

Floor standing unit  
Air Conditioning  
Technical Data  
CVXM-A9 /  
FVXM-A9



CVXM20A3V1B9  
FVXM25A3V1B9  
FVXM35A3V1B9  
FVXM50A3V1B9



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# CVXM-A9 / FVXM-A9

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# 1 Features



















## 1 - 1 CVXM-A9

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
- › Combinable with up to 5 port multi outdoor units
- › Dual air discharge flow for better air distribution
- › 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
- › 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
- › Onecta app: control your indoor from any location with an app, via your local network or internet.
- › Quiet operation: down to 19dBA sound pressure level



 Floor warming	 Heat plus	 Onecta app	 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	 Vertical auto swing	 Auto fan speed	 Fan speed steps (5 steps)	 Dry programme	 Practically inaudible

# 1 Features

## 1 - 1 CVXM-A9



Practically inaudible



Titanium apatite deodorising filter



Air filter



Weekly timer



24 hour timer



Infrared remote control



Wired remote control



Centralised control



Auto-restart



Self diagnosis



Multi model application

# 1 Features

















1 - 2 FVXM-A9

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

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- › Onecta app: control your indoor from any location with an app, via your local network or internet.
- › Seasonal efficiency values up to A++ in heating, resulting in low running costs compared to gas boilers and electric heating
- › Excellent contemporary design
- › Combinable with up to 5 port multi outdoor units
- › 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
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 Floor warming	 Heat plus	 Heat boost	 Onecta app	 Econo mode	 Energy saving during	 Night set mode standby mode	 Fan only	 Draught prevention
 Powerful mode	 Auto cooling-heating changeover	 Indoor unit silent operation	 Outdoor unit silent operation	 Night quiet mode	 Vertical auto swing	 Auto fan speed	 Fan speed steps (5 steps)	 Dry programme

# 1 Features

1 - 2 FVXM-A9



Practically inaudible



Titanium apatite deodorising filter



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Weekly timer



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Infrared remote control



Wired remote control



Centralised control



Auto-restart



Self diagnosis



Multi model application



Practically inaudible

## 2 Specifications

### 2 - 1 Specifications

Technical specifications				CVXM20A9				
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	21.5			
Packing	Weight			kg	4.5			
Heat exchanger	Length			mm	540			
	Rows	Quantity			2			
		Fin pitch			mm	1.20		
	Face area			m <sup>2</sup>	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 <sup>2</sup>	0.206				
Stages		Quantity			22			
	Type			Turbo fan				
Fan	Quantity			1				
	Air flow rate	Cooling	High	m <sup>3</sup> /min	8.7			
			Medium	m <sup>3</sup> /min	7			
			Low	m <sup>3</sup> /min	4.9			
Fan	Air flow rate	Cooling	Low	cfm	173			
			Silent operation	m <sup>3</sup> /min	4.1			
	Fan	Air flow rate	Heating	High	m <sup>3</sup> /min	9.2		
				Medium	m <sup>3</sup> /min	7.2		
		Fan	Air flow rate	Heating	Low	m <sup>3</sup> /min	5.6	
					Silent operation	m <sup>3</sup> /min	4.1	
		Fan motor	Quantity			1		
			Type			DC motor		
			Speed	Steps	5 + silent, + auto			
					Cooling	High	rpm	670
Medium	rpm			550				
Low	rpm			410				
Fan	Speed			Cooling	Silent operation	rpm	350	
					Heating	High	rpm	710
	Fan			Speed		Heating	Medium	rpm
					Low		rpm	460
Fan	Speed			Heating	Silent operation	rpm	360	
					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				
	Fan	Sound pressure level	High	dBA	38.0			
			Medium	dBA	32.0			
			Low	dBA	25.0			
			Silent operation	dBA	21.0			
Refrigerant	Type			R-32				
	GWP			675				



## 2 Specifications

### 2 - 1 Specifications

Technical specifications				CVXM20A9
Piping connections	Liquid	OD	mm	6.40
	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: 2;

