



Air Conditioning Technical Data

Outdoor unit



EEDEN13-100

RX-JV

TABLE OF CONTENTS

RX-JV

1	Features	2
2	Specifications	3
	Nominal Capacity And Nominal Input	3
	Technical Specifications	3
	Electrical Specifications	4
3	Electrical data	5
	Electrical Data	5
4	Capacity tables	6
	Cooling/Heating Capacity Tables	6
5	Dimensional drawings	8
	Dimensional Drawings	8
6	Centre of gravity	9
	Centre of Gravity	9
7	Piping diagrams	10
	Piping Diagrams	10
8	Wiring diagrams	11
	Wiring Diagrams - Single Phase	11
9	Sound data	12
	Sound Pressure Spectrum - Cooling	12
	Sound Pressure Spectrum - Heating	14
10	Operation range	16
	Operation Range	16

1 Features

- Outdoor units for pair application
- Outdoor units are fitted with a swing compressor, renowned for its low noise and high energy efficiency
- 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



2 Specifications

2-1 Nominal Capacity And Nominal Input				FTX20JV/RX20JV	FTX25JV/RX25JV	FTX35JV/RX35JV	
Cooling capacity	Min.	kW	1.3				
		Btu/h	4,400				
		kcal/h	1,120				
	Nom.	kW	2.0	2.5	3.3		
		Btu/h	6,800	8,500	11,300		
		kcal/h	1,720	2,150	2,840		
	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				
	Nom.	kW	2.5	2.8	3.5		
		Btu/h	8,500	9,600	11,900		
		kcal/h	2,150	2,410	3,010		
	Max.	kW	3.5	4.0	4.8		
		Btu/h	11,600	13,600	16,400		
		kcal/h	3,010	3,440	4,130		
Seasonal efficiency (according to EN14825)	Cooling	Energy label		A+			
		Pdesign	kW	2.00	2.50	3.30	
		SEER		5.63			
		Annual energy consumption	kWh	124	155	204	
	Heating (Average climate)	Energy label		A++	A+		
		Pdesign	kW	2.20	2.40	2.80	
		SCOP		4.67	4.50	4.14	
		Annual energy consumption	kWh	660	747	945	
	Nominal efficiency (cooling at 35°/27° nominal load, heating at 7°/20° nominal load)	EER		3.64	3.42	3.37	
COP		4.24	4.06	3.76			
Annual energy consumption		kWh	275	365	490		
Energy label		Cooling	A				
		Heating	A				
Piping connections	Liquid	OD	mm	6.35			
		Gas	OD	mm	9.52		
	Drain	OD	mm	18			
	Heat insulation		Both liquid and gas pipes				

2-2 Technical Specifications				RX20JV	RX25JV	RX35JV
Capacity control	Method			Inverter controlled		
Casing	Colour			Ivory white		
Dimensions	Unit	Height	mm	550		
		Width	mm	658		
		Depth	mm	275		
	Packed unit	Height	mm	616		
		Width	mm	788		
		Depth	mm	359		
Weight	Unit	kg	28	30		
	Packed unit	kg	31	34		
Heat exchanger	Length	mm	670	647		
	Rows	Quantity	1	2		
	Fin pitch	mm	1.4			
	Stages	Quantity	24			
	Tube type	ø7 HI-XA				
	Fin	Type	Waffle louvered fin			
	Compressor	Model	1YC23AEXDA			
Type		Hermetically sealed swing compressor				
Output		W	750			

2 Specifications

2

2-2 Technical Specifications					RX20JV	RX25JV	RX35JV
Fan	Type				Propeller fan		
	Air flow rate	Cooling	High	m ³ /min	29.2		27.60
				cfm	1,030		975
			Nom.	m ³ /min	29.2		27.6
		Super low	High	m ³ /min			
				cfm			
			Heating	High	m ³ /min	26.2	
	Super low	High	m ³ /min	927		865	
			cfm				
		Heating	Super low	m ³ /min			
Fan motor	Model				KFD-280-33-8A		
	Output			W	33.00		
	Speed	Cooling	High	rpm	860		
				rpm	720		
			Super low	rpm	-		
		Heating	High	rpm	860		
				rpm	350		
			Super low	rpm	-		
Sound power level	Cooling	Nom.	dBA	60		62	
Sound pressure level	Cooling	High	dBA	46		48	
	Heating	High	dBA	47		48	
Operation range	Cooling	Ambient	Min.	°CDB	10		
			Max.	°CDB	46		
	Heating	Ambient	Min.	°CWB	-15		
			Max.	°CWB	18		
Refrigerant	Type				R-410A		
	Charge			kg	0.74		1.0
	GWP				1,975		
Refrigerant oil	Type				FVC50K		
	Charged volume			l	0.375		
Piping connections	Drain	ID	mm		-		
	Piping length	OU - IU	Max.	m	15		
	Level difference	IU - IU	Max.	m	12		

2-3 Electrical Specifications					RX20JV	RX25JV	RX35JV
Power supply	Name				V1		
	Phase				1~		
	Frequency			Hz	50		
	Voltage			V	220-240		
Current	Nominal running current (RLA)	Cooling	A	2.52	3.52	5.02	
		Heating	A	2.62	3.02	4.52	
	Starting current	Cooling	A	2.7	3.7	5.0	
		Heating	A	2.7	3.7	5.0	
Current - 50Hz	Maximum fuse amps (MFA)		A	16			
Current - 60Hz	Maximum fuse amps (MFA)		A	-			
Wiring connections	For power supply	Quantity		3			
	For connection with indoor	Quantity		4			
		Remark		Earth wire included			

4

3 Electrical data

3 - 1 Electrical Data

RX-JV

Representative unit combination		Power supply				Comp		OFM		IFM	
Indoor unit	Outdoor unit	Hz-Volts	Voltage range	MCA	MFA	RHz	RLA	W	FLA	W	FLA
FTX20JV	RX20JV	50 - 220	Max. 50Hz 264V Min. 50Hz 198V	14.5	16	36	2.2	33	0.17	16	0.12
		50 - 230									
		50 - 240									
FTX25JV	RX25JV	50 - 220	Max. 50Hz 264V Min. 50Hz 198V	14.5	16	48	3.2	33	0.17	16	0.12
		50 - 230									
		50 - 240									
FTX35JV	RX35JV	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.

