

Floor standing unit Technical data book CVXM-A / FVXM-A



CVXM20A2V1B
FVXM25A2V1B
FVXM35A2V1B
FVXM50A2V1B

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CVXM-A / FVXM-A

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1 Features

1 - 1 FVXM-A, CVXM-A

Design floor standing unit for optimal heating comfort thanks to unique heating features

1

- › Seasonal efficiency values up to A++ in heating, resulting in low running costs compared to gas boilers and electric heating
- › Excellent contemporary design
- › Heat boost quickly heats up your home when starting up your air conditioner. Set temperature is reached 14% faster than a regular air conditioner (pair only)
- › The floor warming function optimises convection by distributing hot air from the bottom of the unit
- › The heat plus function provides 30 minutes cosy heating by simulating radiant heat
- › Dual air discharge flow for better air distribution
- › Using electrons to trigger chemical reactions with air borne particles, the Flash Streamer breaks down allergens such as pollen and fungal allergens and removes bothersome odours providing a better, cleaner air
- › Online controller (optional): control your indoor from any location with an app, via your local network or internet and keep an overview on your energy consumption
- › Quiet operation: down to 19dBA sound pressure level
- › Combinable with 2 and 3 port multi outdoor units



Practically inaudible



Heat boost



Floor warming



Heat plus



Econo mode



Energy saving during standby mode



Night set mode



Fan only



Draught prevention



Powerful mode



Auto cooling-heating changeover



Indoor unit silent operation



Outdoor unit silent operation



Night quiet mode



3-D air flow



Vertical auto swing



Horizontal auto swing



Auto fan speed

1 Features

1 - 1 FVXM-A, CVXM-A



Fan speed
steps



Dry
programme



Flash Streamer



Titanium
apatite
deodorising
filter



Air filter



Weekly timer



24 hour timer



Infrared
remote control



Wired remote
control



Centralised
control



Online
controller



Auto-restart



Self diagnosis



Multi model
application

1

2 Specifications

1 - 1 FVXM-A, CVXM-A

Technical specifications					CVXM20A	
Power input	Cooling	Nom.	kW		0.02	
	Heating	Nom.	kW		0.02	
Casing	Colour				White	
Dimensions	Unit	Height	mm		600	
		Width	mm		750	
		Depth	mm		238	
	Packed unit	Height	mm		765	
		Width	mm		885	
		Depth	mm		330	
Weight	Unit	kg		17		
	Packed unit	kg		22		
Packing	Weight	kg		5		
Heat exchanger	Length		mm		540	
	Rows	Quantity		2		
		Fin pitch		mm	1.20	
	Face area		m ²		0.226	
	Stages	Quantity		22		
	Passes	Quantity		6		
	Tube type		ø5 Hi-XB			
	Tube material		Copper			
	Tube diameter		mm		5	
	Fin	Type			Multi slit fin	
		Treatment			Hydrophilic	
	Heat exchanger 2	Quantity				1
Length		mm		490		
Rows		Quantity		1		
		Fin pitch		mm	1.20	
Face area		m ²		0.206		
Stages		Quantity		22		
Fan	Type				Turbo fan	
	Quantity				1	
	Air flow rate	Cooling	High	m ³ /min	8.7	
				cfm	307	
Medium			m ³ /min	7		
			cfm	237		
Fan	Air flow rate	Cooling	Low	m ³ /min	4.9	
			cfm	173		
			Silent operation	m ³ /min	4.1	
				cfm	145	
		Heating	High	m ³ /min	9.2	
				cfm	325	
			Medium	m ³ /min	7.2	
				cfm	254	
		Low	m ³ /min	5.6		
			cfm	198		
			Silent operation	m ³ /min	4.1	
				cfm	145	
Fan motor	Quantity				1	
	Type				DC motor	
	Speed	Steps			5 + silent, + auto	
			Cooling	High	rpm	600
		Medium		rpm	480	
		Low		rpm	370	
		Silent operation		rpm	320	
		Heating	High	rpm	630	
			Medium	rpm	510	
			Low	rpm	410	
			Silent operation	rpm	320	
		Output	Rated	W		37
	Sound power level	Cooling			dBA	52.0
		Heating			dBA	52.0
Sound pressure level	Cooling	High			dBA	38.0
		Medium			dBA	32.0
		Low			dBA	25.0
		Silent operation			dBA	22.0
	Heating	High			dBA	38.0
		Medium			dBA	32.0
		Low			dBA	25.0
		Silent operation			dBA	21.0
Refrigerant	Type			R-32		
	GWP			675.0		

2 Specifications

1 - 1 FVXM-A, CVXM-A

Technical specifications				CVXM20A
Piping connections	Liquid	OD	mm	6.4
	Gas	OD	mm	9.50
Piping connections Drain				VP20 (I.D. 20/O.D. 26)
Heat insulation				Both liquid and gas pipes
Air filter	Type			Removable / washable
	Quantity	pc		1
Air direction control				Right, Left, Horizontal, Downward
Temperature control				Microcomputer control
Control systems	Infrared remote control			ARC466A66
	Wired remote control			BRC073A1

Standard accessories: Installation manual; Quantity: 1;

Standard accessories: Operation manual; Quantity: 1;

Standard accessories: Wireless remote control; Quantity: 1;

Standard accessories: AAA dry-cell batteries; Quantity: 1;

