



Air Conditioning

Technical Data



EEDEN15-100

RX-K

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RX-K

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1 Features

- SEER / SCOP up to A++
- 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	143	188
	Heating (Average climate)	Energy label		A+		
		Pdesign	kW	2.20	2.40	2.80
		SCOP		4.34	4.16	4.14
		Annual energy consumption	kWh	710	808	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
Ecolabel logo				no		
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	FTX20K/RX20K	FTX25K/RX25K	FTX35K/RX35K	FTX50K/RX50K	FTX60K/RX60K
Indoor unit	FTX20K	FTX25K	FTX35K	FTX50K	FTX60K
Outdoor unit	RX20K	RX25K	RX35K	RX50K	RX60K

2 Specifications

2-2 Capacity and Power input				FTX20K/RX20K		FTX25K/RX25K		FTX35K/RX35K		FTX50K/RX50K		FTX60K/RX60K	
Cooling capacity	Min.		kW	1.3						1.7			
			Btu/h	4,400						5,800			
			kcal/h	1,120						1,460			
	Nom.		kW	2.0 (1)		2.5 (1)		3.5 (1)		5.0 (1)		6.0 (1)	
			Btu/h	6,800 (1)		8,500 (1)		11,900 (1)		17,100 (1)		20,500 (1)	
			kcal/h	1,720 (1)		2,150 (1)		3,010 (1)		4,300 (1)		5,160 (1)	
	Max.		kW	2.6		3.0		4.0		6.0		7.0	
			Btu/h	8,900		10,200		13,600		20,500		23,900	
kcal/h			2,240.0		2,580		3,440		5,160		6,020		
Heating capacity	Min.		kW	1.3						1.7			
			Btu/h	4,400						5,800			
			kcal/h	1,120						1.46		1,460	
	Nom.		kW	2.5 (1)		3.0 (1)		4.0 (1)		6.0 (1)		7.0 (1)	
			Btu/h	8,500 (1)		10,200 (1)		13,600 (1)		20,500 (1)		23,900 (1)	
			kcal/h	2,150 (1)		2,580 (1)		3,440 (1)		5,160 (1)		6,020 (1)	
	Max.		kW	3.5		4.0		4.8		7.7		8.0	
			Btu/h	11,900		13,600		16,400		26,300		27,300	
kcal/h			3,010		3,440		4,130		6,620		6,880		
Power input	Cooling	Min.	kW	0.310			0.290		0.295				
		Nom.	kW	0.503 (1)		0.661 (1)		1.020 (1)		1.397 (1)		1.644 (1)	
		Max.	kW	0.720			1.3		1.542		2.255		
	Heating	Min.	kW	0.250			0.290		0.329		0.381		
		Nom.	kW	0.524 (1)		0.688 (1)		0.995 (1)		1.579 (1)		1.929 (1)	
		Max.	kW	0.950			1.290		1.565		2.380		
Seasonal efficiency (according to EN14825)	Cooling	Energy label		A++									
		Pdesign	kW	2.00		2.50		3.50		5.00		6.00	
		SEER		6.66		6.55		6.44		6.59		6.76	
		Annual energy consumption	kWh	106		134		191		266		311	
	Heating (Average climate)	Energy label		A++						A+			
		Pdesign	kW	2.20		2.40		2.80		4.60		4.80	
		SCOP		4.65		4.61		4.64		4.10			
		Annual energy consumption	kWh	663		729		845		1,570		1,640	
Piping connections	Liquid	OD	mm	6.35									
	Gas	OD	mm	9.5						12.7			
	Drain	OD	mm	18						16			
	Heat insulation			Both liquid and gas pipes									
Current	Nominal running current (RLA) - 50Hz	Cooling	A	2.47		3.25		5.42		6.35		7.37	
		Heating	A	2.67		3.50		5.0		7.16		8.59	
Ecolabel logo				no									
Nominal efficiency	EER			3.98 (2)		3.78 (2)		3.4 (2)		3.58 (2)		3.65 (2)	
	COP			4.77 (2)		4.36 (2)		4.0 (2)		3.80 (2)		3.63 (2)	
	Annual energy consumption		kWh	251		331		510		698		822	
	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

2-3 Technical Specifications				RX20K	RX25K	RX35K	RX50K	RX60K
Capacity control	Method			Inverter controlled				
Casing	Colour			Ivory white				

2 Specifications

2-3 Technical Specifications					RX20K		RX25K		RX35K		RX50K		RX60K	
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									
	Model				1YC23AUXDC					2YC36PXD				
Compressor	Type			Hermetically sealed swing compressor										
	Output			W		750				1,100				
Fan	Type				Propeller fan									
	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			W		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	-											
Cooling			dBA		60			62		61		63		
Sound power level	Heating			dBA		61			62			63		
	Cooling		High		dBA		46			48		47		49
Sound pressure level	Heating		High		dBA		47			48			49	
	Operation range	Cooling	Ambien t	Min.	°CDB	-10					-10			
Max.				°CDB	46									
Heating		Ambien t	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									
Refrigerant oil	Type				FVC50K									
	Charged volume			l		0.375					0.636			

2 Specifications

2

2-3 Technical Specifications					RX20K	RX25K	RX35K	RX50K	RX60K
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	

2-4 Electrical Specifications				RX20K	RX25K	RX35K	RX50K	RX60K
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
		Heating	A	-			6.90	8.56
	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

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

RX-K

Unit combination restrictions		Power supply					COMP		OFM		IFM	
Indoor	Outdoor	A	B	C	MCA	MFA	RHz	RLA	kW	FLA	kW	FLA
FTX20K	RX20K	50 50 50	220 230 240	MAX. 50Hz 264V MIN. 50Hz 198V	14, 0	16	36	2, 2	33	0, 17	22	0, 20
FTX25K	RX25K	50 50 50	220 230 240	MAX. 50Hz 264V MIN. 50Hz 198V	14, 0	16	48	3, 2	33	0, 17	22	0, 20
FTX35K	RX35K	50 50 50	220 230 240	MAX. 50Hz 264V MIN. 50Hz 198V	14, 0	16	70	4, 7	33	0, 17	28	0, 23
FTX50K	RX50K	50 50 50	220 230 240	MAX. 50Hz 264V MIN. 50Hz 198V	18, 3	20, 0	96	14, 5	80	0, 53	46	0, 30
FTX60K	RX60K	50 50 50	220 230 240	MAX. 50Hz 264V MIN. 50Hz 198V	18, 3	20, 0	96	12, 0	58	0, 38	46	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