3D065911A

4 Capacity tables

4 - 1 Cooling/Heating Capacity Tables

FTX20JV + RX20JV

Cooling 50Hz 220-240V

AFR	9.1
BF	0.24

Indoor		Outdoor temperature (°C DB)																	
EWB °C	EDB °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
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
-----	-----

Indoor		Outdoor temperature (°C WB)									
EDB °C	°C	-10		-5		0		6		10	
		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

3D065912A

FTX25JV + RX25JV

Cooling 50Hz 220-240V

AFR	9.2
BF	0.29

Indoor		Outdoor temperature (°C DB)																	
EWB °C	EDB °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
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
-----	-----

Indoor		Outdoor temperature (°C WB)									
EDB °C	°C	-10		-5		0		6		10	
		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

- Capacities are based on the following conditions.
 (1) Corresponding refrigerant piping length : 5m
 (2) Level difference : 0m
- | |
|--|
| |
|--|

 show nominal (rated) capacities and power input

3D065914A

4 Capacity tables

4 - 1 Cooling/Heating Capacity Tables

FTX35JV + RX35JV

Cooling 50Hz 220-240V

AFR	9.3
BF	0.25

Indoor			Outdoor temp. (°CDB)																
EWB (°C)	EDB (°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
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
-----	------

Indoor		Outdoor temp. (°CWB)									
EDB (°C)		-10		-5		0		6		10	
		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

3D065915A

SYMBOLS

AFR:	Air flow rate	(m ³ /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

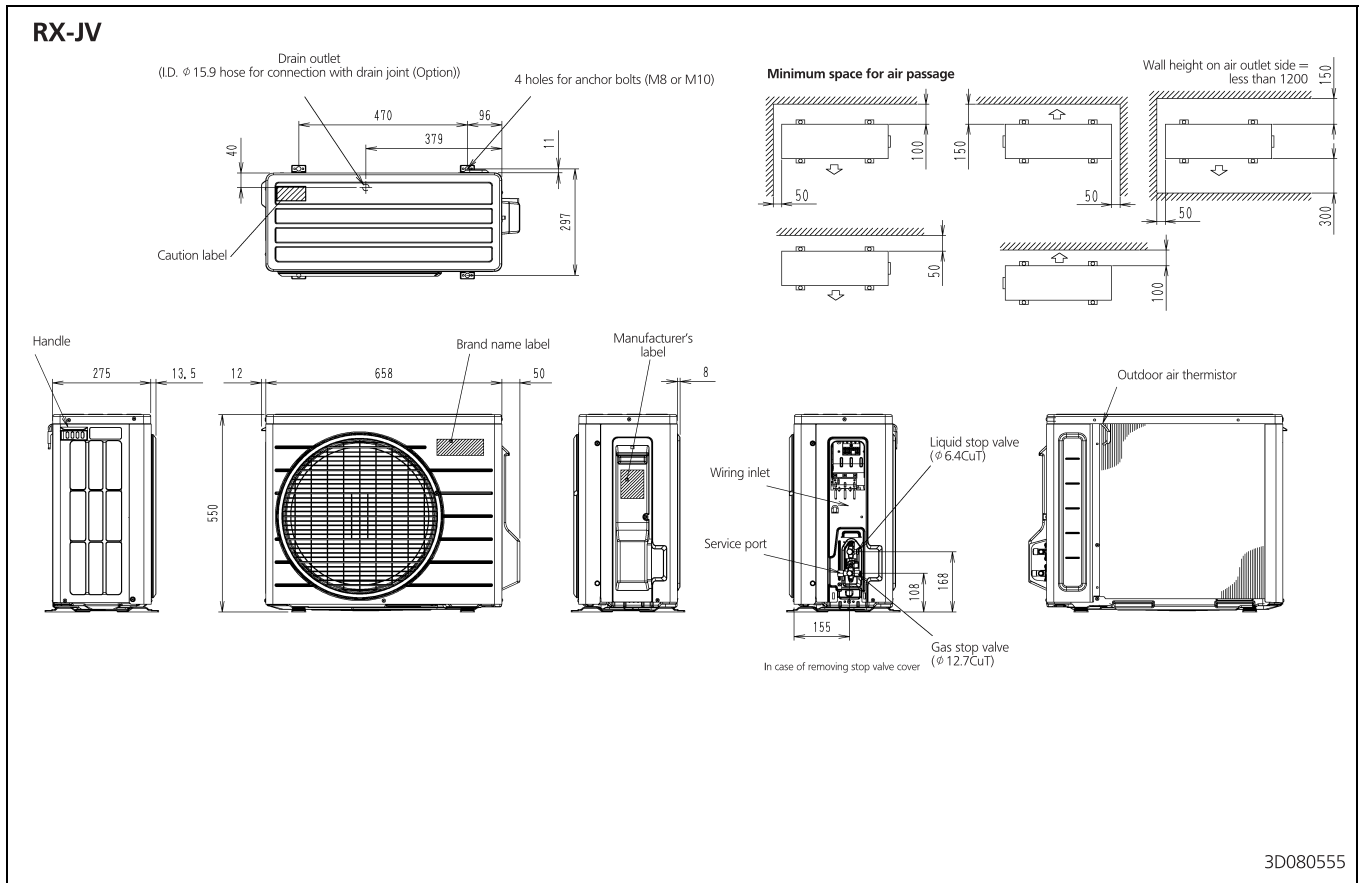
- Capacities are based on the following conditions:
 (1) Corresponding refrigerant piping length: 5m
 (2) Level difference: 0m
- | |
|--|
| |
|--|

 shows nominal (rated) capacities and power input.

