



Air Conditioning Technical Data



EEDEN14-100

RX-JV

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RX-JV

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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.
- Outdoor units for pair application
- Outdoor units are fitted with a swing compressor, renowned for its low noise and high energy efficiency
- Daikin outdoor units are neat, sturdy and can easily be mounted on a roof or terrace or simply placed against an outside wall



Inverter



Energy saving during standby mode

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		
	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	
		cfm		1,030		975		
		Heating	High	m ³ /min	26.2		24.5	
				cfm	927		865	
	Super low		m ³ /min	-		-		
		cfm	-		-			
	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			dBA	60		62
		Heating			dBA	61		62
Sound pressure level	Cooling	High		dBA	46		48	
	Heating	High		dBA	47		48	
Operation range	Cooling	Ambien t	Min.	°CDB	10			
			Max.	°CDB	46			
	Heating	Ambien t	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		

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.

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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
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Indoor		Outdoor temperature (°C WB)											
°C	EDB	-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

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FTX25JV + RX25JV

Cooling 50Hz 220-240V

AFR	9.2
BF	0.29

Indoor			Outdoor temperature (°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	2.15	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)											
°C	EDB	-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

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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
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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

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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

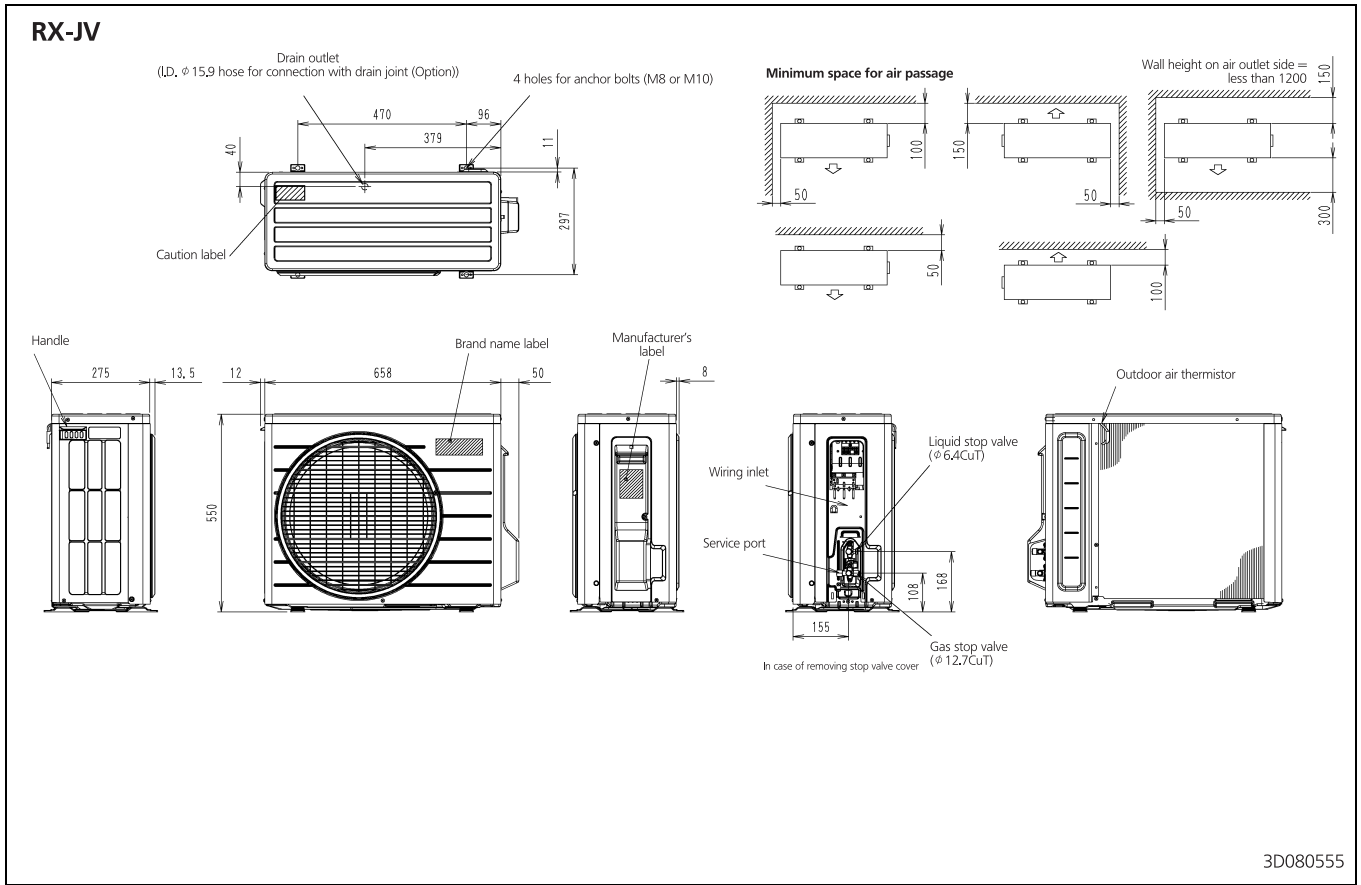
- Capacities are based on the following conditions:
 - Corresponding refrigerant piping length: 5m
 - Level difference: 0m
- | |
|--|
| |
|--|

 shows nominal (rated) capacities and power input.