A Hz
B Voltage
C 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]

3D095153

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

- 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

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]

3D092100A

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]

3D091956B

4 Capacity tables

4 - 1 Cooling/Heating Capacity Tables

4

FTX20K + 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]

3D095239A

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
-----	-----

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]

3D091957B

4 Capacity tables

4 - 1 Cooling/Heating Capacity Tables

FTX25K + 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]

3D095240A

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]

3D091958B

4 Capacity tables

4 - 1 Cooling/Heating Capacity Tables

FTX35K + 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
-----	------

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]

3D095241A

4 Capacity tables

4 - 1 Cooling/Heating Capacity Tables

FTX50KV1B + RX50KV1B

AFR	16,0
BF	0,27

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	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

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

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	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

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

3D095242

4 Capacity tables

4 - 1 Cooling/Heating Capacity Tables

4

FTX60KV1B + RX60KV1B

AFR	17,6
BF	0,27

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	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

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

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	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

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

3D095243

5 - 1 Dimensional Drawings

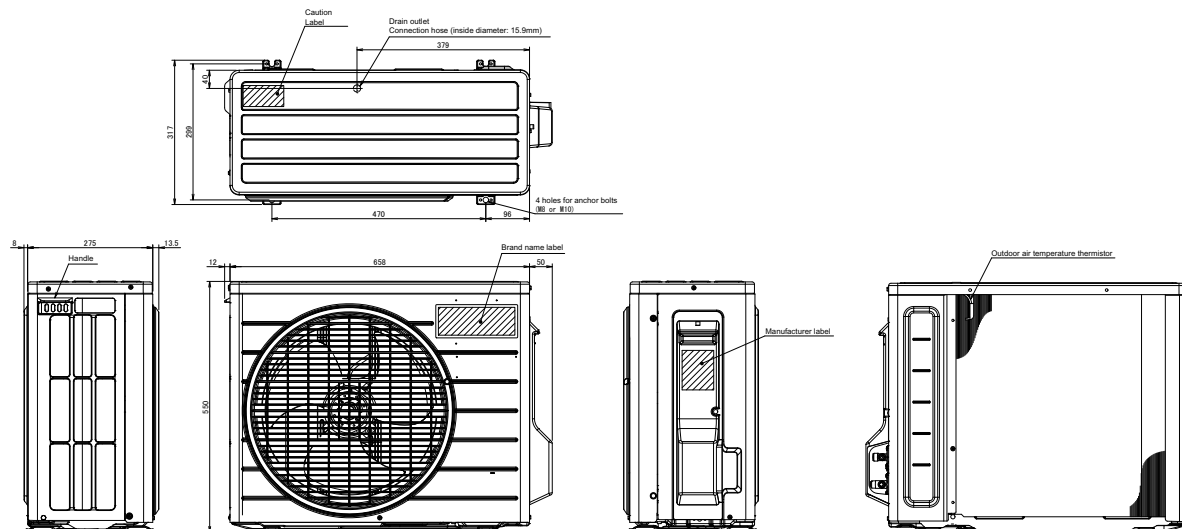


Diagram of the rear panel of the refrigerator showing internal components and dimensions:

- Wiring intake
- Liquid stop valve (2/8.4CuT)
- Gas stop valve (2/9.5CuT)
- Service port
- Dimensions: 155 (width), 108 (height), 168 (height)

2D090672R

Technical drawings of the AUA 12000 air conditioning unit, including dimensions and labels:

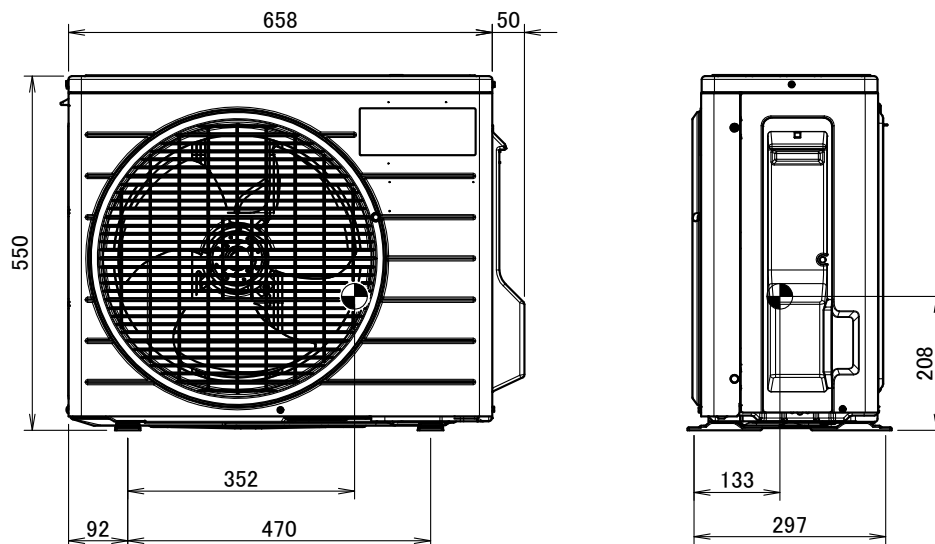
- Front View:** Shows the unit's dimensions: 7 (top left), 320 (top left), 30 (top right), 14 (top left), 870 (top), 70 (top right), 734 (left), and 70 (right). Labels include "Handle" and "Brand name label".
- Side View:** Shows the unit's dimensions: 14.5 (top), 11 (top), 348 (middle), 368 (bottom), and 11 (bottom). Labels include "Wiring intake area", "Manufacturer label", and "Pitch of foundation bolt holes".
- Top View:** Shows the unit's dimensions: 600 (top), 125 (top right), 291 (left), 525 (bottom), and 4 (bottom left). Labels include "4 holes for anchor bolts M8 or M10" and "Drain outlet".
- Bottom View:** Shows the unit's dimensions: 19 (top), 23 (bottom), and 19 (bottom). Label includes "Outdoor air temperature thermistor".
- Detail View:** Shows the unit's dimensions: 165 (top), 105 (top), 173 (bottom), and 173 (bottom). Labels include "Terminal strip with earth terminal", "Liquid stop valve ø6.4 CuT", "Gas stop valve ø12.7 CuT", and "Service port".
- Installation Notes:**
 - Minimum space for air passage
 - Wall height on air outlet side < 1200 mm
 - Connection hose (inside diameter: 15.9mm)

