



technical data

Outdoor units

RX-JV1B

air conditioning systems

R-410A



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RX-JV1B

air conditioning systems

R-410A

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RX-JV1B

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1 Features

- Outdoor units for pair application
- Daikin outdoor units are neat and sturdy and can be mounted easily 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



2 Specifications

2-1 NOMINAL CAPACITY AND NOMINAL INPUT				RX20JV1B	RX25JV1B	RX35JV1B
For combination indoor units + outdoor units	Indoor Units			FTX20JV1B	FTX25JV1B	FTX35JV1B
Cooling capacity	Minimum	kW		1.3		
		Btu/h		4,400		
		Kcal/h		1,120		
	Standard	kW		2.0	2.5	3.3
		Btu/h		6,800	8,500	11,300
		Kcal/h		1,720	2,150	2,840
	Maximum	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	Minimum	kW		1.3		
		Btu/h		4,400		
		Kcal/h		1,120		
	Standard	kW		2.5	2.8	3.5
		Btu/h		8,500	9,600	11,900
		Kcal/h		2,150	2,410	3,010
	Maximum	kW		3.5	4.0	4.8
		Btu/h		11,600	13,600	16,400
		Kcal/h		3,010	3,440	4,130
Piping connections	Drain	OD	mm	18.0		
	Gas	OD	mm	9.52		
	Heat insulation			Both liquid and gas pipes		
	Liquid	OD	mm	6.35		
Power Input	Cooling	Nominal	kW	0.550	0.730	0.980
	Heating	Nominal	kW	0.950	0.690	0.930
For combination indoor units + outdoor units	EER	Nominal		3.64	3.42	3.37
	COP	Nominal		4.24	4.06	3.76
	Energy Label	Cooling		A		
		Heating		A		
Annual energy consumption			kWh	275	365	490

2-2 TECHNICAL SPECIFICATIONS				RX20JV1B	RX25JV1B	RX35JV1B
Casing	Colour			Ivory White		
Dimensions	Unit	Height	mm	550		
		Width	mm	658		
		Depth	mm	275		
	Packing	Height	mm	616		
		Width	mm	788		
		Depth	mm	359		
Weight	Unit		kg	28	28	30
	Packed Unit		kg	31	31	34
Heat Exchanger	Dimensions	Length	mm	670	670	647
		Nr of Rows		1	1	2
		Fin Pitch	mm	1.4	1.4	1.4
		Nr of Stages		24	24	24
	Tube type			Hi-Xa(7)		
	Fin	Type		Waffle fin		
Fan	Type			Propeller		
	Quantity			1	1	1
	Air Flow Rate	Cooling (High)	m³/min	29.2	29.2	27.6
		Heating (High)	m³/min	26.2	26.2	24.5
		Cooling (High)	cfm	1,030	1,030	975
		Heating (High)	cfm	927	927	865
	Motor	Quantity		1	1	1
Model		KFD-280-33-8A				

2 Specifications

2-2 TECHNICAL SPECIFICATIONS				RX20JV1B	RX25JV1B	RX35JV1B
Motor	Speed (nominal)	Cooling (Low)	rpm	720	720	720
		Cooling (High)	rpm	860	860	860
		Heating (Low)	rpm	350	350	350
		Heating (High)	rpm	860	860	860
Fan	Motor	Output	W	33	33	33
	Motor	Model		KFD-280-33-8A		
	Type			Propeller		
Compressor	Quantity			1	1	1
	Motor	Model		1YC23AEXDA		
		Type		Hermetically sealed swing compressor		
		Motor Output	W	750	750	750
Operation Range	Cooling	Min	°CDB	10	10	10
		Max	°CDB	46	46	46
	Heating	Min	°CWB	-15	-15	-15
		Max	°CWB	20	20	20
Sound Level (nominal)	Cooling	Sound Power	dB(A)	60	60	62
		Sound Pressure (High)	dB(A)	46	46	48
	Heating	Sound Pressure (High)	dB(A)	47	47	48
Refrigerant	Type			R-410A		
	Charge		kg	0.74	0.74	1.0
Refrigerant Oil	Type			FVC50K		
	Charged Volume		l	0.375	0.375	0.375
Piping connections	Liquid (OD)	Quantity		1	1	1
		Diameter (OD)	mm	6.35	6.35	6.35
	Gas	Quantity		1	1	1
		Diameter (OD)	mm	9.52	9.52	9.52
	Drain	Quantity		1	1	1
		Diameter (OD)	mm	18	18	18
	Piping Length	Maximum	m	15	15	15
	Additional Refrigerant Charge		kg/m	0.02(>10m)		
	Installation height difference	Maximum	m	12	12	12
	Heat Insulation	Both liquid and gas pipes				
Standard Accessories	Item			Installation manual		
	Quantity			1	1	1
	Item			Drain plug		
	Quantity			1	1	1
Notes	Nominal cooling capacities are based on: indoor temperature: 27°CDB, 19.0°CWB; outdoor temperature: 35°CDB, 24°CWB, refr.pip.length: 5m					
	Nominal heating capacities are based on: indoor temperature: 20°CDB; outdoor temperature: 7°CDB, 6°CWB, refr.pip.length: 5m		Nominal heating capacities are based on: indoor temperature: 20°CDB, outdoor temperature: 7°CDB, 6°CWB, refr.pip. length 5m (horizontal)		Nominal heating capacities are based on: indoor temperature: 20°CDB; outdoor temperature: 7°CDB, 6°CWB, refr.pip.length: 5m	

2-3 ELECTRICAL SPECIFICATIONS				RX20JV1B	RX25JV1B	RX35JV1B
Power Supply	Name			V1		
	Phase			1~		
	Frequency		Hz	50	50	50
	Voltage		V	220-230-240		
Current	Nominal running current (RLA)	Cooling (A)	A	2.52	3.52	5.02
		Heating (A)	A	2.62	3.02	4.52
	Starting current (cooling/heating)		A	2.7	3.7	5.0
Wiring connections	For Power Supply	Quantity		3	3	3
	For connection with indoor	Quantity		4	4	4
		Remark		Earth wire included		

