



Air Conditioning

Technical Data



EEDEN13-030

ARX-JV

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ARX-JV

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1 Features

- Outdoor units for pair application
- 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



Inverter



Energy efficiency



Energy saving during standby mode

2 Specifications

2-1 Nominal Capacity And Nominal Input				ATX20JV/ARX20JV		ATX25JV/ARX25JV		ATX35JV/ARX35JV		
Cooling capacity	Min.		kW	1.3						
			Btu/h	4,400						
			kcal/h	1,120						
	Nom.		kW	2.0 (2)		2.5 (2)		3.3 (2)		
			Btu/h	6,800 (2)		8,500 (2)		11,300 (2)		
			kcal/h	1,720 (2)		2,150 (2)		2,840 (2)		
	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 (3)		2.8 (3)		3.5 (3)		
			Btu/h	8,500 (3)		9,600 (3)		11,900 (3)		
			kcal/h	2,150 (3)		2,410 (3)		3,010 (3)		
	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				5.66		
		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	18.0						
Heat insulation			Both liquid and gas pipes							

Notes

- (1) EER/COP according to Eurovent 2012
 (2) Cooling: indoor temp. 27°CDB, 19.0°CWB; outdoor temp. 35°CDB, 24°CWB; equivalent piping length: 5m (horizontal)
 (3) Heating: indoor temp. 20°CDB; outdoor temp. 7°CDB, 6°CWB; equivalent refrigerant piping: 5m

2 Specifications

2-2 Technical Specifications					ARX20JV		ARX25JV		ARX35JV		
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						
Fan	Type				Propeller fan						
	Air flow rate	Cooling	High	m³/min	29.2				27.6		
				cfm	1,030				975		
			Nom.	m³/min	29.2				27.6		
				cfm	1,030				975		
		Super low	m³/min	-							
			cfm	-							
			Heating	High	m³/min	26.2				24.5	
					cfm	927				865	
	Super low	m³/min		-							
		cfm		-							
	Running current	Cooling	Standard	A	2.52	3.52			5.02		
		Heating	Standard	A	2.62	3.02			4.52		
	Power consumption	Cooling	Standard	W	510	690			940		
Heating		Standard	W	550	650			890			
Fan motor	Model				KFD-280-33-8A						
	Output			W	33.00						
	Speed	Cooling	High	rpm	860						
			Low	rpm	720						
			Super low	rpm	-						
		Heating	High	rpm	860						
			Low	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						
		System	Chargeless	m	10						
	Level difference	IU - OU	Max.	m	12						

2 Specifications

2-3 Electrical Specifications				ARX20JV	ARX25JV	ARX35JV
Power supply	Name			V1		
	Phase			1~		
	Frequency	Hz		50		
	Voltage	V		220-230-240		
Current	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	-		
Current - 60Hz	Maximum fuse amps (MFA)		A	-		
Wiring connections	For power supply	Remark		3 for power supply, 4 for interunit wiring (including earth wiring)		

Notes

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

3 Electrical data

3 - 1 Electrical Data

ARX-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
ATX20JV	ARX20JV	50 - 220	Max. 50Hz 264V Min. 50Hz 198V	14.5	16	36	2.2	33	0.17	16	0.12
		50 - 230									
		50 - 240									
ATX25JV	ARX25JV	50 - 220	Max. 50Hz 264V Min. 50Hz 198V	14.5	16	48	3.2	33	0.17	16	0.12
		50 - 230									
		50 - 240									
ATX35JV	ARX35JV	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/19.0°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

ATX20JV+ARX20JV

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.

4 Capacity tables

4 - 1 Cooling/Heating Capacity Tables

ATX25JV+ARX25JV

Cooling 50Hz 220-240V

AFR	9.2
BF	0.29

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	2.15	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 (°C WB)									
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

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

4 Capacity tables

4 - 1 Cooling/Heating Capacity Tables

ATX35JV+ARX35JV

Cooling 50Hz 220-240V

AFR	9.3
BF	0.25

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	2.30	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 (°C WB)									
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

