



Air Conditioning Technical Data



EEDEN14-030

ARX-JV

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ARX-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.
- Energy efficient units: up to class A energy labels
- Outdoor units for pair application
- 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

1



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		2.5		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				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					
Gas		OD	mm	9.52						
Drain		OD	mm	18						
Heat insulation			Both liquid and gas pipes							

Notes

- (1) EER/COP according to Eurovent 2012, for use outside EU only
- (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

2-2 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

2 Specifications

2-2 Technical Specifications					ARX20JV		ARX25JV		ARX35JV		
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			dBA	60				62		
	Heating			dBA	61				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						
	Additional refrigerant charge				kg/m	0.02 (for piping length exceeding 10m)					
	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

3

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.

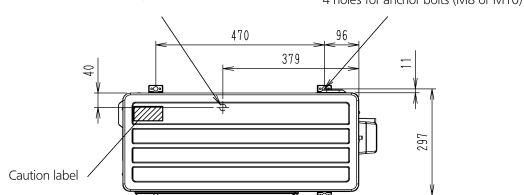
5 Dimensional drawings

5 - 1 Dimensional Drawings

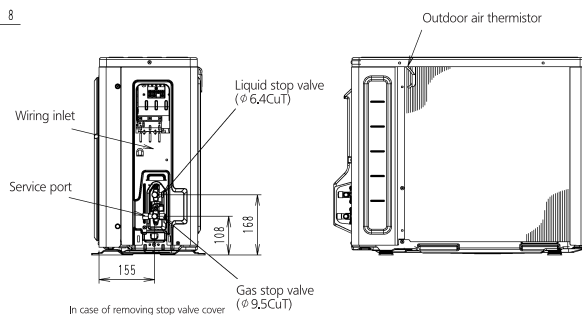
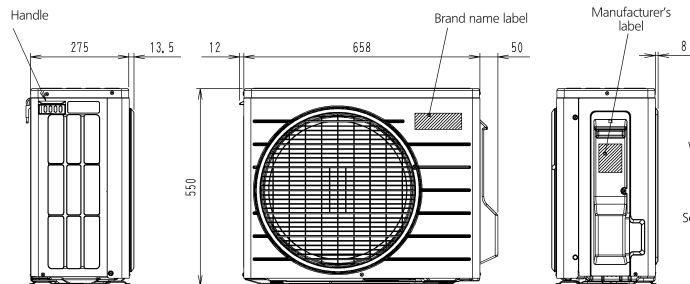
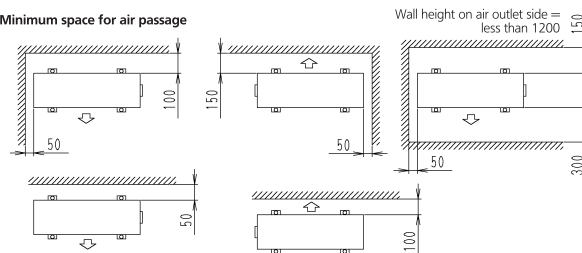
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ARX-JV

Drain outlet
(L.D. ϕ 15.9 hose for connection with drain joint
(Option))



