

Low Static Pressure Duct Type

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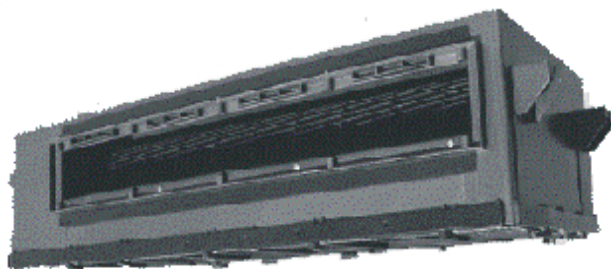
Большая библиотека технической документации

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каталоги, инструкции, сервисные мануалы, схемы.

1. Features

- 1.1 Low operation noise
- 1.2 Compact Structure and light weight
- 1.3 Adopt Cross Fan
- 1.4 Adopt 4-bend Evaporator with High Efficient

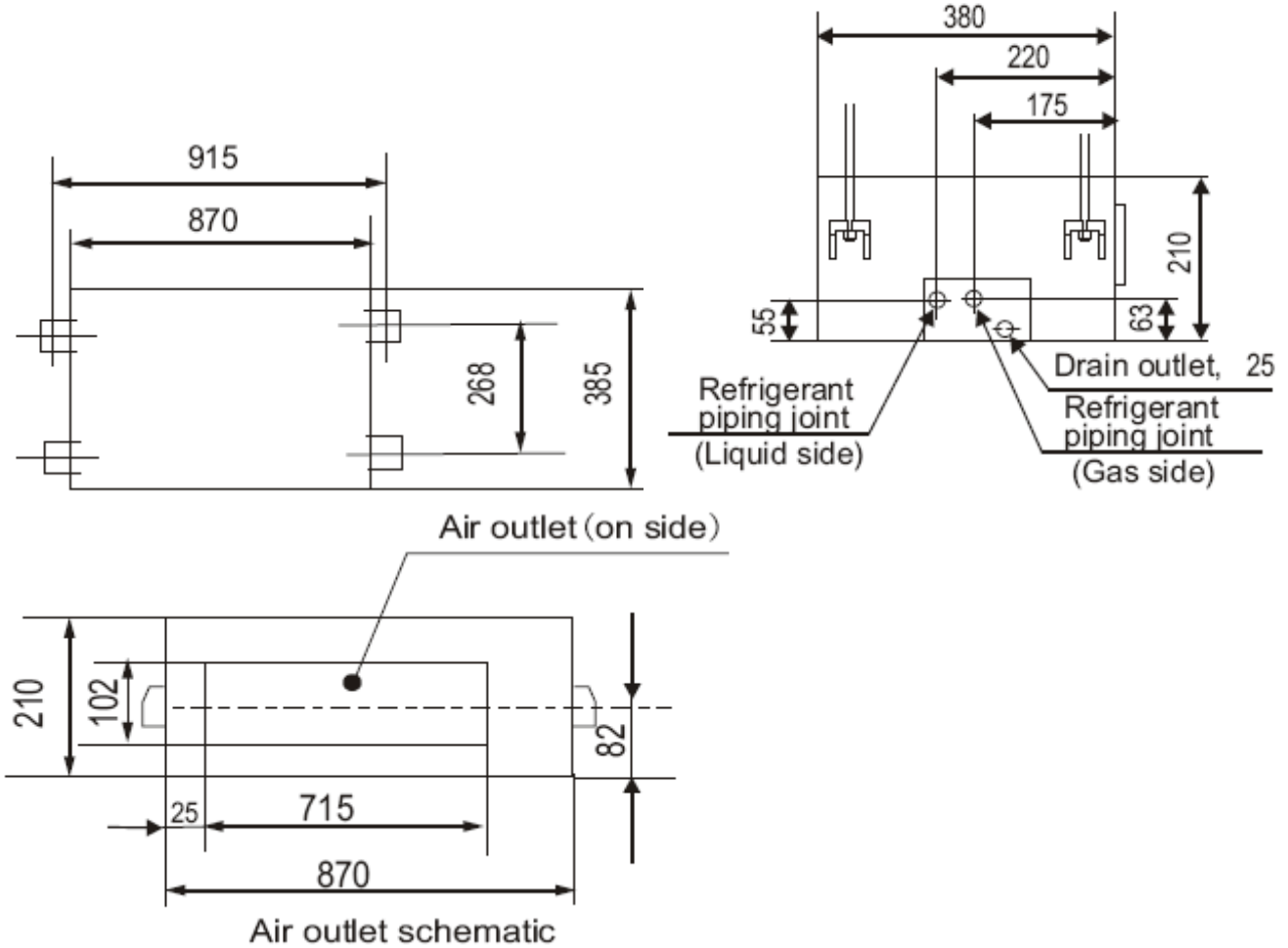


2. Specification

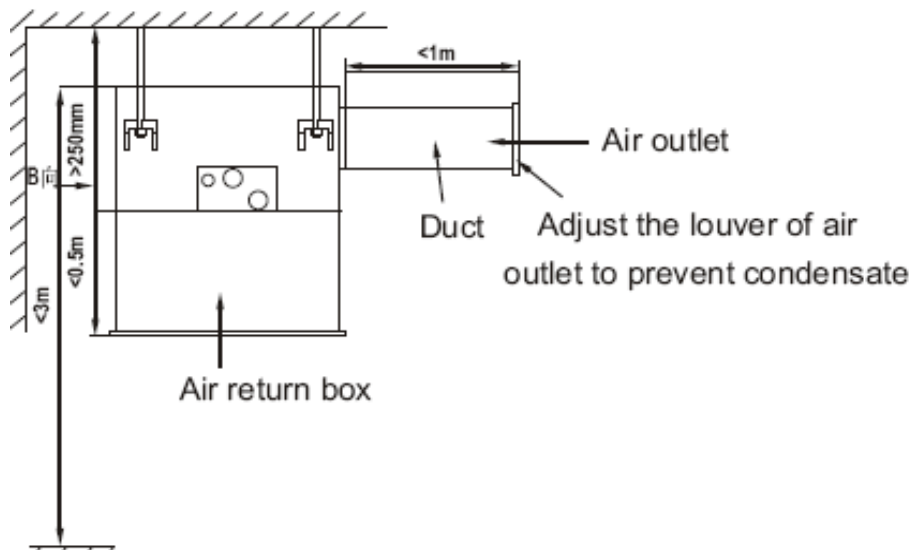
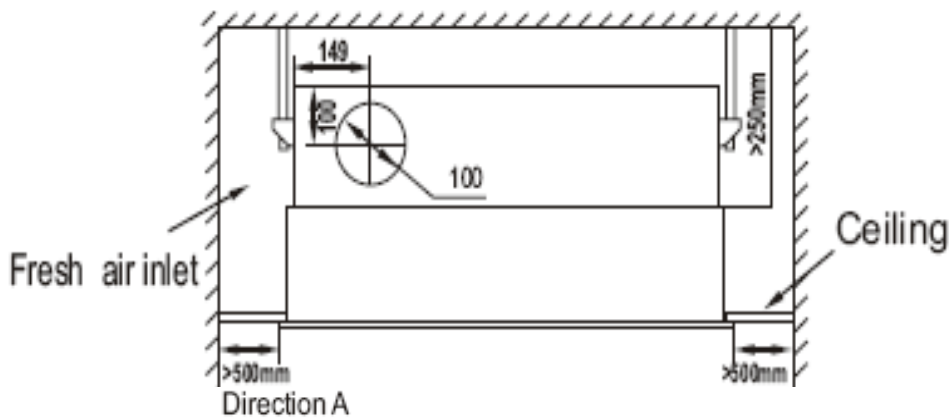
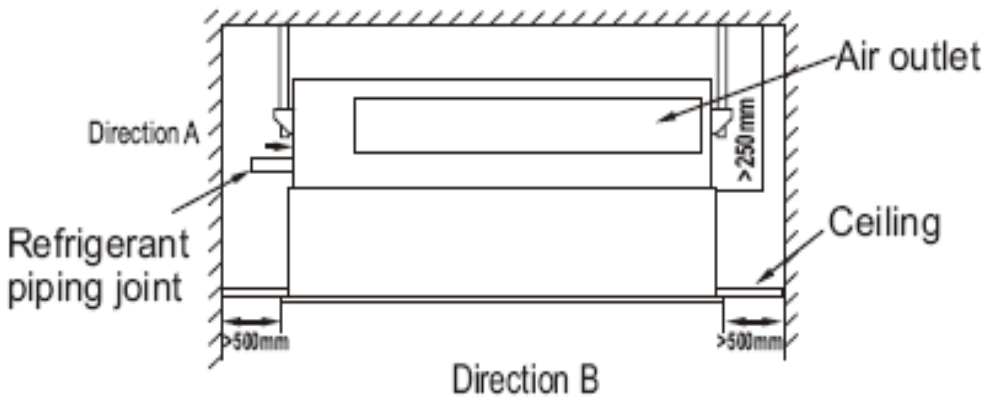
Sale Model			RK-MD22T2/CF	RK-MD28T2/CF	RK-MD36T2/CF
Power supply		V-ph-Hz	220~240-1-50	220~240-1-50	220~240-1-50
Cooling	Capacity	kW	2.2	2.8	3.6
	Input	W	35	35	35
	Rated current	A	0.2	0.2	0.2
Heating	Capacity	kW	2.6	3.2	4.0
	Input	W	35	35	35
	Rated current	A	0.2	0.2	0.2
Indoor fan motor	Model		RPS20D	RPS20D	RPS20D
	Type		AC MOTOR	AC MOTOR	AC MOTOR
	Brand		Welling	Welling	Welling
	Input	W	34.5/30.5/27.3	34.5/30.5/27.3	34.5/30.5/27.3
	Capacitor	uF	0.8uF/450V	1uF/450V	1uF/450V
	Speed(hi/mi/lo)	r/min	940/840/760	940/840/760	940/840/760