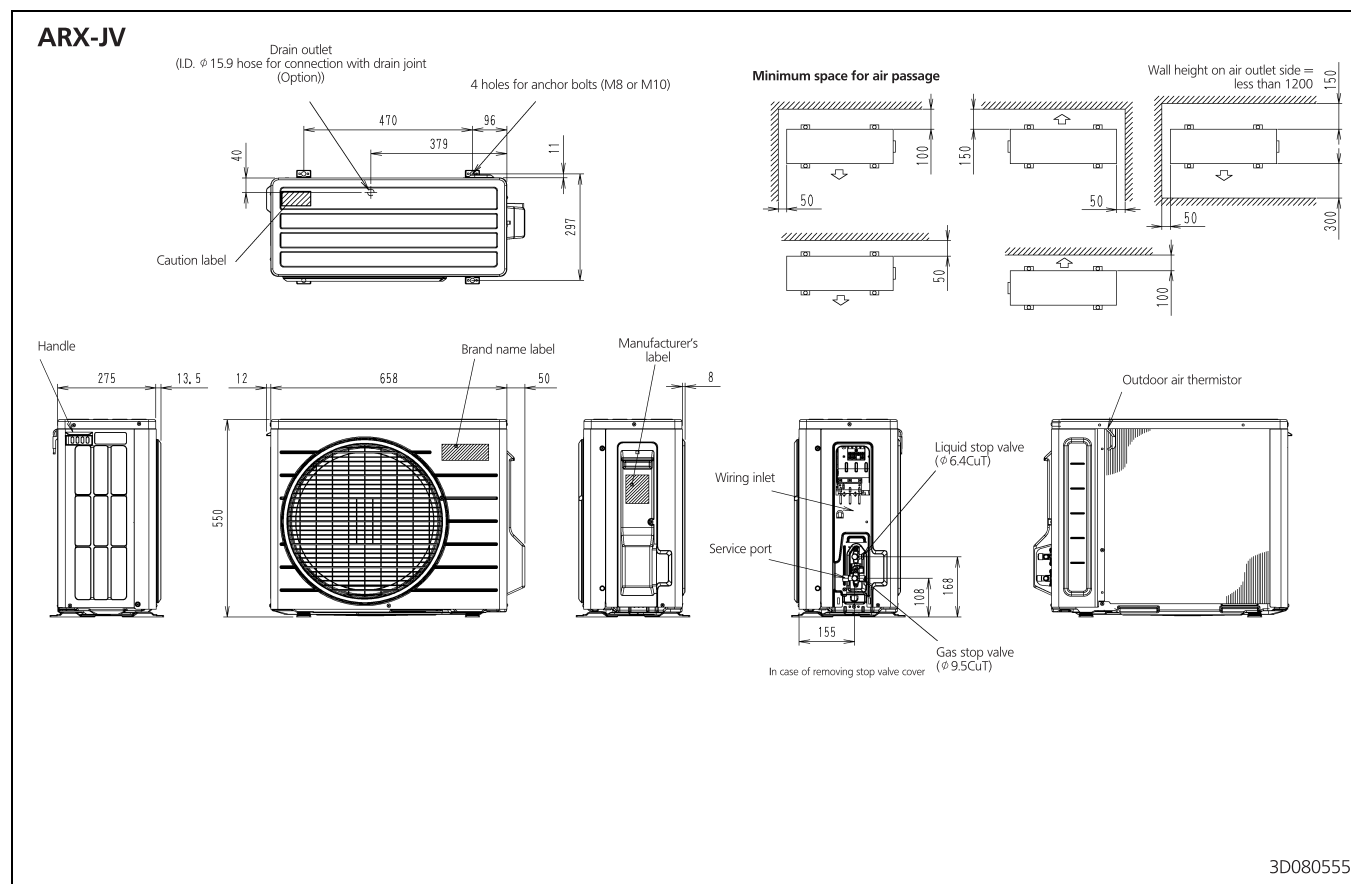
AFR	: Air flow rate	(m ³ /min.)
BF	: Bypass factor	
EWB	: Entering wet bulb temp.	(°C)
EDB	: Entering dry bulb temp.	(°C)
TC	: Total capacity	(kW)
SHC	: Sensible heat capacity	(kW)
PI	: Power input	(kW)