Minimum space for air passage

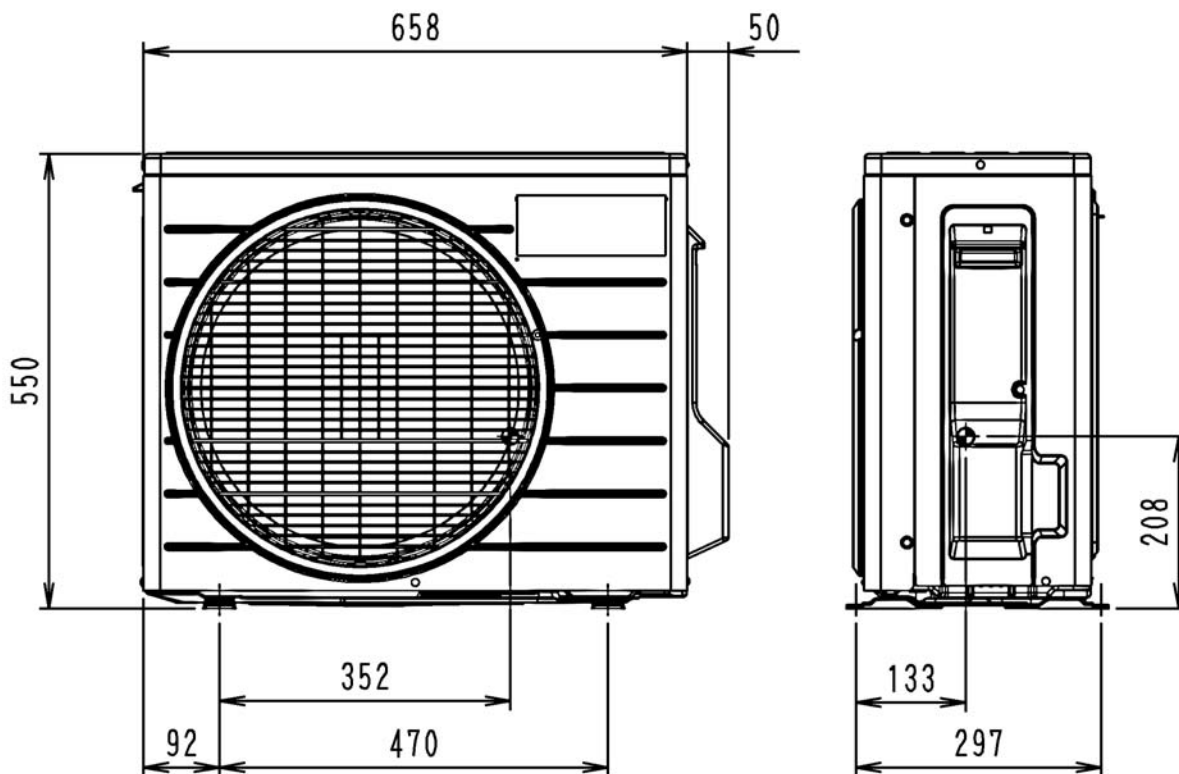


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6 Centre of gravity

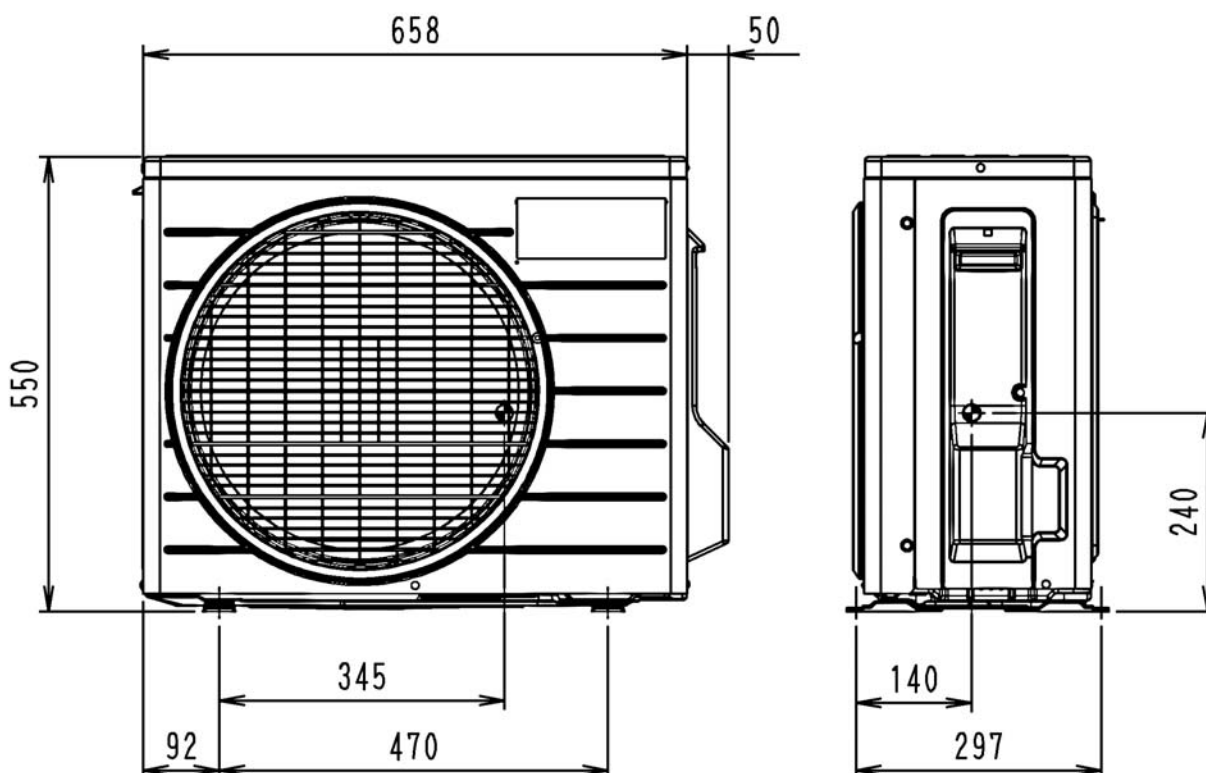
6 - 1 Centre of Gravity

ARX20-25JV



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ARX35JV

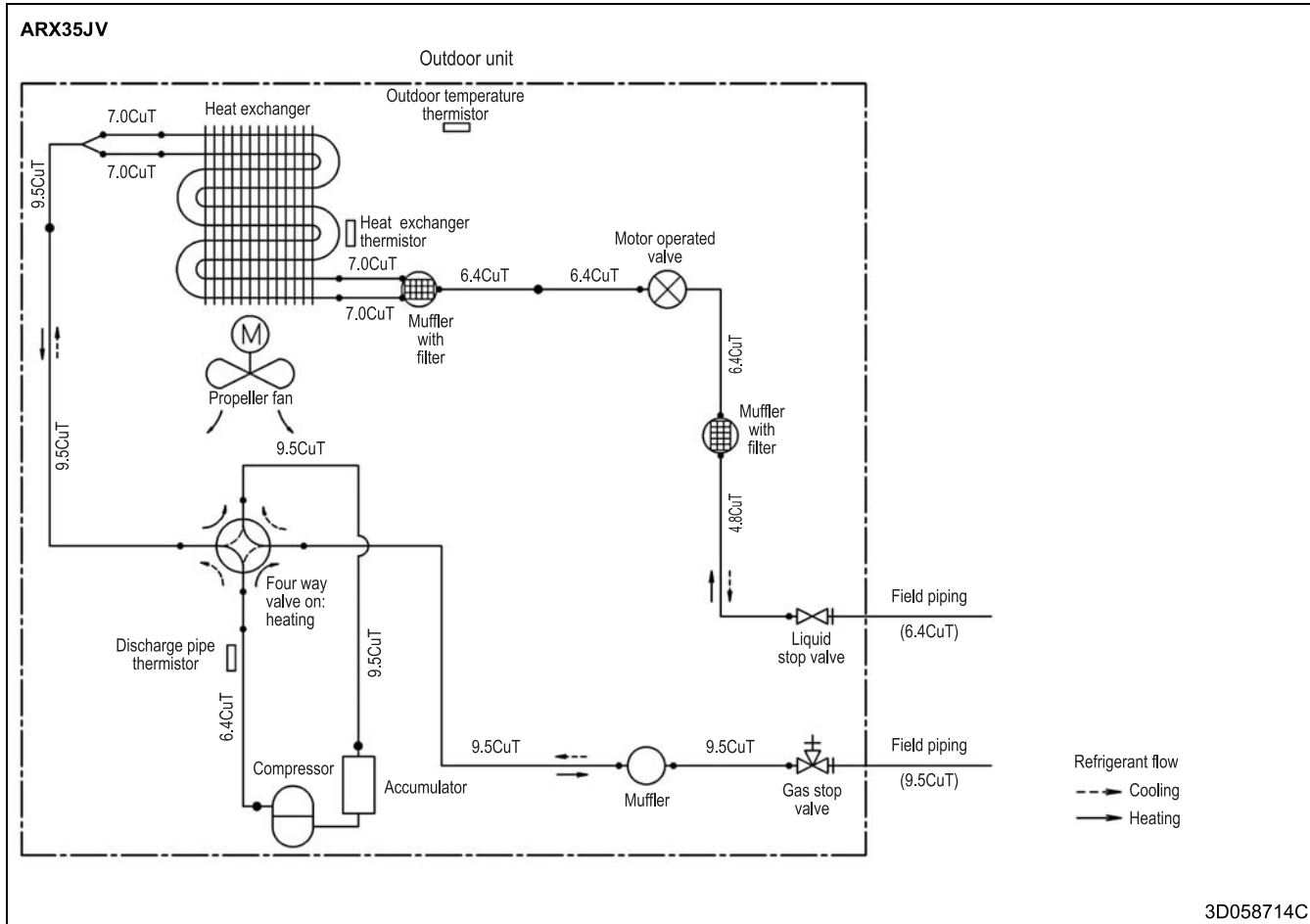
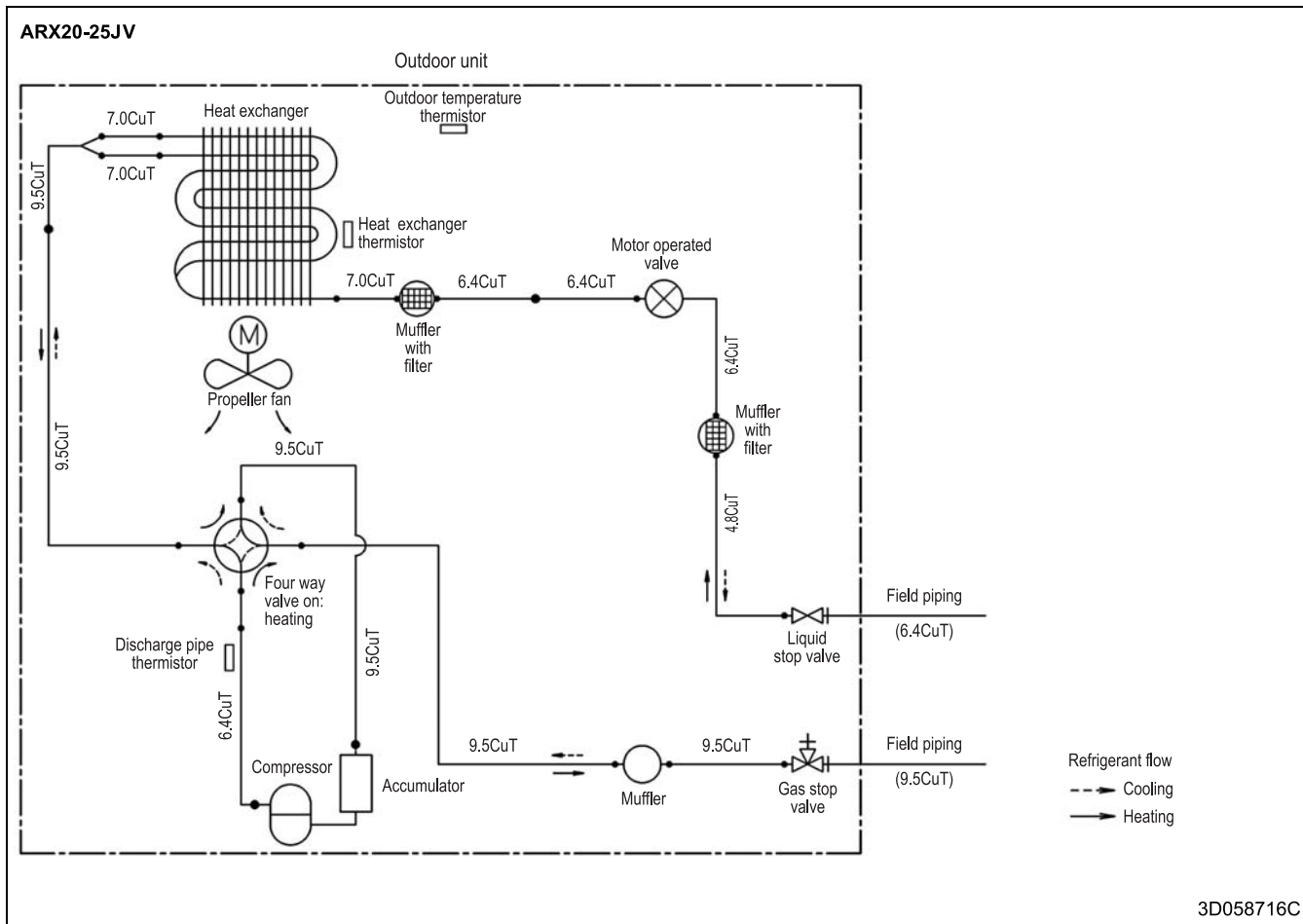


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7 Piping diagrams

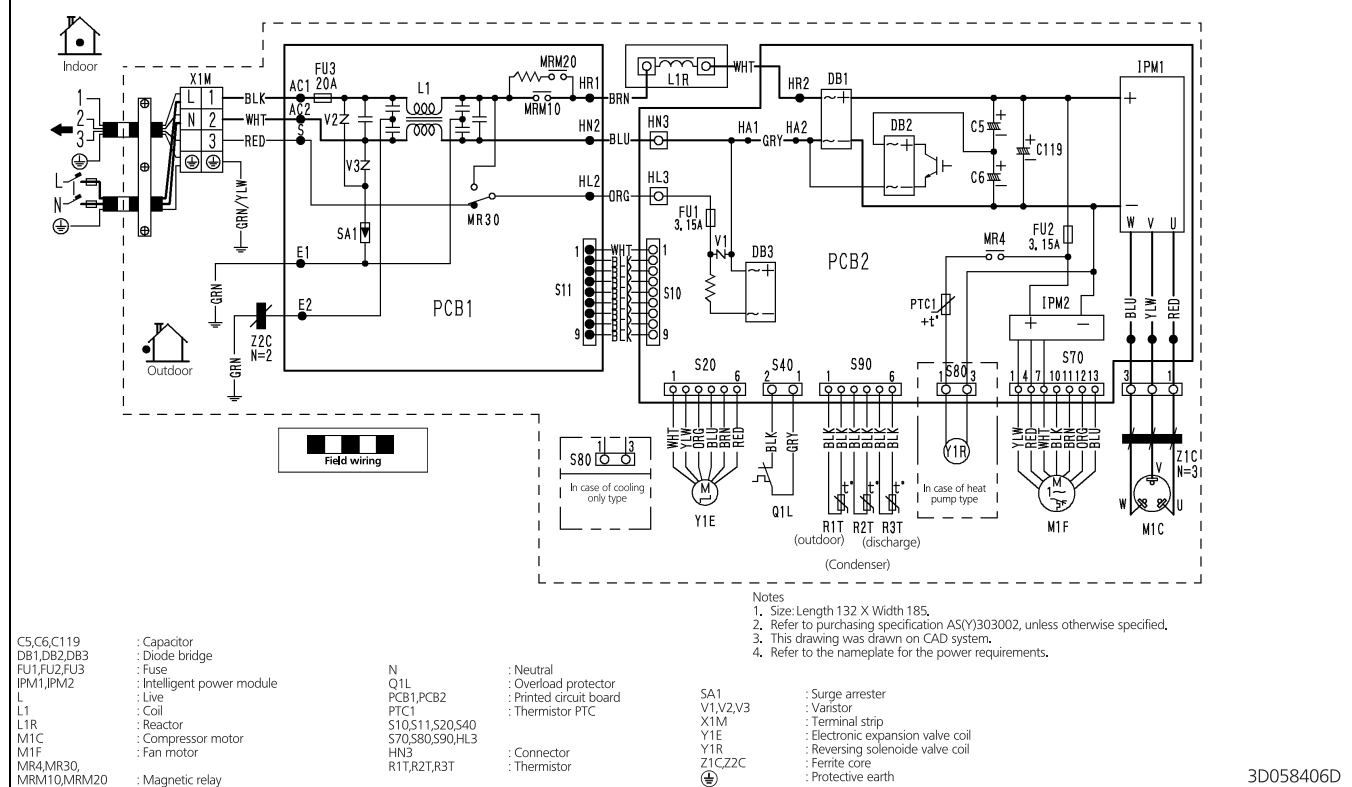
7 - 1 Piping Diagrams

7



8 Wiring diagrams

8 - 1 Wiring Diagrams - Single Phase

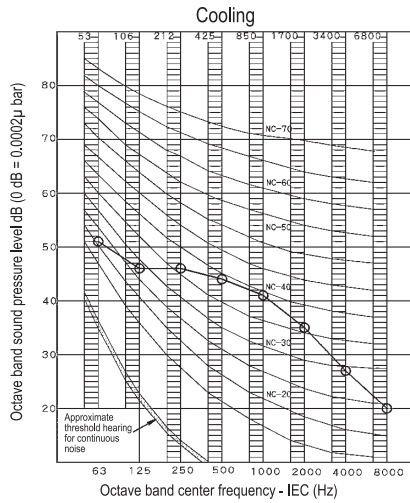
ARX-JV

9 Sound data

9 - 1 Sound Pressure Spectrum - Cooling

9

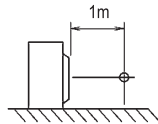
ARX20JV



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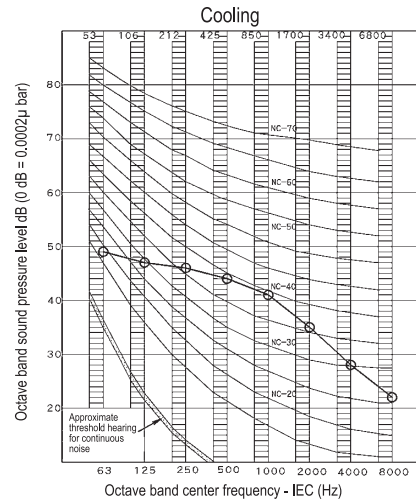
- Over All (dB):
(B,G,N is already rectified)
- Measuring place: measure in anechoic room.
- Operation noise differs with operation and ambient conditions.
- Location of microphone.
JISC9612
The operation noise measuring method is in accordance with JISC9612

Scale	50Hz 230v (H)
A	46



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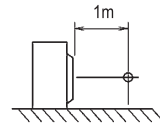
ARX25JV



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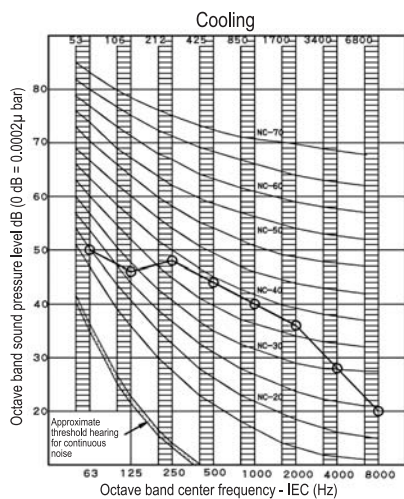
- Over All (dB):
(B,G,N is already rectified)
- Measuring place: measure in anechoic room.
- Operation noise differs with operation and ambient conditions.
- Location of microphone.
JISC9612
The operation noise measuring method is in accordance with JISC9612

Scale	50Hz 230v (H)
A	46



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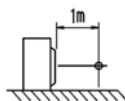
ARX35JV



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	48

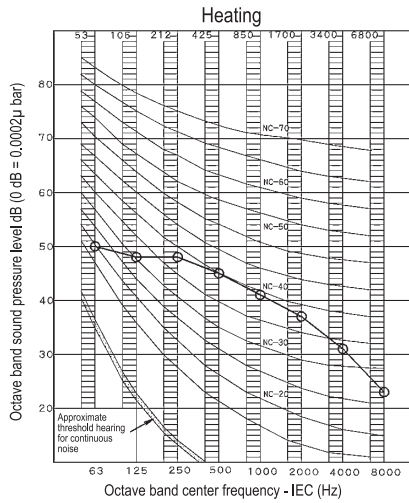


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9 Sound data

9 - 2 Sound Pressure Spectrum - Heating

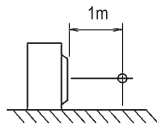
ARX20JV



NOTES

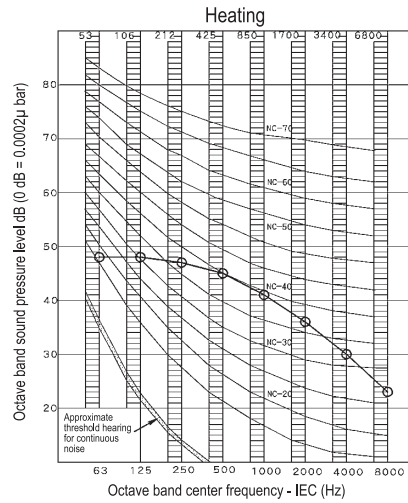
- 1 Over All (dB):
(B,G,N is already rectified)
- 2 Measuring place: measure in anechoic room.
- 3 Operation noise differs with operation and ambient conditions.
- 4 Location of microphone.
JISC9612
The operation noise measuring method is in accordance with JISC9612

Scale	50Hz 230v (H)
A	47



3D059002B

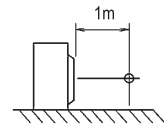
ARX25JV



NOTES

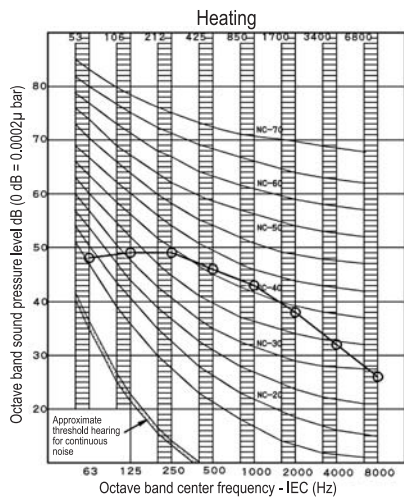
- 1 Over All (dB):
(B,G,N is already rectified)
- 2 Measuring place: measure in anechoic room.
- 3 Operation noise differs with operation and ambient conditions.
- 4 Location of microphone.
JISC9612
The operation noise measuring method is in accordance with JISC9612

Scale	50Hz 230v (H)
A	47



3D059003B

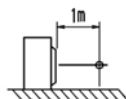
ARX35JV



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

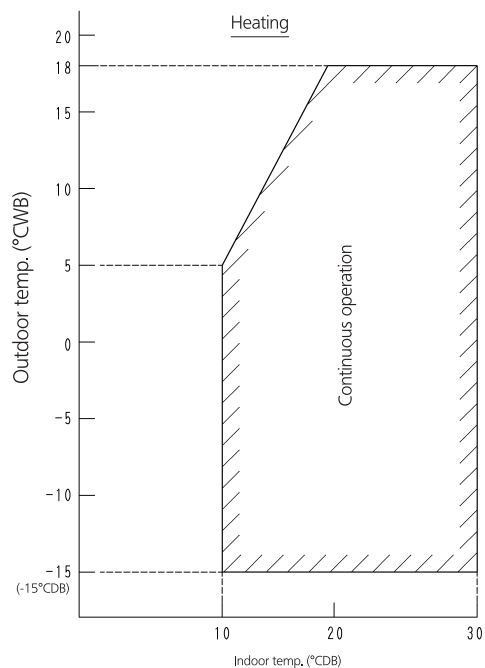
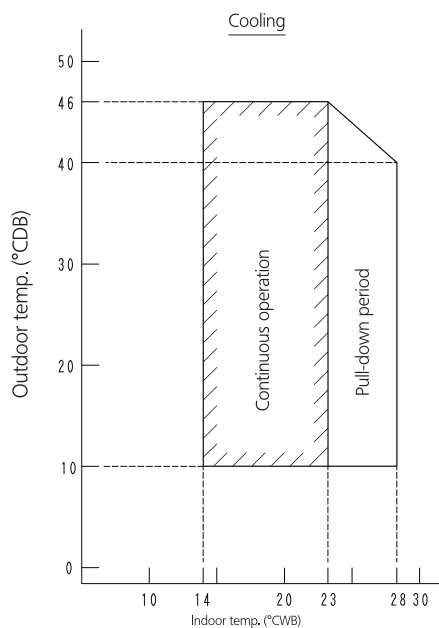