3D094308

6 Centre of gravity

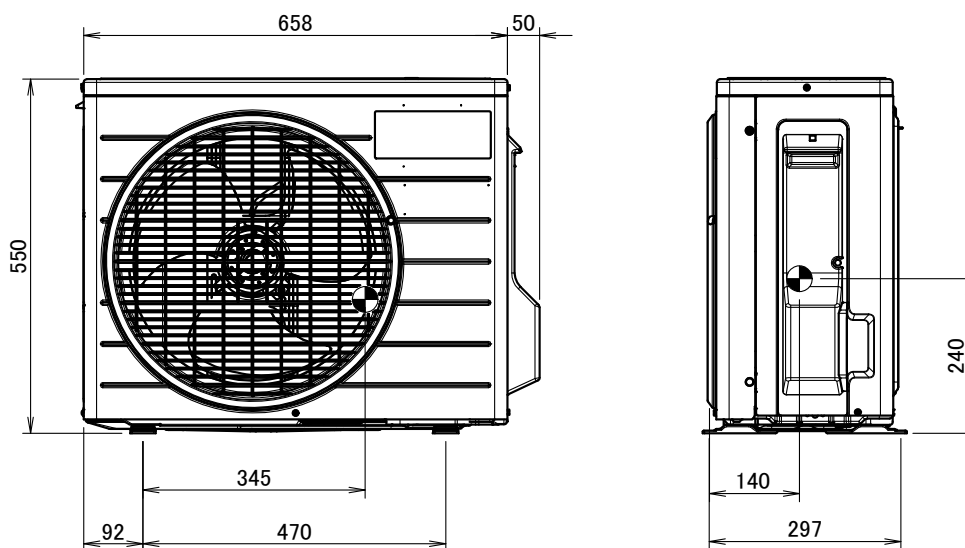
6 - 1 Centre of Gravity

RX20-25K



4D092001B

RX35K

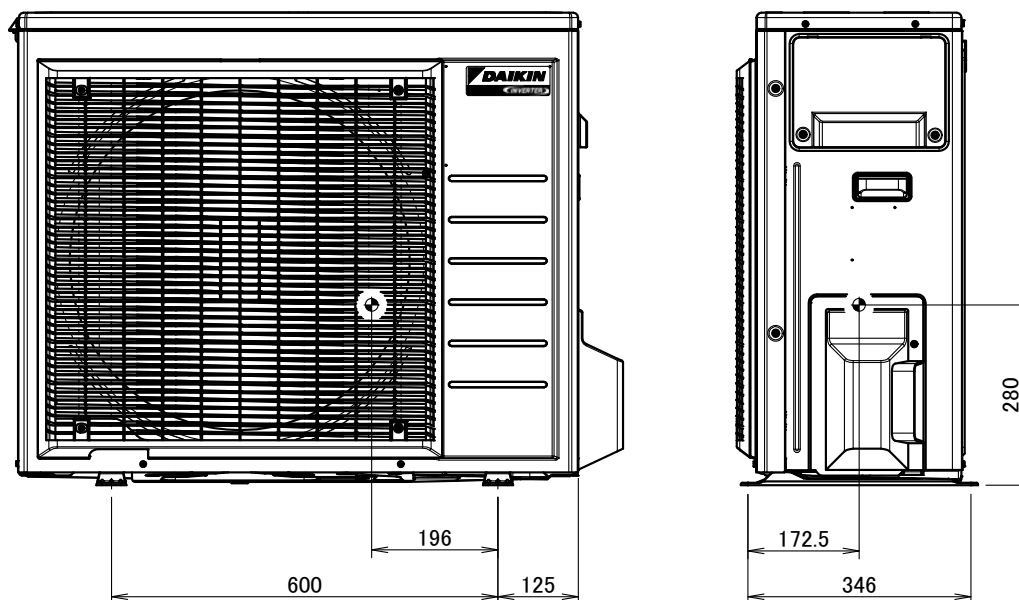