5 Dimensional drawings

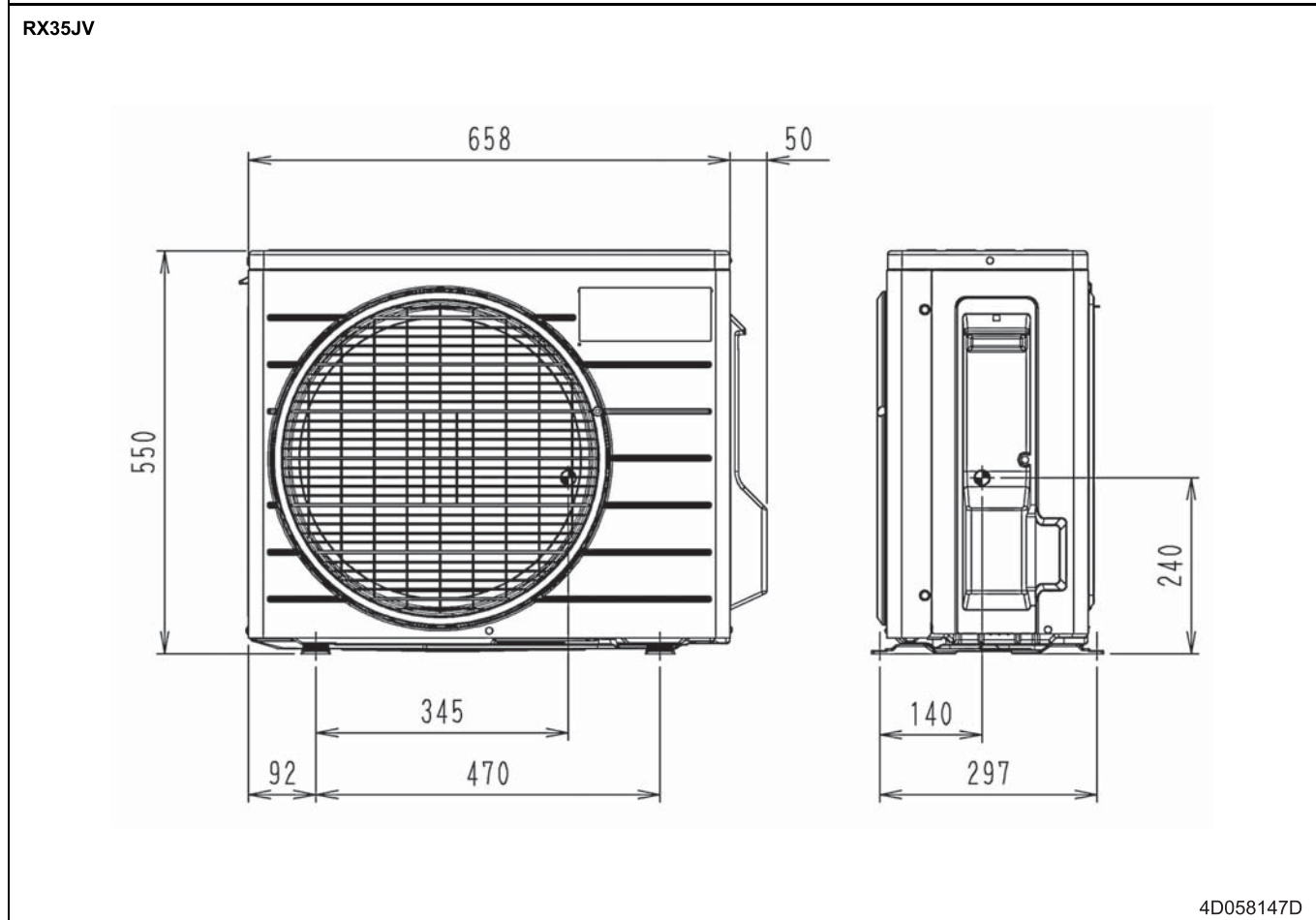