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				CVXM20A9
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				FVXM25A9	FVXM35A9	FVXM50A9	
Power input	Cooling	Nom.	kW	0.02	0.02	0.03	
	Heating	Nom.	kW	0.02		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		21.5		
Packing	Weight		kg		4.5		
Heat exchanger	Length		mm		540		
	Rows	Quantity			2		
		Fin pitch		mm		1.20	
	Face area		m <sup>2</sup>		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 <sup>2</sup>		0.206		
	Stages	Quantity				22	
Fan	Type				Turbo fan		
	Quantity				1		
	Air flow rate	Cooling	High	m <sup>3</sup> /min	8.7	9.2	11.6
				cfm	307	325	410
		Medium	m <sup>3</sup> /min		7		9
			cfm		237		307
Low		m <sup>3</sup> /min		4.9		6.6	

## 2 Specifications

### 2 - 1 Specifications

2

Technical specifications				FVXM25A9	FVXM35A9	FVXM50A9	
Fan	Air flow rate	Cooling	Low	cfm	173	233	
			Silent operation	m <sup>3</sup> /min	4.1	5.4	
	Heating	High		m <sup>3</sup> /min	9.2	9.8	12.8
				cfm	325	346	452
			Medium	m <sup>3</sup> /min	7.2		10.0
				cfm	254		353
		Low	m <sup>3</sup> /min	5.6		8.4	
			cfm	198		297	
		Silent operation	m <sup>3</sup> /min	4.1		5.9	
			cfm	145		208	
Fan motor	Quantity	1					
	Type	DC motor					
	Speed	Steps	5 + silent, + auto				
		Cooling	High	rpm	670	710	870
	Medium		rpm	550		690	
	Low		rpm	410		530	
	Silent operation		rpm	350		440	
	Heating	High	rpm	710	750	950	
		Medium	rpm	570		760	
		Low	rpm	460		650	
Silent operation		rpm	360		480		
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					
Piping connections	Liquid	OD	mm	6.40			
	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	pc					
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: 2;

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				FVXM25A9	FVXM35A9	FVXM50A9	
Power supply	Phase	1~					
	Frequency	Hz					
	Voltage	V					
Current	Nominal running current (RLA) - 50Hz	Heating	A	0.2		0.4	
		Quantity	3				
Wiring connections - 50Hz	For power supply	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

CVXM-A9  
FVXM-A9

Option kit	Product name	Remark New Perfera	Remark New floor stand	Remark Emura 3	Applicable models	A-MID			New Floor stand			
						Class	Casing	Factory	D/Cz	Floor Stand	Floor Stand	Floor Stand
Wired remote control	BRC073A1	②③	②③	②③	CVXM20A2V1B, CVXM20A3V1B, CVXM20A3V1B9	20	Floor Stand					
Extension cord for wired remote control (-3-m)	BRCW901A03				FVXM25A2V1B, FVXM25A3V1B, FVXM25A3V1B9	25	Floor Stand					
Extension cord for wired remote control (-8-m)	BRCW901A08				FVXM35A2V1B, FVXM35A3V1B, FVXM35A3V1B9	35	Floor Stand					
Intelligent Tablet Controller	DCC601A51	②③	②③	②③	FVXM50A2V1B, FVXM50A3V1B, FVXM50A3V1B9	50	Floor Stand					
Wiring adaptor (normal open contact - normal open pulse contact)	KRP413AB1S		②③	②③								
Interface adaptor for DIII-NET	KRP928BB2S		②③	②③								
Central remote control	DCS302CA51	②③	②③	②③								
Unified ON/OFF controller	DCS301BA51	②③	②③	②③								
Schedule timer	DST301BA51	②③	②③	②③								
Intelligent Touch Manager	DCM601A5A	②③	②③	②③								
•Modbus- interface	EKMBDXA7V1	②③	②③	②③								
Modbus gateway	RTD-RA	②③	②③	②③								
•KNX- interface	KLIC-DD	②③	②③	②③								
Titanium apatite deodorising filter without frame	KAF970A46	①	①	①								
Silver particle filter (Ag-ion) with frame	KAF057A41	①		①								
Conversion wire harness	EKRS21											