5 Dimensional drawings

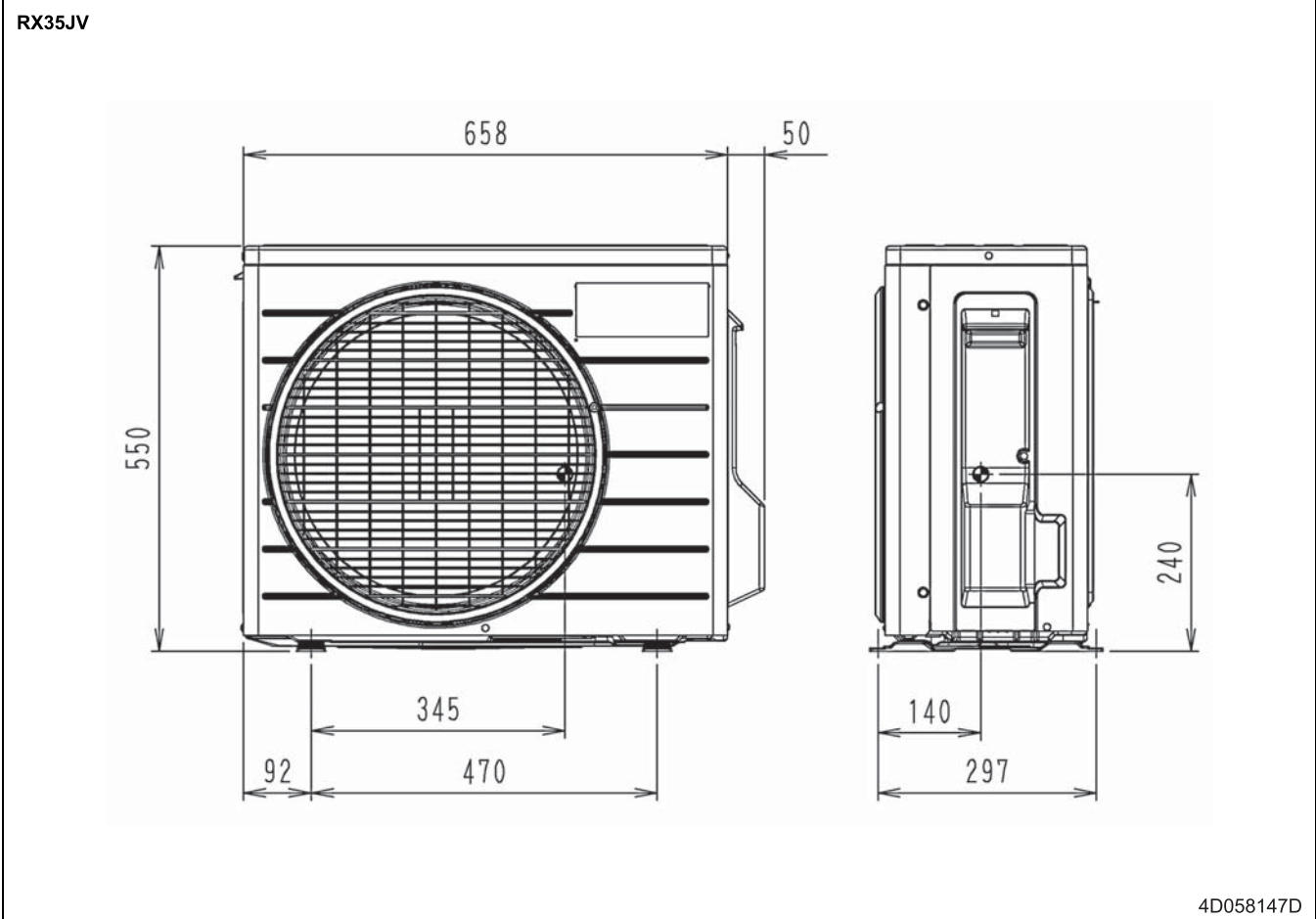
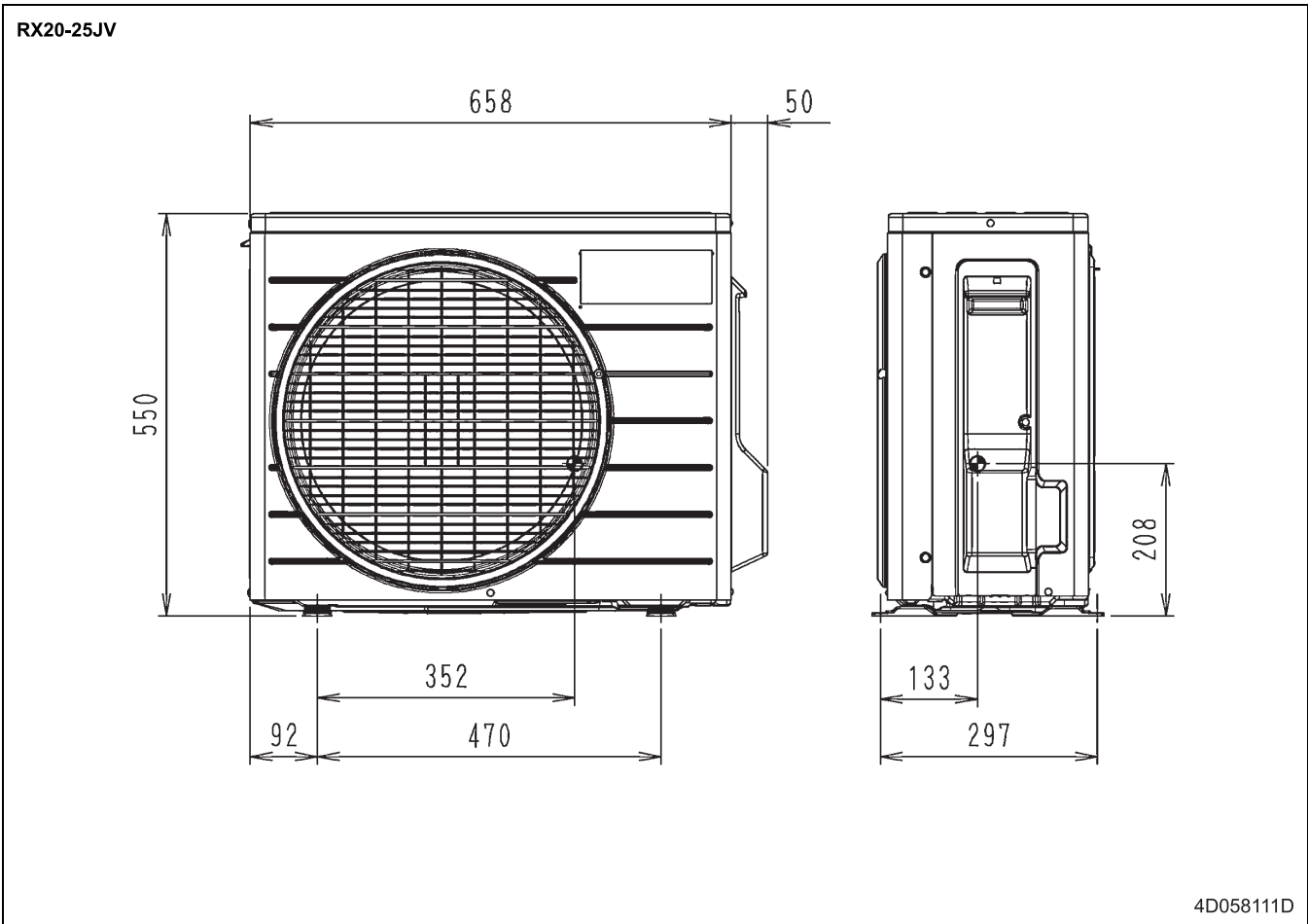
5 - 1 Dimensional Drawings