Standard accessories: Remote control holder; Quantity: 1;

Standard accessories: Titanium apatite deodorizing filter; Quantity: 2;

Standard accessories: Screw bag; Quantity: 1;

Standard accessories: General safety precautions; Quantity: 1;

Electrical specifications				CVXM20A
Power supply	Phase			1~
	Frequency	Hz		50
	Voltage	V		220-240
Current	Nominal running current (RLA) - 50Hz	Heating	A	0.2
		Cooling	A	0.2
Wiring connections - 50Hz	For power supply	Quantity		3
		Remark		3 for power supply, 4 for interunit wiring (Earth wire included)
Current	Nominal running current (RLA)	Cooling	A	0.2

Cooling: indoor temp. 27°CDB, 19°CWB; outdoor temp. 35°CDB, 24°CWB; equivalent piping length: 5m |

Heating: indoor temp. 20°CDB; outdoor temp. 7°CDB, 6°CWB; equivalent refrigerant piping: 5m

Technical specifications				FVXM25A	FVXM35A	FVXM50A
Power input	Cooling	Nom.	kW	0.02	0.02	0.03
	Heating	Nom.	kW	0.02	0.03	0.03
Casing	Colour			White		
Dimensions	Unit	Height	mm	600		
		Width	mm	750		
		Depth	mm	238		
	Packed unit	Height	mm	765		
		Width	mm	885		
		Depth	mm	330		
Weight	Unit		kg	17		
	Packed unit		kg	22		
Packing	Weight		kg	5		
Heat exchanger	Length		mm	540		
	Rows	Quantity		2		
	Fin pitch		mm	1.20		
	Face area		m ²	0.226		
	Stages	Quantity		22		
	Passes	Quantity		6		
	Tube type			ø5 Hi-XB		
	Tube material			Copper		
	Tube diameter		mm	5		
	Fin	Type		Multi slit fin		
		Treatment		Hydrophilic		
Heat exchanger 2	Quantity			1		
	Length		mm	490		
	Rows	Quantity		1		
	Fin pitch		mm	1.20		
	Face area		m ²	0.206		
	Stages	Quantity		22		
Fan	Type			Turbo fan		
	Quantity			1		
	Air flow rate	Cooling	High	m ³ /min	8.7	11.6
				cfm	307	410
			Medium	m ³ /min	7	9
				cfm	237	307
			Low	m ³ /min	4.9	6.6

2 Specifications

1 - 1 FVXM-A, CVXM-A

2

Technical specifications					FVXM25A	FVXM35A	FVXM50A	
Fan	Air flow rate	Cooling	Low	cfm	173		233	
			Silent operation	m³/min	4.1		5.4	
	Heating	High		cfm	145		191	
				m³/min	9.2	9.8	12.8	
		Medium		cfm	325	346	452	
				m³/min	7.2		10.0	
		Low		cfm	254		353	
				m³/min	5.6		8.4	
		Silent operation		cfm	198		297	
				m³/min	4.1		5.9	
Fan motor	Quantity				1			
	Type				DC motor			
	Speed	Steps				5 + silent, + auto		
		Cooling	High	rpm	600	630		780
			Medium	rpm	480			600
			Low	rpm	370			470
			Silent operation	rpm	320			400
		Heating	High	rpm	630	670		850
			Medium	rpm	510			680
			Low	rpm	410			580
Silent operation			rpm	320			430	
Output	Rated	W		37				
Sound power level	Cooling	dBA		52.0	53.0	61.0		
	Heating	dBA		52.0	53.0	62.0		
Sound pressure level	Cooling	High	dBA	38.0	39.0	44.0		
		Medium	dBA	32.0		38.0		
		Low	dBA	25.0		31.0		
		Silent operation	dBA	20.0		27.0		
	Heating	High	dBA	38.0	39.0	46.0		
		Medium	dBA	32.0		40.0		
		Low	dBA	25.0		35.0		
		Silent operation	dBA	19.0		29.0		
	Refrigerant	Type				R-32		
GWP				675.0				
Piping connections	Liquid	OD	mm	6.4				
	Gas	OD	mm	9.50	12.70			
Piping connections	Drain				VP20 (I.D. 20/O.D. 26)			
	Heat insulation				Both liquid and gas pipes			
Air filter	Type				Removable / washable			
	Quantity				1			
Air direction control					Right, Left, Horizontal, Downward			
Temperature control					Microcomputer control			
Control systems	Infrared remote control				ARC466A66			
	Wired remote control				BRC073A1			

Standard accessories: Installation manual; Quantity: 1;

Standard accessories: Operation manual; Quantity: 1;

Standard accessories: Wireless remote control; Quantity: 1;

Standard accessories: AAA dry-cell batteries; Quantity: 1;

Standard accessories: Remote control holder; Quantity: 1;

Standard accessories: Titanium apatite deodorizing filter; Quantity: 2;

Standard accessories: Screw bag; Quantity: 1;

Standard accessories: General safety precautions; Quantity: 1;

Electrical specifications					FVXM25A	FVXM35A	FVXM50A
Power supply	Phase		1~				
	Frequency		Hz	50			
	Voltage		V	220-240			
Current	Nominal running current (RLA) - 50Hz	Heating	A	0.2		0.4	
Wiring connections - 50Hz	For power supply		Quantity	3			
			Remark	3 for power supply, 4 for interunit wiring (Earth wire included)			
Current	Nominal running current (RLA)	Cooling	A	0.2		0.4	