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

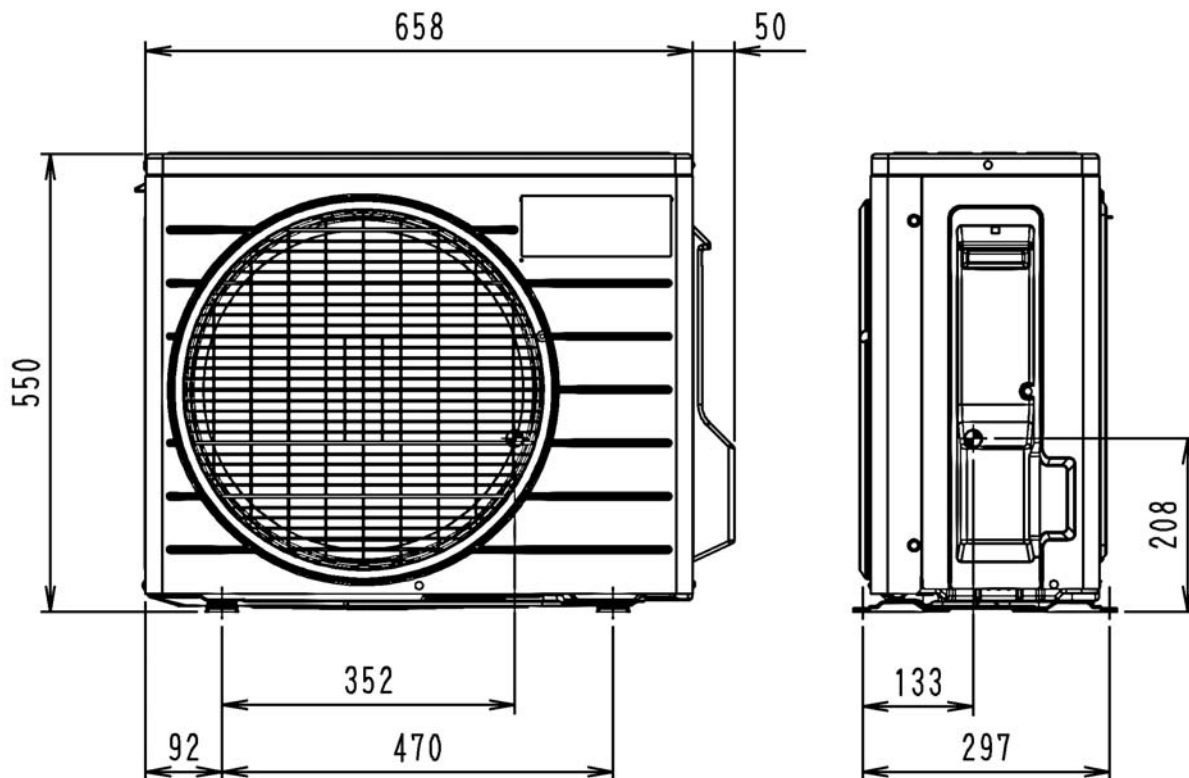
5 - 1 Dimensional Drawings



6 Centre of gravity

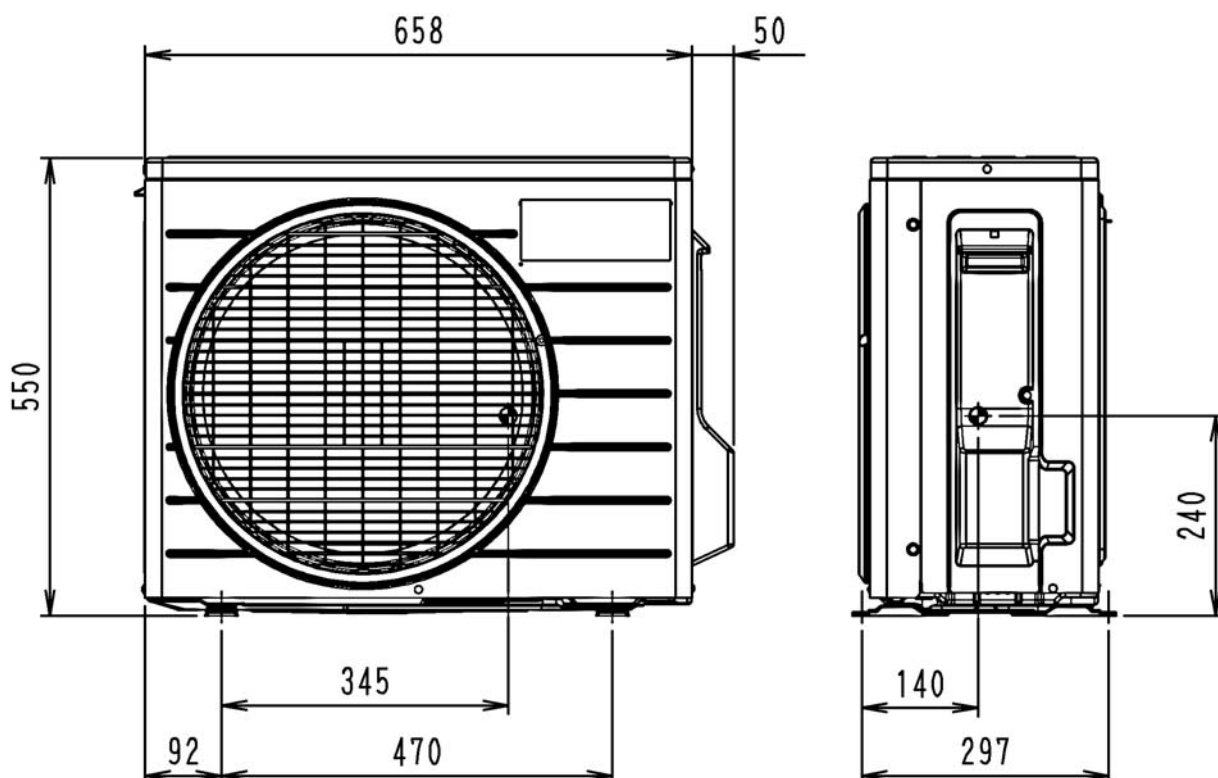
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ARX20-25JV



