

Air Conditioning Technical Data

RX-K



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RX-K

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1 Features

- Energy saving during standby mode: reduces current consumption by about 80% when operating in standby. If no people are detected for more than 20 minutes, the system will automatically switch to the current-saving mode.
- Daikin outdoor units are neat, sturdy and can easily be mounted on a roof or terrace or simply placed against an outside wall
- Outdoor units are fitted with a swing compressor, renowned for its low noise and high energy efficiency
- Outdoor units for pair application



Energy saving
during standby
mode

2 Specifications

2-1 Capacity and Power input				FTX20J3/RX20K	FTX25J3/RX25K	FTX35J3/RX35K
Indoor unit				FTX20J3	FTX25J3	FTX35J3
Outdoor unit				RX20K	RX25K	RX35K
Cooling capacity	Min.		kW	1.3		
			Btu/h	4,400		
			kcal/h	1,120		
	Nom.		kW	2.0 (1)	2.5 (1)	3.3 (1)
			Btu/h	6,800 (1)	8,500 (1)	11,300 (1)
			kcal/h	1,720 (1)	2,150 (1)	2,840 (1)
	Max.		kW	2.6	3.0	3.8
			Btu/h	8,900	10,200	13,000
			kcal/h	2,240	2,580	3,270
Heating capacity	Min.		kW	1.3		
			Btu/h	4,400		
			kcal/h	1,120	1,120.0	1,120
	Nom.		kW	2.5 (1)	2.8 (1)	3.5 (1)
			Btu/h	8,500 (1)	9,600 (1)	11,900 (1)
			kcal/h	2,150 (1)	2,410 (1)	3,010 (1)
	Max.		kW	3.5	4.0	4.8
			Btu/h	11,900	13,600	16,400
			kcal/h	3,010	3,440	4,130
Power input	Cooling	Min.	kW	0.310		0.290
		Nom.	kW	0.490 (1)	0.700 (1)	1.030 (1)
		Max.	kW	0.720	1.050	1.300
	Heating	Min.	kW	0.250		0.290
		Nom.	kW	0.590 (1)	0.690 (1)	0.930 (1)
		Max.	kW	0.950	1.110	1.290
Seasonal efficiency (according to EN14825)	Cooling	Energy label		A++		
		Pdesign	kW	2.00	2.50	3.30
		SEER		6.11	6.15	
		Annual energy consumption	kWh	115	142	188
	Heating (Average climate)	Energy label		A+		
		Pdesign	kW	2.20	2.40	2.80
		SCOP/A		4.34	4.16	4.14
		Annual energy consumption	kWh	711	809	947
Piping connections	Liquid	OD	mm	6.35		
	Gas	OD	mm	9.5		
	Drain	OD	mm	18		
	Heat insulation			Both liquid and gas pipes		
Current	Nominal running current (RLA) - 50Hz	Cooling	A	2.4	3.6	5.5
		Heating	A	3.0	3.2	4.7
Nominal efficiency	EER			4.09 (2)	3.55 (2)	3.21 (2)
	COP			4.24 (2)	4.06 (2)	3.76 (2)
	Annual energy consumption		kWh	244	352	514
	Energy label	Cooling		A		
		Heating		A		

Notes

(1) Nominal efficiency: cooling at 35°/27° nominal load, heating at 7°/20° nominal load

(2) EER/COP according to Eurovent 2012, for use outside EU only

2-2 Capacity and Power input				FTX20KV/RX20K	FTX25KV/RX25K	FTX35KV/RX35K
Cooling capacity	Nom.		kW	2.0	2.5	3.5
Heating capacity	Nom.		kW	2.50	3.00	4.00
Power input	Heating	Nom.	kW	0.52	0.69	1.00

2 Specifications

2-2 Capacity and Power input				FTX20KV/RX20K	FTX25KV/RX25K	FTX35KV/RX35K
Seasonal efficiency (according to EN14825)	Cooling	Energy label		A++		
		Pdesign	kW	2.00	2.50	3.50
		SEER		6.66	6.55	6.44
		Annual energy consumption	kWh	105	134	190
	Heating (Average climate)	Energy label		A++		
		Pdesign	kW	2.20	2.40	2.80
		SCOP/A		4.65	4.61	4.64
		Annual energy consumption	kWh	662	729	845
Nominal efficiency	EER			3.98	3.78	3.43
	COP			4.77	4.36	4.02
	Annual energy consumption			251	331	510

2-3 Technical Specifications					RX20K	RX25K	RX35K	RX50K	RX60K	RX71K
Capacity control	Method				Inverter controlled					-
Casing	Colour				Ivory white					
Dimensions	Unit	Height	mm	550			735			
		Width	mm	658			870			
		Depth	mm	275			320			
	Packed unit	Height	mm	616			810			
		Width	mm	790			1,055			
		Depth	mm	360			444			
Weight	Unit		kg	28			44	49		
	Packed unit		kg	31			48	53		
Packing	Weight		kg	3			4			
Heat exchanger	Length		mm	670		647	943	920		
	Rows	Quantity		1		2	1	2		
	Fin pitch		mm	1.4						
	Stages	Quantity		24			32			
	Tube type		ø7 Hi-XA				ø7 Hi-XD			
	Fin	Type		Waffle louvered fin					Waffle fin (PE)	
Compressor	Model			1YC23AUXDC			2YC36PXD			
	Type			Hermetically sealed swing compressor						
	Output		W	750			1,100			
Fan	Type			Propeller fan						Propeller
	Air flow rate	Cooling	High	m³/min	29.2		27.6	63.8	62.7	
				cfm	1,030		975	2,253	2,214	
			Super low	m³/min	-			51.3	-	
				cfm	-			1,812	-	
		Heating	High	m³/min	26.2		24.5	58.0	57.9	
				cfm	927		865	2,048	2,045	
	Super low		m³/min	-			51.3	-		
cfm	-			1,812	-					
Fan motor	Model			D50Q-28			D90B-37			
	Output			50			58			
	Speed	Cooling	High	rpm	840			710		
			Low	rpm	720			630		
			Super low	rpm	-					
		Heating	High	rpm	840			710	780	
			Low	rpm	720			630	680	
			Super low	rpm	-					
Sound power level	Cooling		dBA	60		62	61	63	66	
	Heating		dBA	61		62		63	66	
Sound pressure level	Cooling	High	dBA	46		48	47	49	52	
	Heating	High	dBA	47		48		49	52	

2 Specifications

2-3 Technical Specifications					RX20K	RX25K	RX35K	RX50K	RX60K	RX71K	
Operation range	Cooling	Ambient	Min.	°CDB	-10 (1)			-10			
			Max.	°CDB	46			-			
	Heating	Ambient	Min.	°CWB	-15			-			
			Max.	°CWB	18			-			
Refrigerant	Type				R-410A						
	Charge				kg	0.74	1.0	1.13	1.45		
					TCO ₂ eq	1.5	2.1	2.4	3.0		
	GWP				2,087.5						
Piping connections	Liquid	OD		mm	6.35						
	Gas	OD		mm	9.5			12.7			
	Drain	ID		mm	-						
		OD		mm	18			16			
	Piping length	OU - IU	Max.	m	15			30			
		System	Chargeless	m	10					-	
	Additional refrigerant charge				kg/m	0.02 (for piping length exceeding 10m)					
	Level difference	IU - OU	Max.	m	12			20			
	Heat insulation				-			Both liquid and gas pipes			
Refrigerant oil	Type				FVC50K						
	Charged volume				l	0.375			0.636		

Standard Accessories : Drain plug (only heat pump models); Quantity : 1;

Standard Accessories : Installation manual; Quantity : 1;

Standard Accessories : Refrigerant charge label; Quantity : 1;

Standard Accessories : Multilingual fluorinated greenhouse gases labels; Quantity : 1;

Standard Accessories : Drain cap; Quantity : 9;

2-4 Electrical Specifications				RX20K	RX25K	RX35K	RX50K	RX60K	RX71K
Power supply	Name			V1					
	Phase			1~					
	Frequency		Hz	50					
	Voltage		V	220-240					
Current - 50Hz	Maximum fuse amps (MFA)		A	16			20.0		-
Current	Nominal running current (RLA)	Cooling	A	-			6.11	7.21	11.67
		Heating	A	-			6.90	8.56	10.95
	Starting current	Cooling	A	3.0	3.7	5.2	7.00	9.9	
		Heating	A	3.0	3.7	5.2	7.00	9.9	
Current - 60Hz	Maximum fuse amps (MFA)		A	-					

Notes

(1) Operation range in combination with FTX-J3: min. 10°CDB ~ max. 46°CDB

Contains fluorinated greenhouse gases

SL: The silent fan level of the air flow rate setting

3 Electrical data

3 - 1 Electrical Data

RX20-35K

Unit combination restrictions		Power supply					COMP		OFM		IFM	
Indoor	Outdoor	1	2	3	MCA	MFA	RHz	RLA	kW	FLA	kW	FLA
FTX20J3	RX20K	50 50 50	220 230 240	MAX. 50Hz 264V MIN. 50Hz 198V	13,71	16	36	2,2	0,033	0,17	0,016	0,12
FTX25J3	RX25K	50 50 50	220 230 240	MAX. 50Hz 264V MIN. 50Hz 198V	13,71	16	48	3,2	0,033	0,17	0,016	0,12
FTX35J3	RX35K	50 50 50	220 230 240	MAX. 50Hz 264V MIN. 50Hz 198V	13,71	16	70	4,7	0,033	0,17	0,016	0,12

Notes

- 1 The ·RLA· is based on the following conditions.
Indoor temperature ·27·°C DB / ·19·°C WB
Outdoor temperature ·35·°C DB
- 2 Select the wire size according to the MCA.
- 3 The maximum allowable voltage that is unbalanced between phases is ·2·%.
- 4 Use a circuit breaker instead of a fuse.