Cooling: indoor temp. 27°CDB, 19°CWB; outdoor temp. 35°CDB, 24°CWB; equivalent piping length: 5m |

Heating: indoor temp. 20°CDB; outdoor temp. 7°CDB, 6°CWB; equivalent refrigerant piping: 5m

3 Options

3 - 1 Options

FVXM-A
CVXM-A

				New Floor stand			
			Factory	DICz			
			Casing	Floor Stand	Floor Stand	Floor Stand	Floor Stand
			Class	20	25	35	50
			Applicable models	CVXM20A2V1B	FVXM25A2V1B	FVXM35A2V1B	FVXM50A2V1B
Option kit	Product name	Remark (New Floor stand)					
Wired remote control	BRC073A1	②③		✓	✓	✓	✓
Extension cord for wired remote control (·3·m)	BRCW901A03			✓	✓	✓	✓
Extension cord for wired remote control (·8·m)	BRCW901A08			✓	✓	✓	✓
Wiring adaptor (normal open contact - normal open pulse contact)	KRP413AB1S	②③		✓	✓	✓	✓
Interface adaptor for DIII-NET	KRP928BB2S	②③		✓	✓	✓	✓
Central remote control	DCS302CA51	②③		✓	✓	✓	✓
Unified ON/OFF controller	DCS301BA51	②③		✓	✓	✓	✓
Schedule timer	DST301BA51	②③		✓	✓	✓	✓
Intelligent Touch Manager	DCM601A5A	②③		✓	✓	✓	✓
·Modbus· interface	EKMBDXA	②③		✓	✓	✓	✓
Modbus gateway	RTD-RA	②③		✓	✓	✓	✓
·KNX· interface	KLIC-DD	②③		✓	✓	✓	✓
Titanium apatite deodorising filter without frame	KAF970A46	①		✓	✓	✓	✓
Silver particle filter (Ag-ion) with frame	KAF057A41			✕	✕	✕	✕
Conversion wire harness	EKRS21			✓	✓	✓	✓

Notes

1. Standard accessory

2. This option features a(n) ·S21· connector. To connect this option to the indoor unit, therefore conversion wire harness ·EKRS21· is required.

3. This option cannot operate together with the wireless LAN functionality that is a standard feature of the indoor unit.

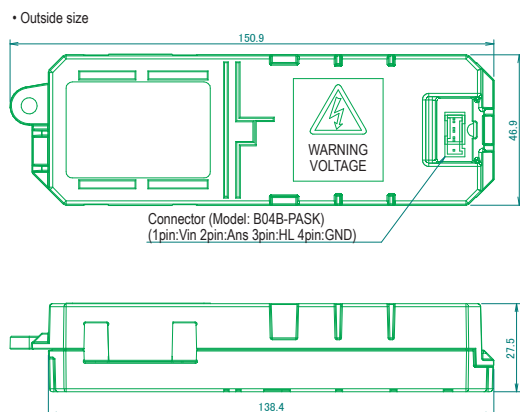
When connecting this option to the indoor unit, turn off the indoor unit's wireless LAN functionality.

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4 Dimensional drawings

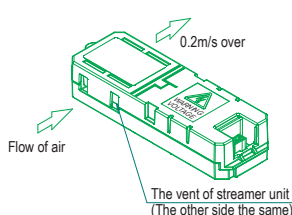
4 - 1 Dimensional Drawings

FVXM-A
CVXM-A

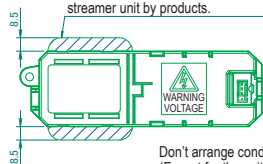


- Method of mounting

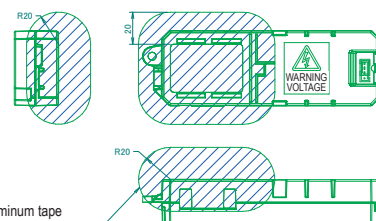
Don't blockage the vent of streamer unit.
Ensure the exit wind speed 0.2m/sec of the vent.
Ensure the spatial distance 8.5mm over at the vent of streamer unit.



Ensure the spatial distance 8.5mm over at the vent of streamer unit by products.



Don't arrange conduction material within 20mm of the aluminum tape (Except for the unit fixing screw).

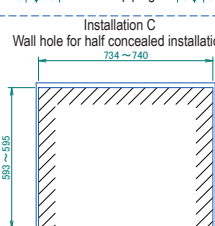
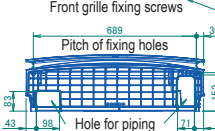
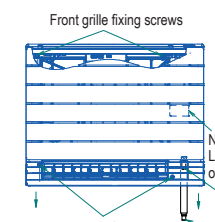
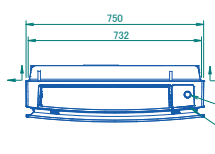
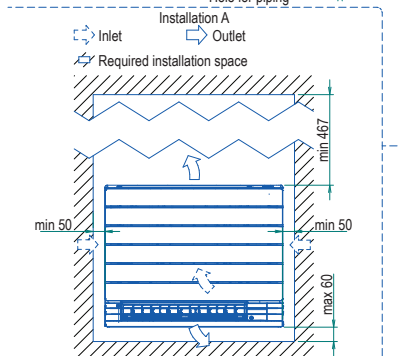
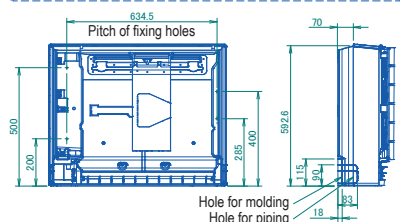
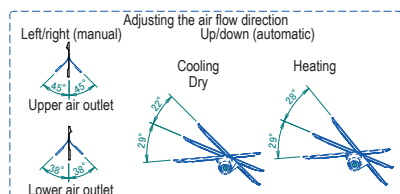