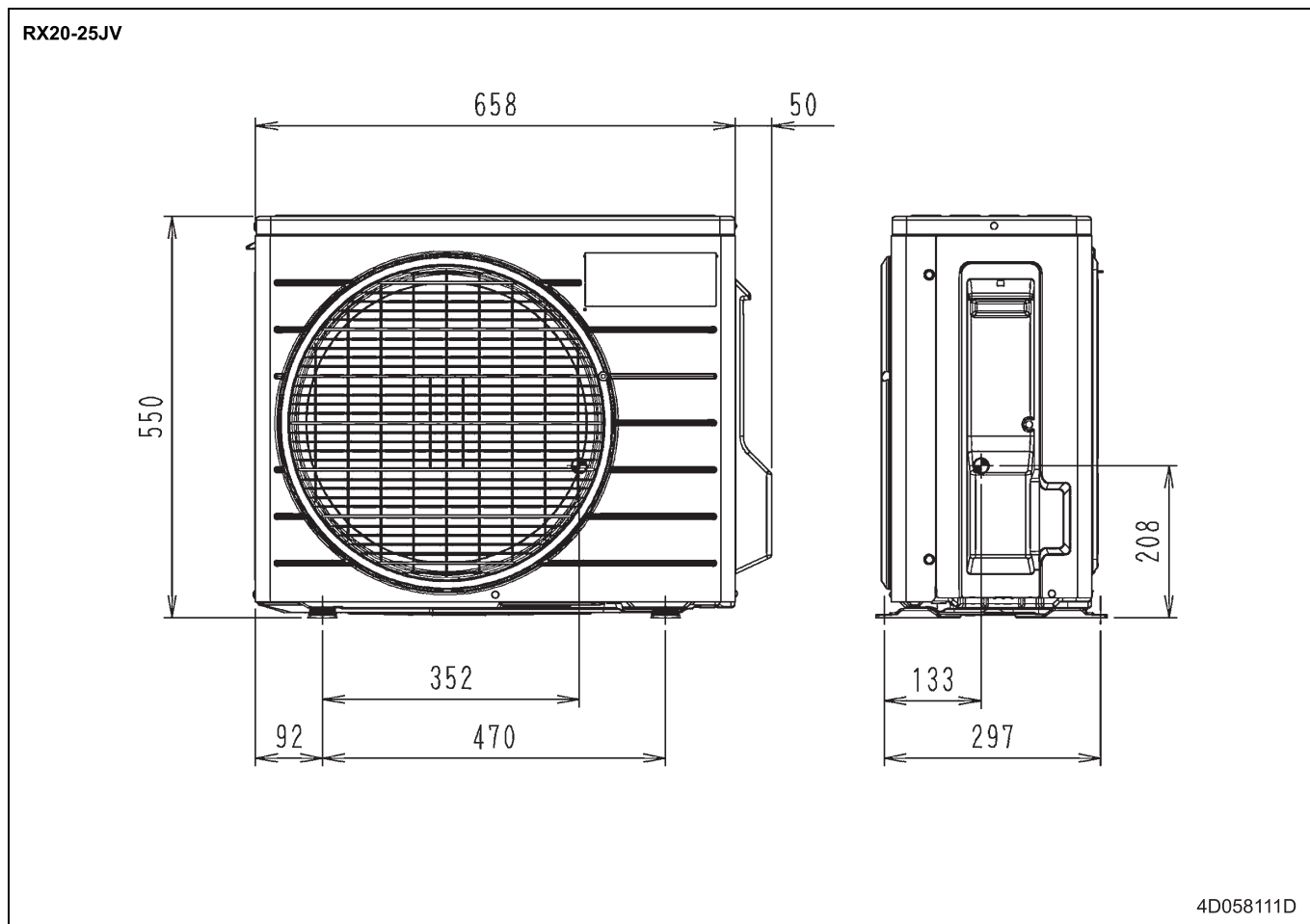
5 - 1 Dimensional Drawings