Indoor coil	Number of rows		2	2	2
	Tube pitch(a)x row pitch(b)	mm	21×13.37	21×13.37	21×13.37
	Fin spacing	mm	1.5	1.5	1.5
	Fin type (code)		Hydrophilic aluminum		
	Tube outside dia. and type	mm	Φ7	Φ7	Φ7
			Inner groove tube		
	Coil length x height x width	mm	718 x317x26.74	718 x317x26.74	718 x317x26.74
Number of circuits		2	4	4	
Indoor air flow (Hi/Mi/Lo)		m ³ /h	570/400/320	570/400/320	570/400/320
Indoor external static pressure (Hi)		Pa	10	10	10
Sound level (sound pressure)		dB(A)	34/32/30	35/33/31	35/33/31
Indoor unit	Dimension (W x H x D)	mm	955x210x385	955x210x385	955x210x385
	Packing (W x H x D)	mm	1114 x277 x469	1114 x277 x469	1114 x277 x469
	Net/Gross weight	kg	15/19	15/19	15/19
Refrigerant	Type		R410A	R410A	R410A
Design pressure		MPa	4.2/2.5	4.2/2.5	4.2/2.5
Refrigerant piping	Liquid side/ Gas side	mm	Φ6.4/Φ12.7	Φ6.4/Φ12.7	Φ6.4/Φ12.7
Connection wiring	Power wiring	mm ²	3×2.5(L≤20m); 3×3.5(L≤50m)		
	Signal wiring	mm ²	3×1.0		
Drainage water pipe dia.		mm	Φ25	Φ25	Φ25
Controller			Wireless remote controller R51(standard)		
Operation temp		°C	17~30		
Application area		m ²	7~22	9~28	12~36