- Main specifications

Items		Contents
Outside	Outside size	150.9×46.9×27.5mm
	Weight	100g
Material of resin	Material	ABS
	Flame retardance	UL94-5VA
	Tracking index	Over CT1600V
Applicable laws		Electrical Appliance and Material Safety Act IEC60335-1(4th), IEC60335-2-65(4th)
Ambient conditions	Storage temperature	-25~70 (Non-Energization)
	Operating ambient temperature	-10~60 (Energization)
	Operating ambient humidity	5~95%RH (No dew deposit)
Basic specifications	Input voltage	14V±5%
	Maximum output voltage	6.5±0.5kV
	Rating output voltage	5.0±0.5kV
	Rating output current	Hi 55.5μA±10% Lo 10μA±10%
	ON/OFF	Inputted voltage into Vin (ON/OFF)
	Hi ⇄ Lo Switching	Inputted 5V into HL (Loe tap)
	Current monitor	Yes
	Detectable over current	Yes
	Detectable low voltage	Under 3kV
Generation amount of Ozone		4.26ml/hr (Hi 14±2/ 50±10%RH)
Method of mounting		Fixing by the right and left hook Fixing by the screw section

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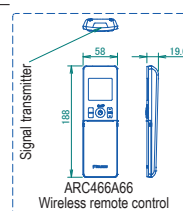
FVXM-A
CVXM-A



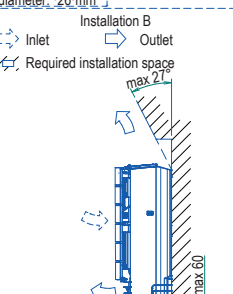
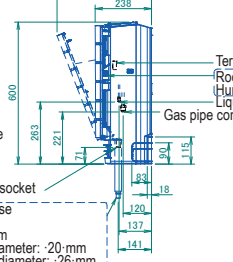
NOTES

1. The $\rightarrow$ mark shows the piping direction.

- Operation lamp
- Indoor unit On/OFF switch
- Indication lamps
- Signal receiver
- ~400 Dimensions of fully opened front panel



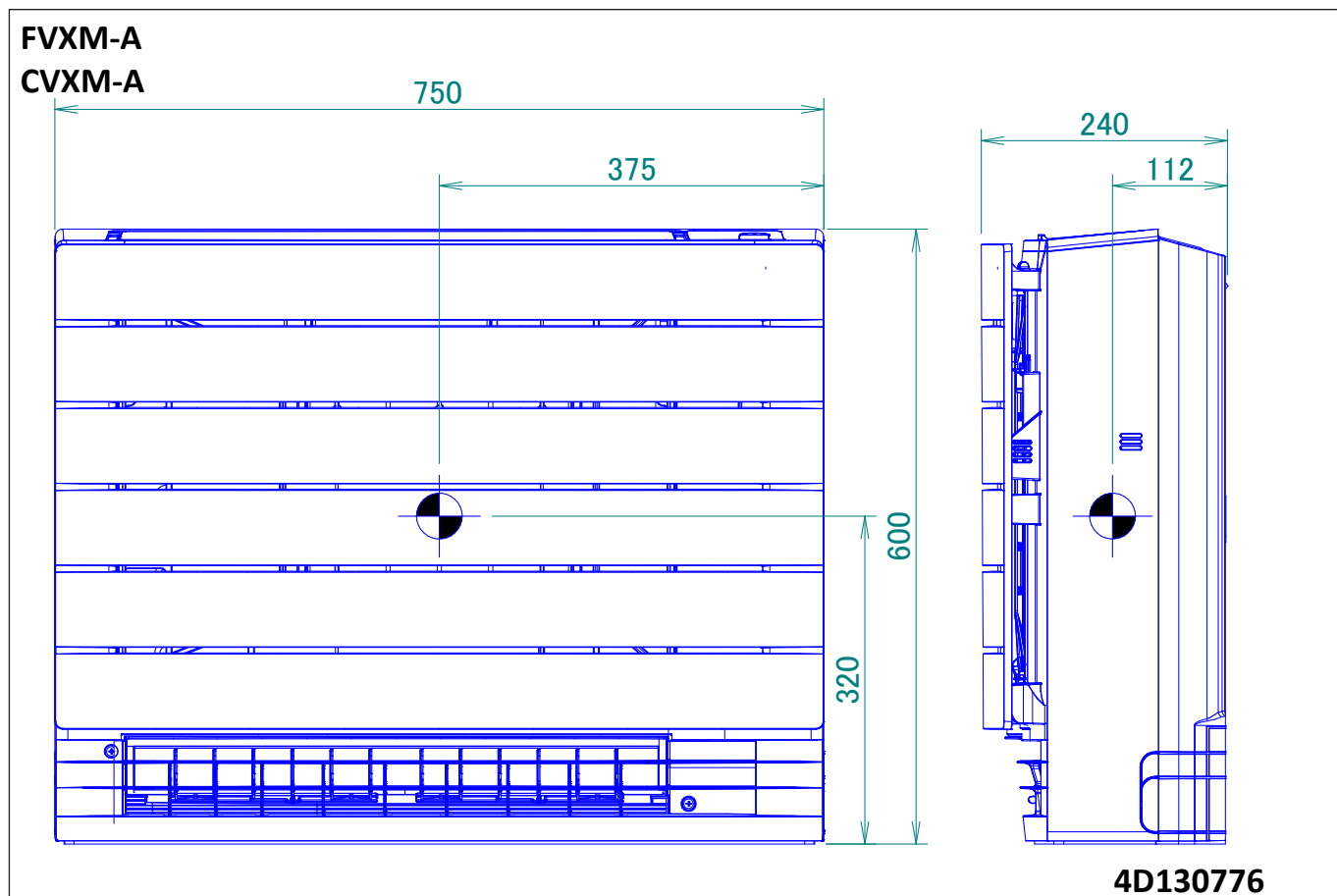
- Terminal block with earth terminal
- Room temperature sensor
- Humidity sensor
- Liquid pipe connection: $\varnothing 6.4 \text{ CuT}$
- Pipe connection: $\varnothing 9.5 \text{ CuT} / \varnothing 12.7 \text{ CuT}$