3 Electrical data

RX20-35JV

Representative unit combination		Power supply				Comp		OFM		IFM	
Indoor unit	Outdoor unit	Hz-Volts	Voltage range	MCA	MFA	RHz	RLA	W	FLA	W	FLA
FTX20JV1B	RX20JV1B	50 - 220	Max. 50Hz 264V Min. 50Hz 198V	14.5	16	36	2.2	33	0.17	16	0.12
		50 - 230									
		50 - 240									
FTX25JV1B	RX25JV1B	50 - 220	Max. 50Hz 264V Min. 50Hz 198V	14.5	16	48	3.2	33	0.17	16	0.12
		50 - 230									
		50 - 240									
FTX35JV1B	RX35JV1B	50 - 220	Max. 50Hz 264V Min. 50Hz 198V	14.5	16	70	4.7	33	0.17	16	0.12
		50 - 230									
		50 - 240									

SYMBOLS

- MCA : Min. Circuit Amps (A)
- MFA : Max. Fuse Amps (A)
- RLA : Rated Load Amps (A)
- OFM : Outdoor Fan Motor
- IFM : Indoor Fan Motor
- FLA : Full Load Amps (A)
- W : Fan Motor Rated Output (W)
- RHz : Rated Operating Frequency (Hz)

NOTES

1. RLA is based on the following conditions.
 - Indoor temp. 27°C DB/19°C WB.
 - Outdoor temp. 35°C DB.
2. Maximum allowable voltage variation between phases is 2%.
3. Select wire size based on the larger value of MCA.
4. Instead of fuse, use circuit breaker.

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4 Capacity tables

4 - 1 Cooling/Heating capacity tables

FTX20JV1B+RX20JV1B

Cooling 50Hz 220-240V

AFR	9.1
BF	0.24

Indoor		Outdoor temperature (°C DB)																	
EWB	EDB	20			25			30			32			35			40		
°C	°C	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
14.0	20	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
16.0	22	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
18.0	25	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
19.0	27	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	0.55	1.91	1.77	0.59
22.0	30	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
24.0	32	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

Heating 50Hz 220-240V

AFR	9.4
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Indoor		Outdoor temperature (°C WB)									
EDB		-10		-5		0		6		10	
°C		TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
15.0		1.68	0.50	1.97	0.52	2.25	0.55	2.59	0.58	2.81	0.60
20.0		1.60	0.51	1.88	0.54	2.16	0.56	2.50	0.59	2.73	0.61
22.0		1.56	0.52	1.84	0.54	2.13	0.57	2.47	0.60	2.69	0.61
24.0		1.53	0.52	1.81	0.55	2.09	0.57	2.43	0.60	2.66	0.62
25.0		1.51	0.53	1.79	0.55	2.07	0.57	2.41	0.60	2.64	0.62
27.0		1.48	0.53	1.76	0.56	2.04	0.58	2.38	0.61	2.61	0.63

SYMBOLS

AFR : Air flow rate (m³/min.)
 BF : Bypass factor
 EWB : Entering wet bulb temp. (°C)
 EDB : Entering dry bulb temp. (°C)
 TC : Total capacity (kW)
 SHC : Sensible heat capacity (kW)
 PI : Power input (kW)

NOTES

- Capacities are based on the following conditions.
 (1) Corresponding refrigerant piping length : 5m
 (2) Level difference : 0m
- shows nominal (rated) capacities and power input

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4 Capacity tables

4 - 1 Cooling/Heating capacity tables

FTX25JV1B+RX25JV1B

Cooling 50Hz 220-240V

AFR	9.2
BF	0.29

Indoor		Outdoor temperature (°CDB)																	
EWB	EDB	20			25			30			32			35			40		
°C	°C	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
14.0	20	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
16.0	22	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
18.0	25	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
19.0	27	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	0.73	2.38	1.90	0.78
22.0	30	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
24.0	32	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

Heating 50Hz 220-240V

AFR	9.7
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Indoor		Outdoor temperature (°CWB)									
EDB		-10		-5		0		6		10	
°C		TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
15.0		1.88	0.58	2.20	0.61	2.52	0.64	2.90	0.67	3.15	0.70
20.0		1.79	0.60	2.10	0.63	2.42	0.66	2.80	0.69	3.05	0.71
22.0		1.75	0.61	2.07	0.63	2.38	0.66	2.76	0.70	3.01	0.72
24.0		1.71	0.61	2.03	0.64	2.34	0.67	2.72	0.70	2.98	0.73
25.0		1.69	0.61	2.01	0.64	2.32	0.67	2.70	0.71	2.96	0.73
27.0		1.65	0.62	1.97	0.65	2.29	0.68	2.66	0.71	2.92	0.73

SYMBOLS

- AFR : Air flow rate (m³/min.)
- BF : Bypass factor
- EWB : Entering wet bulb temp. (°C)
- EDB : Entering dry bulb temp. (°C)
- TC : Total capacity (kW)
- SHC : Sensible heat capacity (kW)
- PI : Power input (kW)

NOTES

1. Capacities are based on the following conditions.
 - (1) Corresponding refrigerant piping length : 5m
 - (2) Level difference : 0m
2. show nominal (rated) capacities and power input

4 Capacity tables

4 - 1 Cooling/Heating capacity tables

FTX35JV1B+RX35JV1B

Cooling 50Hz 220-240V

AFR	9.3
BF	0.25

Indoor		Outdoor temperature (°CDB)																	
EWB	EDB	20			25			30			32			35			40		
°C	°C	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
14.0	20	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
16.0	22	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
18.0	25	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
19.0	27	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	0.98	3.15	2.27	1.05
22.0	30	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
24.0	32	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