5



6 Centre of gravity

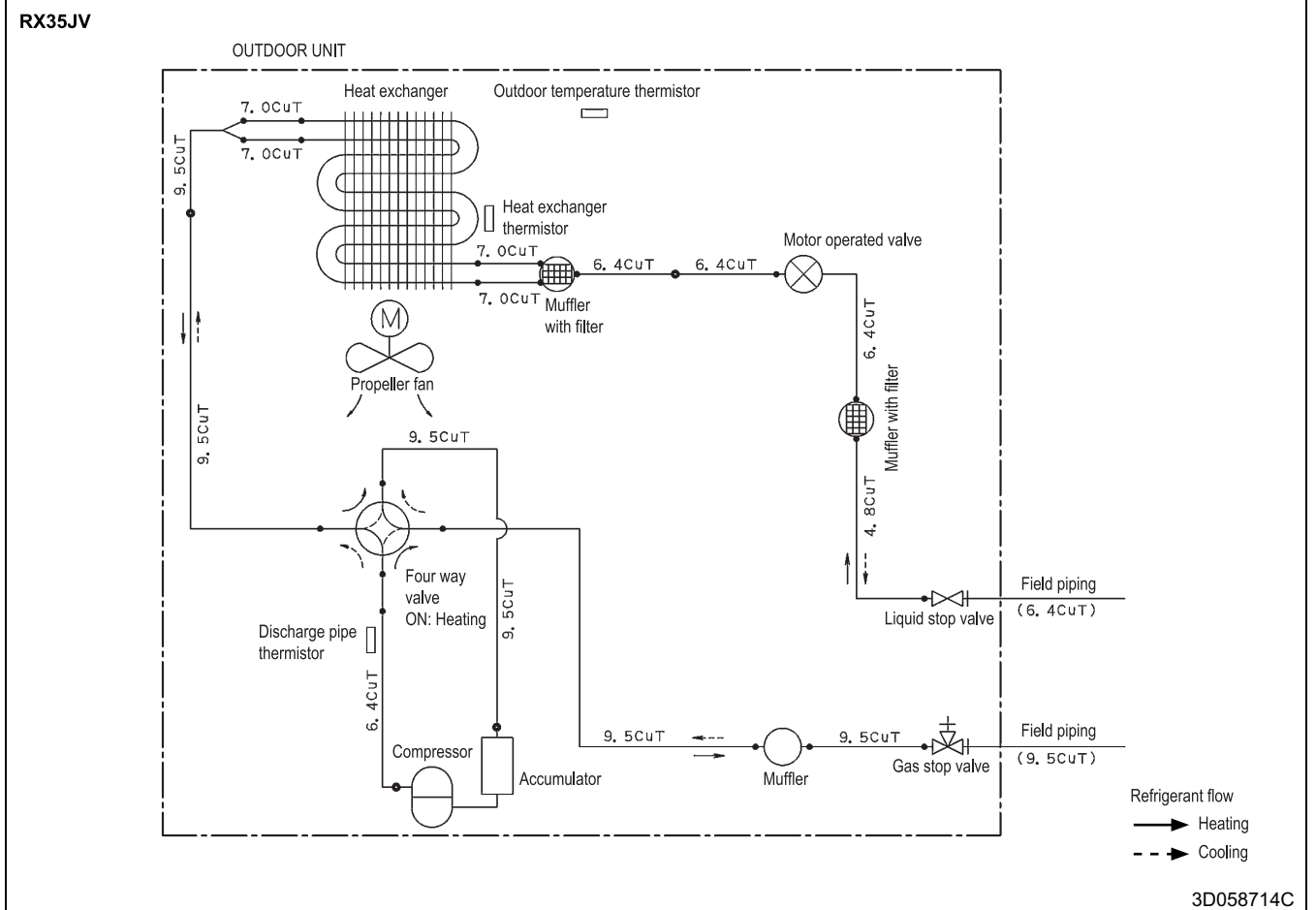