3. Dimensions

RK-MD22T2/CF RK-MD28T2/CF RK-MD36T2/CF

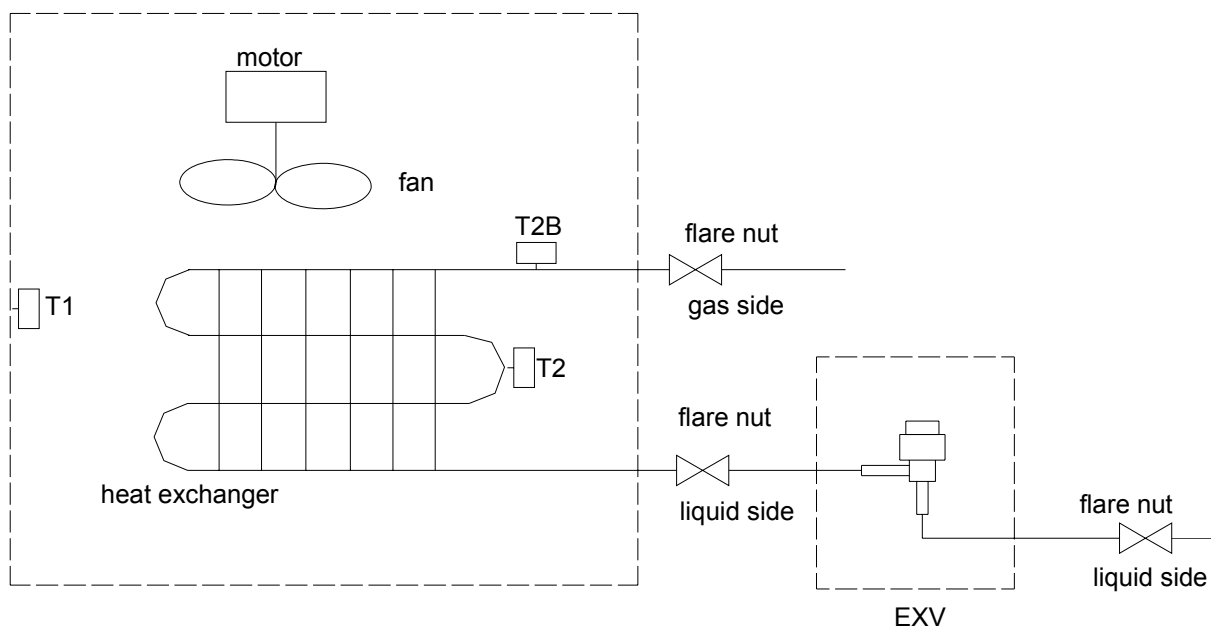


4. Service Space



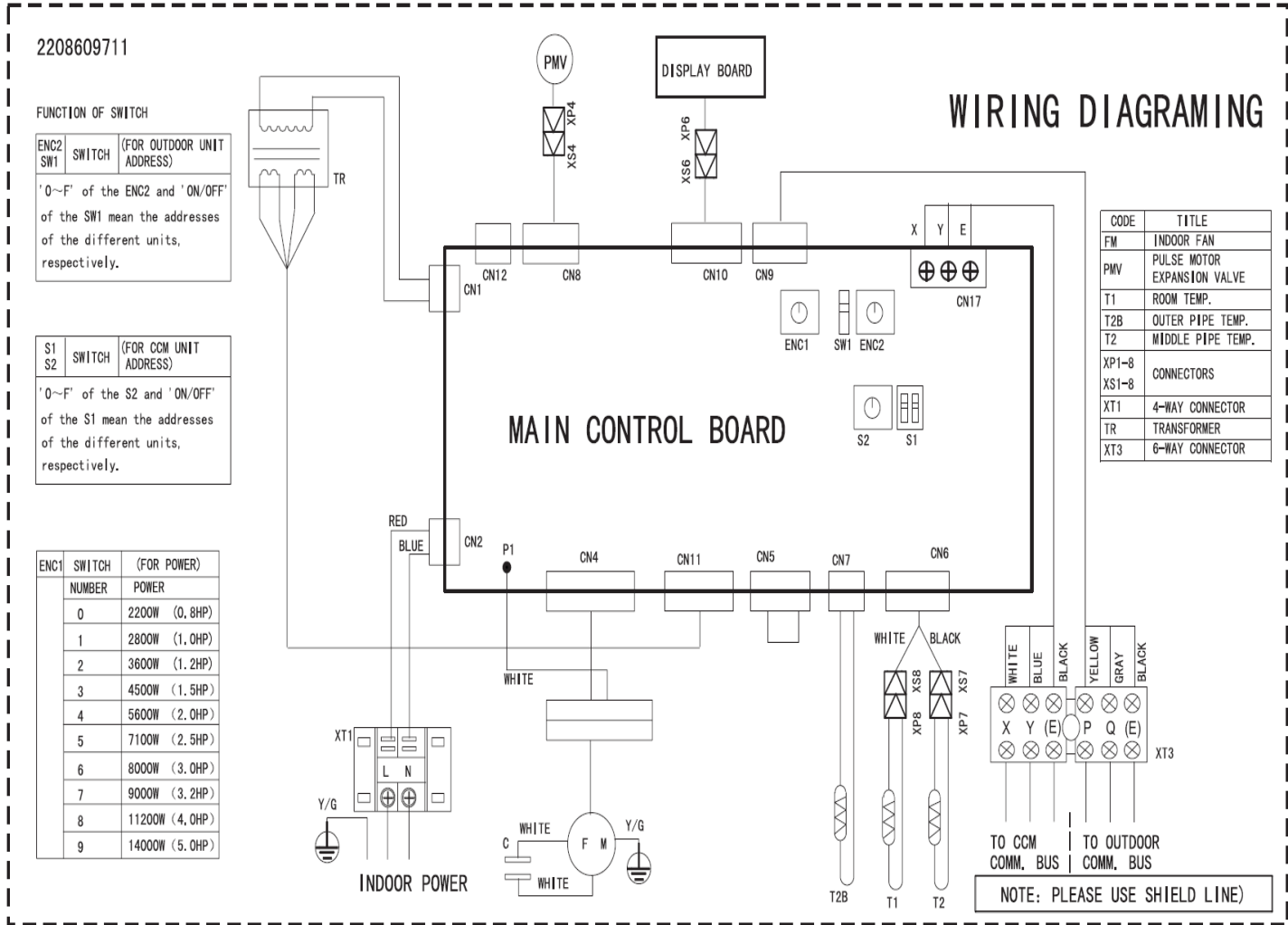