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5 Centre of gravity

5 - 1 Centre of Gravity

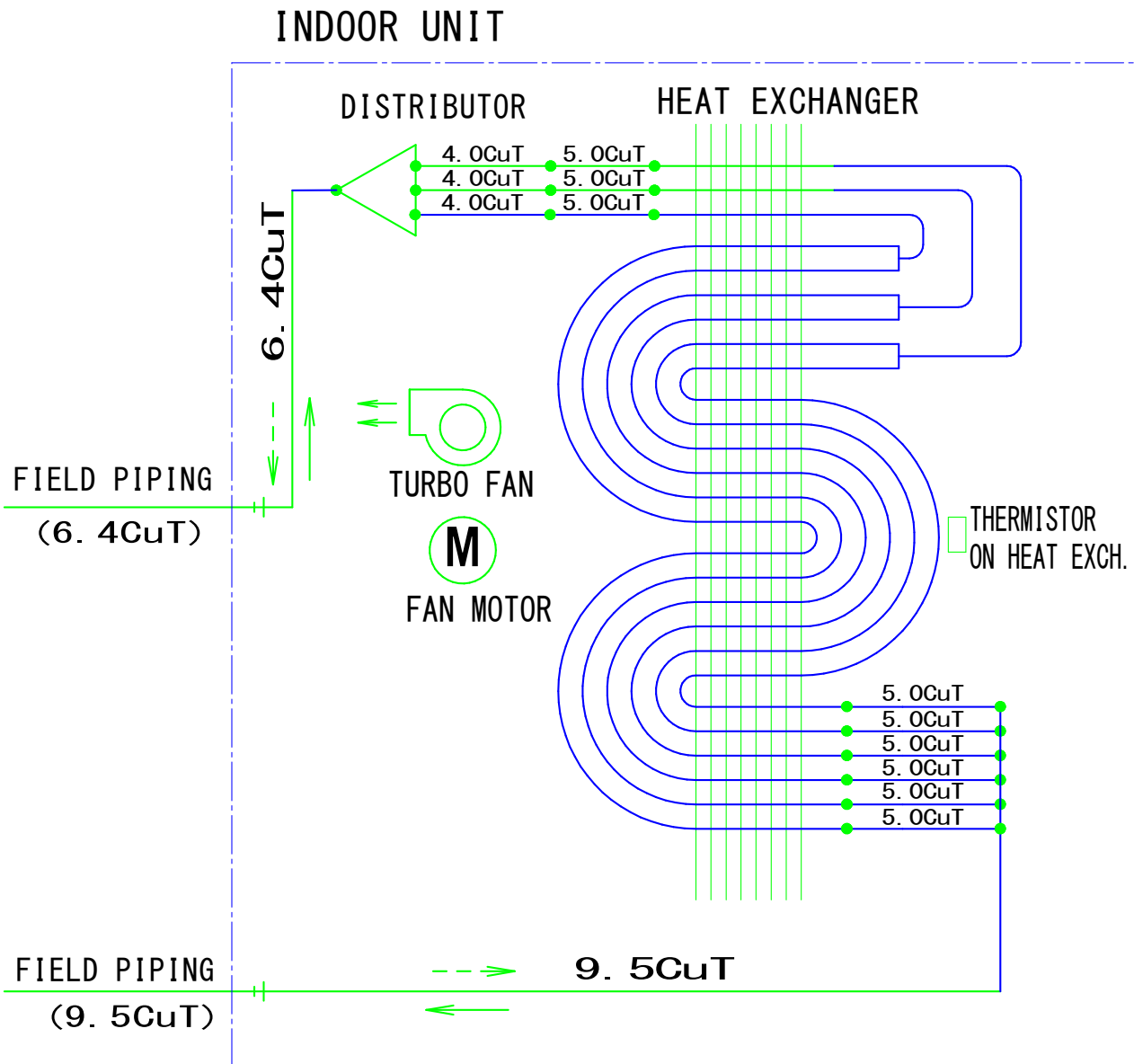


6 Piping diagrams

6 - 1 Piping Diagrams