4D092003B

6 Centre of gravity

6 - 1 Centre of Gravity

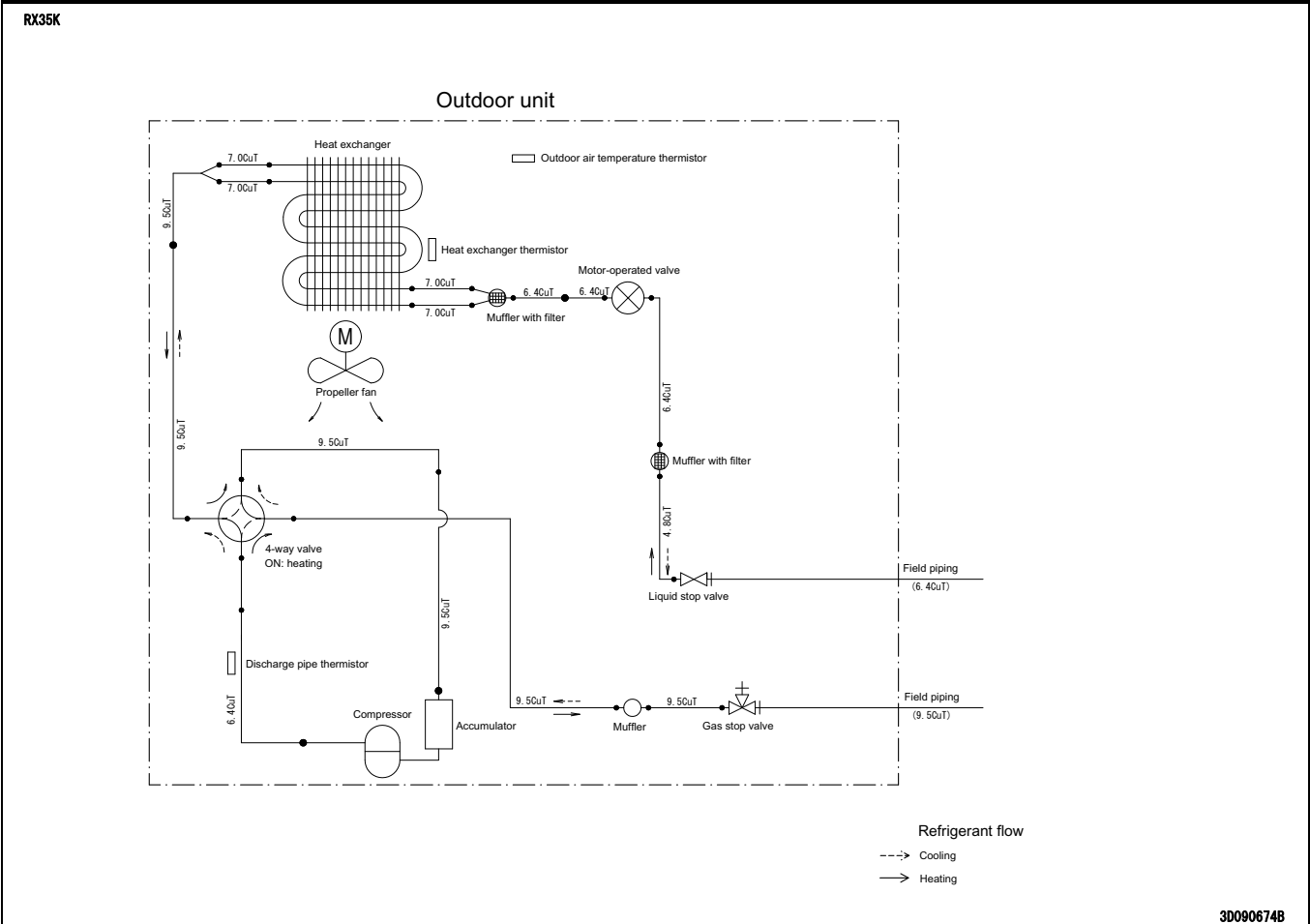
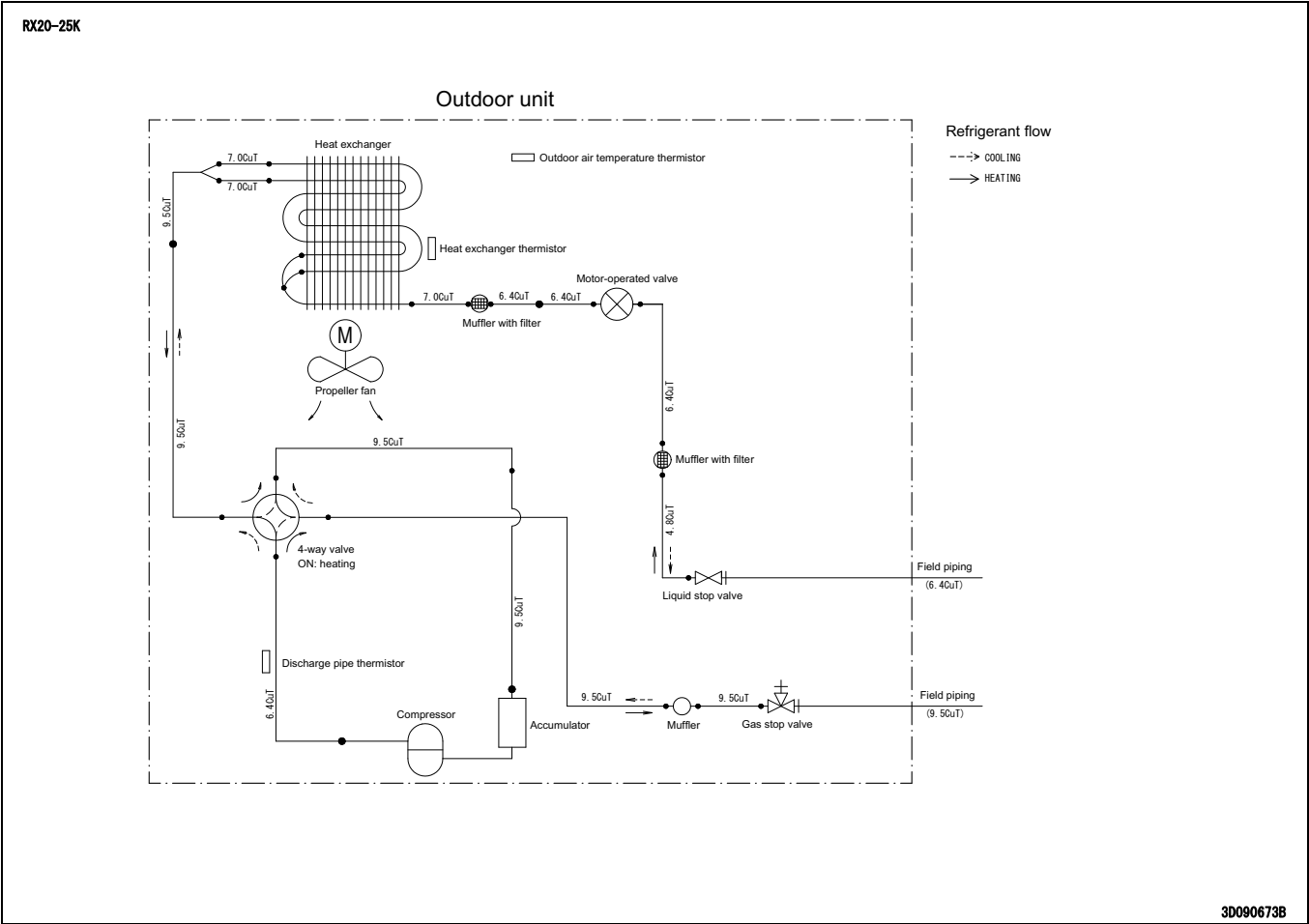
RX50-60K