Notes

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

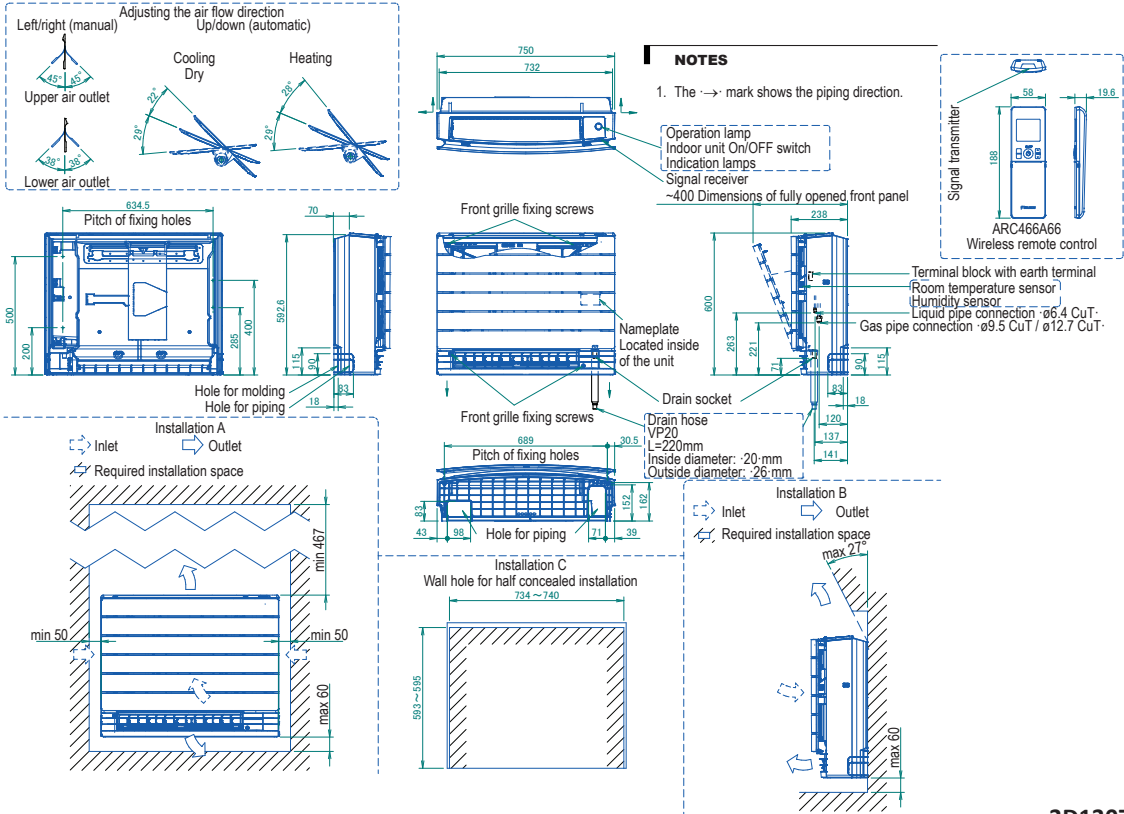
3D120481F

# 4 Dimensional drawings

## 4 - 1 Dimensional Drawings

4

FVXM-A9  
CVXM-A9

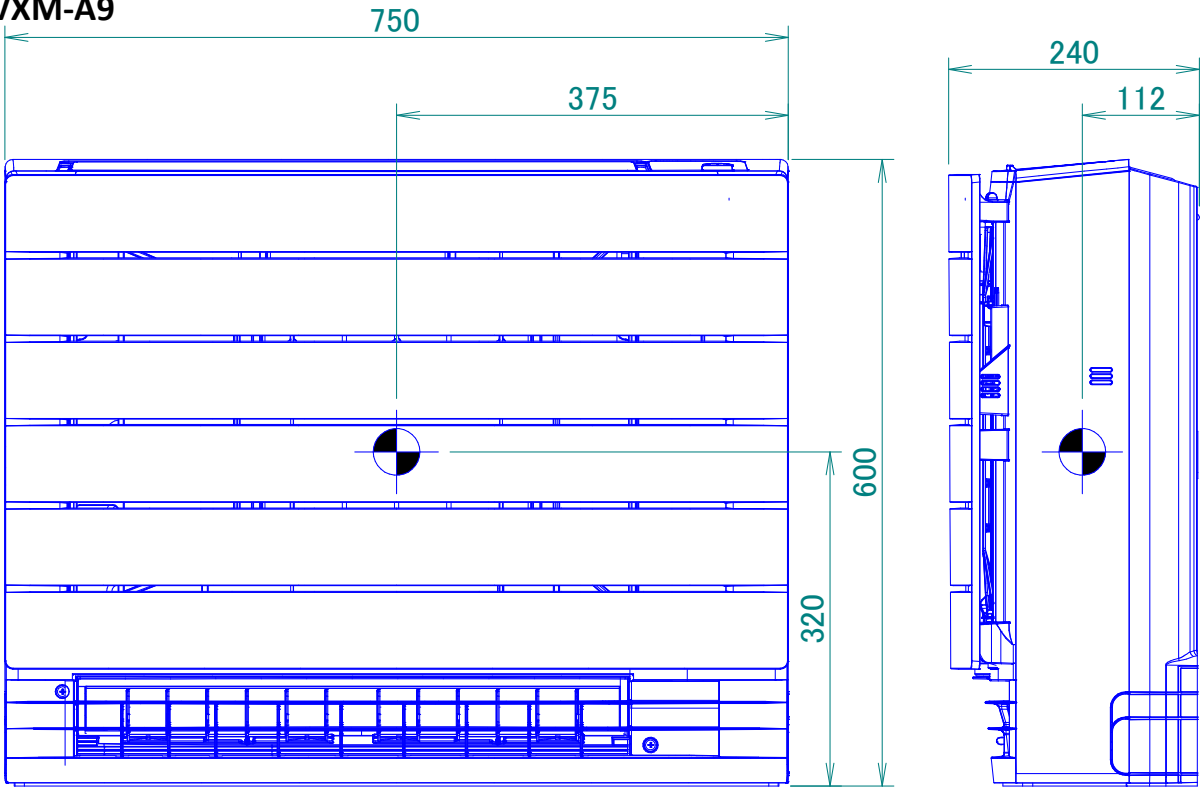


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# 5 Centre of gravity