5



6 Centre of gravity

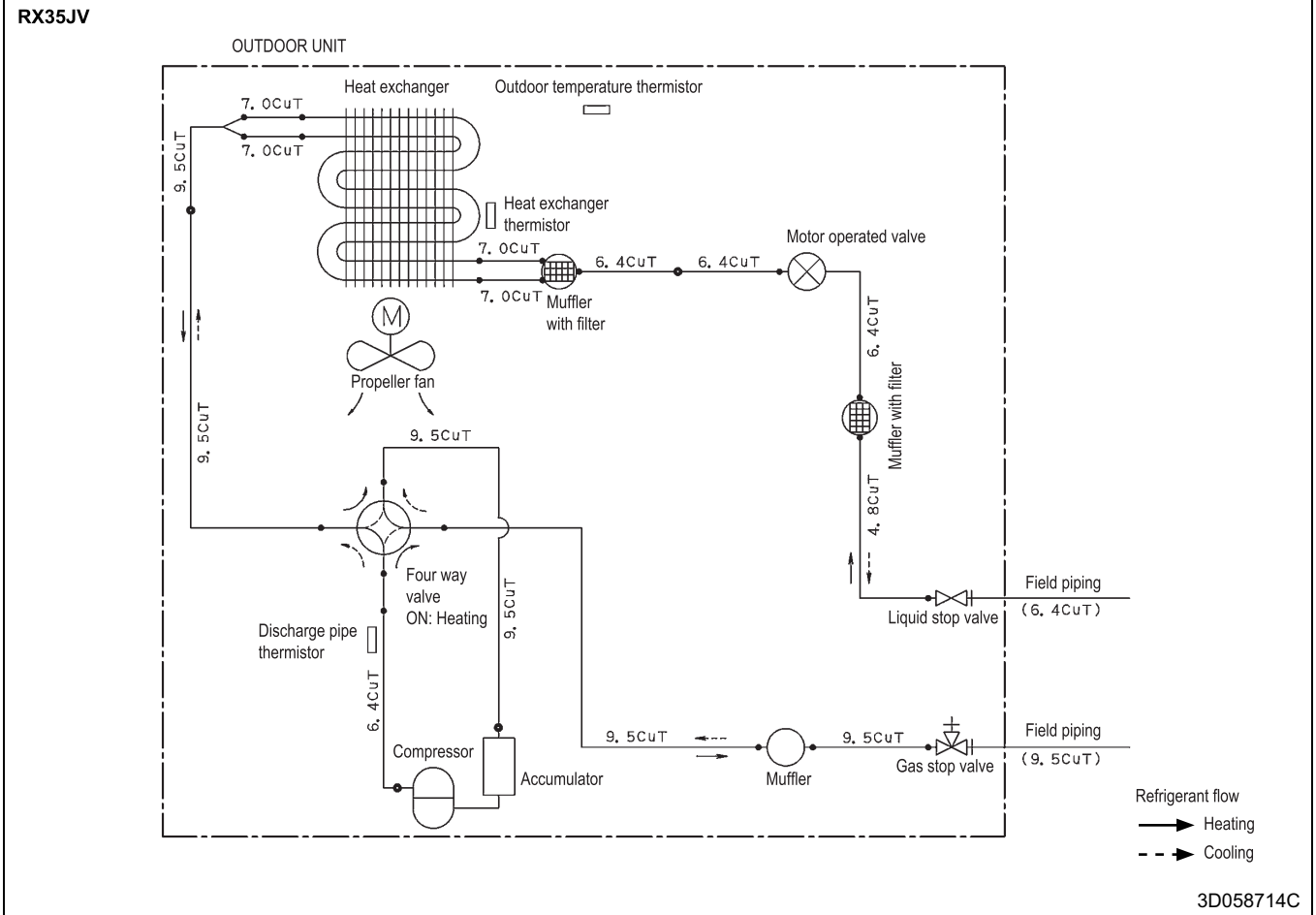
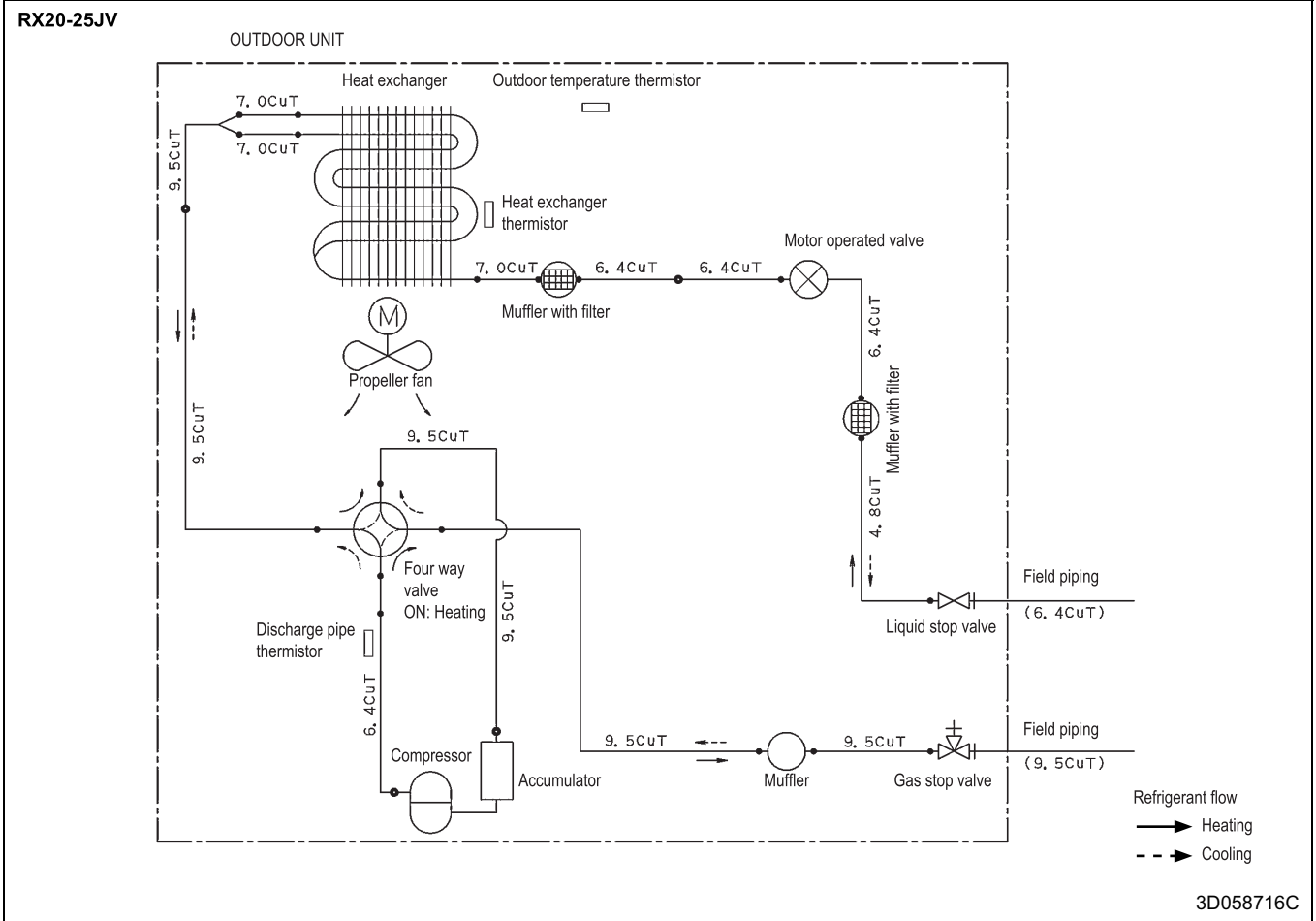
6 - 1 Centre of Gravity