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ARX35JV



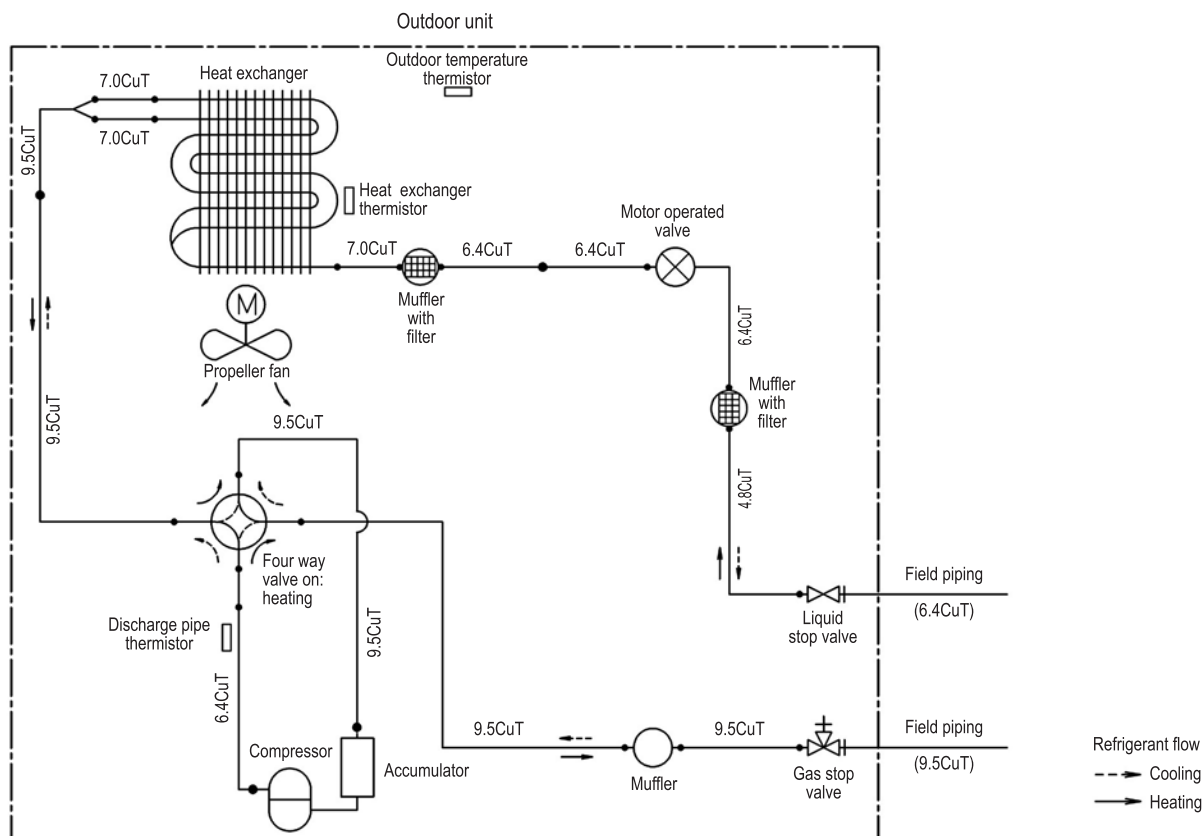
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7 Piping diagrams