Heating 50Hz 220-240V

AFR	10.1
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Indoor		Outdoor temperature (°CWB)									
EDB		-10		-5		0		6		10	
°C		TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
15.0		2.36	0.79	2.75	0.82	3.15	0.86	3.62	0.91	3.94	0.94
20.0		2.24	0.81	2.63	0.85	3.03	0.88	3.50	0.93	3.82	0.96
22.0		2.19	0.82	2.58	0.85	2.98	0.89	3.45	0.94	3.77	0.97
24.0		2.14	0.82	2.53	0.86	2.93	0.90	3.40	0.95	3.72	0.98
25.0		2.11	0.83	2.51	0.87	2.90	0.90	3.38	0.95	3.70	0.98
27.0		2.07	0.84	2.46	0.88	2.86	0.91	3.33	0.96	3.65	0.99

SYMBOLS

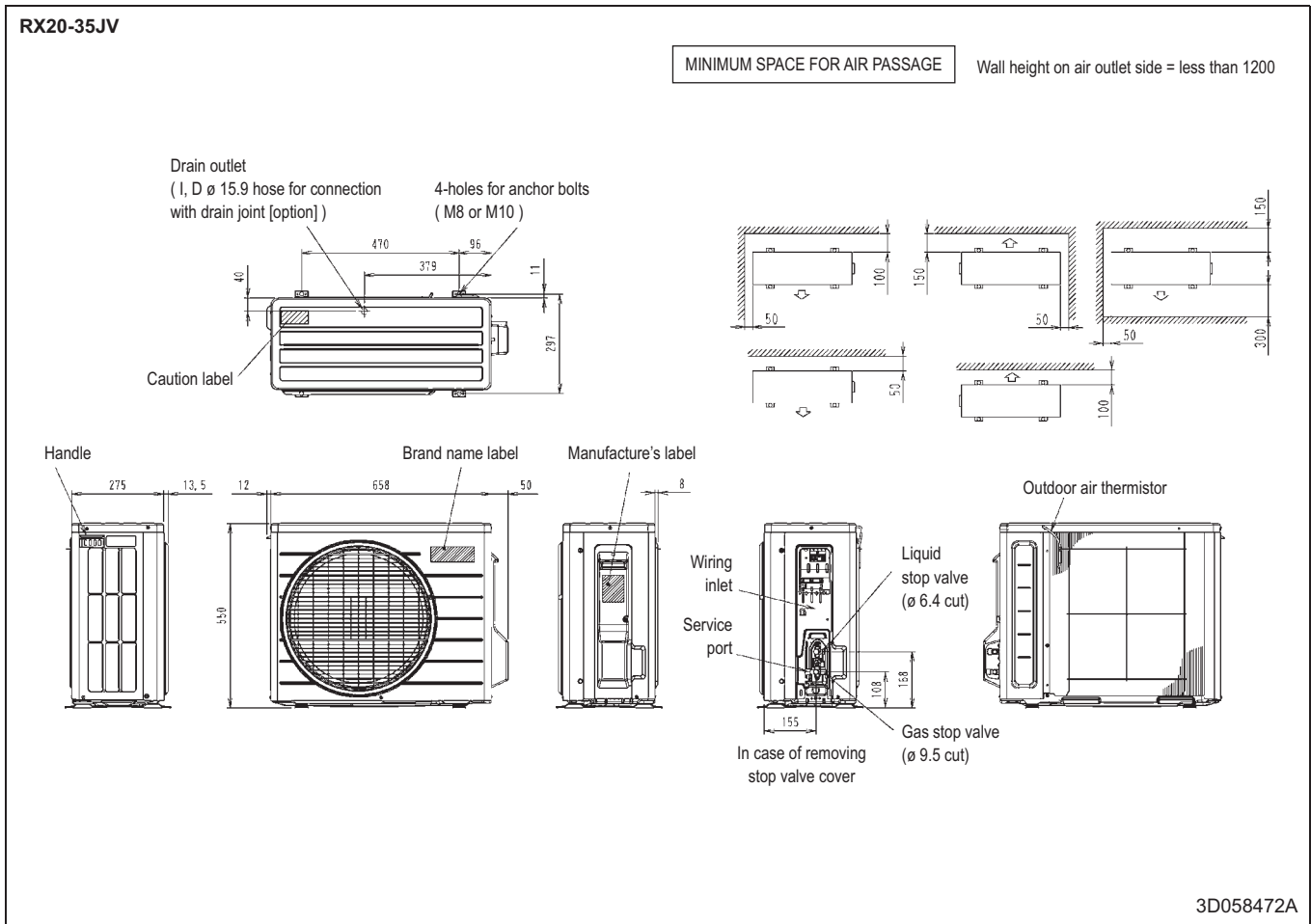
AFR : Air flow rate (m³/min.)
 BF : Bypass factor
 EWB : Entering wet bulb temp. (°C)
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 TC : Total capacity (kW)
 SHC : Sensible heat capacity (kW)
 PI : Power input (kW)

NOTES

- Capacities are based on the following conditions.
 (1) Corresponding refrigerant piping length : 5m
 (2) Level difference : 0m
- shows nominal (rated) capacities and power input.