FVXM25-35A
CVXM-A

6



REFRIGERANT FLOW

—> COOLING

- -> HEATING

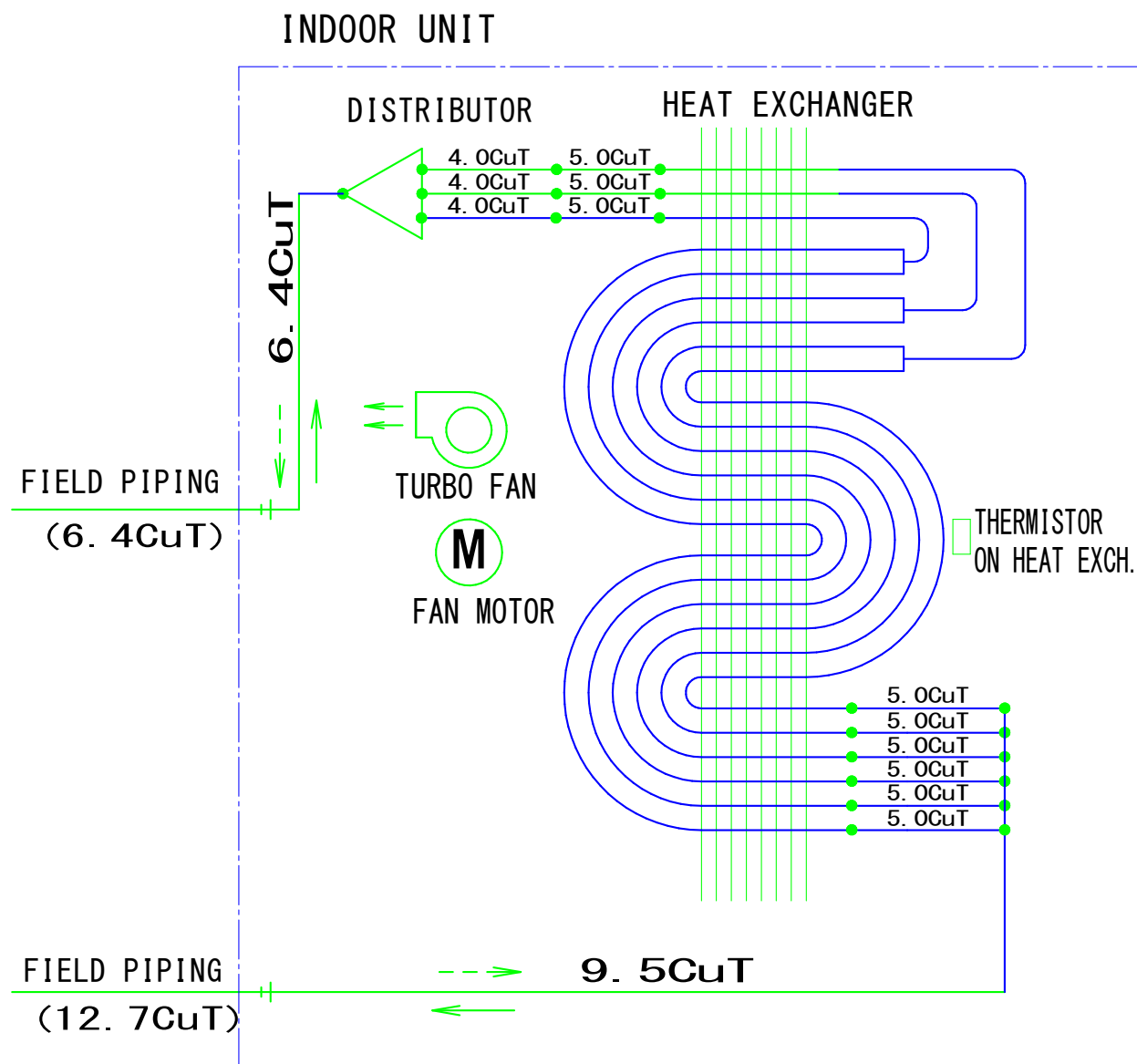
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6 Piping diagrams