7 - 1 Piping Diagrams

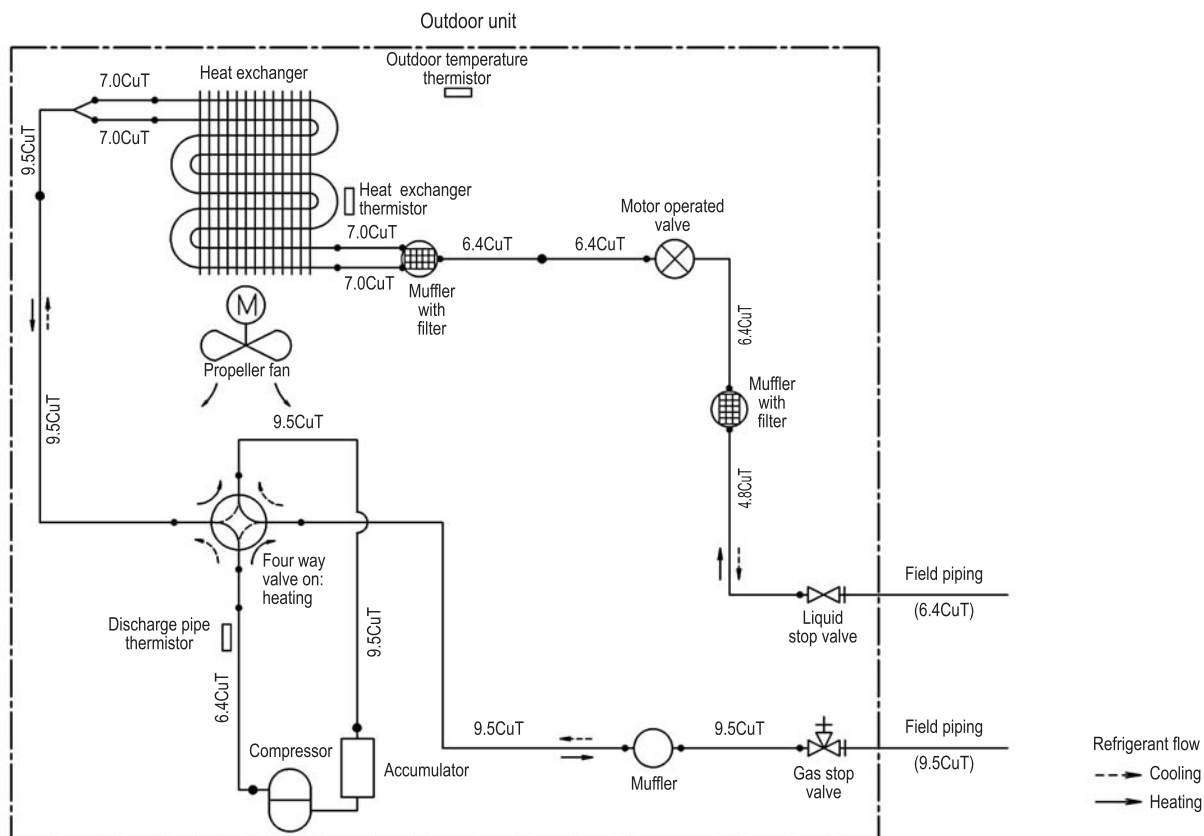
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ARX20-25JV