4D094436

7 Piping diagrams

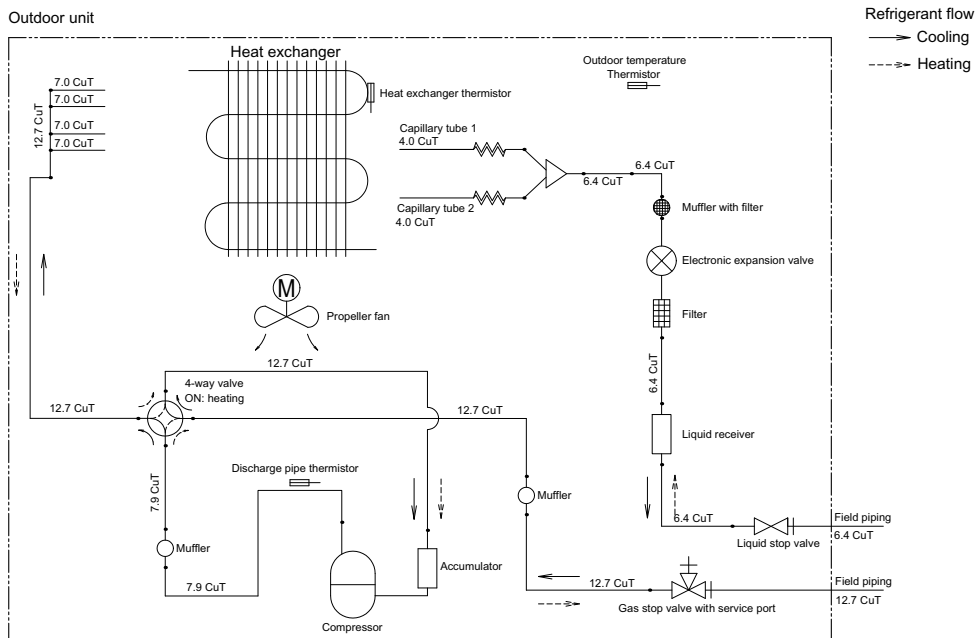
7 - 1 Piping Diagrams



7 Piping diagrams

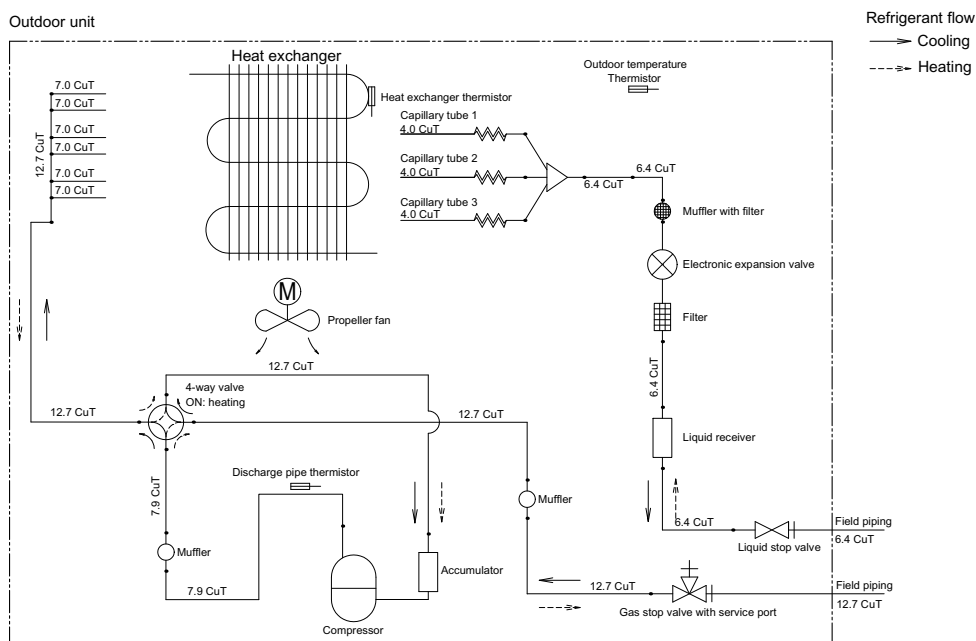
7 - 1 Piping Diagrams

RX50K



3D094281

RX60K

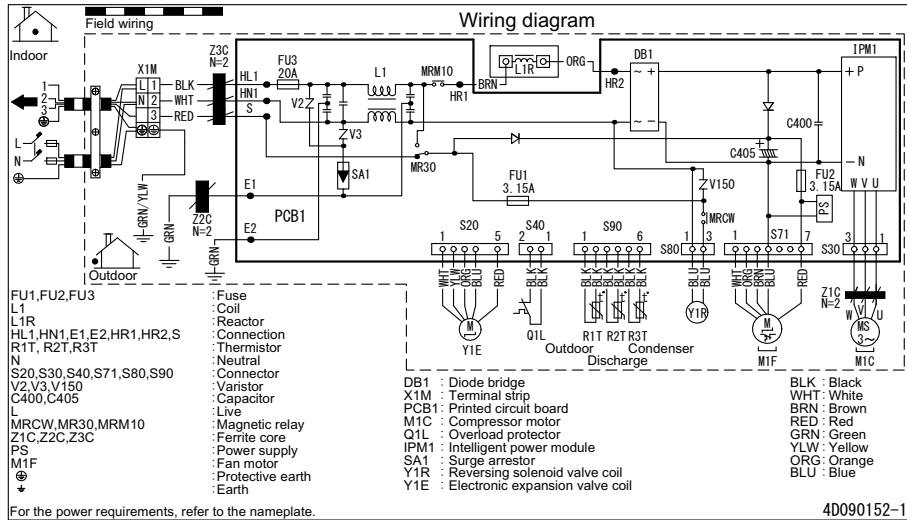


3D094282

8 Wiring diagrams

8 - 1 Wiring Diagrams - Single Phase

RX20-35K

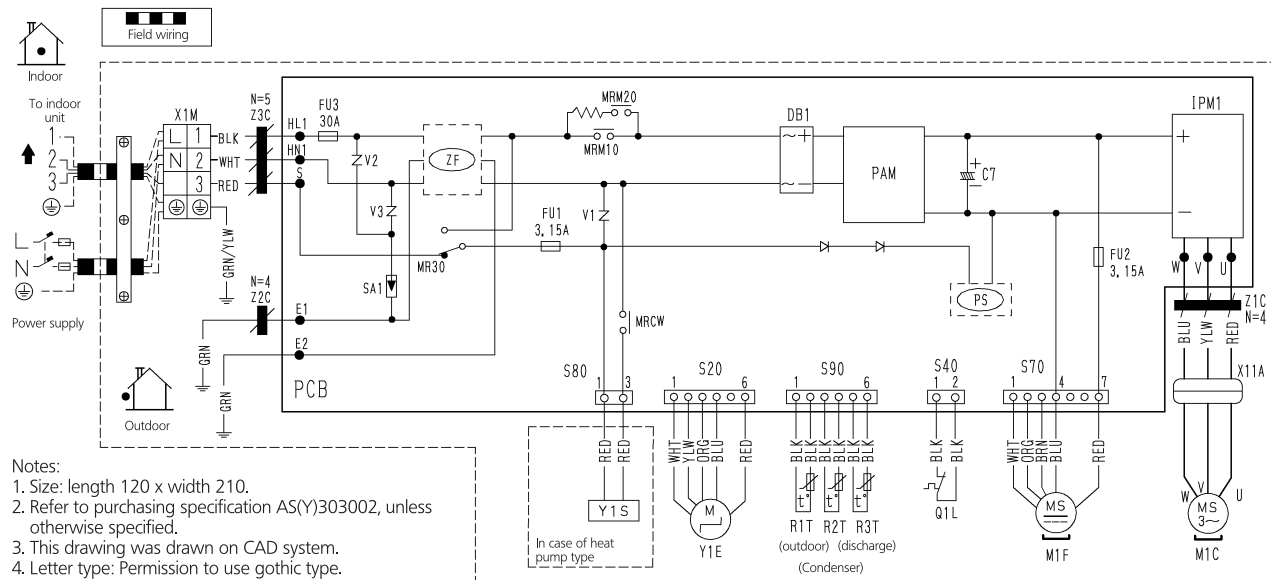


Notes

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

4D090152

RX50-60K



- Notes:
- Size: length 120 x width 210.
 - Refer to purchasing specification AS(Y)303002, unless otherwise specified.
 - This drawing was drawn on CAD system.
 - Letter type: Permission to use gothic type.
 - Refer to the nameplate for the power requirements.