5. Piping Diagram

RK-MD22T2/CF RK-MD28T2/CF RK-MD36T2/CF

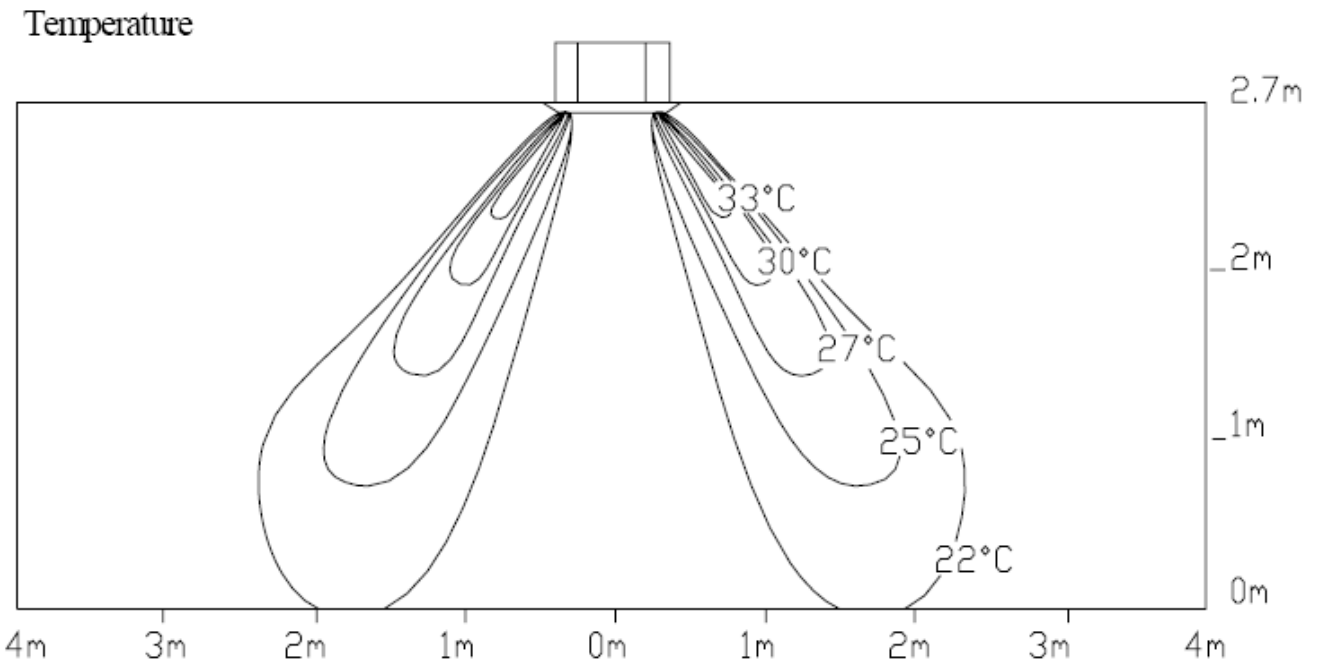
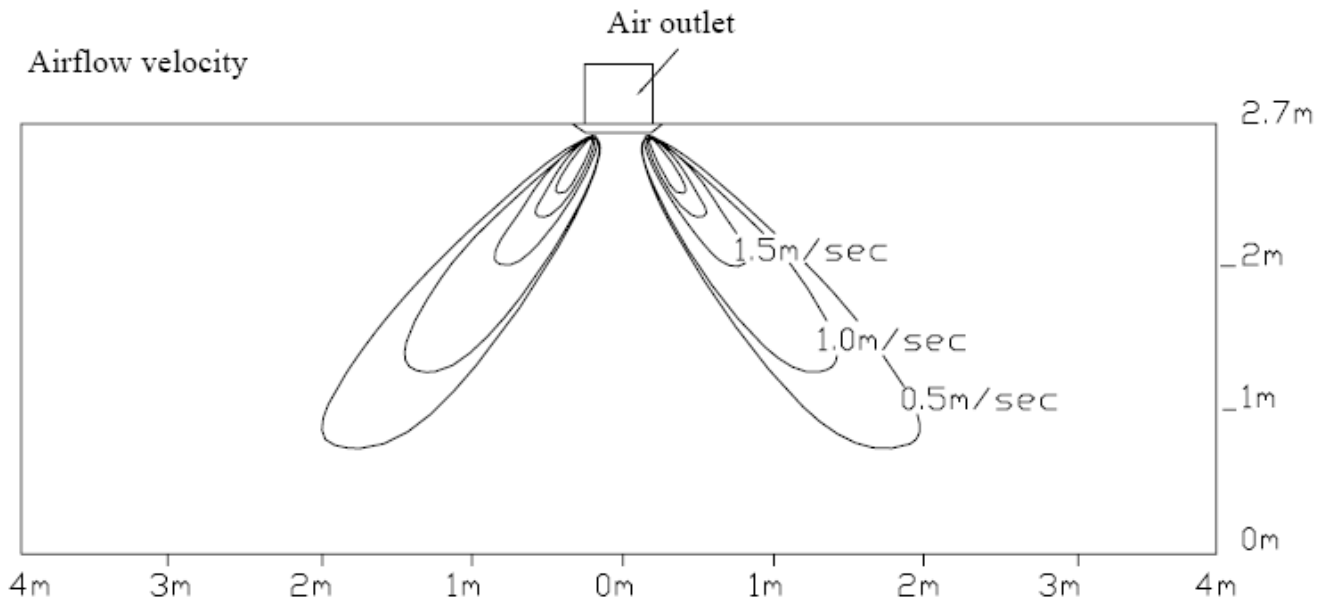