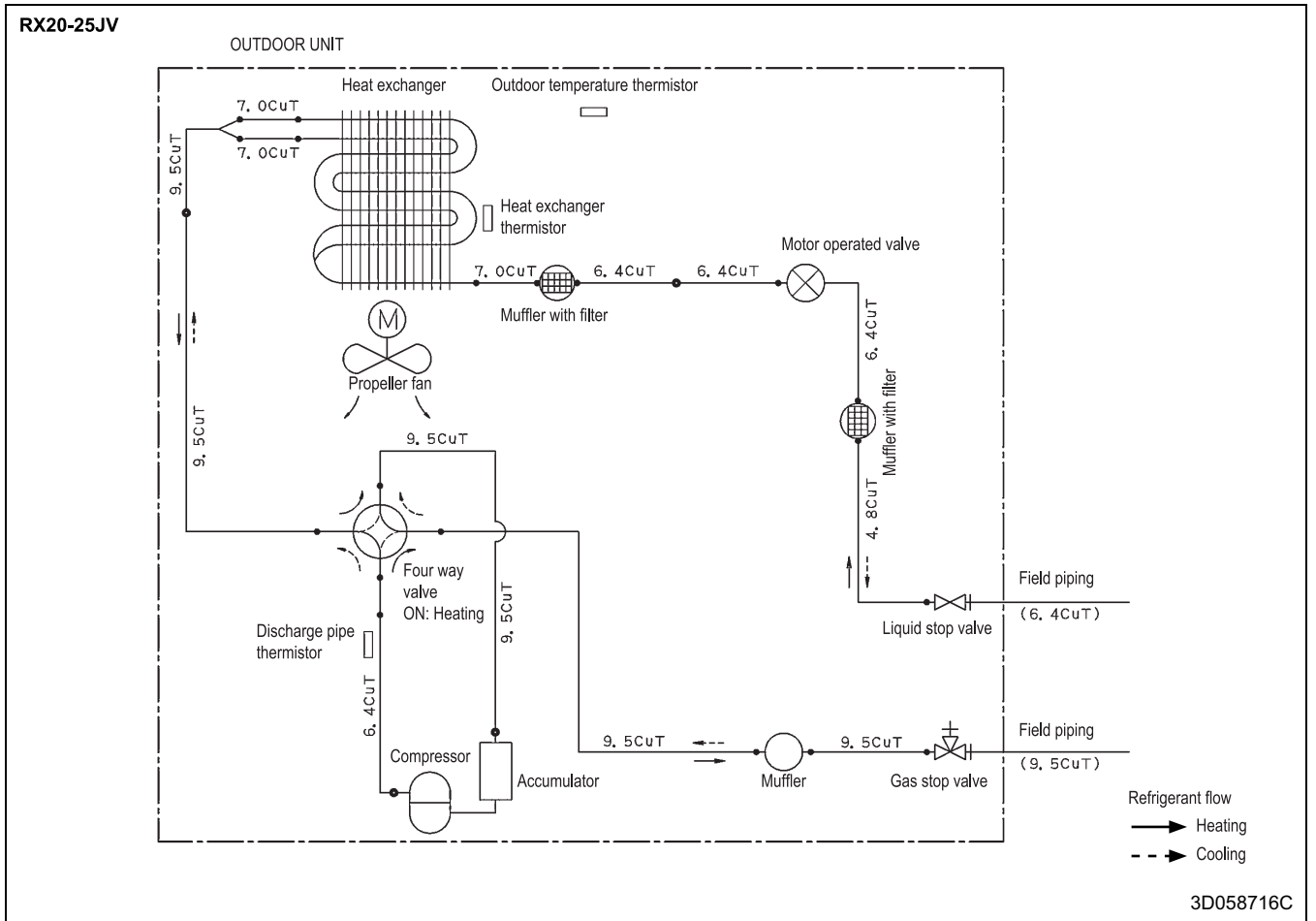
6 - 1 Centre of Gravity