Symbols

- 1 Hz
2 Voltage
3 Voltage range
MCA Minimum Circuit Ampere (A)
MFA Maximum Fuse Ampere (A)
RLA Rated load amps [A]

- OFM Outdoor fan motor
IFM Indoor fan motor
FLA Full Load Ampere (A)
kW Fan motor rated output [kW]
RHz Rated operating frequency [Hz]

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3 Electrical data

3 - 1 Electrical Data

RX20-35K

Unit combination restrictions		Power supply					COMP		OFM		IFM	
Indoor unit	Outdoor unit	Hz	Voltage	Voltage range	MCA	MFA	RHz	RLA	kW	FLA	kW	FLA
FTX20KV	RX20K2V1B	50	220 230 240	Max. 50Hz 264V Min. 50Hz 198V	14,00	16	36	2,20	0,033	0,17	0,022	0,20
FTX25KV	RX25K2V1B	50	220 230 240	Max. 50Hz 264V Min. 50Hz 198V	14,00	16	48	3,20	0,033	0,17	0,022	0,20
FTX35KV	RX35K2V1B	50	220 230 240	Max. 50Hz 264V Min. 50Hz 198V	14,00	16	70	4,70	0,033	0,17	0,028	0,23

Notes

- The RLA is based on the following conditions.
Indoor temperature 27°C DB / 19°C WB
Outdoor temperature 35°C DB
- Select the wire size according to the MCA.
- The maximum allowable voltage that is unbalanced between phases is 2%.
- Use a circuit breaker instead of a fuse.

Symbols

- MCA: Minimum Circuit Ampere (A)
MFA: Maximum Fuse Ampere (A)
RLA: Rated load amps [A]
OFM: Outdoor fan motor
IFM: Indoor fan motor
FLA: Full Load Ampere (A)
kW: Fan motor rated output [kW]
RHz: Rated operating frequency [Hz]

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3 Electrical data

3 - 1 Electrical Data

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RX50-71K

Unit combination restrictions		Power supply					COMP		OFM		IFM	
Indoor unit	Outdoor unit	Hz	Voltage	Voltage range	MCA	MFA	RHz	RLA	kW	FLA	kW	FLA
FTX50KV	RX50KV1B	50	220 230 240	Max. 50Hz 264V Min. 50Hz 198V	18,3	20	96	14,5	0,080	0,53	0,046	0,30
FTX60KV	RX60KV1B	50	220 230 240	Max. 50Hz 264V Min. 50Hz 198V	18,3	20	96	12,0	0,058	0,38	0,046	0,30
FTX71KV	RX71KV1B	50	220 230 240	Max. 50Hz 264V Min. 50Hz 198V	18,3	20	96	12,0	0,058	0,38	0,046	0,30

Notes

- The RLA is based on the following conditions.
Indoor temperature 27°C DB / 19°C WB
Outdoor temperature 35°C DB
- Select the wire size according to the MCA.
- The maximum allowable voltage that is unbalanced between phases is 2%.
- Use a circuit breaker instead of a fuse.

Symbols

- MCA: Minimum Circuit Ampere (A)
MFA: Maximum Fuse Ampere (A)
RLA: Rated load amps [A]
OFM: Outdoor fan motor
IFM: Indoor fan motor
FLA: Full Load Ampere (A)
kW: Fan motor rated output [kW]
RHz: Rated operating frequency [Hz]

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4 Capacity tables

4 - 1 Cooling/Heating Capacity Tables

FTX20J3 + RX20K

AFR	9,1
BF	0,24

Cooling 220-240V 50Hz

A	B	C																	
		20			25			30			32			35			40		
		TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
20	14	2,05	1,71	0,42	1,96	1,67	0,46	1,86	1,62	0,50	1,83	1,61	0,52	1,77	1,58	0,54	1,68	1,54	0,58
22	16	2,14	1,68	0,42	2,05	1,64	0,47	1,95	1,60	0,51	1,92	1,59	0,52	1,86	1,56	0,55	1,77	1,52	0,59
25	18	2,23	1,79	0,43	2,14	1,75	0,47	2,05	1,71	0,51	2,01	1,70	0,52	1,95	1,68	0,55	1,86	1,64	0,59
27	19	2,28	1,91	0,43	2,19	1,88	0,47	2,09	1,84	0,51	2,06	1,83	0,53	2,00	1,80	0,49	1,91	1,77	0,59
30	22	2,42	1,85	0,43	2,32	1,82	0,47	2,23	1,79	0,51	2,19	1,78	0,53	2,14	1,76	0,55	2,05	1,73	0,59
32	24	2,51	1,81	0,43	2,42	1,78	0,47	2,32	1,76	0,52	2,29	1,74	0,53	2,23	1,73	0,56	2,14	1,70	0,60

AFR	9,4
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Heating 220-240V 50Hz

A	D									
	-10		-5		0		6		10	
	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
15	1,68	0,50	1,97	0,52	2,25	0,55	2,59	0,58	2,81	0,60
20	1,60	0,51	1,88	0,54	2,16	0,56	2,50	0,59	2,73	0,61
22	1,56	0,52	1,84	0,54	2,13	0,57	2,47	0,60	2,69	0,61
24	1,53	0,52	1,81	0,55	2,09	0,57	2,43	0,60	2,66	0,62
25	1,51	0,53	1,79	0,55	2,07	0,57	2,41	0,60	2,64	0,62
27	1,48	0,53	1,76	0,56	2,04	0,58	2,38	0,61	2,61	0,63

Notes

- The capacities are based on the following conditions:
Corresponding refrigerant piping length: 5.0 m
Level difference: 0m
- The bold cells indicate the standard conditions.
Rated operating frequency [Hz]

Symbols

TC: Total capacity [kW]
PI: Power input [kW]
SHC: Sensible heat capacity [kW]
AFR: Air flow rate [m³/min]
BF: Bypass factor

- A Indoor air temperature [°C DB]
B Indoor air temperature [°C WB]
C Outdoor air temperature [°C DB]
D Outdoor air temperature [°C WB]

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4 Capacity tables

4 - 1 Cooling/Heating Capacity Tables

FTX20KV + RX20K

AFR	9,9
BF	0,22

Cooling 220-240V 50Hz

A	B	C																	
		20			25			30			32			35			40		
		TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
20	14	2,05	1,80	0,39	1,96	1,76	0,42	1,86	1,72	0,46	1,83	1,70	0,48	1,77	1,67	0,50	1,68	1,63	0,53
22	16	2,14	1,77	0,39	2,05	1,73	0,43	1,95	1,69	0,46	1,92	1,68	0,48	1,86	1,65	0,50	1,77	1,61	0,54
25	18	2,23	1,89	0,39	2,14	1,86	0,43	2,05	1,82	0,46	2,01	1,81	0,48	1,95	1,78	0,50	1,86	1,75	0,54
27	19	2,28	2,03	0,39	2,19	2,00	0,43	2,09	1,96	0,47	2,06	1,95	0,48	2,00	1,93	0,50	1,91	1,89	0,54
30	22	2,42	1,97	0,39	2,32	1,94	0,43	2,23	1,91	0,47	2,19	1,90	0,48	2,14	1,88	0,51	2,05	1,85	0,54
32	24	2,51	1,93	0,40	2,42	1,91	0,43	2,32	1,88	0,47	2,29	1,87	0,49	2,23	1,85	0,51	2,14	1,82	0,55

AFR	10,9
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Heating 220-240V 50Hz

A	D											
	-15		-10		-5		0		6		10	
	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
15	1,19	0,34	1,43	0,35	1,67	0,37	2,25	0,49	2,59	0,51	2,81	0,53
20	1,12	0,35	1,36	0,36	1,60	0,38	2,16	0,50	2,50	0,52	2,73	0,54
22	1,09	0,35	1,33	0,37	1,57	0,38	2,13	0,50	2,47	0,53	2,69	0,55
24	1,06	0,35	1,30	0,37	1,54	0,39	2,09	0,51	2,43	0,53	2,66	0,55
25	1,04	0,36	1,28	0,37	1,52	0,39	2,07	0,51	2,41	0,54	2,64	0,55
27	1,01	0,36	1,25	0,38	1,49	0,39	2,04	0,51	2,38	0,54	2,61	0,56

Notes

- The capacities are based on the following conditions:
Corresponding refrigerant piping length: 5.0 m
Level difference: 0m
- The bold cells indicate the standard conditions.
Rated operating frequency [Hz]

Symbols

TC: Total capacity [kW]

PI: Power input [kW]

SHC: Sensible heat capacity [kW]

AFR: Air flow rate [m³/min]

BF: Bypass factor

A Indoor air temperature [°C DB]

B Indoor air temperature [°C WB]

C Outdoor air temperature
[°C DB]

D Outdoor air temperature
[°C WB]