6 - 1 Piping Diagrams

FVXM50A

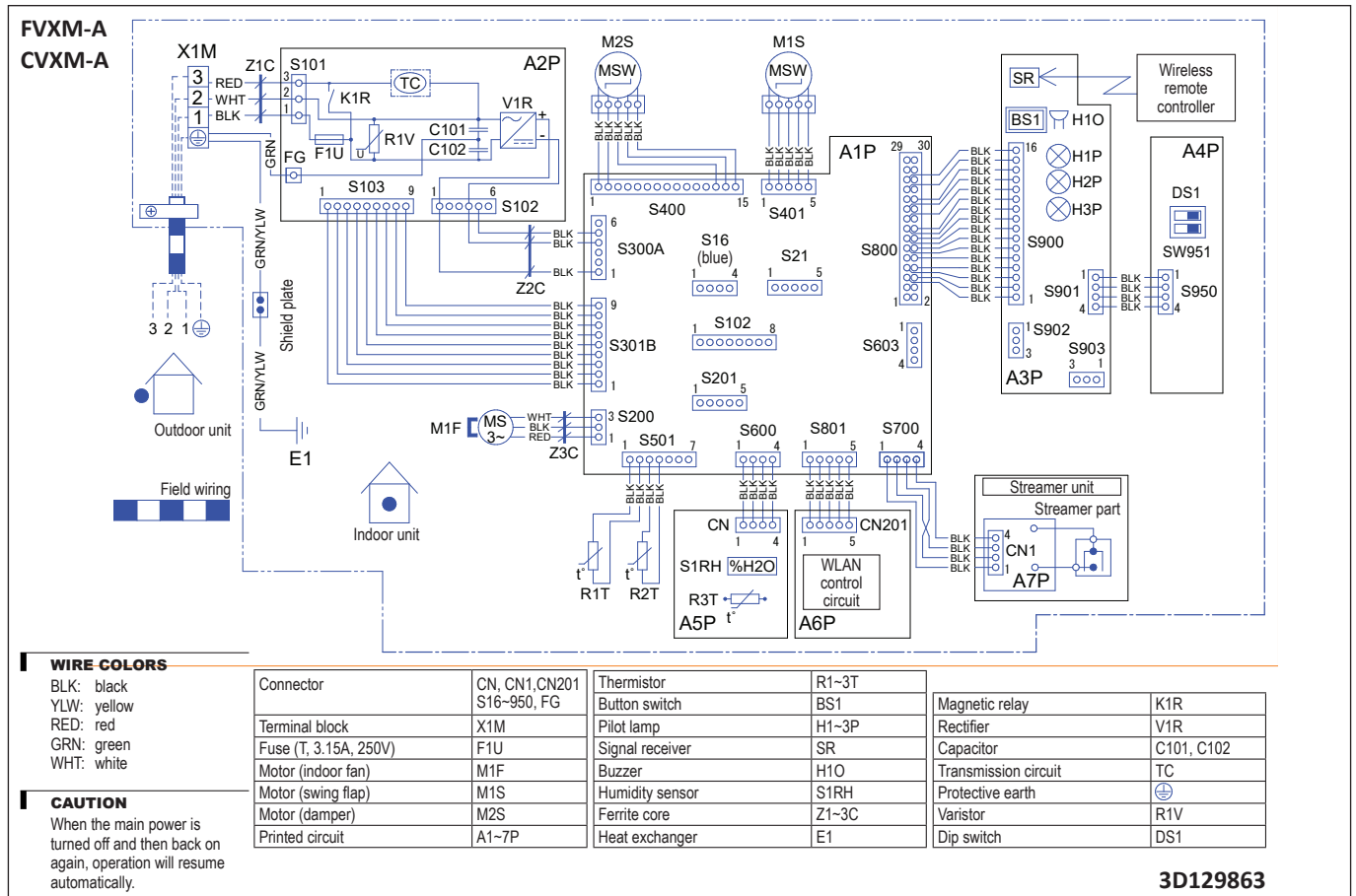
6



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7 Wiring diagrams

7 - 1 Wiring Diagrams - Single Phase

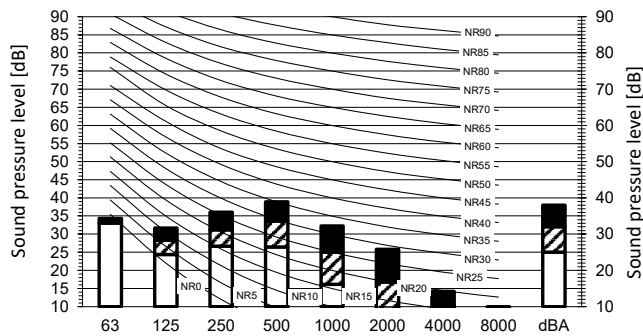


8 Sound data

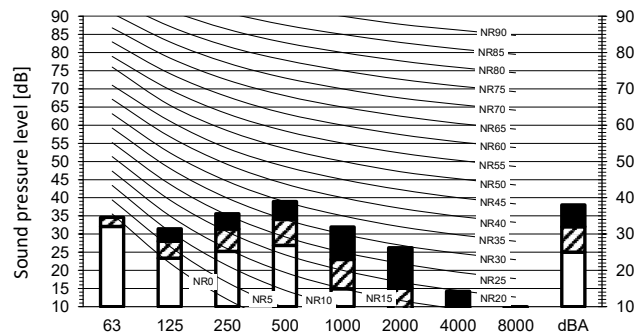
8 - 1 Sound Pressure Spectrum

FVXM25A CVXM20A

Cooling mode



Heating mode



Legend Octave band centre frequency [Hz]

dBA = A-weighted sound pressure level (A scale according to IEC).