6. Wiring Diagram

RK-MD22T2/CF RK-MD28T2/CF RK-MD36T2/CF



7. Air Velocity and Temperature Distributions



8. Capacity Tables

8.1 Cooling

TC: total capacity **SC:** sensible capacity
WB: wet-bulb temperature **DB:** dry-bulb temperature

Indoor Unit size (kW)	Outdoor temperature (°C DB)	Indoor temperature (°C WB/DB)													
		14/20		16/23		18/26		19/27		20/28		22/30		24/32	
		TC	SC	TC	SC	TC	SC	TC	SC	TC	SC	TC	SC	TC	SC
		kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
2.2	10.0	1.5	1.4	1.8	1.5	2.1	1.6	2.2	1.6	2.3	1.7	2.6	1.7	2.9	1.7
	12.0	1.5	1.4	1.8	1.5	2.1	1.6	2.2	1.6	2.3	1.7	2.6	1.7	2.8	1.6
	14.0	1.5	1.4	1.8	1.5	2.1	1.6	2.2	1.6	2.3	1.7	2.6	1.7	2.8	1.6
	16.0	1.5	1.4	1.8	1.5	2.1	1.6	2.2	1.6	2.3	1.7	2.6	1.7	2.8	1.6
	18.0	1.5	1.4	1.8	1.5	2.1	1.6	2.2	1.6	2.3	1.7	2.6	1.7	2.8	1.6
	20.0	1.5	1.4	1.8	1.5	2.1	1.6	2.2	1.6	2.3	1.7	2.6	1.7	2.7	1.5
	21.0	1.5	1.4	1.8	1.5	2.1	1.6	2.2	1.6	2.3	1.7	2.6	1.7	2.7	1.5
	23.0	1.5	1.4	1.8	1.5	2.1	1.6	2.2	1.6	2.3	1.7	2.5	1.6	2.7	1.5
	25.0	1.5	1.4	1.8	1.5	2.1	1.6	2.2	1.6	2.3	1.7	2.5	1.6	2.6	1.5
	27.0	1.5	1.4	1.8	1.5	2.1	1.6	2.2	1.6	2.3	1.7	2.5	1.6	2.6	1.5
	29.0	1.5	1.4	1.8	1.5	2.1	1.6	2.2	1.6	2.3	1.7	2.4	1.5	2.5	1.5
	31.0	1.5	1.4	1.8	1.5	2.1	1.6	2.2	1.6	2.3	1.7	2.4	1.5	2.5	1.5
	33.0	1.5	1.4	1.8	1.5	2.1	1.6	2.2	1.6	2.3	1.7	2.4	1.5	2.4	1.5
	35.0	1.5	1.4	1.8	1.5	2.1	1.6	2.2	1.6	2.3	1.7	2.3	1.5	2.4	1.5
	37.0	1.5	1.4	1.8	1.5	2.1	1.6	2.2	1.6	2.3	1.7	2.3	1.5	2.3	1.5
39.0	1.5	1.4	1.8	1.5	2.1	1.6	2.2	1.6	2.2	1.6	2.3	1.5	2.3	1.5	
2.8	10.0	1.9	1.8	2.3	1.9	2.7	2.0	2.8	2.0	2.9	2.2	3.3	2.1	3.7	2.1
	12.0	1.9	1.8	2.3	1.9	2.7	2.0	2.8	2.0	2.9	2.2	3.3	2.1	3.6	2.1
	14.0	1.9	1.8	2.3	1.9	2.7	2.0	2.8	2.0	2.9	2.2	3.3	2.1	3.6	2.1
	16.0	1.9	1.8	2.3	1.9	2.7	2.0	2.8	2.0	2.9	2.2	3.3	2.1	3.6	2.0
	18.0	1.9	1.8	2.3	1.9	2.7	2.0	2.8	2.0	2.9	2.2	3.3	2.1	3.5	2.0
	20.0	1.9	1.8	2.3	1.9	2.7	2.0	2.8	2.0	2.9	2.2	3.3	2.1	3.4	1.9
	21.0	1.9	1.8	2.3	1.9	2.7	2.0	2.8	2.0	2.9	2.2	3.3	2.1	3.4	1.9
	23.0	1.9	1.8	2.3	1.9	2.7	2.0	2.8	2.0	2.9	2.2	3.2	2.1	3.4	1.9
	25.0	1.9	1.8	2.3	1.9	2.7	2.0	2.8	2.0	2.9	2.2	3.2	2.0	3.3	1.9
	27.0	1.9	1.8	2.3	1.9	2.7	2.0	2.8	2.0	2.9	2.2	3.2	2.0	3.3	1.9
	29.0	1.9	1.8	2.3	1.9	2.7	2.0	2.8	2.0	2.9	2.2	3.1	2.0	3.2	1.9
	31.0	1.9	1.8	2.3	1.9	2.7	2.0	2.8	2.0	2.9	2.2	3.1	2.0	3.2	1.9
	33.0	1.9	1.8	2.3	1.9	2.7	2.0	2.8	2.0	2.9	2.2	3.1	2.0	3.1	2.0
	35.0	1.9	1.8	2.3	1.9	2.7	2.0	2.8	2.0	2.9	2.1	2.9	1.9	3.1	2.0
	37.0	1.9	1.8	2.3	1.9	2.7	2.0	2.8	2.0	2.9	2.1	2.9	1.9	2.9	1.9
39.0	1.9	1.8	2.3	1.9	2.7	2.0	2.8	2.0	2.8	2.0	2.9	1.9	2.9	1.9	
3.6	10.0	2.4	2.2	3.0	2.5	3.3	2.7	3.6	2.7	3.9	2.7	4.2	2.8	4.8	2.8
	12.0	2.4	2.2	3.0	2.5	3.3	2.7	3.6	2.7	3.9	2.7	4.2	2.8	4.6	2.7
	14.0	2.4	2.2	3.0	2.5	3.3	2.7	3.6	2.7	3.9	2.7	4.2	2.8	4.6	2.7
	16.0	2.4	2.2	3.0	2.5	3.3	2.7	3.6	2.7	3.9	2.7	4.2	2.8	4.5	2.7
	18.0	2.4	2.2	3.0	2.5	3.3	2.7	3.6	2.7	3.9	2.7	4.2	2.8	4.5	2.7
	20.0	2.4	2.2	3.0	2.5	3.3	2.7	3.6	2.7	3.9	2.7	4.2	2.8	4.4	2.7
	21.0	2.4	2.2	3.0	2.5	3.3	2.7	3.6	2.7	3.9	2.7	4.2	2.8	4.4	2.7