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4 Capacity tables

4 - 1 Cooling/Heating Capacity Tables

FTX25J3 + RX25K

AFR	9,2
BF	0,29

Cooling 220-240V 50Hz

A	B	C																	
		20			25			30			32			35			40		
		TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
20	14	2,15	1,72	0,52	2,15	1,72	0,58	2,15	1,72	0,65	2,15	1,72	0,68	2,15	1,72	0,72	2,10	1,69	0,78
22	16	2,68	1,89	0,56	2,56	1,83	0,62	2,44	1,78	0,67	2,40	1,76	0,69	2,33	1,72	0,73	2,21	1,67	0,78
25	18	2,79	1,98	0,57	2,68	1,93	0,62	2,56	1,88	0,67	2,51	1,86	0,70	2,44	1,83	0,73	2,33	1,78	0,78
27	19	2,85	2,09	0,57	2,73	2,04	0,62	2,62	1,99	0,68	2,57	1,97	0,70	2,50	1,94	0,70	2,38	1,90	0,78
30	22	3,02	2,02	0,57	2,91	1,97	0,63	2,79	1,93	0,68	2,74	1,91	0,70	2,67	1,89	0,73	2,56	1,85	0,79
32	24	3,14	1,96	0,58	3,02	1,92	0,63	2,90	1,89	0,68	2,86	1,87	0,71	2,79	1,85	0,74	2,67	1,81	0,79

AFR	9,7
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Heating 220-240V 50Hz

A	D									
	-10		-5		0		6		10	
	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
15	1,88	0,58	2,20	0,61	2,52	0,64	2,90	0,67	3,15	0,70
20	1,79	0,60	2,10	0,63	2,42	0,66	2,80	0,69	3,05	0,71
22	1,75	0,61	2,07	0,63	2,38	0,66	2,76	0,70	3,01	0,72
24	1,71	0,61	2,03	0,64	2,34	0,67	2,72	0,70	2,98	0,73
25	1,69	0,61	2,01	0,64	2,32	0,67	2,70	0,71	2,96	0,73
27	1,65	0,62	1,97	0,65	2,29	0,68	2,66	0,71	2,92	0,73

Notes

- The capacities are based on the following conditions:
Corresponding refrigerant piping length: 5.0 m
Level difference: 0m
- The bold cells indicate the standard conditions.
Rated operating frequency [Hz]

Symbols

TC: Total capacity [kW]
PI: Power input [kW]
SHC: Sensible heat capacity [kW]
AFR: Air flow rate [m³/min]
BF: Bypass factor

A Indoor air temperature [°C DB]
B Indoor air temperature [°C WB]
C Outdoor air temperature [°C DB]
D Outdoor air temperature [°C WB]

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4 Capacity tables

4 - 1 Cooling/Heating Capacity Tables

FTX25KV + RX25K

AFR	10,4
BF	0,22

Cooling 220-240V 50Hz

A	B	C																	
		20			25			30			32			35			40		
		TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
20	14	2,56	2,08	0,51	2,44	2,03	0,56	2,33	1,97	0,60	2,28	1,95	0,62	2,21	1,92	0,65	2,10	1,86	0,70
22	16	2,68	2,05	0,51	2,56	1,99	0,56	2,44	1,94	0,61	2,40	1,92	0,63	2,33	1,89	0,66	2,21	1,84	0,71
25	18	2,79	2,17	0,51	2,68	2,12	0,56	2,56	2,07	0,61	2,51	2,06	0,63	2,44	2,03	0,66	2,33	1,98	0,71
27	19	2,85	2,31	0,51	2,73	2,27	0,56	2,62	2,22	0,61	2,57	2,20	0,63	2,50	2,18	0,66	2,38	2,13	0,71
30	22	3,02	2,24	0,52	2,91	2,20	0,57	2,79	2,16	0,62	2,74	2,14	0,64	2,67	2,12	0,67	2,56	2,08	0,71
32	24	3,14	2,19	0,52	3,02	2,15	0,57	2,90	2,12	0,62	2,86	2,10	0,64	2,79	2,08	0,67	2,67	2,04	0,72

AFR	11,1
-----	------

Heating 220-240V 50Hz

A	D											
	-15		-10		-5		0		6		10	
	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
15	1,43	0,44	1,72	0,47	2,00	0,49	2,70	0,64	3,10	0,67	3,37	0,70
20	1,34	0,46	1,63	0,48	1,92	0,50	2,59	0,65	3,00	0,69	3,27	0,71
22	1,31	0,46	1,59	0,48	1,88	0,51	2,55	0,66	2,96	0,69	3,23	0,72
24	1,27	0,47	1,56	0,49	1,85	0,51	2,51	0,67	2,92	0,70	3,19	0,72
25	1,25	0,47	1,54	0,49	1,83	0,51	2,49	0,67	2,90	0,70	3,17	0,73
27	1,22	0,47	1,51	0,50	1,79	0,52	2,45	0,68	2,86	0,71	3,13	0,73

Notes

- The capacities are based on the following conditions:
Corresponding refrigerant piping length: 5.0 m
Level difference: 0m
- The bold cells indicate the standard conditions.
Rated operating frequency [Hz]

Symbols

TC: Total capacity [kW]
PI: Power input [kW]
SHC: Sensible heat capacity [kW]
AFR: Air flow rate [m³/min]
BF: Bypass factor

A Indoor air temperature [°C DB]
B Indoor air temperature [°C WB]
C Outdoor air temperature [°C DB]
D Outdoor air temperature [°C WB]

3D095240B

4 Capacity tables

4 - 1 Cooling/Heating Capacity Tables

FTX35J3 + RX35K

AFR	9,3
BF	0,25

Cooling 220-240V 50Hz

A	B	C																	
		20			25			30			32			35			40		
		TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
20	14	2,30	1,83	0,72	2,30	1,83	0,82	2,30	1,83	0,90	2,30	1,83	0,93	2,30	1,83	0,97	2,30	1,83	1,04
22	16	3,07	2,11	0,75	3,07	2,11	0,83	3,07	2,11	0,90	3,07	2,11	0,93	3,07	2,11	0,97	2,92	2,04	1,05
25	18	3,68	2,43	0,76	3,53	2,36	0,83	3,38	2,29	0,91	3,32	2,26	0,93	3,22	2,22	0,98	3,07	2,15	1,05
27	19	3,76	2,54	0,76	3,61	2,48	0,84	3,45	2,41	0,91	3,39	2,38	0,94	3,30	2,34	1,03	3,15	2,27	1,05
30	22	3,99	2,45	0,77	3,84	2,39	0,84	3,68	2,32	0,91	3,62	2,30	0,94	3,53	2,27	0,99	3,37	2,21	1,06
32	24	4,14	2,38	0,77	3,99	2,32	0,85	3,83	2,26	0,92	3,77	2,24	0,95	3,68	2,21	0,99	3,53	2,16	1,06

AFR	10,1
-----	------

Heating 220-240V 50Hz

A	D									
	-10		-5		0		6		10	
	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
15	2,36	0,79	2,75	0,82	3,15	0,86	3,62	0,91	3,94	0,94
20	2,24	0,81	2,63	0,85	3,03	0,88	3,50	0,93	3,82	0,96
22	2,19	0,82	2,58	0,85	2,98	0,89	3,45	0,94	3,77	0,97
24	2,14	0,82	2,53	0,86	2,93	0,90	3,40	0,95	3,72	0,98
25	2,11	0,83	2,51	0,87	2,90	0,90	3,38	0,95	3,70	0,98
27	2,07	0,84	2,46	0,88	2,86	0,91	3,33	0,96	3,65	0,99

Notes

- The capacities are based on the following conditions:
Corresponding refrigerant piping length: 5.0 m
Level difference: 0m
- The bold cells indicate the standard conditions.
Rated operating frequency [Hz]

Symbols

TC: Total capacity [kW]
PI: Power input [kW]
SHC: Sensible heat capacity [kW]
AFR: Air flow rate [m³/min]
BF: Bypass factor

A Indoor air temperature [°C DB]

B Indoor air temperature [°C WB]

C Outdoor air temperature
[°C DB]

D Outdoor air temperature
[°C WB]

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4 Capacity tables

4 - 1 Cooling/Heating Capacity Tables

FTX35KV + RX35K

AFR	11,8
BF	0,23

Cooling 220-240V 50Hz

A	B	C																	
		20			25			30			32			35			40		
		TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
20	14	3,59	2,69	0,78	3,42	2,61	0,86	3,26	2,53	0,93	3,19	2,50	0,96	3,10	2,45	1,01	2,93	2,37	1,08
22	16	3,75	2,65	0,79	3,58	2,57	0,86	3,42	2,49	0,94	3,36	2,47	0,97	3,26	2,42	1,01	3,10	2,35	1,09
25	18	3,91	2,78	0,79	3,75	2,71	0,87	3,58	2,64	0,94	3,52	2,61	0,97	3,42	2,57	1,02	3,26	2,50	1,09
27	19	3,99	2,93	0,79	3,83	2,86	0,87	3,66	2,80	0,94	3,60	2,77	0,97	3,50	2,73	1,02	3,34	2,67	1,10
30	22	4,23	2,83	0,80	4,07	2,77	0,88	3,90	2,71	0,95	3,84	2,69	0,98	3,74	2,65	1,03	3,58	2,59	1,10
32	24	4,39	2,76	0,81	4,23	2,70	0,88	4,07	2,65	0,96	4,00	2,63	0,99	3,90	2,59	1,03	3,74	2,54	1,11