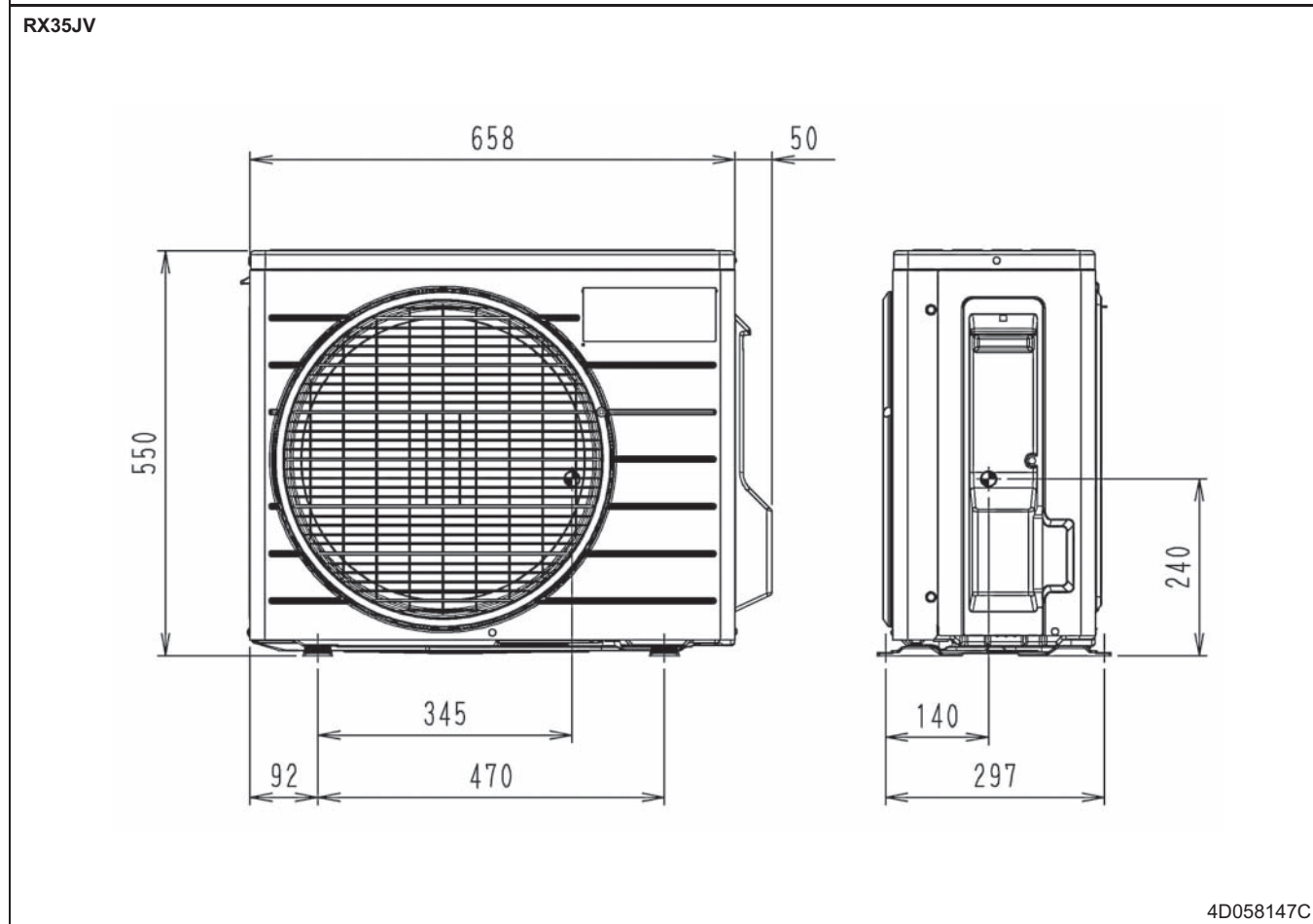
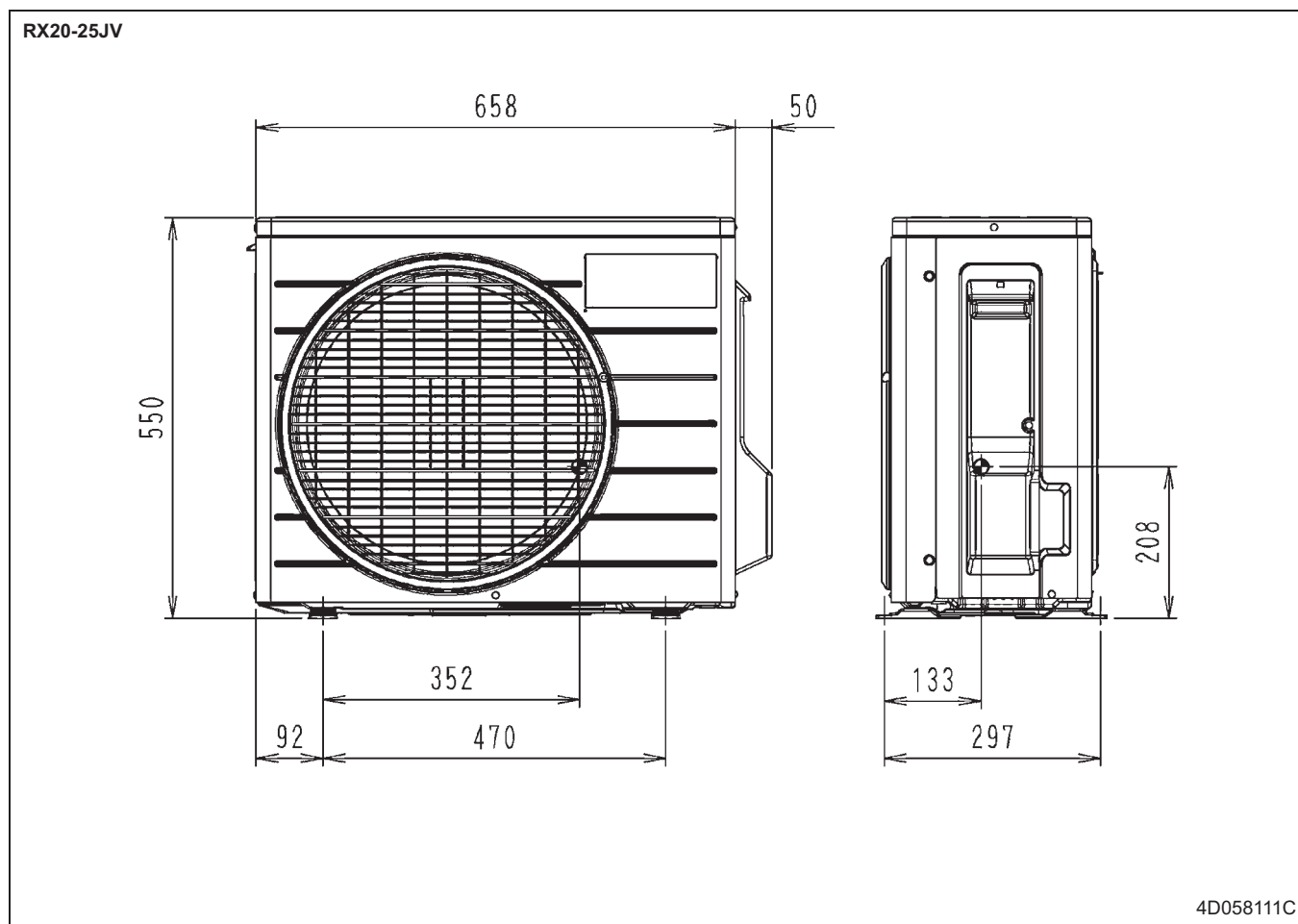
5 Dimensional drawing & centre of gravity