Indoor Unit size (kW)	Outdoor temperature (°C DB)	Indoor temperature (°C WB/DB)													
		14/20		16/23		18/26		19/27		20/28		22/30		24/32	
		TC	SC	TC	SC	TC	SC	TC	SC	TC	SC	TC	SC	TC	SC
		kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
23.0	2.4	2.2	3.0	2.5	3.3	2.7	3.6	2.7	3.9	2.7	4.2	2.8	4.4	2.7	
25.0	2.4	2.2	3.0	2.5	3.3	2.7	3.6	2.7	3.9	2.7	4.1	2.7	4.2	2.6	
27.0	2.4	2.2	3.0	2.5	3.3	2.7	3.6	2.7	3.9	2.7	4.1	2.7	4.2	2.6	
29.0	2.4	2.2	3.0	2.5	3.3	2.7	3.6	2.7	3.9	2.7	4.0	2.6	4.1	2.5	
31.0	2.4	2.2	3.0	2.5	3.3	2.7	3.6	2.7	3.9	2.7	4.0	2.6	4.1	2.4	
33.0	2.4	2.2	3.0	2.5	3.3	2.7	3.6	2.7	3.9	2.7	4.0	2.6	4.0	2.4	
35.0	2.4	2.2	3.0	2.5	3.3	2.7	3.6	2.7	3.7	2.6	3.9	2.6	4.0	2.4	
37.0	2.4	2.2	3.0	2.5	3.3	2.7	3.6	2.7	3.7	2.6	3.9	2.6	3.9	2.3	
39.0	2.4	2.2	3.0	2.5	3.3	2.7	3.6	2.7	3.7	2.6	3.9	2.7	3.9	2.4	