AFR	12,8
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Heating 220-240V 50Hz

A	D											
	-15		-10		-5		0		6		10	
	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
15	1,90	0,64	2,29	0,67	2,67	0,71	3,60	0,92	4,14	0,97	4,50	1,01
20	1,79	0,66	2,17	0,69	2,56	0,72	3,46	0,95	4,00	1,00	4,36	1,03
22	1,74	0,67	2,12	0,70	2,51	0,73	3,40	0,95	3,94	1,00	4,31	1,04
24	1,69	0,67	2,08	0,71	2,46	0,74	3,35	0,96	3,89	1,01	4,25	1,05
25	1,67	0,68	2,05	0,71	2,44	0,74	3,32	0,97	3,86	1,02	4,22	1,05
27	1,62	0,68	2,01	0,72	2,39	0,75	3,26	0,98	3,81	1,03	4,17	1,06

Notes

- The capacities are based on the following conditions:
Corresponding refrigerant piping length: 5.0 m
Level difference: 0m
- The bold cells indicate the standard conditions.
Rated operating frequency [Hz]

Symbols

TC: Total capacity [kW]
PI: Power input [kW]
SHC: Sensible heat capacity [kW]
AFR: Air flow rate [m³/min]
BF: Bypass factor

A Indoor air temperature [°C DB]
B Indoor air temperature [°C WB]
C Outdoor air temperature [°C DB]
D Outdoor air temperature [°C WB]

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4 Capacity tables

4 - 1 Cooling/Heating Capacity Tables

4

FTX50KV + RX50K

Cooling 220-240V 50Hz

AFR	16,0
BF	0,27

1	2	3																	
		20			25			30			32			35			40		
		TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
20	14	5,12	3,71	1,07	4,89	3,59	1,18	4,66	3,47	1,28	4,56	3,42	1,32	4,42	3,35	1,38	4,19	3,24	1,48
22	16	5,35	3,64	1,08	5,12	3,53	1,18	4,89	3,42	1,28	4,79	3,38	1,33	4,65	3,31	1,39	4,42	3,20	1,49
25	18	5,58	3,80	1,08	5,35	3,70	1,19	5,12	3,59	1,29	5,02	3,55	1,33	4,88	3,49	1,39	4,65	3,39	1,50
27	19	5,70	3,99	1,09	5,47	3,89	1,19	5,23	3,79	1,29	5,14	3,75	1,34	5,00	3,70	1,40	4,77	3,60	1,50
30	22	6,04	3,85	1,10	5,81	3,76	1,20	5,58	3,67	1,30	5,49	3,63	1,34	5,35	3,58	1,41	5,11	3,50	1,51
32	24	6,27	3,74	1,10	6,04	3,66	1,21	5,81	3,58	1,31	5,72	3,55	1,35	5,58	3,50	1,41	5,34	3,42	1,52

Heating 220-240V 50Hz

AFR	16,7
-----	------

1	4											
	-15		-10		-5		0		6		10	
	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
15	2,86	1,02	3,43	1,07	4,01	1,12	5,39	1,47	6,21	1,54	6,75	1,60
20	2,68	1,04	3,26	1,10	3,83	1,15	5,19	1,50	6,00	1,58	6,54	1,63
22	2,61	1,06	3,19	1,11	3,76	1,16	5,10	1,52	5,92	1,59	6,46	1,65
24	2,54	1,07	3,12	1,12	3,69	1,17	5,02	1,53	5,83	1,61	6,38	1,66
25	2,51	1,07	3,08	1,13	3,66	1,18	4,98	1,54	5,79	1,61	6,33	1,67
27	2,43	1,08	3,01	1,14	3,59	1,19	4,90	1,55	5,71	1,63	6,25	1,68

Notes

- The capacities are based on the following conditions:
Corresponding refrigerant piping length: 5.0 m
Level difference: 0m
- The bold cells indicate the standard conditions.
Rated operating frequency [Hz]

Symbols

TC: Total capacity [kW]
PI: Power input [kW]
SHC: Sensible heat capacity [kW]
AFR: Air flow rate [m³/min]
BF: Bypass factor

- Indoor air temperature [°C DB]
- Indoor air temperature [°C WB]
- Outdoor air temperature [°C DB]
- Outdoor air temperature [°C WB]

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4 Capacity tables

4 - 1 Cooling/Heating Capacity Tables

FTX60KV + RX60K

AFR	17,6
BF	0,27

Cooling 220-240V 50Hz

1	2	3																	
		20			25			30			32			35			40		
		TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
20	14	6,15	4,35	1,26	5,87	4,20	1,38	5,59	4,05	1,50	5,48	4,00	1,55	5,31	3,91	1,63	5,03	3,77	1,75
22	16	6,42	4,27	1,27	6,14	4,13	1,39	5,86	4,00	1,51	5,75	3,94	1,56	5,59	3,86	1,63	5,31	3,73	1,75
25	18	6,70	4,44	1,28	6,42	4,31	1,40	6,14	4,18	1,52	6,03	4,13	1,57	5,86	4,05	1,64	5,58	3,93	1,76
27	19	6,84	4,65	1,28	6,56	4,52	1,40	6,28	4,40	1,52	6,17	4,35	1,57	6,00	4,28	1,64	5,72	4,16	1,77
30	22	7,25	4,47	1,29	6,97	4,36	1,41	6,69	4,25	1,53	6,58	4,21	1,58	6,41	4,14	1,65	6,14	4,04	1,78
32	24	7,53	4,34	1,30	7,25	4,24	1,42	6,97	4,14	1,54	6,86	4,10	1,59	6,69	4,04	1,66	6,41	3,94	1,78

Heating 220-240V 50Hz

AFR	18,9
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1	4											
	-15		-10		-5		0		6		10	
	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
15	3,33	1,24	4,01	1,31	4,68	1,37	6,29	1,79	7,24	1,89	7,87	1,95
20	3,13	1,28	3,80	1,34	4,47	1,40	6,05	1,83	7,00	1,93	7,63	1,99
22	3,05	1,29	3,72	1,35	4,39	1,42	5,95	1,85	6,90	1,95	7,54	2,01
24	2,96	1,30	3,64	1,37	4,31	1,43	5,86	1,87	6,81	1,96	7,44	2,03
25	2,92	1,31	3,59	1,37	4,27	1,44	5,81	1,88	6,76	1,97	7,39	2,04
27	2,84	1,32	3,51	1,39	4,18	1,45	5,71	1,89	6,66	1,99	7,29	2,05

Notes

- The capacities are based on the following conditions:
Corresponding refrigerant piping length: 5.0 m
Level difference: 0m
- The bold cells indicate the standard conditions.
Rated operating frequency [Hz]

Symbols

TC: Total capacity [kW]
PI: Power input [kW]
SHC: Sensible heat capacity [kW]
AFR: Air flow rate [m³/min]
BF: Bypass factor

- Indoor air temperature [°C DB]
- Indoor air temperature [°C WB]
- Outdoor air temperature [°C DB]
- Outdoor air temperature [°C WB]

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4 Capacity tables

4 - 1 Cooling/Heating Capacity Tables

FTX71KV + RX71K

AFR	17,6
BF	0,27

Cooling 220-240V 50Hz

1	2	3																	
		20			25			30			32			35			40		
		TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
20	14	7,28	5,14	2,09	6,95	4,97	2,29	6,61	4,79	2,49	6,48	4,73	2,57	6,28	4,62	2,70	5,95	4,46	2,90
22	16	7,60	5,05	2,11	7,27	4,88	2,31	6,93	4,73	2,50	6,80	4,66	2,59	6,61	4,56	2,70	6,28	4,41	2,90
25	18	7,93	5,25	2,12	7,60	5,10	2,32	7,27	4,94	2,52	7,14	4,88	2,60	6,93	4,79	2,72	6,60	4,65	2,92
27	19	8,09	5,50	2,12	7,76	5,34	2,32	7,43	5,20	2,52	7,30	5,14	2,60	7,10	5,06	2,72	6,77	4,92	2,94
30	22	8,58	5,28	2,14	8,25	5,15	2,34	7,92	5,02	2,54	7,79	4,98	2,62	7,58	4,89	2,74	7,27	4,78	2,95
32	24	8,91	5,13	2,16	8,58	5,01	2,36	8,25	4,89	2,55	8,12	4,85	2,64	7,92	4,78	2,75	7,58	4,66	2,95

AFR	18,9
-----	------

Heating 220-240V 50Hz

1	4											
	-15		-10		-5		0		6		10	
	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
15	3,90	1,65	4,70	1,74	5,48	1,82	7,37	2,38	8,48	2,52	9,22	2,60
20	3,67	1,70	4,45	1,78	5,24	1,86	7,09	2,44	8,20	2,57	8,94	2,65
22	3,57	1,72	4,36	1,80	5,14	1,89	6,97	2,46	8,08	2,60	8,83	2,68
24	3,47	1,73	4,26	1,82	5,05	1,90	6,86	2,49	7,98	2,61	8,72	2,70
25	3,42	1,74	4,21	1,82	5,00	1,92	6,81	2,50	7,92	2,62	8,66	2,72
27	3,33	1,76	4,11	1,85	4,90	1,93	6,69	2,52	7,80	2,65	8,54	2,73