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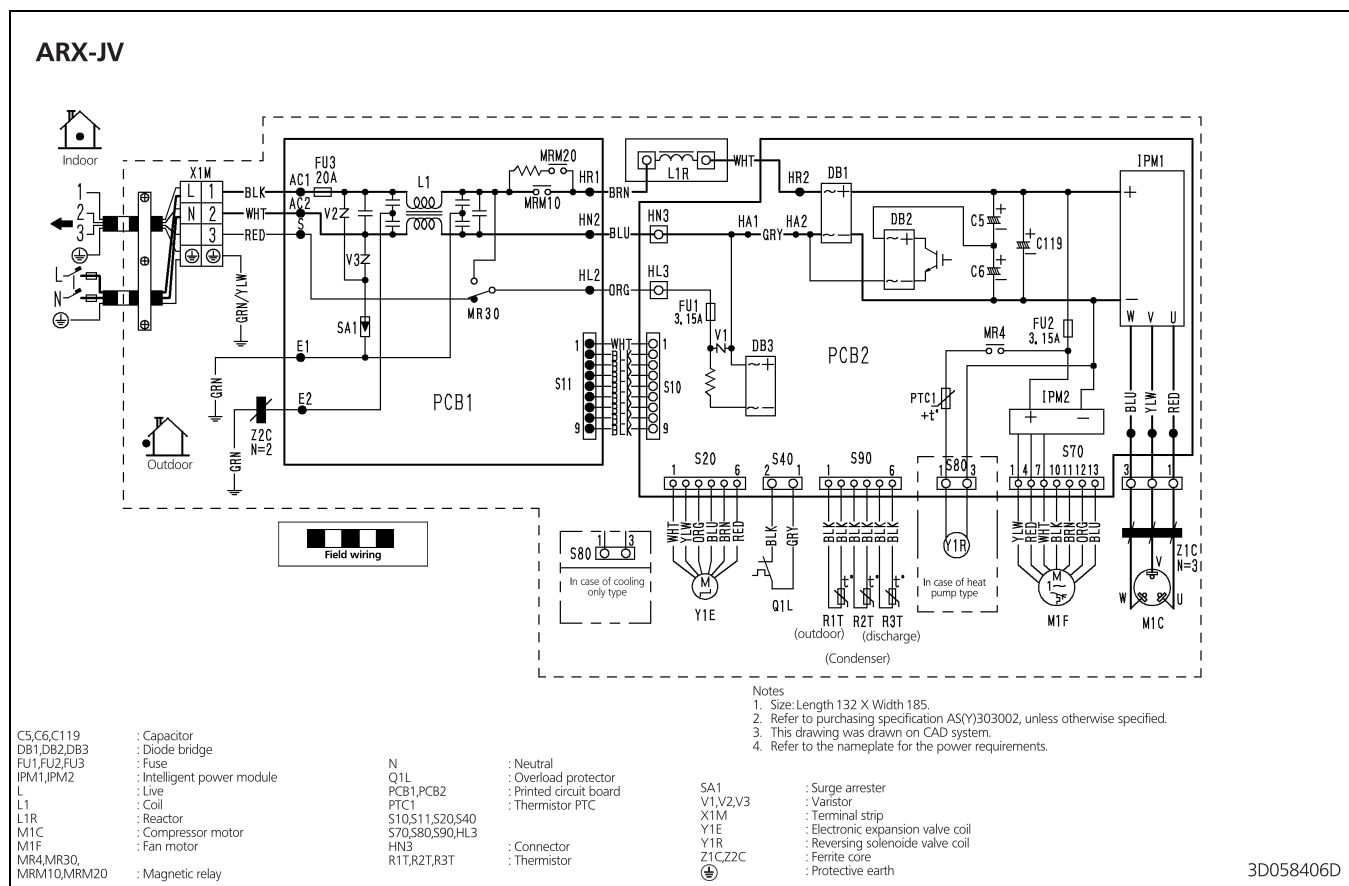
ARX35JV



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8 Wiring diagrams

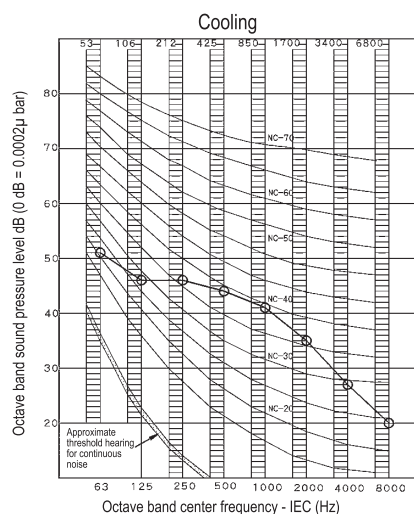
8 - 1 Wiring Diagrams - Single Phase



9 Sound data

9 - 1 Sound Pressure Spectrum - Cooling

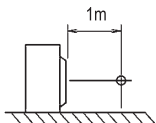
ARX20JV



NOTES

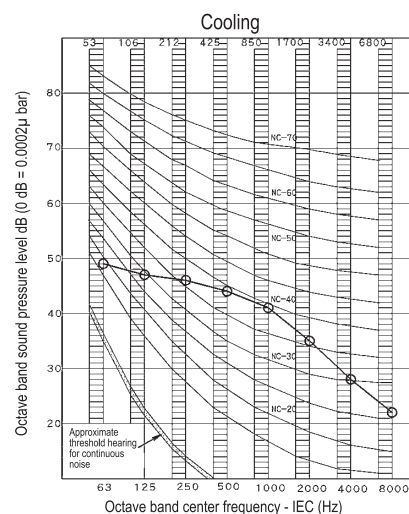
- 1 Over All (dB):
(B,G,N is already rectified)
- 2 Measuring place: measure in anechoic room.
- 3 Operation noise differs with operation and ambient conditions.
- 4 Location of microphone.
JISC9612
The operation noise
measuring method is in
accordance with JISC9612