C7 : Capacitor
DB1 : Diode bridge
FU1, FU2, FU3 : Fuse
IPM1 : Intelligent power module
L : Live
N : Neutral
M1C : Compressor motor
M1F : Fan motor
MRM10, MRM20, MR30, MRCW : Magnetic relay

PAM : Pulse amplitude modulation
PCB : Printed circuit board
PS : Switching power supply
Q1L : Overload protector
R1T, R2T, R3T : Thermistor
S20, S40, S70, S80, S90, X11A : Connector

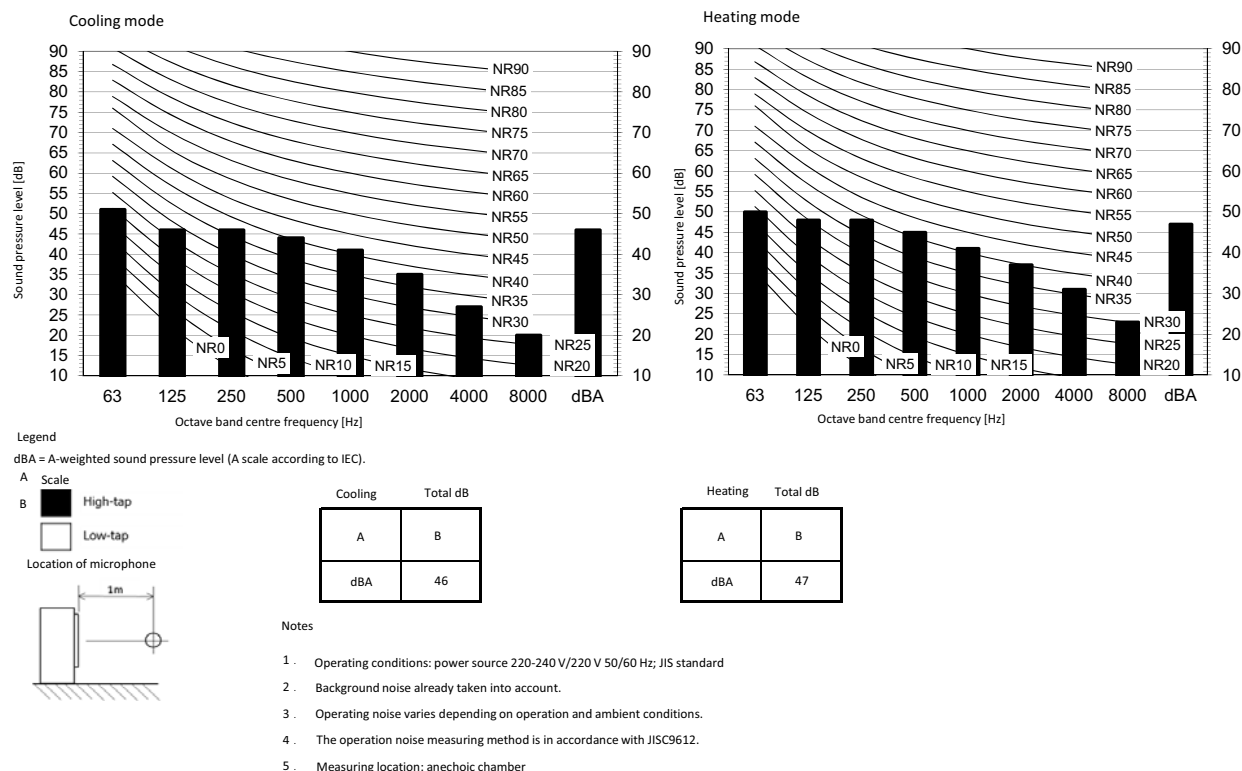
SA1 : Surge absorber
V1, V2, V3 : Varistor
X1M : Terminal block
Y1E : Electronic expansion valve coil
Y1S : Reversing solenoid valve coil
Z1C, Z2C, Z3C : Ferrite core
ZF : Noise filter
⊕ : Protective earth
⊕ : Earth

3D093353

9 Sound data

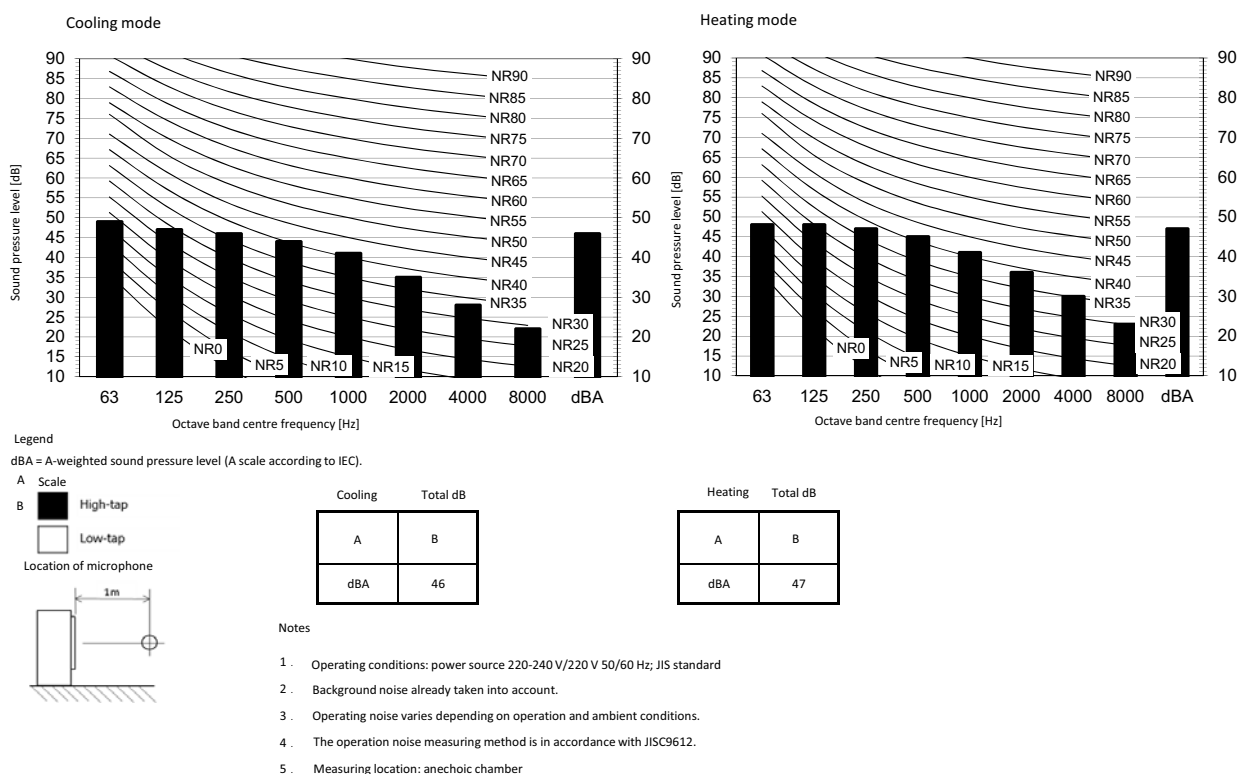
9 - 1 Sound Pressure Spectrum

RX20K



3D092072A

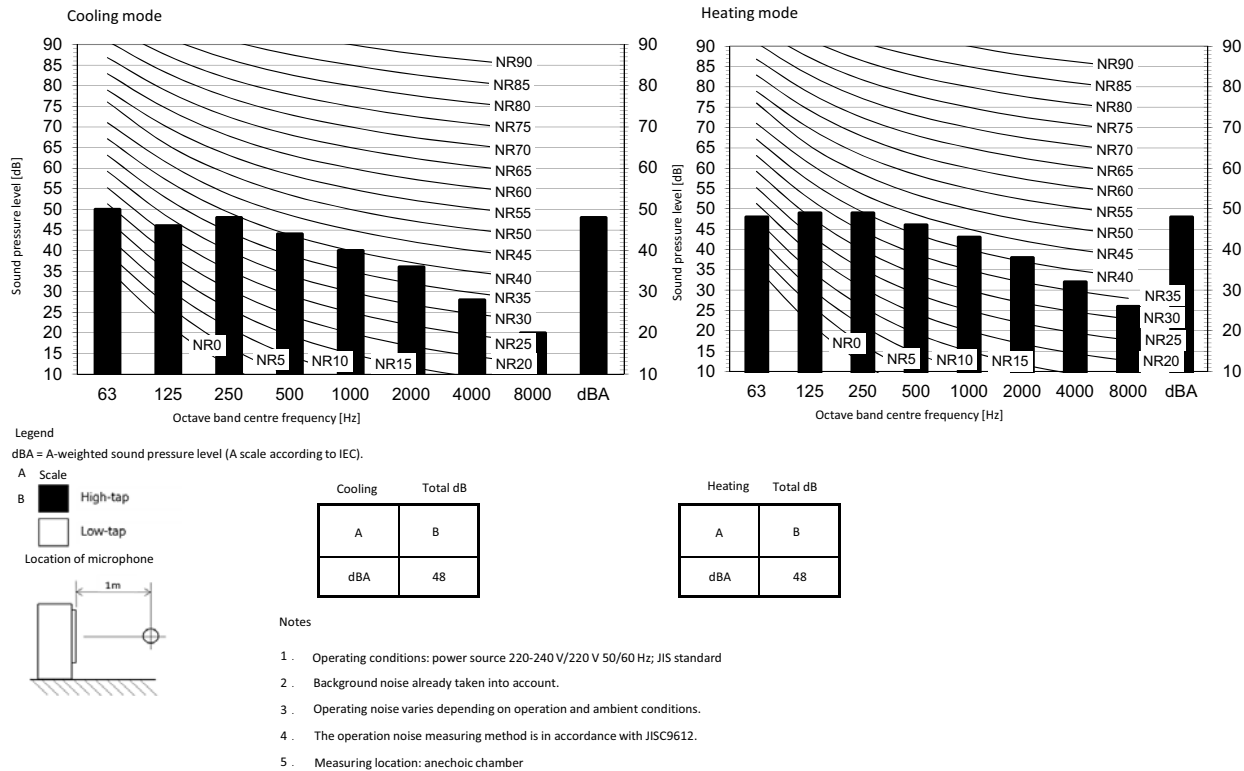
RX25K



3D092073A

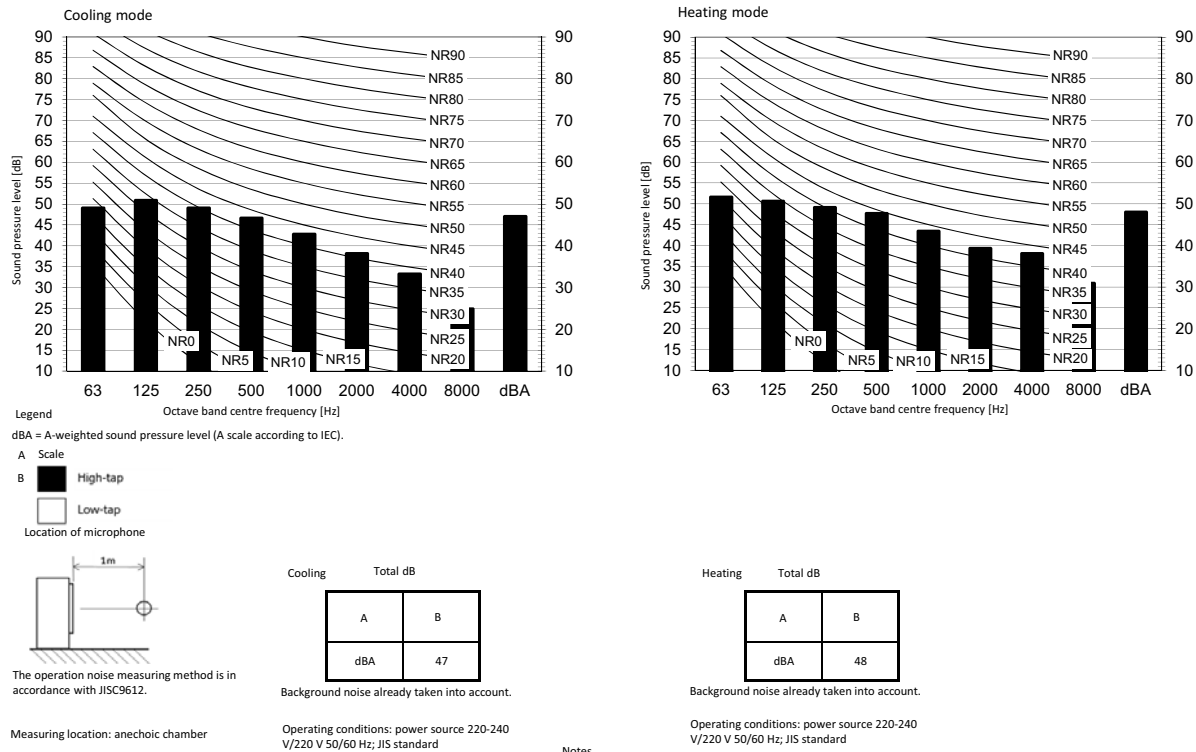
9 Sound data
9 - 1 Sound Pressure Spectrum

RX35K



3D092074A

RX50K

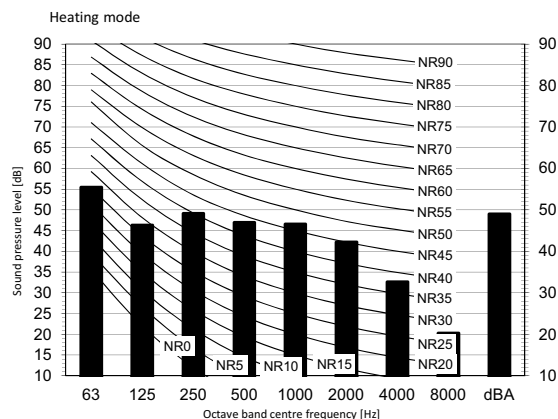
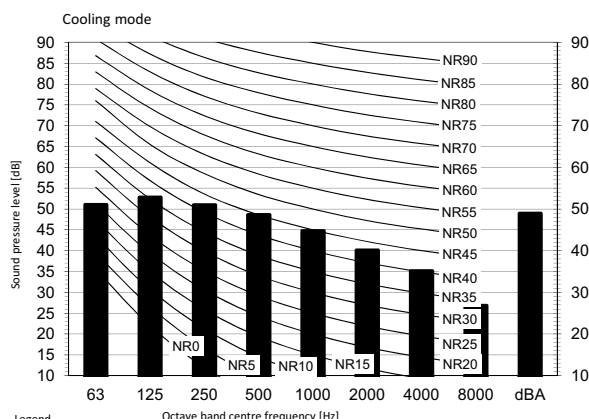


3D095162

9 Sound data

9 - 1 Sound Pressure Spectrum

RX60K



Legend

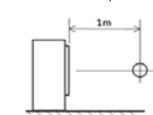
dBA = A-weighted sound pressure level (A scale according to IEC).

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	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		Total dB	
A	B	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

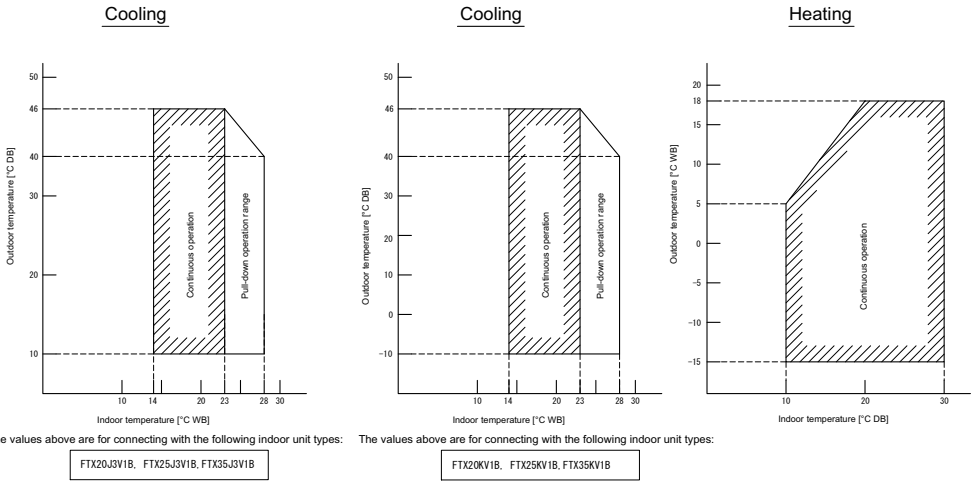
- Operating noise varies depending on operation and ambient conditions.

3D095163

10 Operation range

10 - 1 Operation Range

RX20-35K



Notes

1. The graphs is based on the following conditions.

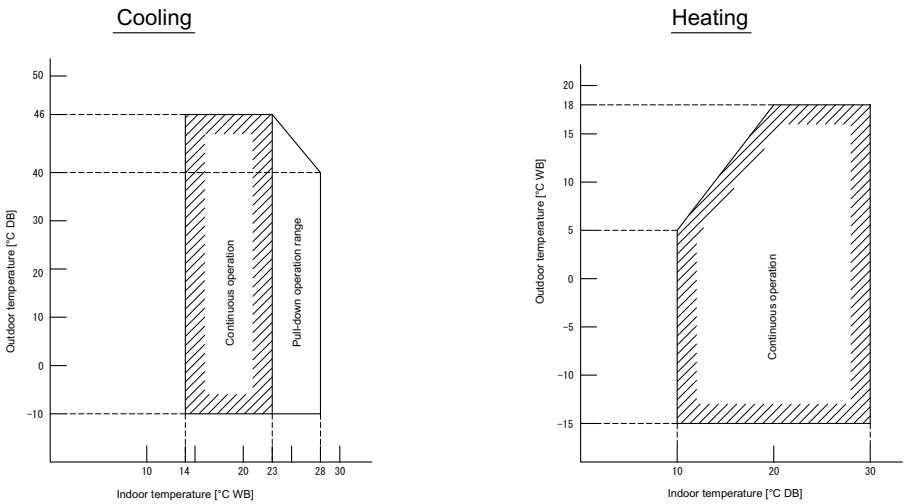
Corresponding refrigerant piping length: 5 m

Level difference: 0m

Air flow rate High

3D090678C

RX50-60K



Notes

1. The graphs is based on the following conditions.

Corresponding refrigerant piping length: 5 m

Level difference: 0m

Air flow rate High

3D094149A



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