Notes

- The capacities are based on the following conditions:
Corresponding refrigerant piping length: 5.0 m
Level difference: 0m
- The bold cells indicate the standard conditions.
Rated operating frequency [Hz]

Symbols

TC: Total capacity [kW]
PI: Power input [kW]
SHC: Sensible heat capacity [kW]
AFR: Air flow rate [m³/min]
BF: Bypass factor

- Indoor air temperature [°C DB]
- Indoor air temperature [°C WB]
- Outdoor air temperature [°C DB]
- Outdoor air temperature [°C WB]

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5 - 1 Dimensional Drawings

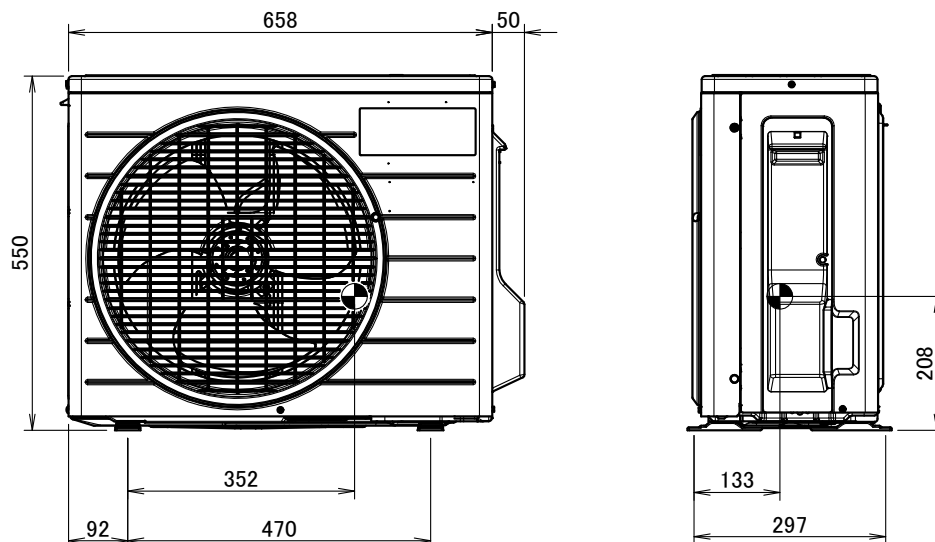


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6 Centre of gravity

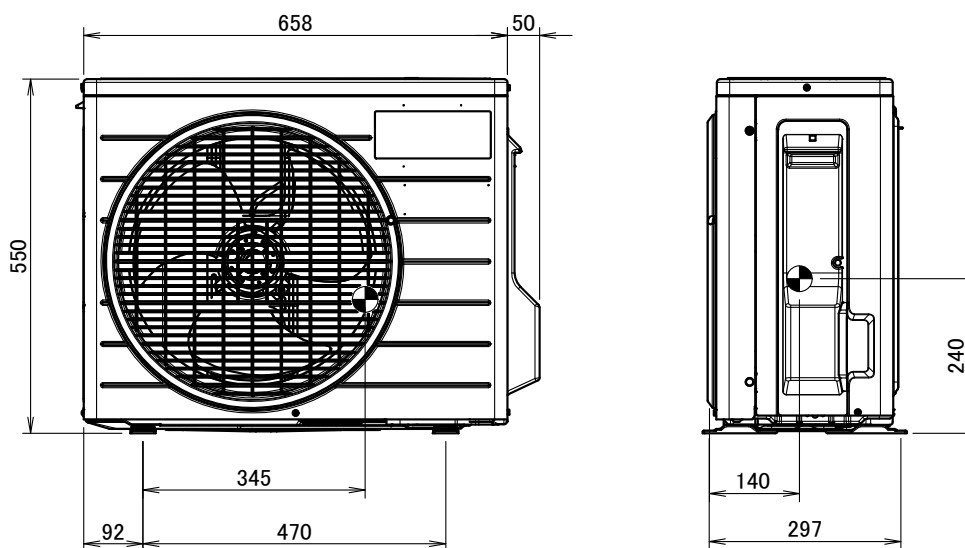
6 - 1 Centre of Gravity

RX20-25K



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RX35K

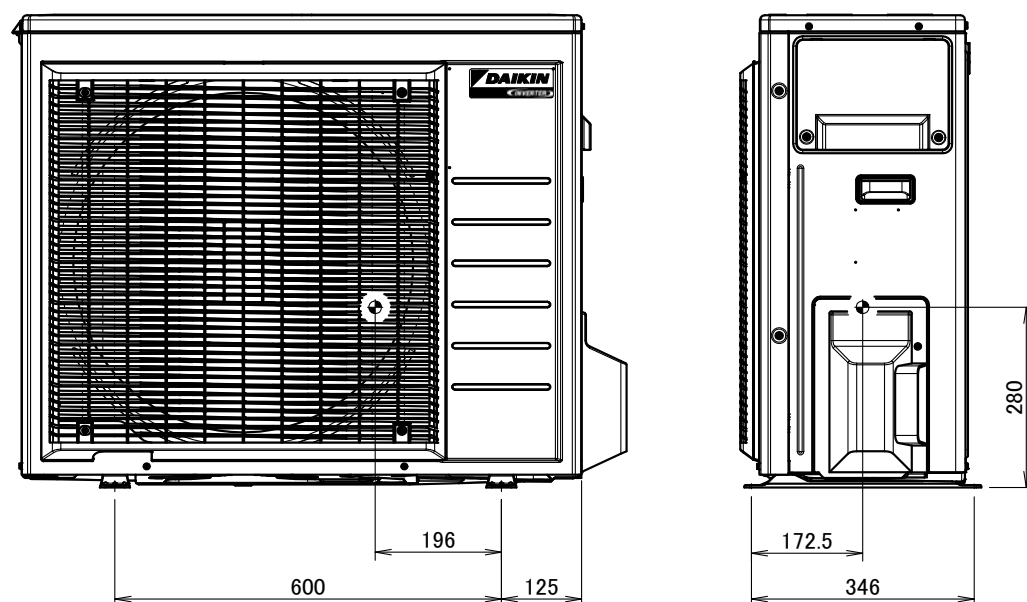


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6 Centre of gravity

6 - 1 Centre of Gravity

RX50-71K

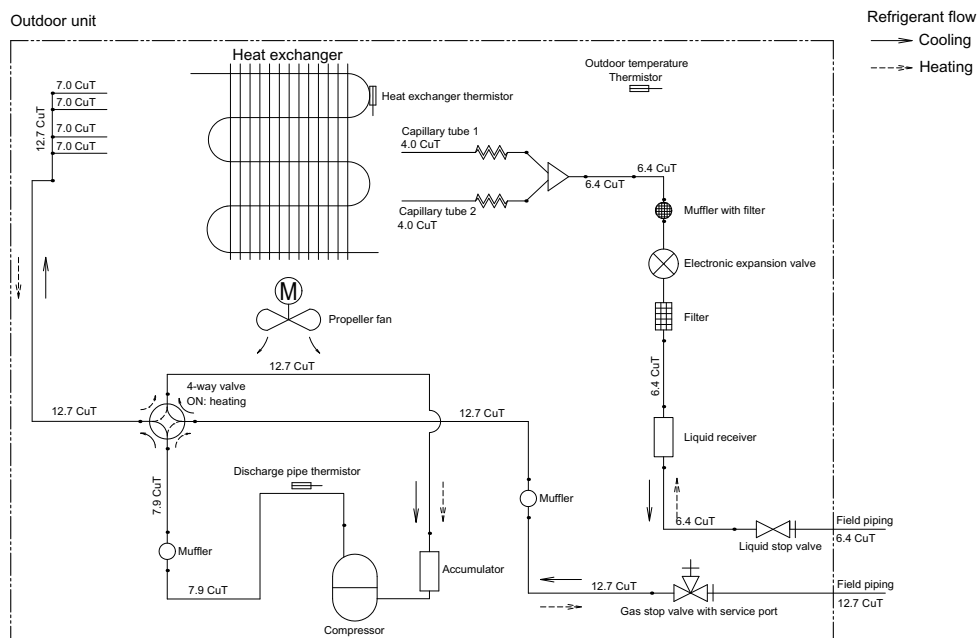


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7 Piping diagrams

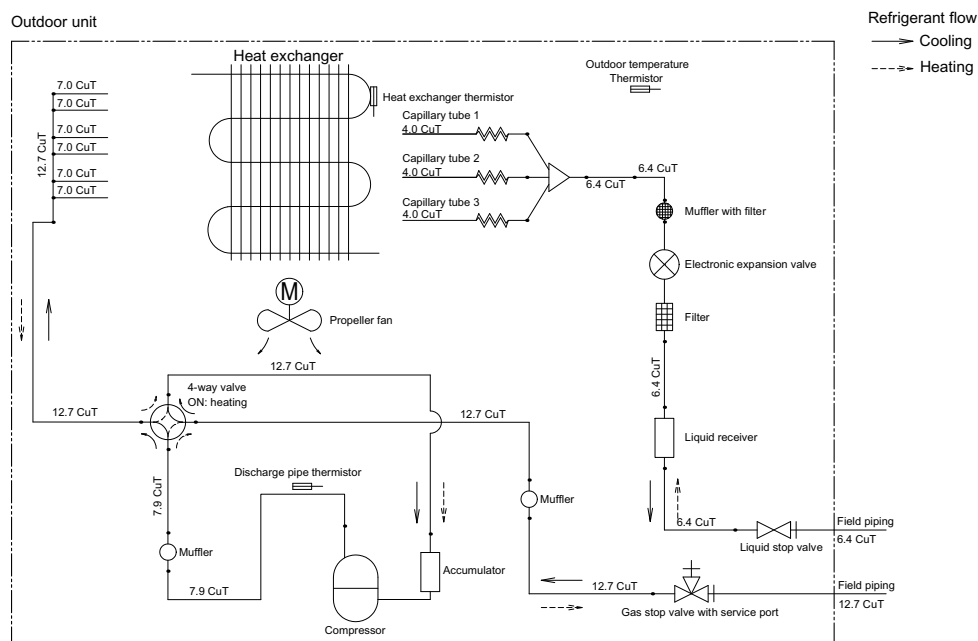
7 - 1 Piping Diagrams

RX50K