Scale	50Hz 230v (H)
A	46



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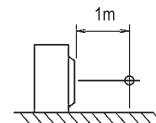
ARX25JV



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

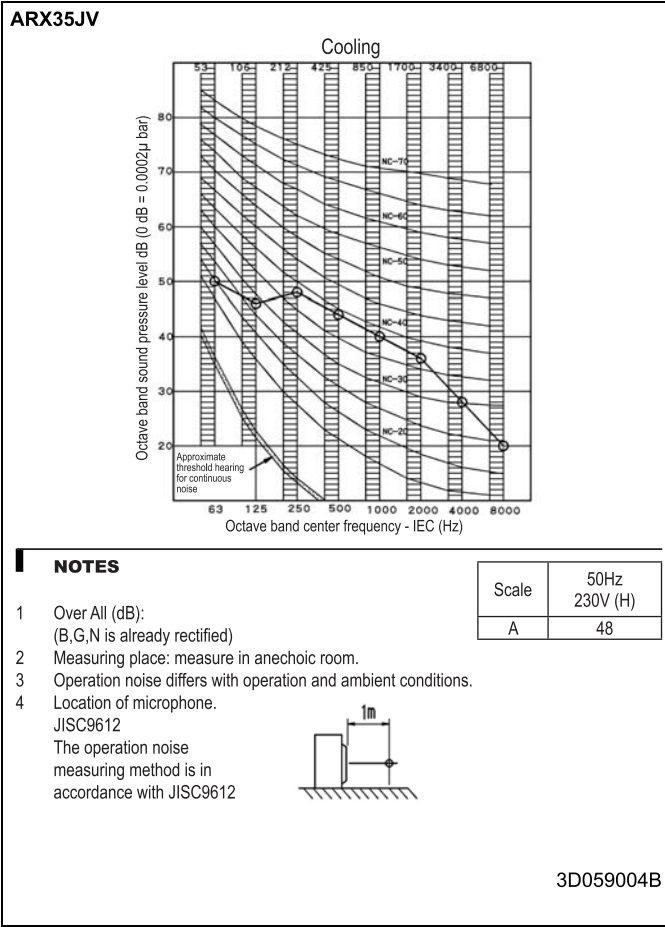
Scale	50Hz 230v (H)
A	46



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9 Sound data

9 - 1 Sound Pressure Spectrum - Cooling

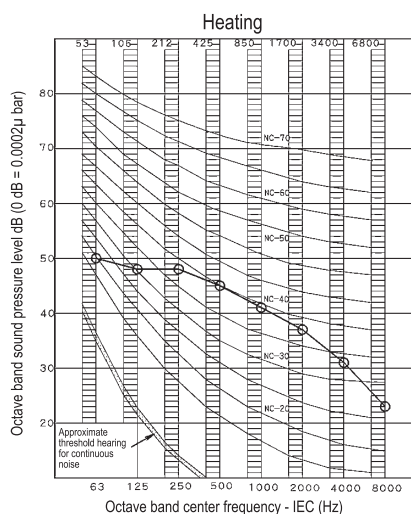


9 Sound data

9 - 2 Sound Pressure Spectrum - Heating

9

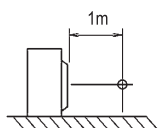
ARX20JV



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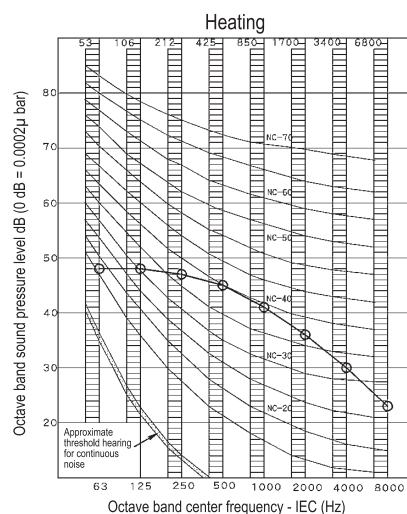
- 1 Over All (dB):
(B,G,N is already rectified)
- 2 Measuring place: measure in anechoic room.
- 3 Operation noise differs with operation and ambient conditions.
- 4 Location of microphone.
JISC9612
The operation noise
measuring method is in
accordance with JISC9612