7 Piping diagrams

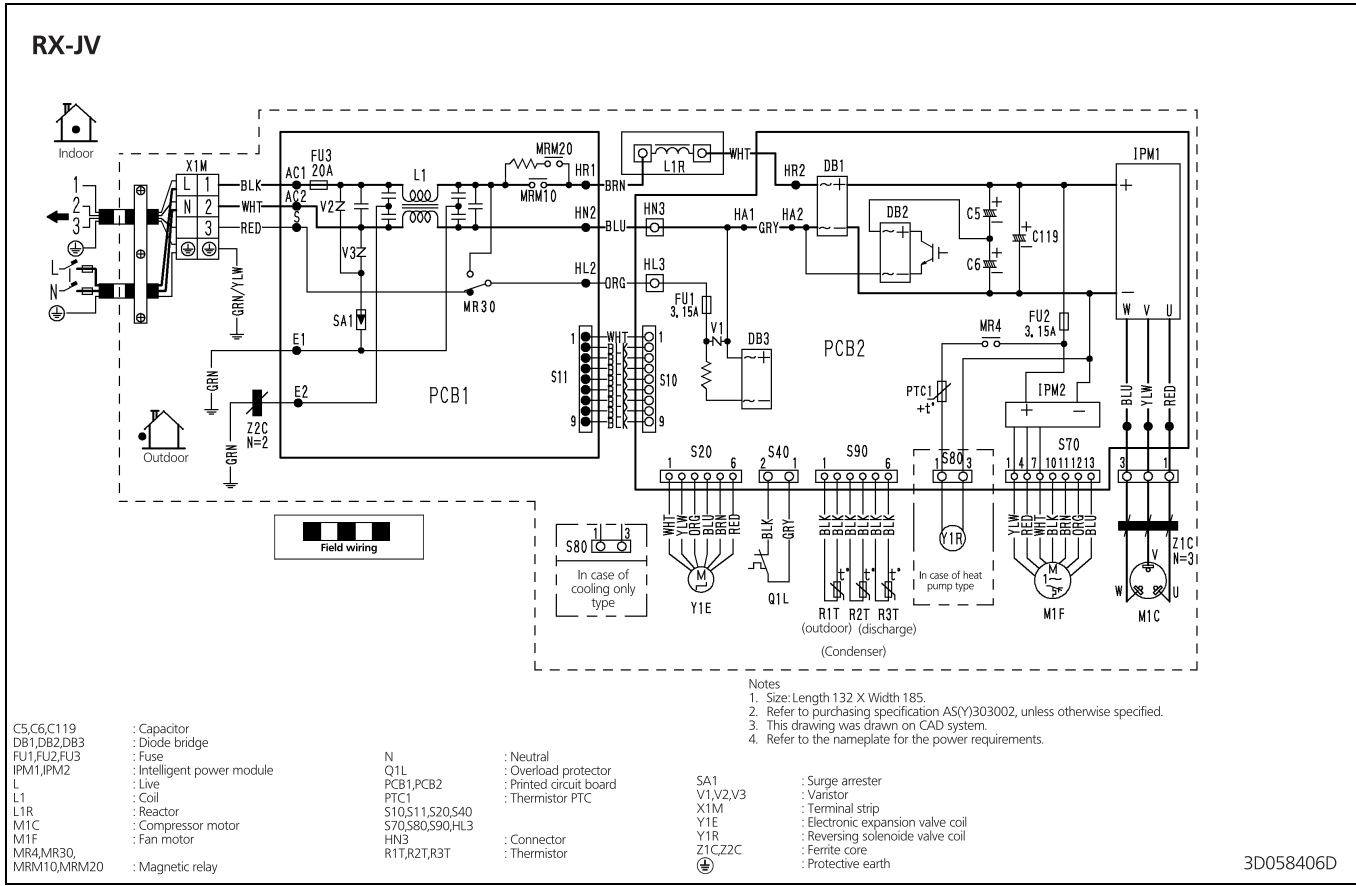
7 - 1 Piping Diagrams

7



8 Wiring diagrams

8 - 1 Wiring Diagrams - Single Phase

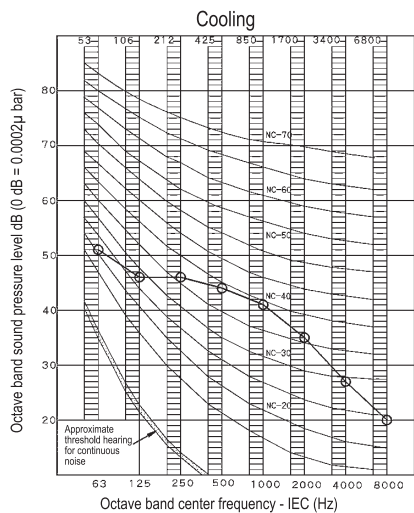


9 Sound data

9 - 1 Sound Pressure Spectrum - Cooling

9

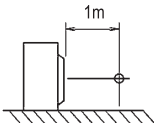
RX20JV



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.

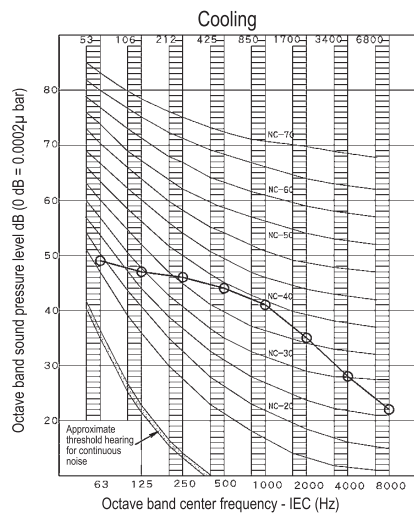
JISC9612
The operation noise measuring method is in accordance with JISC9612