5 - 1 Dimensional drawing

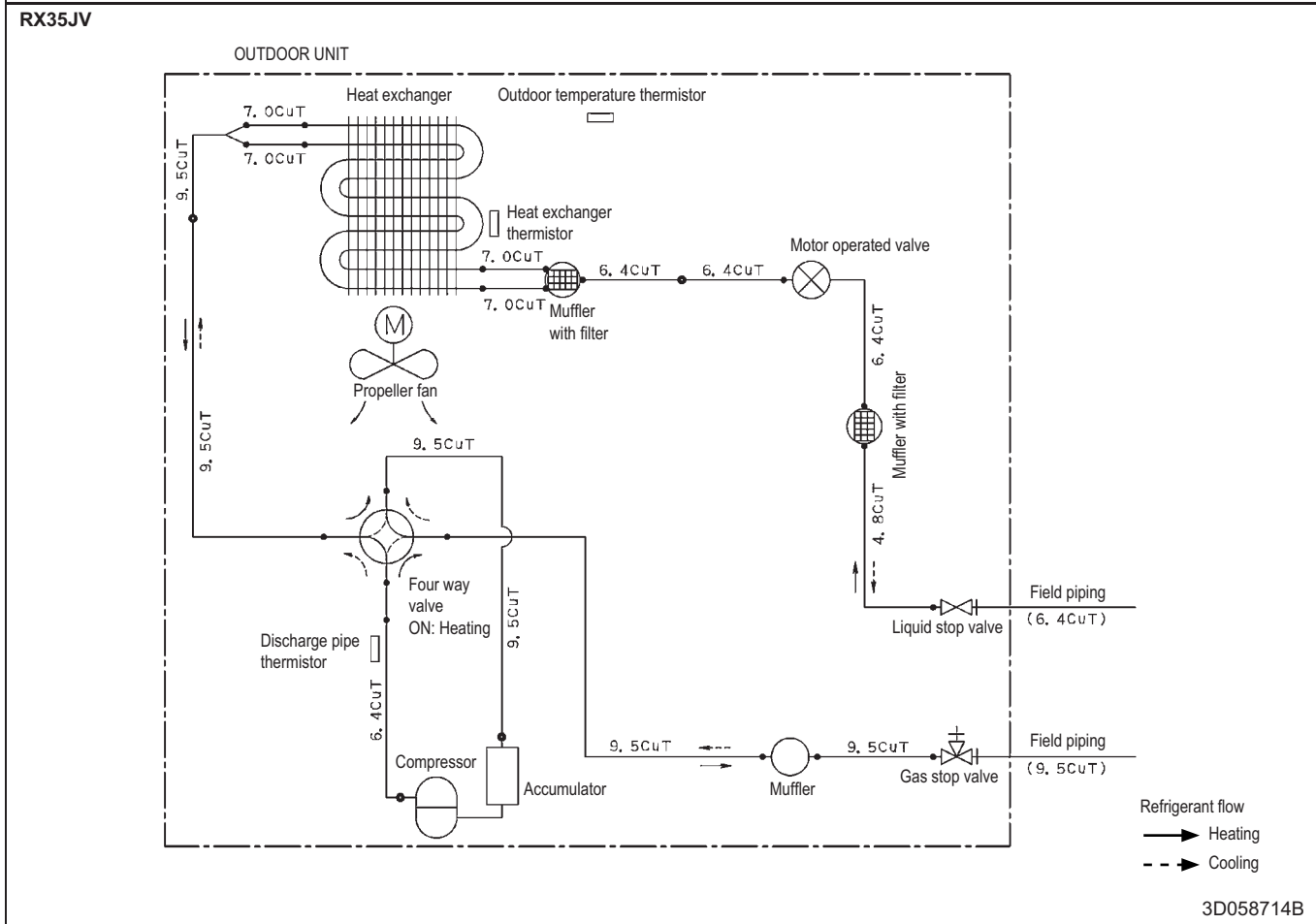
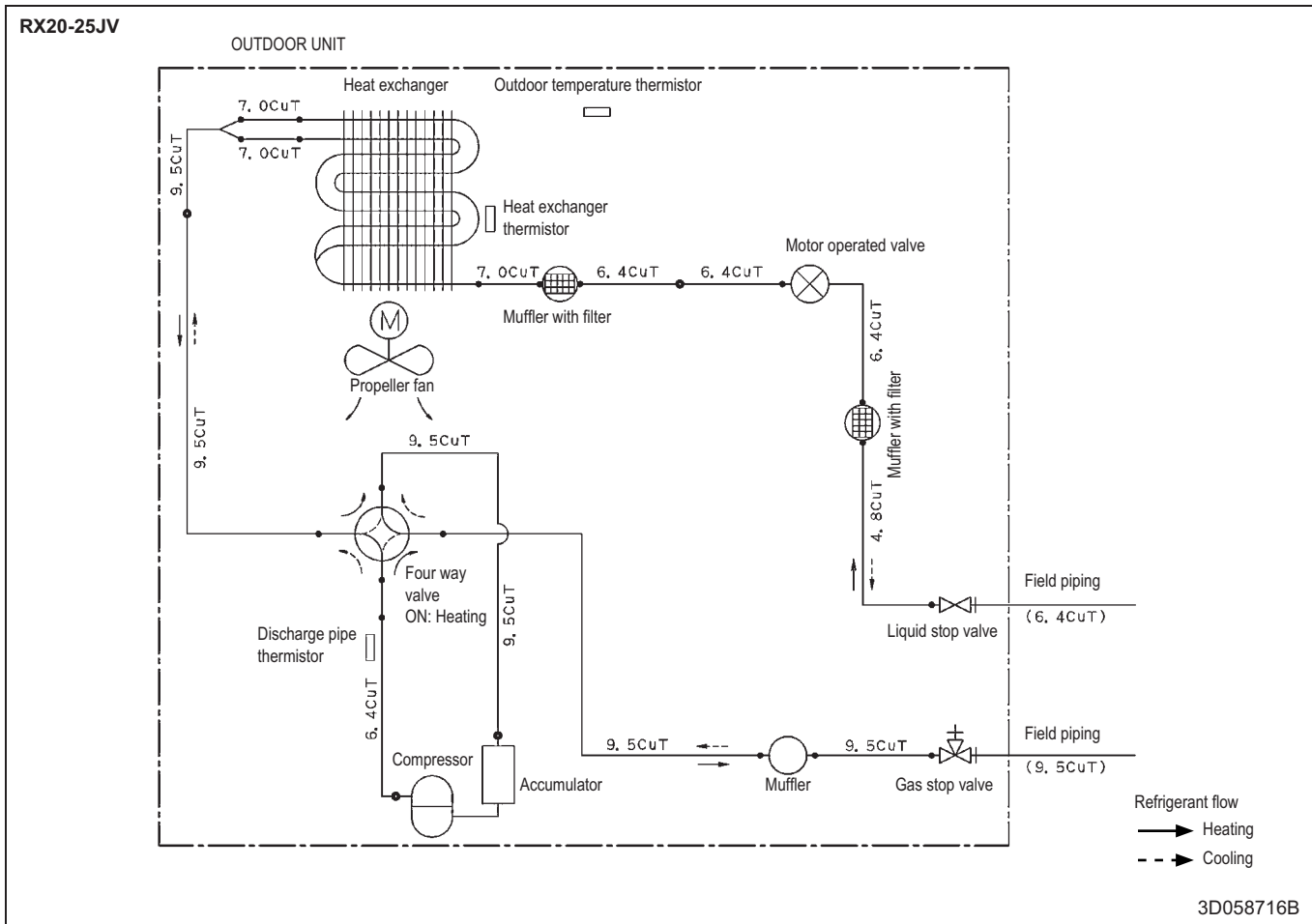