Scale	50Hz 230v (H)
A	47



3D059002B

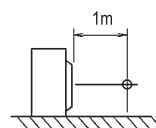
ARX25JV



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

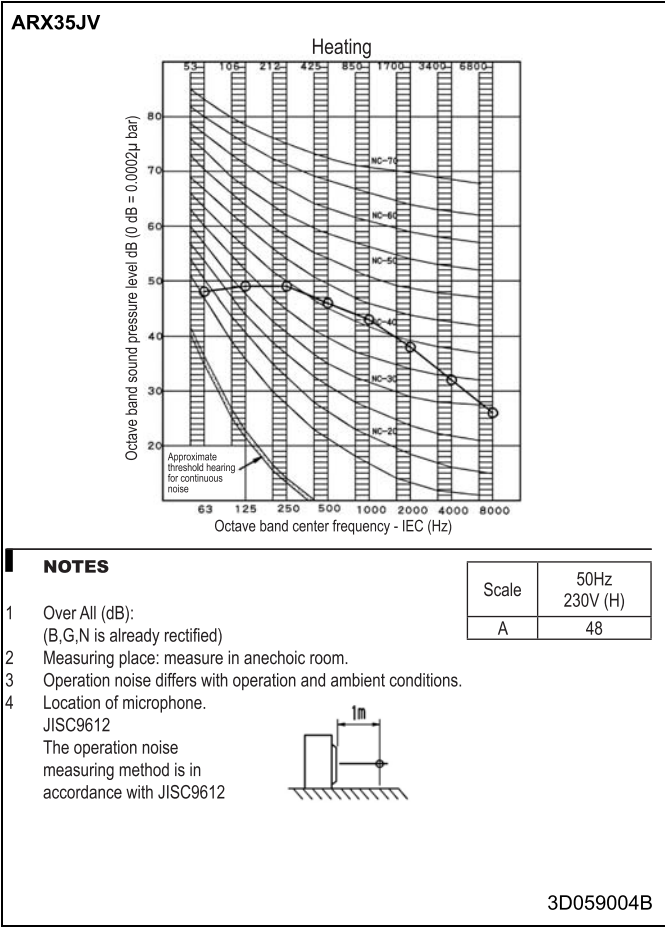
Scale	50Hz 230v (H)
A	47



3D059003B

9 Sound data

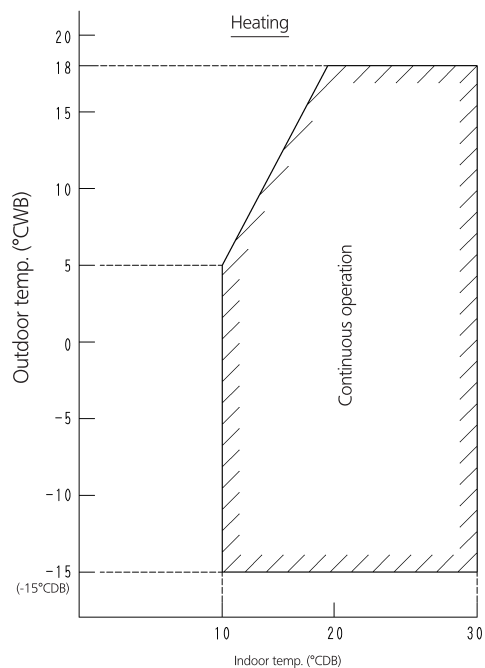
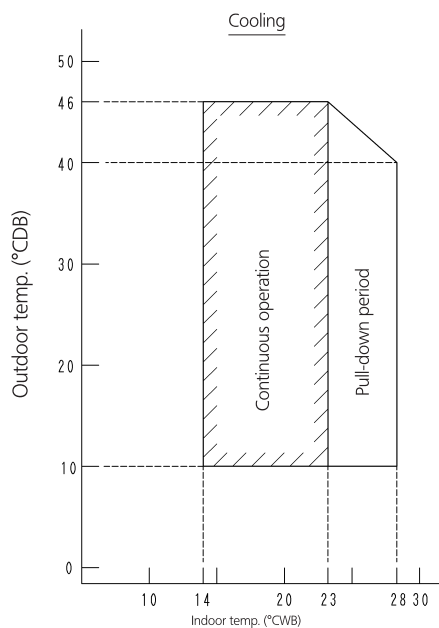
9 - 2 Sound Pressure Spectrum - Heating



10 Operation range

10 - 1 Operation Range

ARX-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



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