7 Piping diagrams

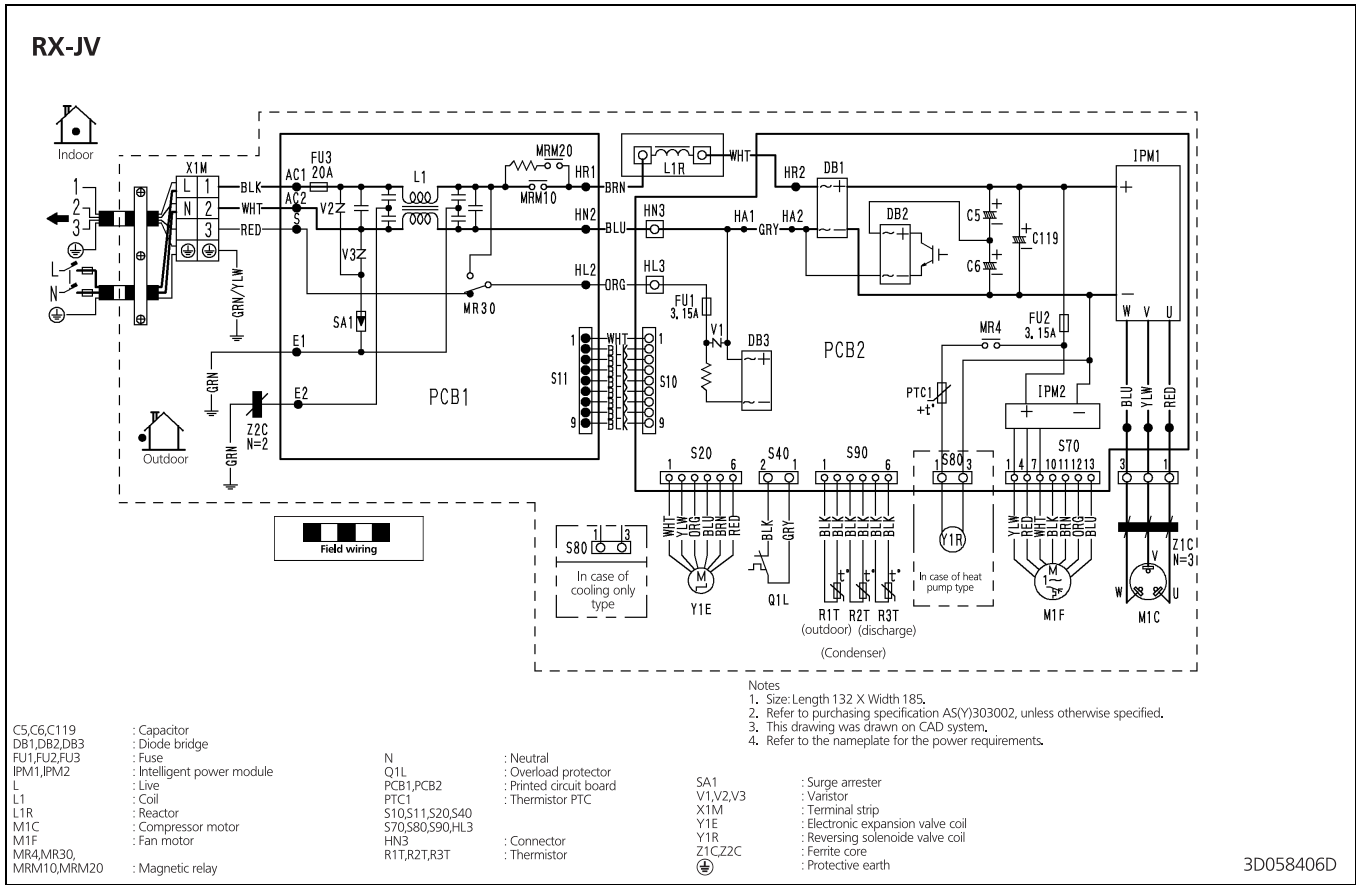
7 - 1 Piping Diagrams

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8 Wiring diagrams