8.2 Heating

TC: total capacity
WB: wet-bulb temperature DB: dry-bulb temperature

Indoor Unit size (kW)	Outdoor temperature (°C)		Indoor temperature (°C DB)					
			16.00	18.00	20.00	21.00	22.00	24.00
	WB	DB	TC	TC	TC	TC	TC	TC
			kW	kW	kW	kW	kW	kW
2.20	-15.00	-14.70	1.64	1.64	1.64	1.64	1.64	1.64
	-13.00	-12.60	1.74	1.74	1.74	1.74	1.74	1.74
	-11.00	-10.50	1.82	1.82	1.82	1.82	1.82	1.82
	-10.00	-9.50	1.90	1.90	1.90	1.90	1.90	1.90
	-9.10	-8.50	1.95	1.95	1.95	1.95	1.95	1.95
	-7.60	-7.00	1.98	1.98	1.98	1.98	1.98	1.98
	-5.60	-5.00	2.05	2.05	2.05	2.05	2.05	2.05
	-3.70	-3.00	2.16	2.16	2.16	2.16	2.16	2.16
	-0.70	0.00	2.31	2.31	2.31	2.31	2.31	2.18
	2.20	3.00	2.44	2.44	2.44	2.44	2.39	2.18
	4.10	5.00	2.52	2.52	2.52	2.52	2.39	2.18
	6.00	7.00	2.60	2.60	2.60	2.52	2.39	2.18
	7.90	9.00	2.68	2.68	2.60	2.52	2.39	2.18
	9.80	11.00	2.76	2.76	2.60	2.52	2.39	2.18
11.80	13.00	2.86	2.81	2.60	2.52	2.39	2.18	
13.70	15.00	2.94	2.81	2.60	2.52	2.39	2.18	
2.80	-15.00	-14.70	2.02	2.02	2.02	2.02	2.02	2.02
	-13.00	-12.60	2.14	2.14	2.14	2.14	2.14	2.14
	-11.00	-10.50	2.24	2.24	2.24	2.24	2.24	2.24
	-10.00	-9.50	2.34	2.34	2.34	2.34	2.34	2.34
	-9.10	-8.50	2.40	2.40	2.40	2.40	2.40	2.40
	-7.60	-7.00	2.43	2.43	2.43	2.43	2.43	2.43
	-5.60	-5.00	2.53	2.53	2.53	2.53	2.53	2.53
	-3.70	-3.00	2.66	2.66	2.66	2.66	2.66	2.66
	-0.70	0.00	2.85	2.85	2.85	2.85	2.85	2.69
	2.20	3.00	3.01	3.01	3.01	3.01	2.94	2.69
4.10	5.00	3.10	3.10	3.10	3.10	2.94	2.69	

Indoor Unit size (kW)	Outdoor temperature (°C)		Indoor temperature (°C DB)						
			16.00	18.00	20.00	21.00	22.00	24.00	
	WB	DB	TC	TC	TC	TC	TC	TC	
	6.00	7.00	3.20	3.20	3.20	3.10	2.94	2.69	
	7.90	9.00	3.30	3.30	3.20	3.10	2.94	2.69	
	9.80	11.00	3.39	3.39	3.20	3.10	2.94	2.69	
	11.80	13.00	3.52	3.46	3.20	3.10	2.94	2.69	
	13.70	15.00	3.62	3.46	3.20	3.10	2.94	2.69	
	3.60	-15.00	-14.70	2.52	2.52	2.52	2.52	2.52	2.52
		-13.00	-12.60	2.68	2.68	2.68	2.68	2.68	2.68
		-11.00	-10.50	2.80	2.80	2.80	2.80	2.80	2.80
-10.00		-9.50	2.92	2.92	2.92	2.92	2.92	2.92	
-9.10		-8.50	3.00	3.00	3.00	3.00	3.00	3.00	
-7.60		-7.00	3.04	3.04	3.04	3.04	3.04	3.04	
-5.60		-5.00	3.16	3.16	3.16	3.16	3.16	3.16	
-3.70		-3.00	3.32	3.32	3.32	3.32	3.32	3.32	
-0.70		0.00	3.56	3.56	3.56	3.56	3.56	3.36	
2.20		3.00	3.76	3.76	3.76	3.76	3.68	3.36	
4.10		5.00	3.88	3.88	3.88	3.88	3.68	3.36	
6.00		7.00	4.00	4.00	4.00	3.88	3.68	3.36	
7.90		9.00	4.12	4.12	4.00	3.88	3.68	3.36	
9.80		11.00	4.24	4.24	4.00	3.88	3.68	3.36	
11.80		13.00	4.40	4.32	4.00	3.88	3.68	3.36	
13.70	15.00	4.52	4.32	4.00	3.88	3.68	3.36		

9. Electric Characteristics

Model	Indoor Unit				Power Supply	IFM	
	Hz	Voltage	Min.	Max.	MFA	kW	FLA
RK-MD22T2/CF	50	220-240	198	254	15	0.014	0.157
RK-MD28T2/CF	50	220-240	198	254	15	0.014	0.157
RK-MD36T2/CF	50	220-240	198	254	15	0.014	0.157

Remark:

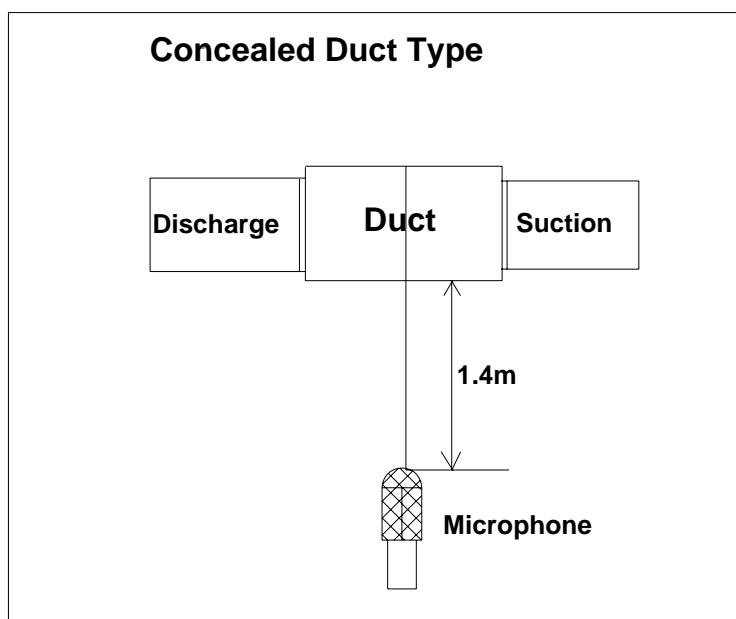
MFA: Max. Fuse Amps. (A)