5 Dimensional drawing & centre of gravity

5 - 2 Centre of gravity



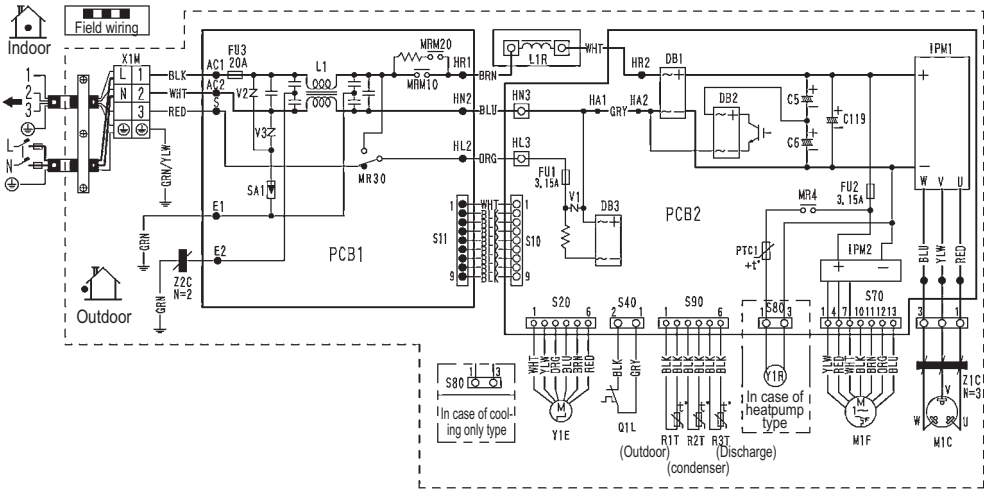
6 Piping diagram



7 Wiring diagram

7 - 1 Wiring diagram

RX20-35JV



C5, C6, C119	: Capacitor	MR4, MR30, MRM10	: Magnetic relay	R1T, R2T, R3T	: Thermistor
DB1, DB2, DB3	: Diode bridge	MRM20	: Magnetic relay	SA1	: Surge arrester
FU1, FU2, FU3	: Fuse	N	: Neutral	V1, V2, V3	: Varistor
IPM1, IPM2	: Intelligent power module	Q1L	: Overload protector	X1M	: Terminal strip
L	: Live	PCB1, PCB2	: Printed circuit board	Y1E	: Electronic expansion valve coil
L1	: Coil	PTC1	: Thermistor PTC	Y1R	: Reversing solenoid valve coil
L1R	: Reactor	S10, S11, S20, S40	: Switch	Z1C, Z2C	: Ferrite core
M1C	: Compressor motor	S70, S80, S90, HL3	: Switch	⊕	: Protective earth
M1F	: Fan motor	HN3	: Connector		