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RX60-71K

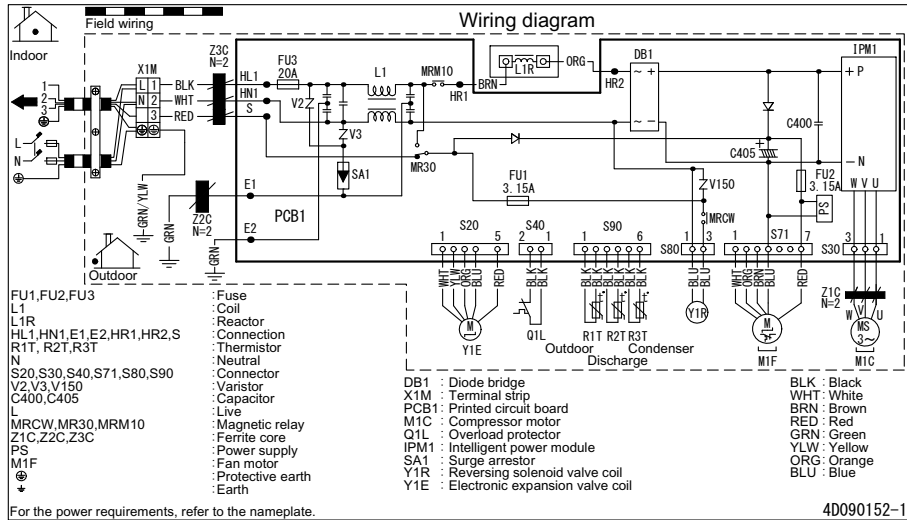


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8 Wiring diagrams

8 - 1 Wiring Diagrams - Single Phase

RX20-35K

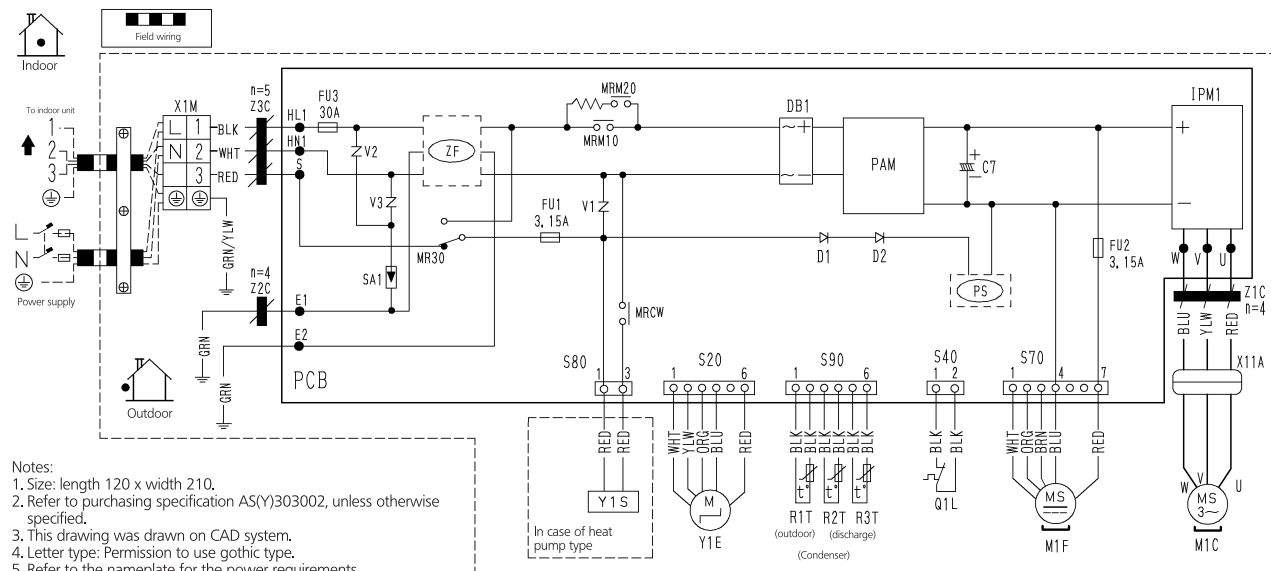


Notes

1. Size: length 80 X width 140.
2. Refer to purchasing specification AS303002, unless otherwise specified.

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RX50-71K



C7 : Capacitor
DB1 : Diode bridge
FU1,FU2,FU3 : Fuse
IPM1 : Intelligent power module
L : Live
N : Neutral
M1C (MS 3~) : Compressor motor
M1F (MS) : Fan motor
MR10,MR20 : Magnetic relay
MR30,MRCW : Pulse amplitude modulation
PAM : Noise filter
ZF : Noise filter

PCB : Printed circuit board
PS : Switching power supply
Q1L : Overload protector
R1T,R2T,R3T : Thermistor
S80,S90,X11A : Connector
SA1 : Surge absorber
V1,V2,V3 : Varistor
X1M : Terminal block
Y1E (M) : Electronic expansion valve coil

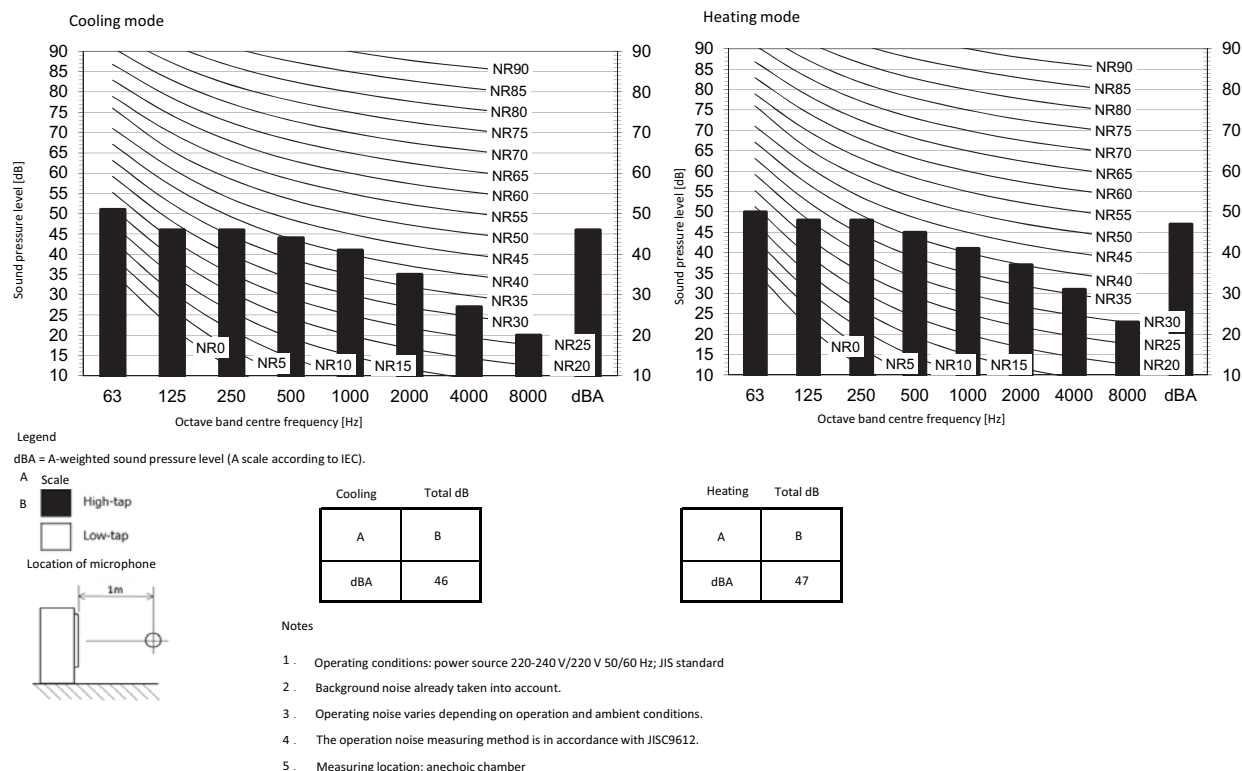
Y1S : Reversing solenoid valve coil
Z1C,Z2C,Z3C : Ferrite core
n=4, n=5 : Number of passes trough ferrite core
D1, D2 : Diode
E1,E2,S,HL1 : Connection
HN1,W,V,U : Protective earth
⊕ : Earth