Scale	50Hz 230v (H)
A	46

3D059002B

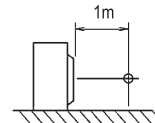
RX25JV



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

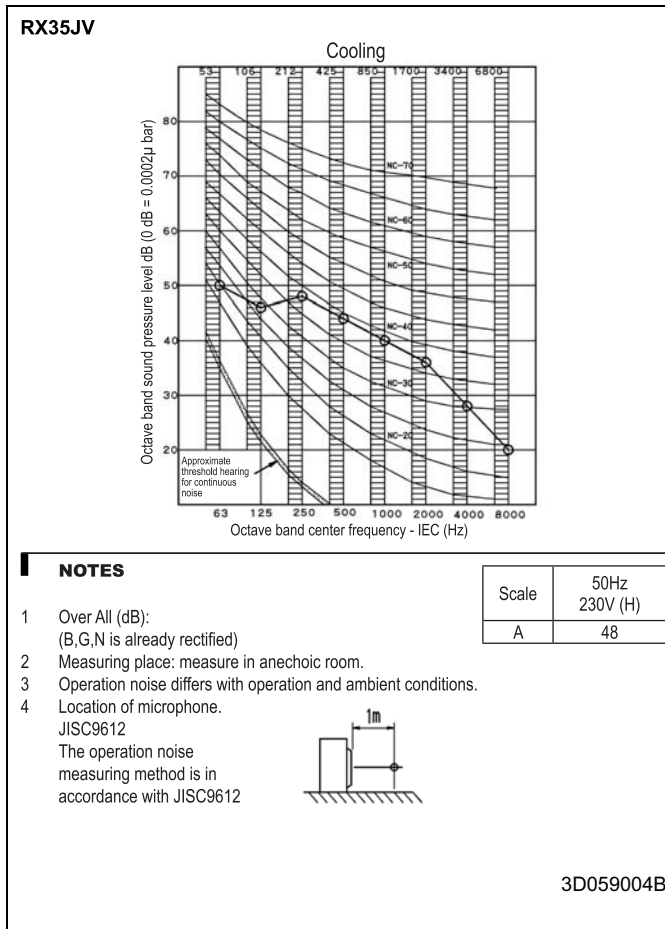


Scale	50Hz 230v (H)
A	46

3D059003B

9 Sound data

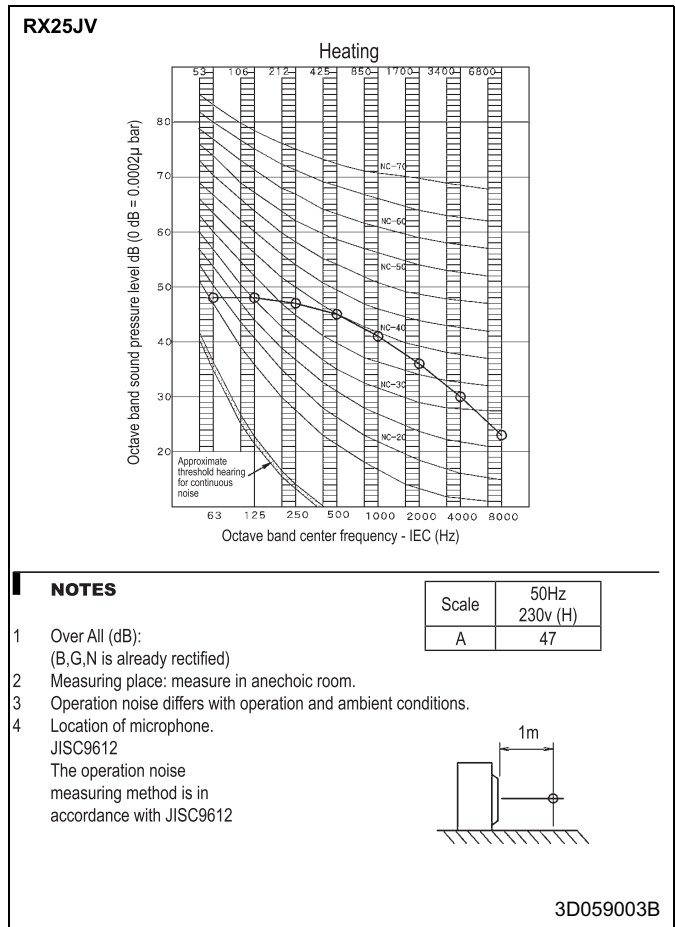
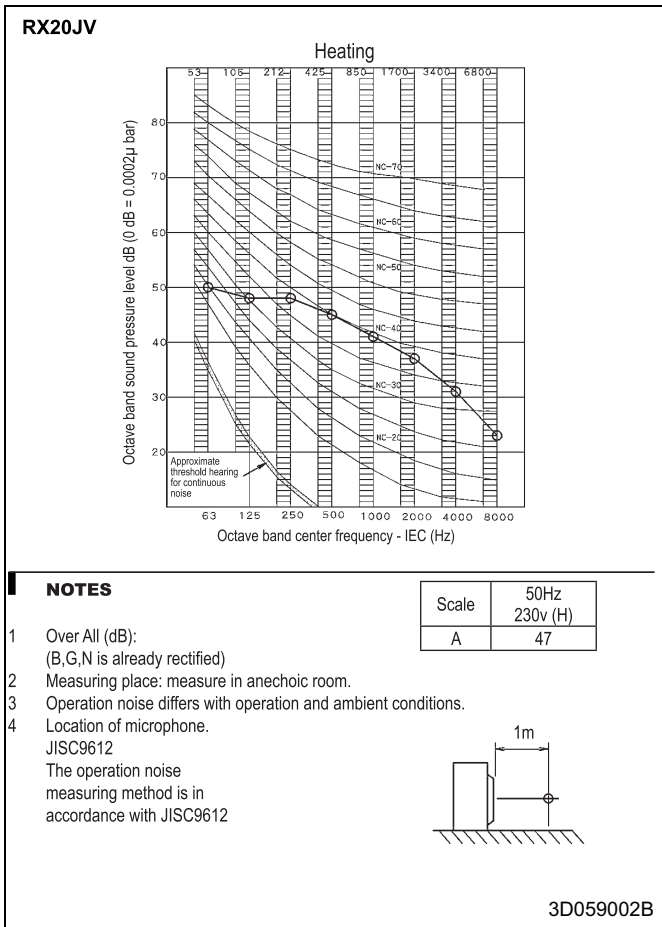
9 - 1 Sound Pressure Spectrum - Cooling