8 - 1 Wiring Diagrams - Single Phase

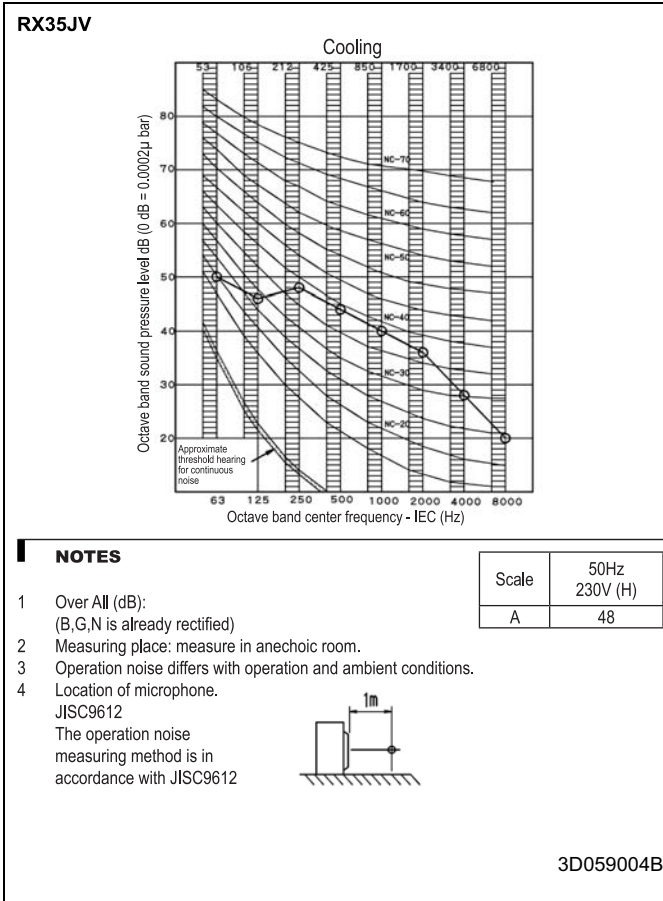
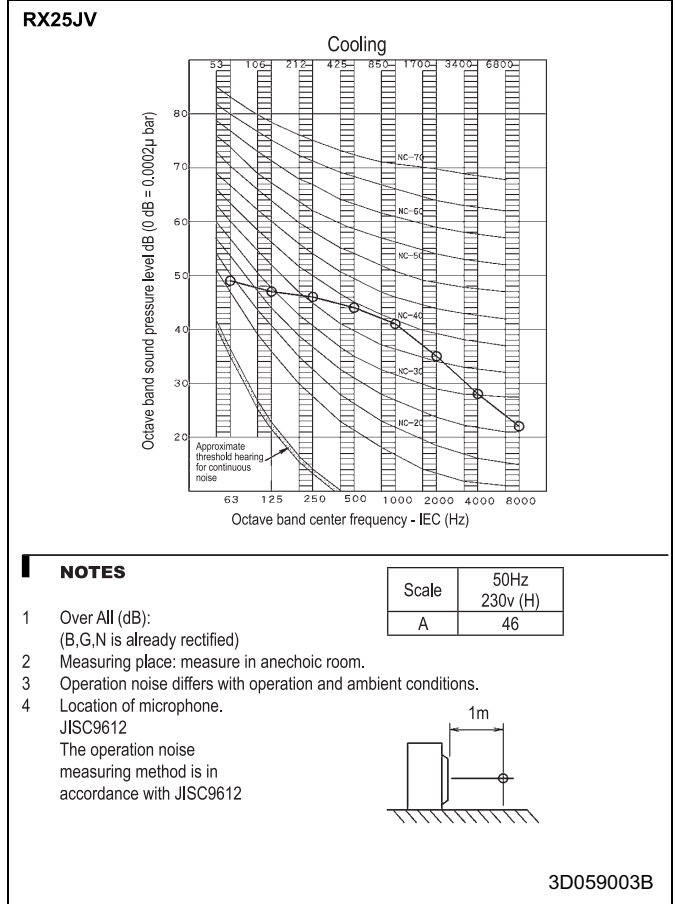
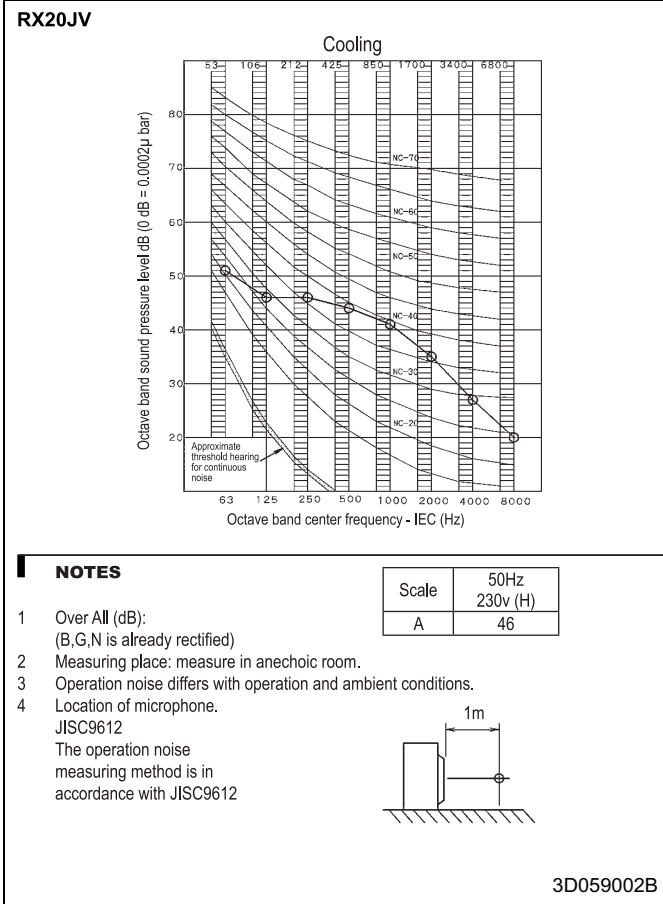