## 5 - 1 Centre of Gravity

FVXM-A9  
CVXM-A9

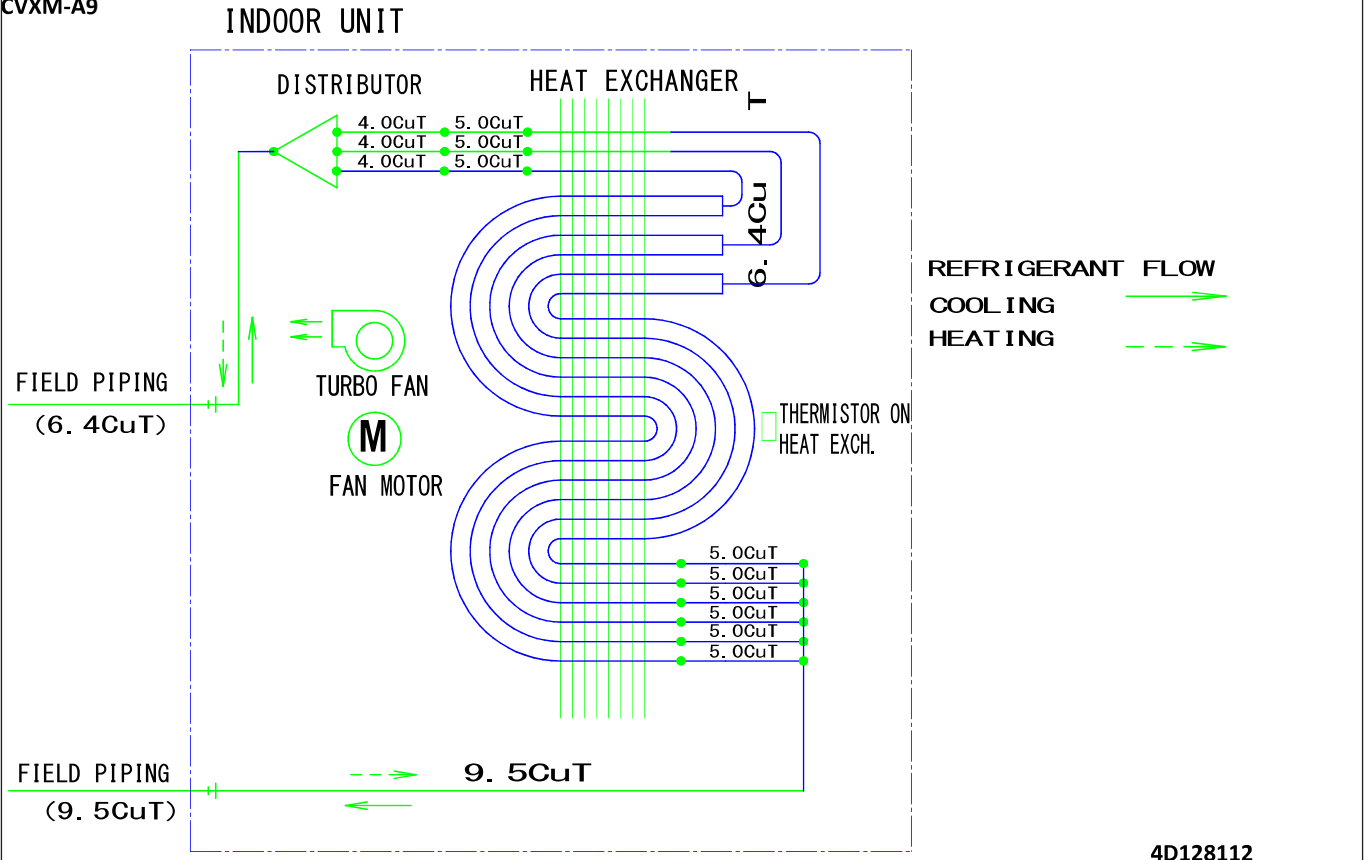


# 6 Piping diagrams

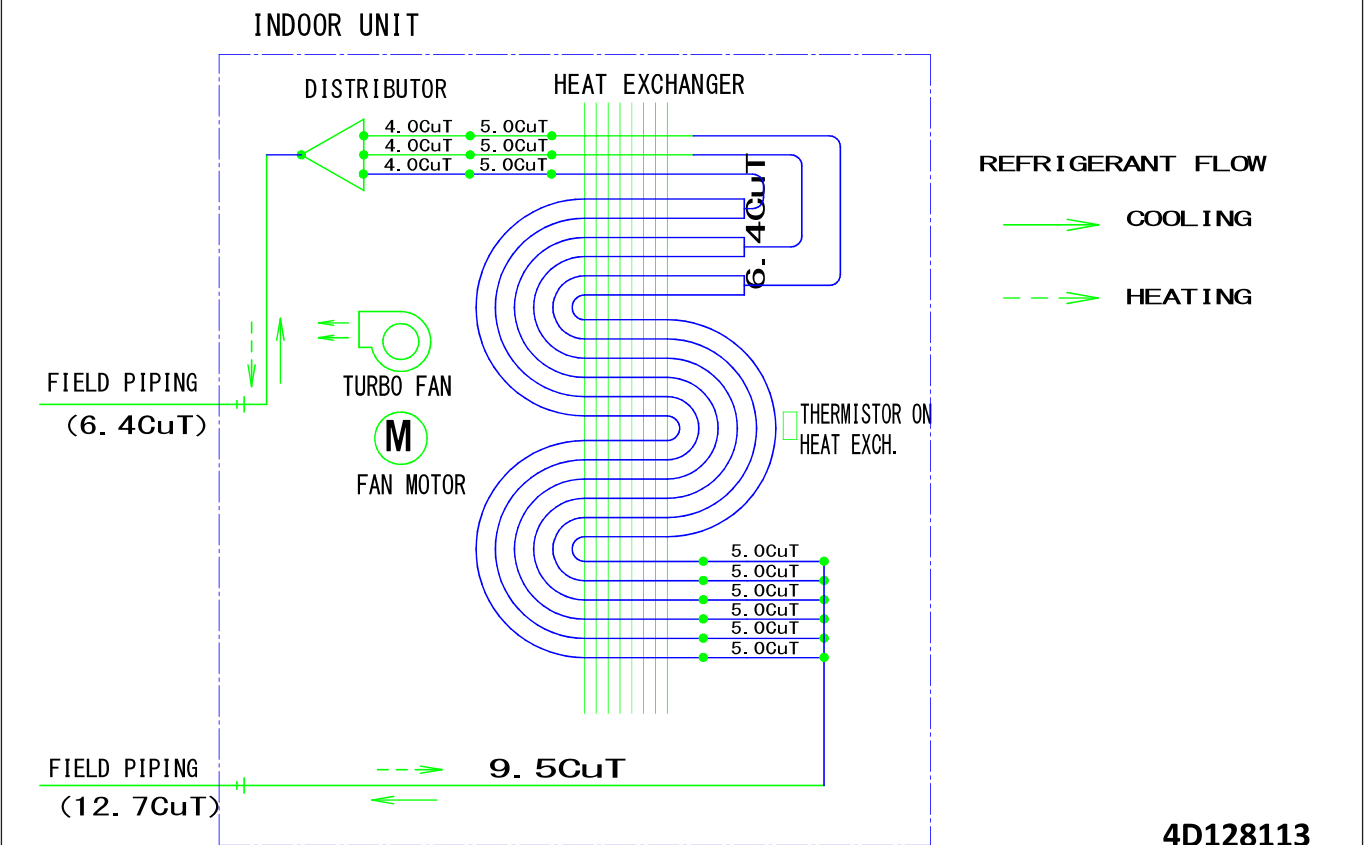
## 6 - 1 Piping Diagrams

6

FVXM25-35A9  
CVXM-A9



FVXM50A9



# 7 Wiring diagrams

## 7 - 1 Wiring Diagrams - Three Phase

CVXM-A9 / FVXM-A9
Wiring diagram

**Wire colors**

- BLK : Black
- YLW : Yellow
- RED : Red
- GRN : Green
- WHT : White

**NOTES**

- Size: length 85 x width 160.
- Refer to purchasing specification AS303002, unless otherwise specified.

CN, CN1, CN2, CN201	Connector	H1O	Buzzer
X1M	Terminal block	S1RH	Humidity sensor
F1U	Fuse (T, 3.15A, 250V)	Z1~3C	Ferrite core
M1F	Motor (indoor fan)	E1	Heat exchanger
M1S	Motor (swing flap)	K1R	Magnetic relay
M2S	Motor (damper)	V1R	Rectifier
A1~8P	Printed circuit	C101, C102	Capacitor
R1~3T	Thermistor	TC	Protective earth
BS1	Button switch	R1V	Varistor
H1~3P	Pilot lamp	DS1	Dip switch
SR	Signal receiver		