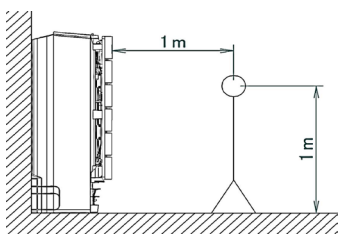
A Scale Fan speed

B High

C Medium

D Low

Location of microphone



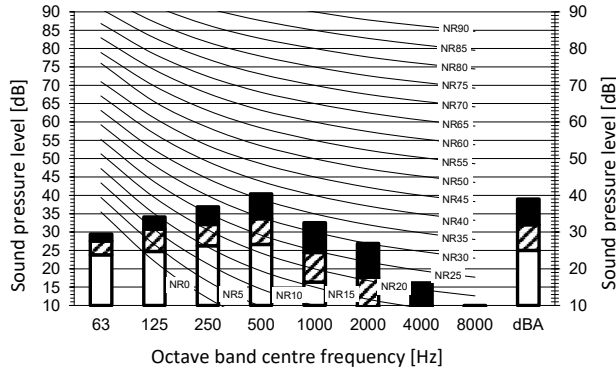
Notes

1. Operating conditions: power source 220-240 V/220 V 50/60 Hz; JIS standard
2. Background noise already taken into account.
3. Operating noise varies depending on operation and ambient conditions.
4. The operation noise measuring method is in accordance with JISC9612.
5. Measuring location: anechoic chamber

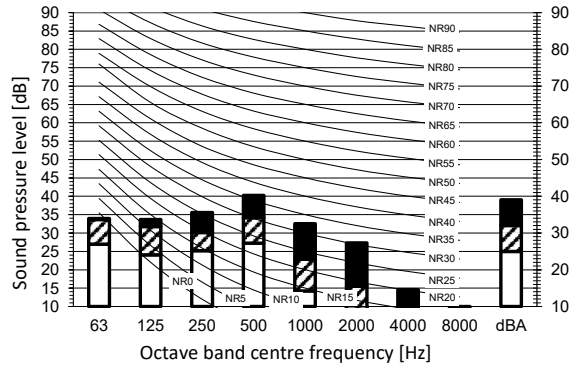
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FVXM35A

Cooling mode



Heating mode



Legend

dBA = A-weighted sound pressure level (A scale according to IEC).

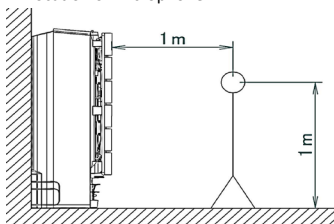
A Scale Fan speed

B High

C Medium

D Low

Location of microphone



Notes

1. Operating conditions: power source 220-240 V/220 V 50/60 Hz; JIS standard
2. Background noise already taken into account.
3. Operating noise varies depending on operation and ambient conditions.
4. The operation noise measuring method is in accordance with JISC9612.
5. Measuring location: anechoic chamber

3D130903

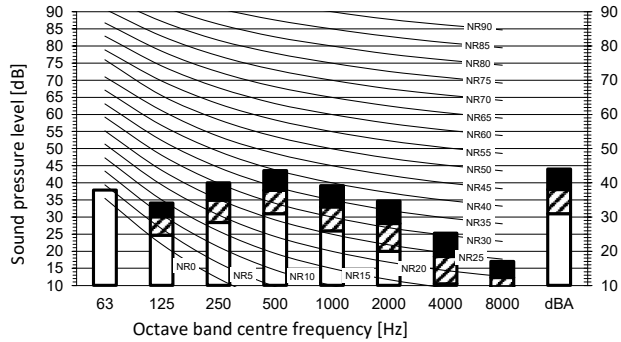
8 Sound data

8 - 1 Sound Pressure Spectrum

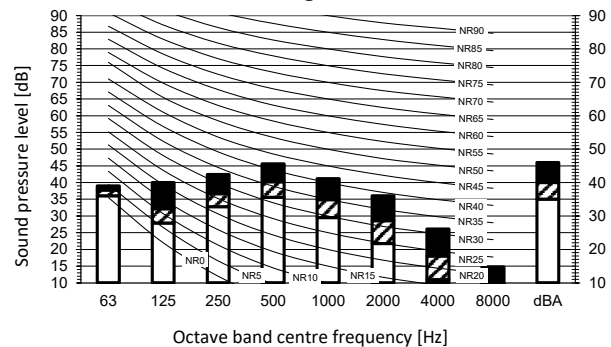
8

FVXM50A

Cooling mode



Heating mode



Legend

dBA = A-weighted sound pressure level (A scale according to IEC).

A	Scale	Fan speed
B	■	High
C	▨	Medium
D	□	Low

Cooling

Total dB

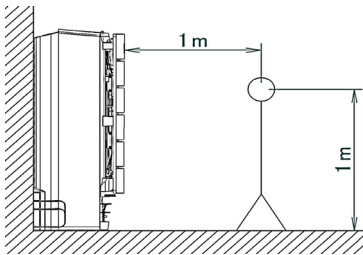
A	B	C	D
dBA	44,0	38,0	31,0

Heating

Total dB

A	B	C	D
dBA	46,0	40,0	35,0

Location of microphone

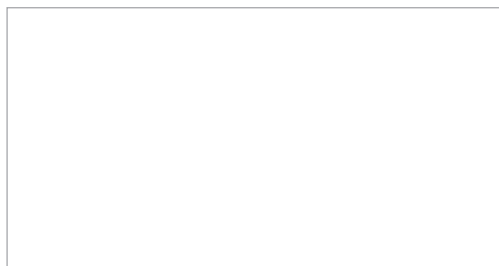


Notes

1. Operating conditions: power source 220-240 V/220 V 50/60 Hz; JIS standard
2. Background noise already taken into account.
3. Operating noise varies depending on operation and ambient conditions.
4. The operation noise measuring method is in accordance with JISC9612.
5. Measuring location: anechoic chamber

3D130904

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