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9 Sound data

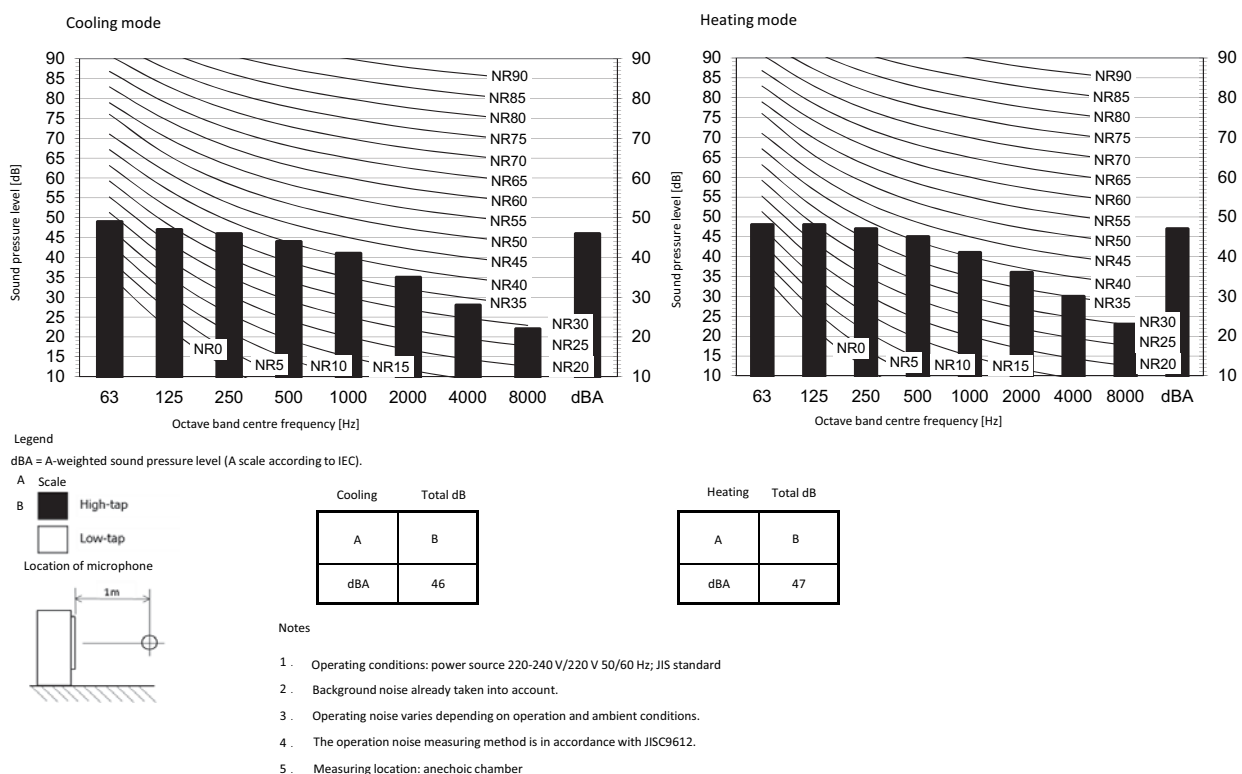
9 - 1 Sound Pressure Spectrum

RX20K



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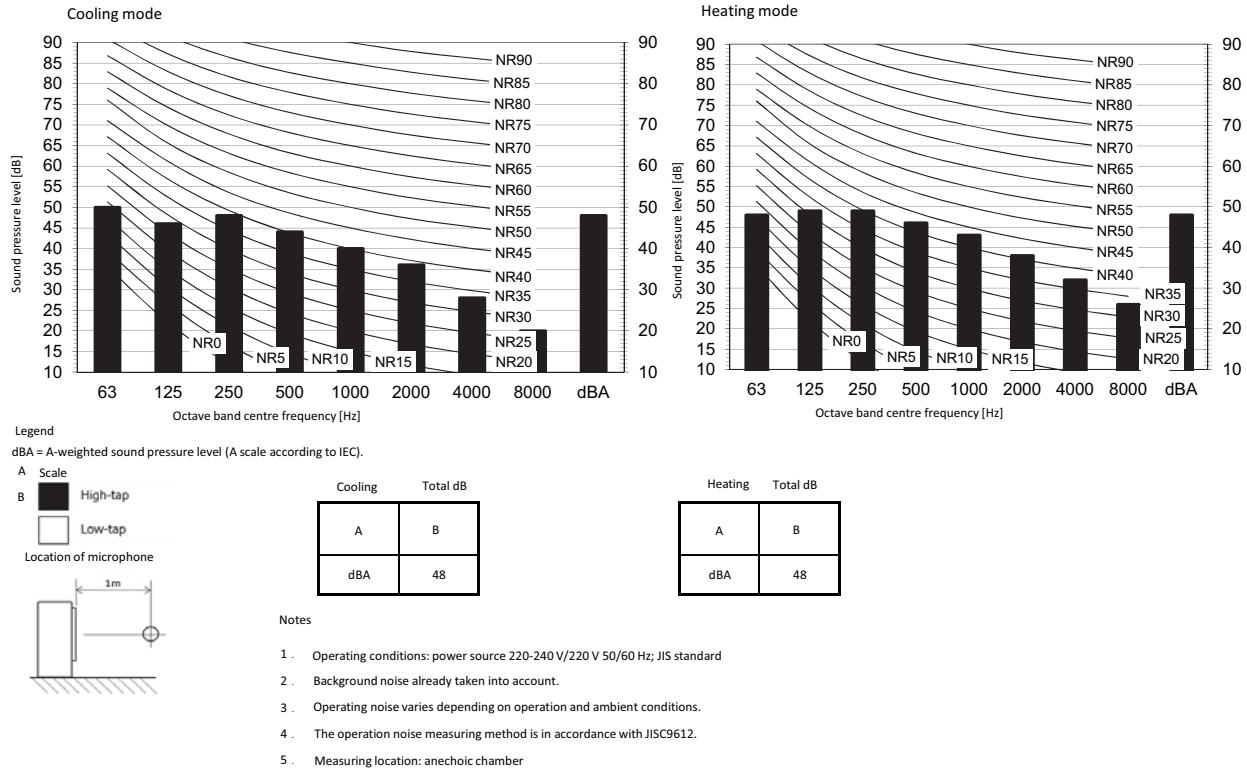
RX25K



3D092073B

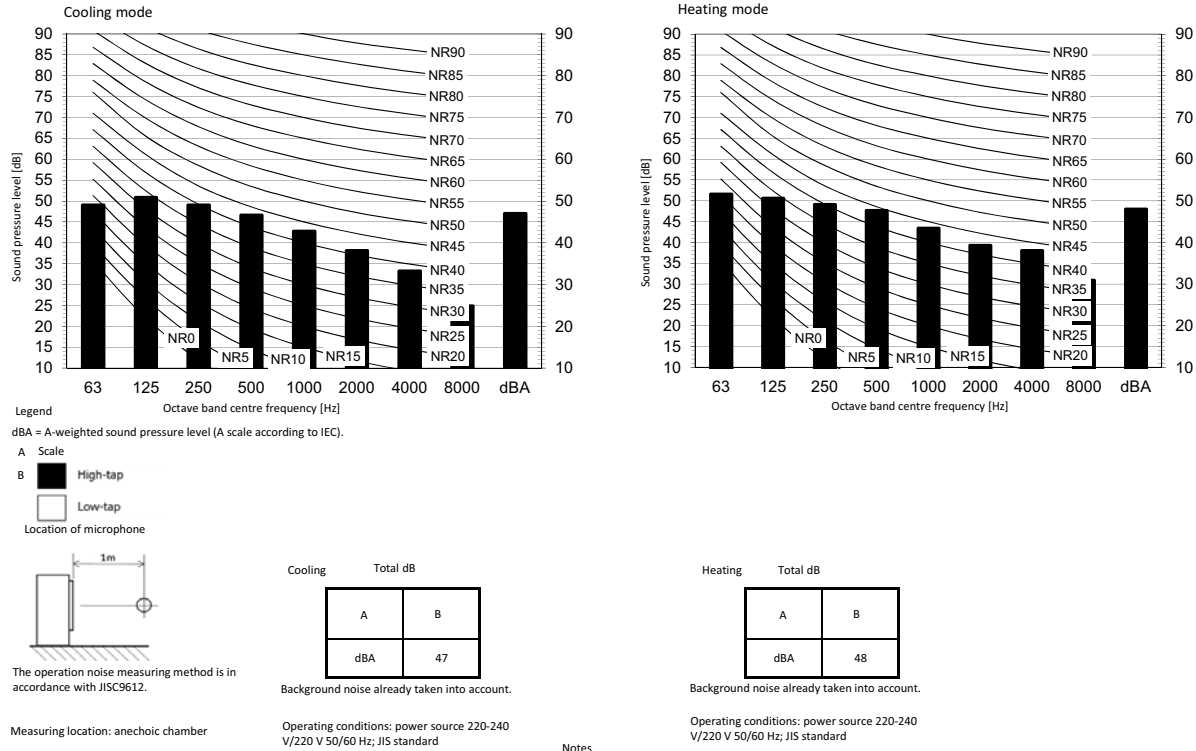
9 Sound data
9 - 1 Sound Pressure Spectrum

RX35K



3D092074B

RX50K



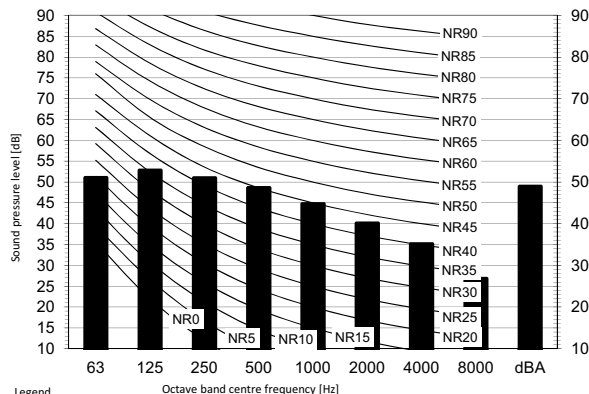
3D095162

9 Sound data

9 - 1 Sound Pressure Spectrum

RX60K

Cooling mode



Legend

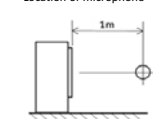
dBA = A-weighted sound pressure level (A scale according to IEC).