KW: Fan Motor Rated Output (KW)

FLA: Full Load Amps. (A)

IFM: Indoor Fan Motor

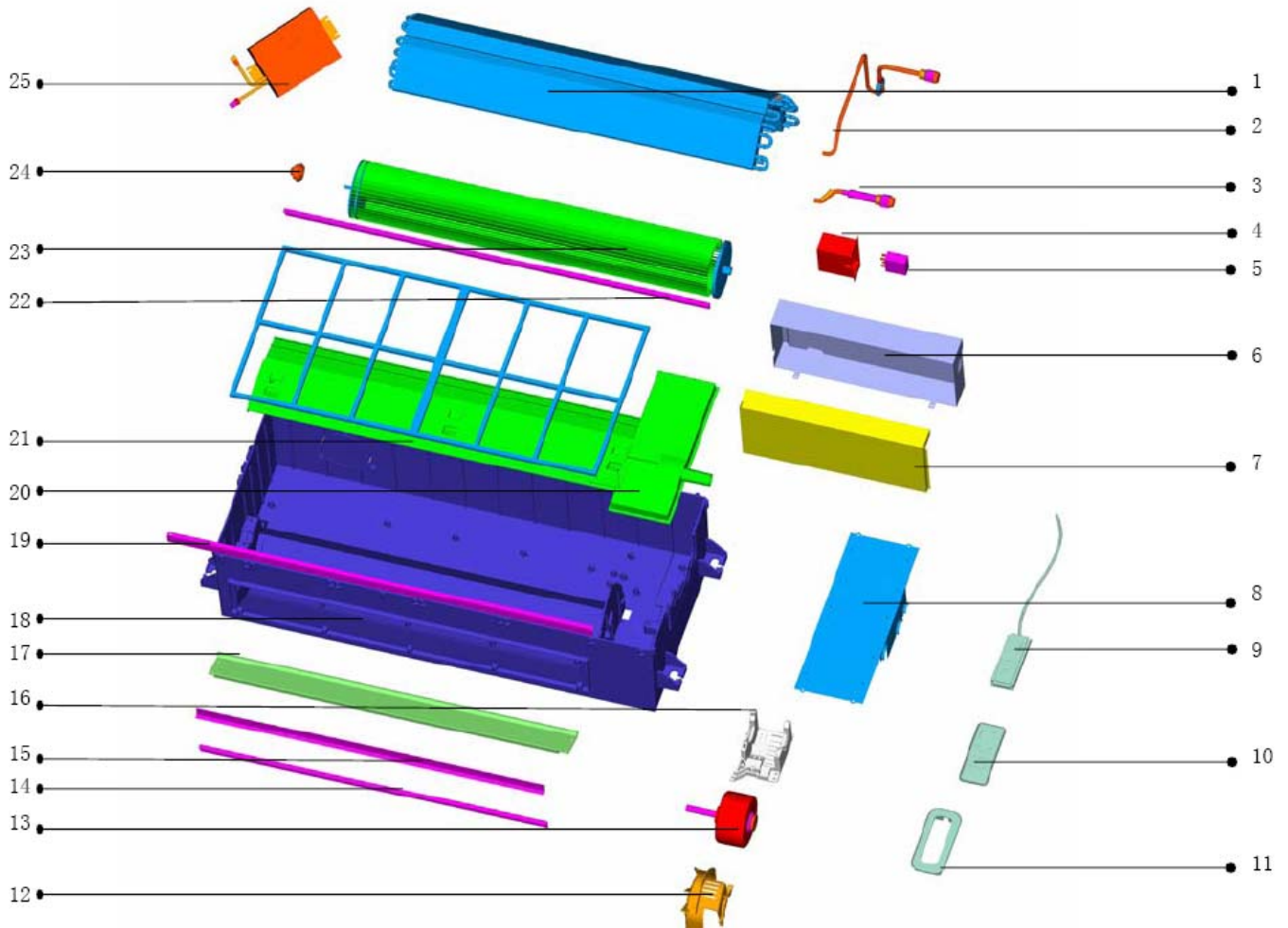
10. Sound Levels



Model	Noise level dB(A)		
	H	M	L
RK-MD22T2/CF	35	32	30
RK-MD28T2/CF	35	33	31
RK-MD36T2/CF	35	33	31










11. Exploded View

RK-MD22T2/CF RK-MD28T2/CF RK-MD36T2/CF



No.	Part Name	Quantity	No.	Part Name	Quantity
1	Evaporator ass'y	1	14	Fixing board	1
2	Input pipe ass'y	1	15	Fixing board	1
3	Output pipe ass'y	1	16	Motor base	1
4	Capacitor box	1	17	Volute tongue	1
5	Motor capacitor	1	18	Base	1
6	E-part box ass'y	1	19	Return air fixing box board	1
7	E-part box cover	1	20	Drainage pan	1
8	Drainage pan cover	1	21	Filter	2
9	Display board ass'y	1	22	Return air fixing box board	1
10	Remote controller	1	23	Fan	1
11	Installation box	1	24	Bearing	1
12	Motor cover	1	25	Electric throttle assembly	1
13	Motor	1			

12. Accessories

Name	Quantity	Outline	Function
Installation manual	1		
Insulation pipe	2		Insulating the pipe joint
Remote controller	1		
7# alkaline battery	2		
Remote signal receiver subassembly	1		
Big washer	8		
Constriction bandage	10		
Duct installation accessory	1		Duct installation
Electronic throttle device	1		
Drain hose	1	