9 Sound data

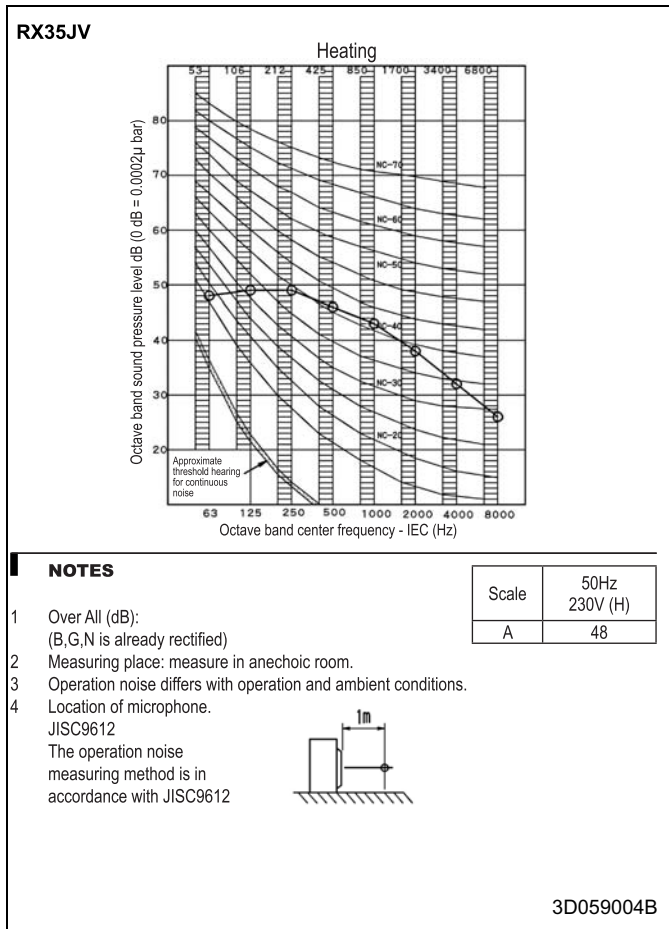
9 - 2 Sound Pressure Spectrum - Heating

9



9 Sound data

9 - 2 Sound Pressure Spectrum - Heating

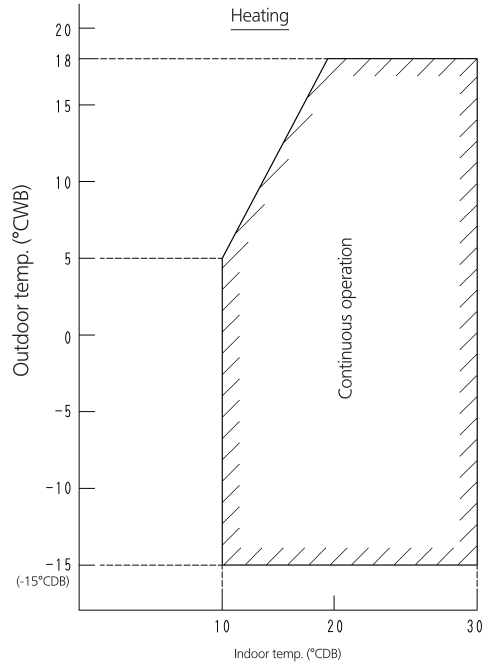
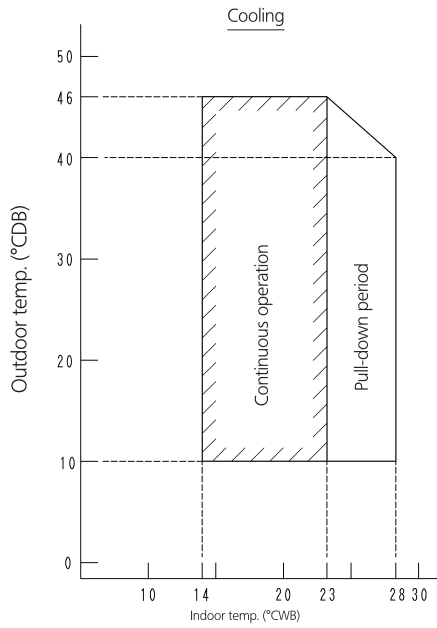


10 Operation range

10 - 1 Operation Range

10

RX-JV



Notes:
 The graphs are based on the following conditions:

- Equivalent piping length 5.0 m
- Level difference 0 m
- Air flow rate high

3D058975B



Daikin Europe N.V. participates in the Eurovent Certification programme for Air conditioners (AC), Liquid Chilling Packages (LCP) and Fan coil units (FCU). Check on-going validity of certificate online: www.eurovent-certification.com or using: www.certiflash.com

The present leaflet is drawn up by way of information only and does not constitute an offer binding upon Daikin Europe N.V.. Daikin Europe N.V. has compiled the content of this leaflet to the best of its knowledge. No express or implied warranty is given for the completeness, accuracy, reliability or fitness for particular purpose of its content and the products and services presented therein. Specifications are subject to change without prior notice. Daikin Europe N.V. explicitly rejects any liability for any direct or indirect damage, in the broadest sense, arising from or related to the use and/or interpretation of this leaflet. All content is copyrighted by Daikin Europe N.V.

BARCODE

Daikin products are distributed by: