	1360	1360
	W	520	470	410	360	300	240	190	170	170	170
15	Q	3680	3310	2940	2570	2210	1840	1470	1400	1400	1400
	W	450	400	360	310	260	210	160	150	150	150
10	Q	3790	3410	3020	2640	2270	1890	1510	1440	1440	1440
	W	430	380	340	300	250	200	150	140	140	140
5	Q	3890	3500	3110	2720	2340	1950	1550	1480	1480	1480
	W	410	370	330	280	240	190	150	140	140	140
0	Q	4000	3600	3190	2790	2400	2000	1600	1520	1520	1520
	W	390	350	310	270	230	180	140	130	130	130
-5	Q	3510	3160	2800	2450	2110	1760	1410	1330	1330	1330
	W	590	540	470	410	350	270	210	190	190	190
-10	Q	3530	3170	2810	2460	2120	1760	1410	1340	1340	1340
	W	580	520	450	400	340	260	210	190	190	190

Heating Rating

Outdoor temperature(°C)	-	Load(%)									
		100	90	80	70	60	50	40	30	20	10
20	Q	5030	4530	4020	3520	3020	2510	2010	1510	1260	1260
	W	890	800	720	630	530	440	350	260	220	220
15	Q	4630	4170	3710	3240	2780	2320	1850	1390	1160	1160
	W	860	780	690	610	510	430	340	260	210	210
10	Q	4240	3810	3390	2970	2540	2120	1690	1270	1060	1060
	W	830	750	670	580	490	410	330	250	200	200
7	Q	4000	3600	3200	2800	2400	2000	1600	1200	1000	1000
	W	810	730	650	570	480	400	320	240	200	200
5.5	Q	3410	3070	2730	2390	2050	1710	1370	1020	850	850
	W	760	680	610	530	450	370	300	220	190	190
5	Q	3390	3050	2710	2380	2040	1700	1360	1010	840	840
	W	760	680	610	530	450	370	300	220	190	190
2	Q	3260	2940	2610	2290	1960	1640	1310	980	810	810
	W	770	690	620	540	460	380	300	230	190	190
0	Q	3180	2860	2550	2230	1910	1600	1280	950	790	790
	W	780	700	620	540	460	380	300	230	190	190
-5	Q	2970	2680	2380	2090	1790	1490	1190	890	740	740
	W	790	710	640	560	470	390	310	240	200	200
-7	Q	2890	2600	2310	2030	1740	1450	1160	870	720	720
	W	800	720	640	560	470	390	310	240	200	200
-10	Q	2720	2450	2170	1910	1640	1360	1090	820	680	680
	W	780	700	620	550	460	380	300	230	200	200
-15	Q	2430	2190	1940	1710	1460	1220	980	730	610	610
	W	750	670	600	520	440	370	290	220	190	190
-20	Q	2150	1930	1720	1510	1290	1080	860	650	530	530
	W	720	650	570	500	420	350	280	220	180	180

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