3D059004B

10 Operation range

10 - 1 Operation Range

ARX-JV

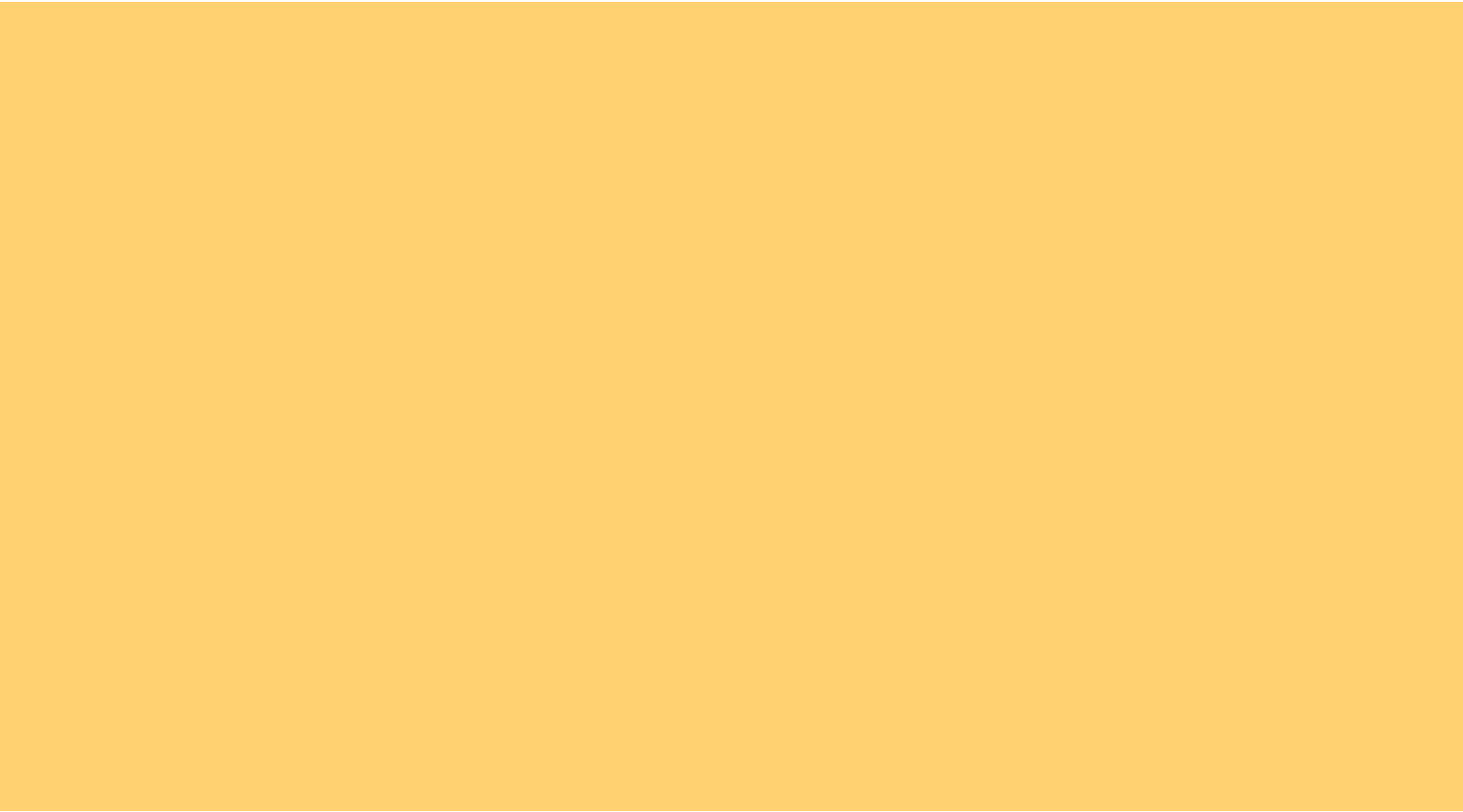


Notes:

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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