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9 Sound data

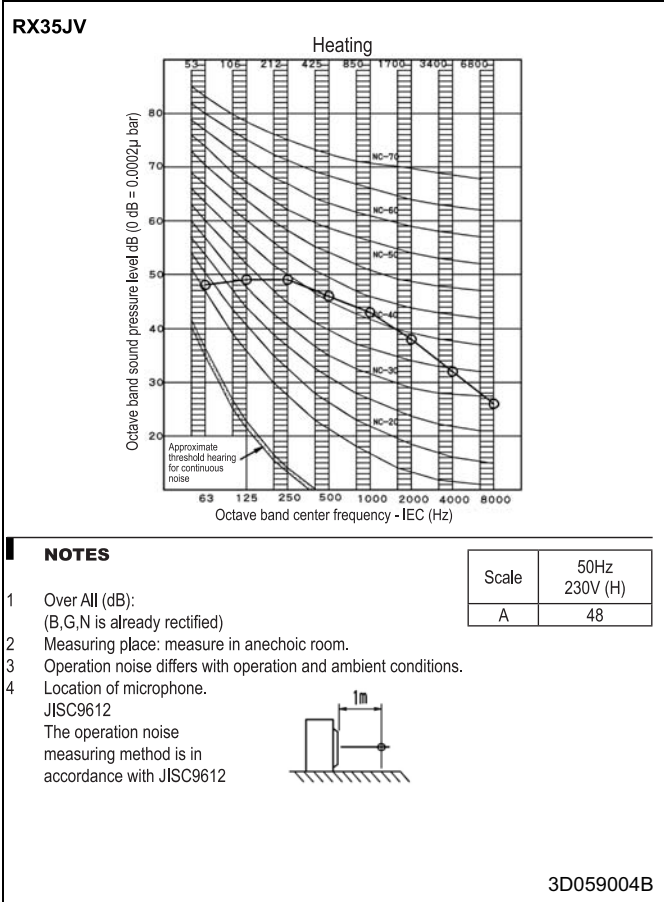
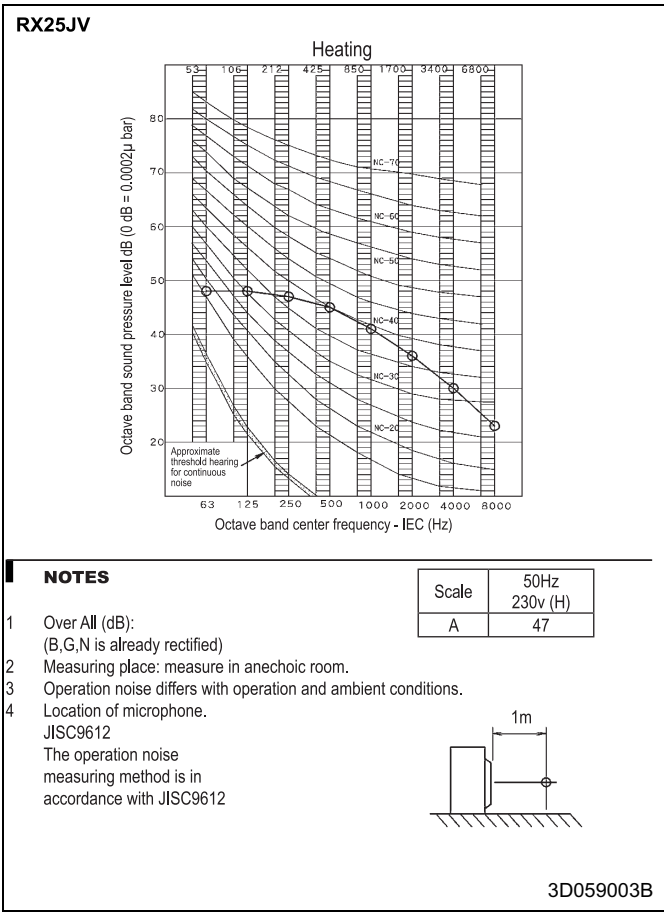
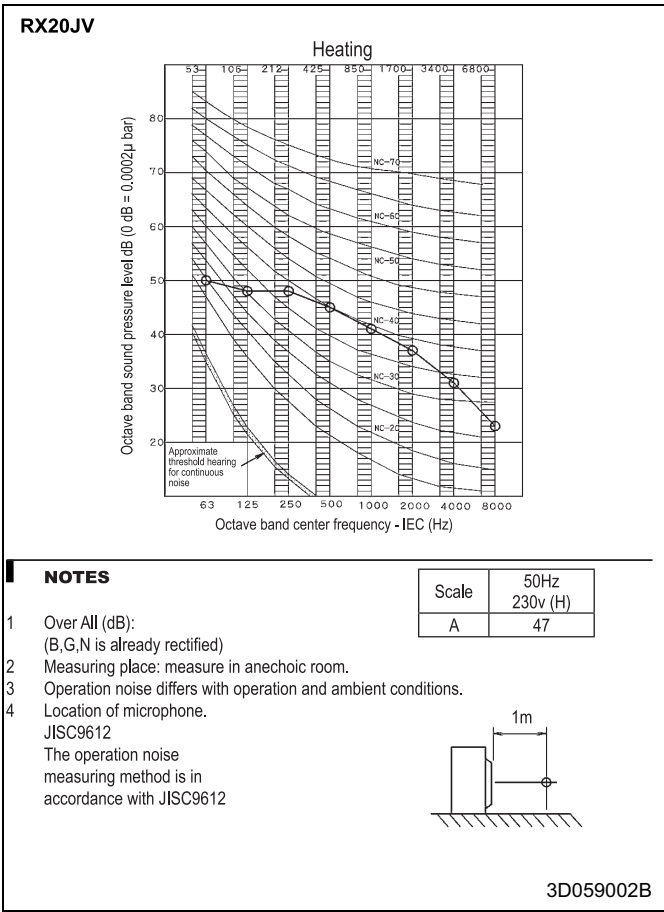
9 - 1 Sound Pressure Spectrum - Cooling