NOTES

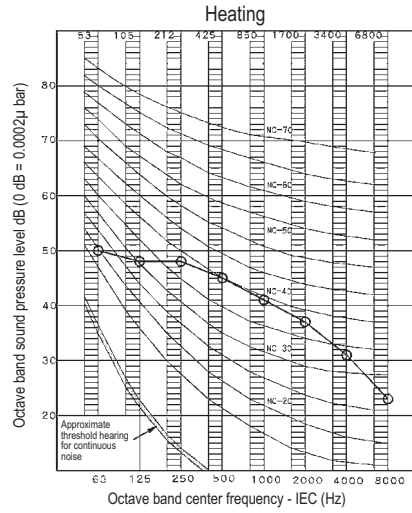
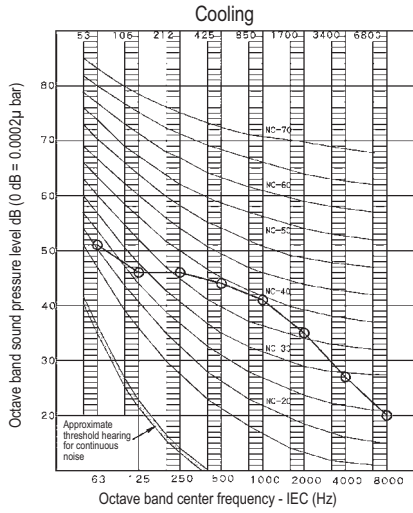
1 Refer to the nameplate for the power requirements.

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8 Sound data

8 - 1 Sound pressure spectrum

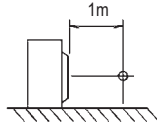
RX20JV



NOTES

- Over All (dB): (B,G,N is already rectified)
- Measuring place: measure in anechoic room.
- Operation noise differs with operation and ambient conditions.
- Location of microphone. JISC9612
The operation noise measuring method is in accordance with JISC9612

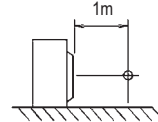
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A	46



NOTES

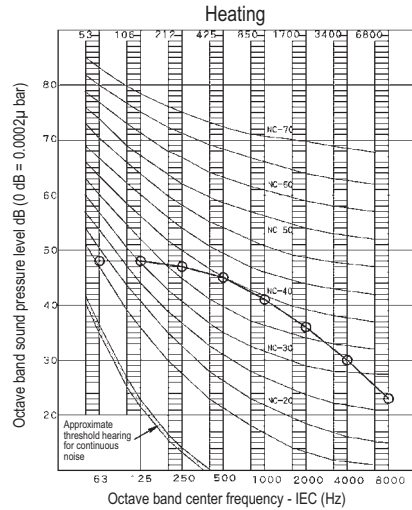
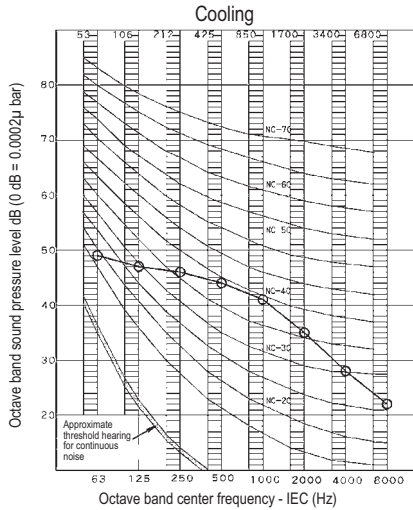
- Over All (dB): (B,G,N is already rectified)
- Measuring place: measure in anechoic room.
- Operation noise differs with operation and ambient conditions.
- Location of microphone. JISC9612
The operation noise measuring method is in accordance with JISC9612

Scale	50Hz 230v (H)
A	47



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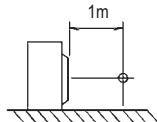
RX25JV



NOTES

- Over All (dB): (B,G,N is already rectified)
- Measuring place: measure in anechoic room.
- Operation noise differs with operation and ambient conditions.
- Location of microphone. JISC9612
The operation noise measuring method is in accordance with JISC9612

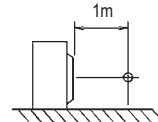
Scale	50Hz 230v (H)
A	46



NOTES

- Over All (dB): (B,G,N is already rectified)
- Measuring place: measure in anechoic room.
- Operation noise differs with operation and ambient conditions.
- Location of microphone. JISC9612
The operation noise measuring method is in accordance with JISC9612

Scale	50Hz 230v (H)
A	47

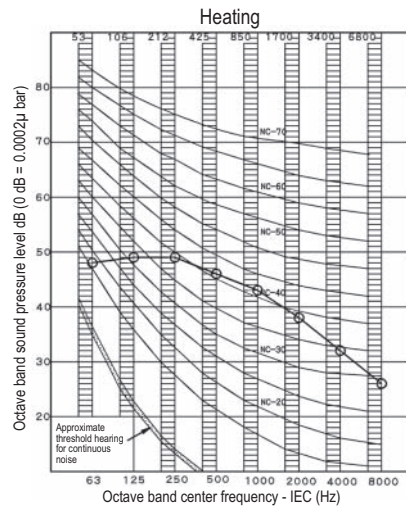
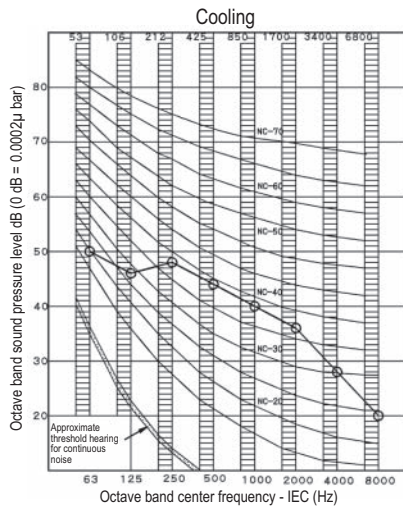