A Scale

B High-tap

Low-tap

Location of microphone



The operation noise measuring method is in accordance with JISC9612.

Measuring location: anechoic chamber

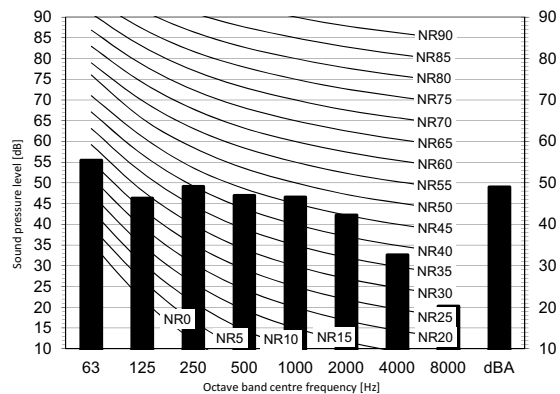
Cooling

Total dB	
A	B
dBA	49

Background noise already taken into account.

Operating conditions: power source 220-240 V/220 V 50/60 Hz; JIS standard

Heating mode



Heating

Total dB	
A	B
dBA	49

Background noise already taken into account.

Operating conditions: power source 220-240 V/220 V 50/60 Hz; JIS standard

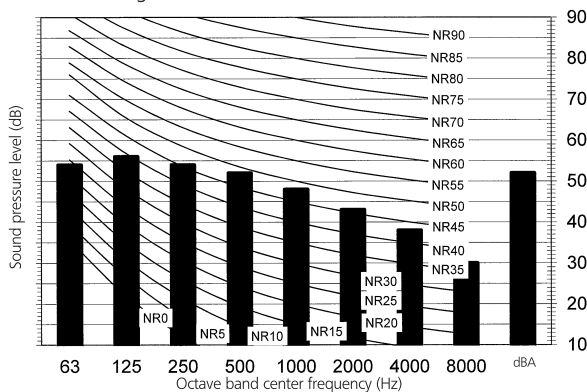
Notes

- 1 Operating noise varies depending on operation and ambient conditions.

3D095163

RX71K

Cooling mode



Total dB	A	B
Cooling	dBA	52
Heating	dBA	52

Legend

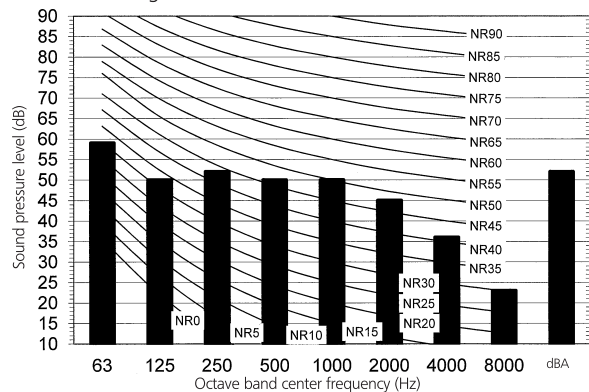
dBA = A-weighted sound pressure level (A-scale according to IEC).

A Scale

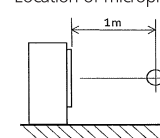
B High-tap

Low-tap

Heating mode



Location of microphone:



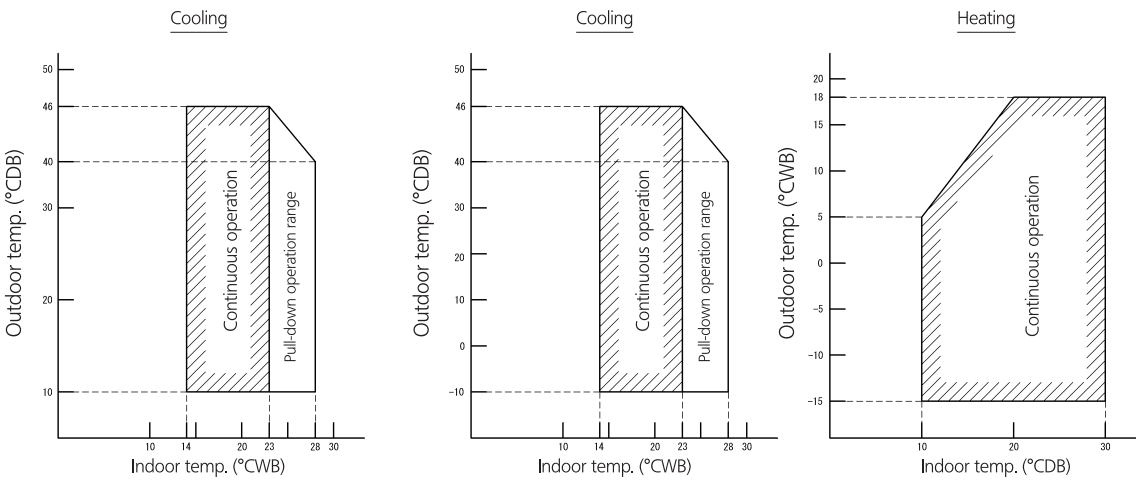
Notes

- 1 Background noise already taken into account.
- 2 Operation conditions: Power source 220-240V/220V 50/60Hz; JIS standard
- 3 Operation noise differs with operation and ambient conditions.
- 4 The operation noise measuring method is in accordance with JISC9612
- 5 Measuring location: Anechoic chamber

3D099434

10 **Operation range**
10 - 1 **Operation Range**

RX20-35K



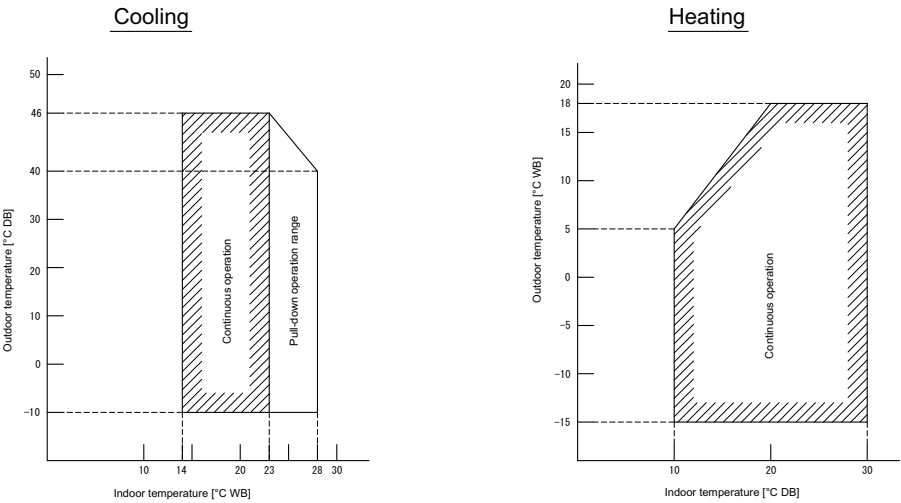
The above is the value for connecting with the following indoor units:
FTX20J3V1B, FTX25J3V1B, FTX35J3V1B,
ATX20J3V1B, ATX25J3V1B, ATX35J3V1B

The above is the value for connecting with the following indoor units:
FTX20KV1B, FTX25KV1B, FTX35KV1B,
ATX20KV1B, ATX25KV1B, ATX35KV1B
FTX20K2V1B, FTX25K2V1B, FTX35K2V1B
ATX20K2V1B, ATX25K2V1B, ATX35K2V1B

- Notes:**
The graphs are based on the following conditions:
- Corresponding refrigerant piping length 5 m
 - Level difference 0 m
 - Air flow rate high

3D090678D

RX50-71K

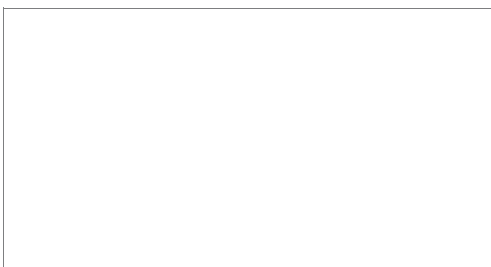


- Notes**
1 The graphs is based on the following conditions.
- Corresponding refrigerant piping length: 5 m
 - Level difference: 0m
 - Air flow rate High

3D094149B



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