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9 Sound data

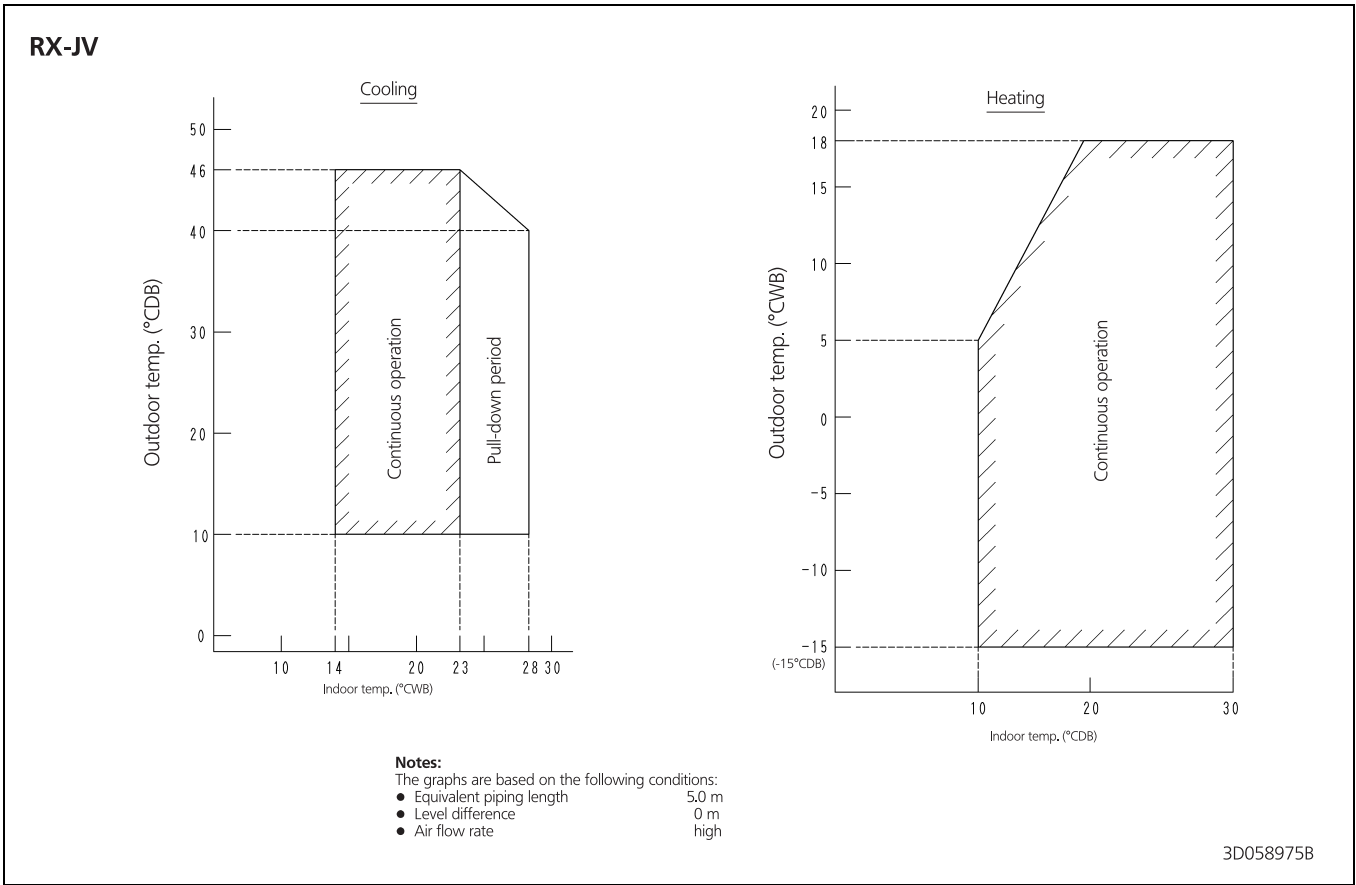
9 - 2 Sound Pressure Spectrum - Heating



10 Operation range

10 - 1 Operation Range

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