3D059003A

8 Sound data

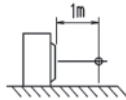
8 - 1 Sound pressure spectrum

RX35JV



NOTES

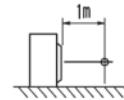
- 1 Over All (dB):
(B,G,N is already rectified)
- 2 Measuring place: measure in anechoic room.
- 3 Operation noise differs with operation and ambient conditions.
- 4 Location of microphone.
JISC9612
The operation noise measuring method is in accordance with JISC9612



Scale	50Hz 230V (H)
A	48

NOTES

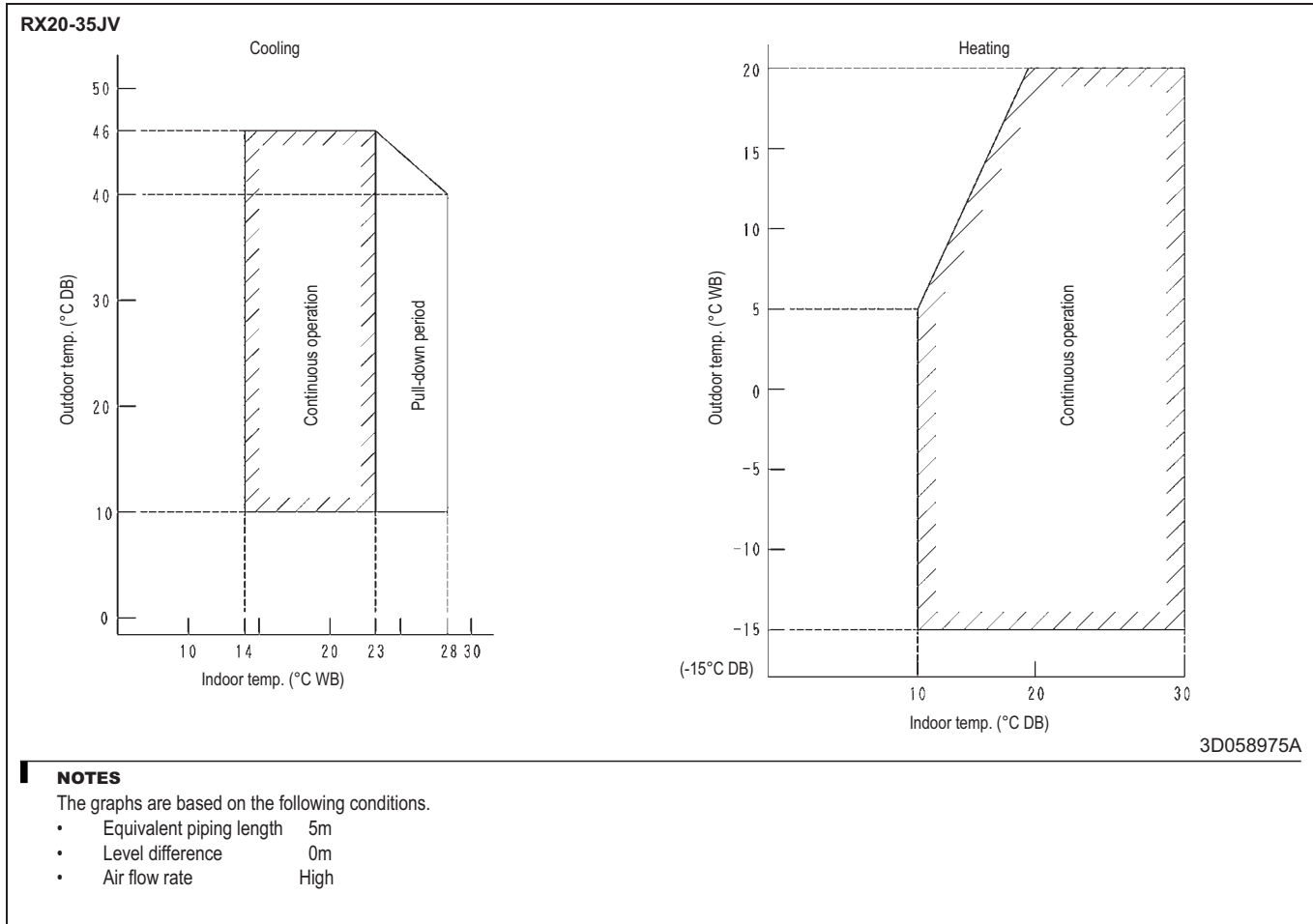
- 1 Over All (dB):
(B,G,N is already rectified)
- 2 Measuring place: measure in anechoic room.
- 3 Operation noise differs with operation and ambient conditions.
- 4 Location of microphone.
JISC9612
The operation noise measuring method is in accordance with JISC9612



Scale	50Hz 230V (H)
A	48

3D059004A

9 Operation range



In all of us,
a green heart



Daikin's unique position as a manufacturer of air conditioning equipment, compressors and refrigerants has led to its close involvement in environmental issues. For several years Daikin has had the intension to become a leader in the provision of products that have limited impact on the environment. This challenge demands the eco design and development of a wide range of products and an energy management system, resulting in energy conservation and a reduction of waste.

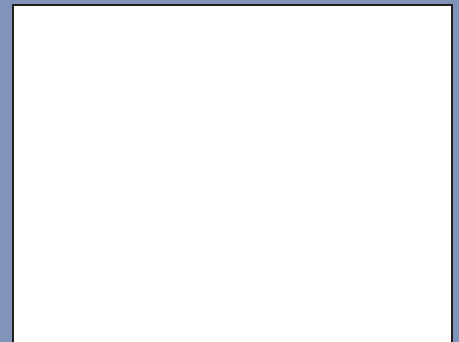


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ISO14001 assures an effective environmental management system in order to help protect human health and the environment from the potential impact of our activities, products and services and to assist in maintaining and improving the quality of the environment.



DAIKIN EUROPE N.V.

Naamloze Vennootschap
Zandvoordestraat 300
B-8400 Oostende, Belgium
www.daikin.eu
BE 0412 120 336
RPR Oostende



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