**Field wiring:** ■■■■

**CAUTION**  
When the power turns back on after a power break, the previously selected mode will be resumed.

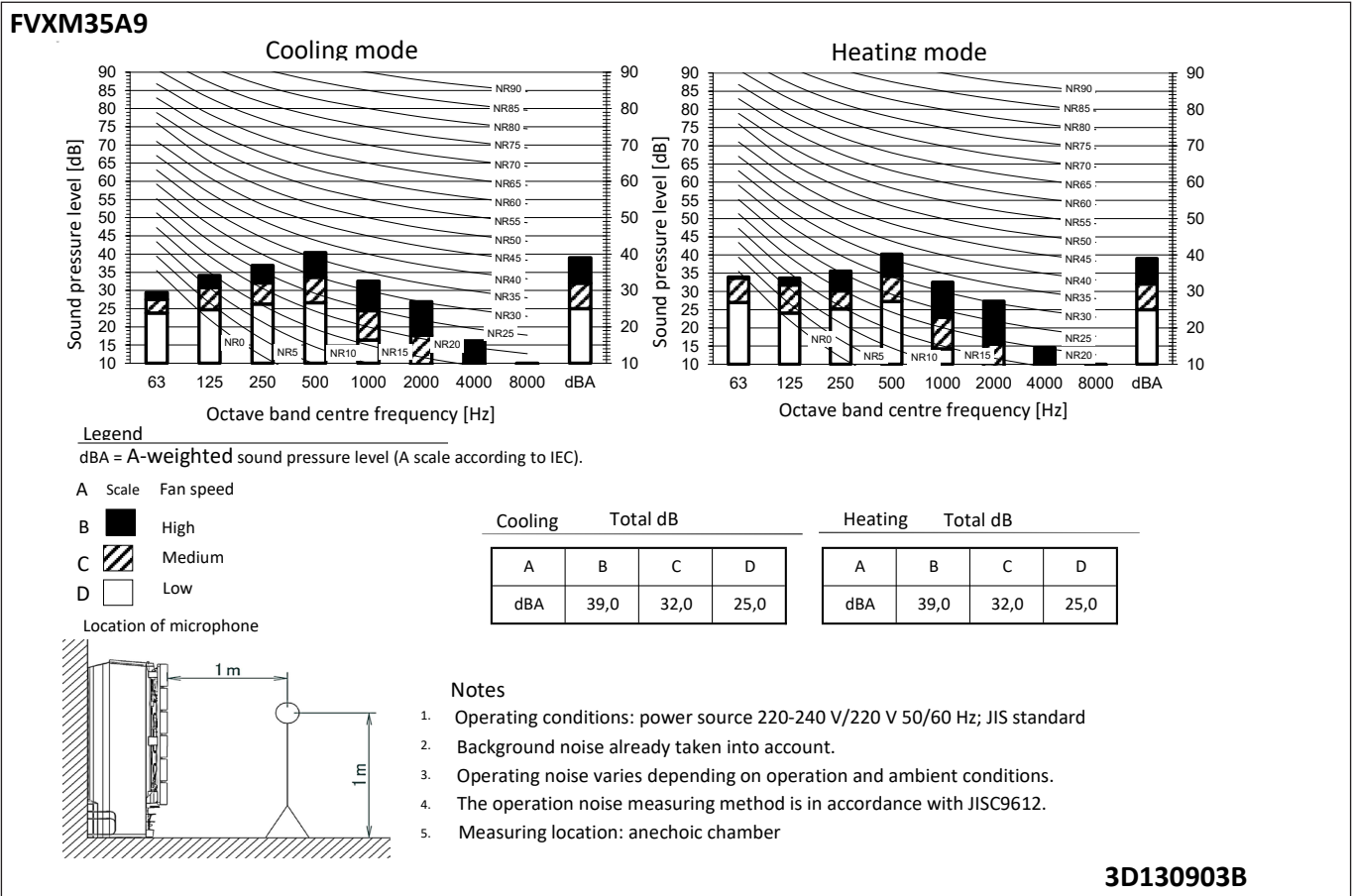
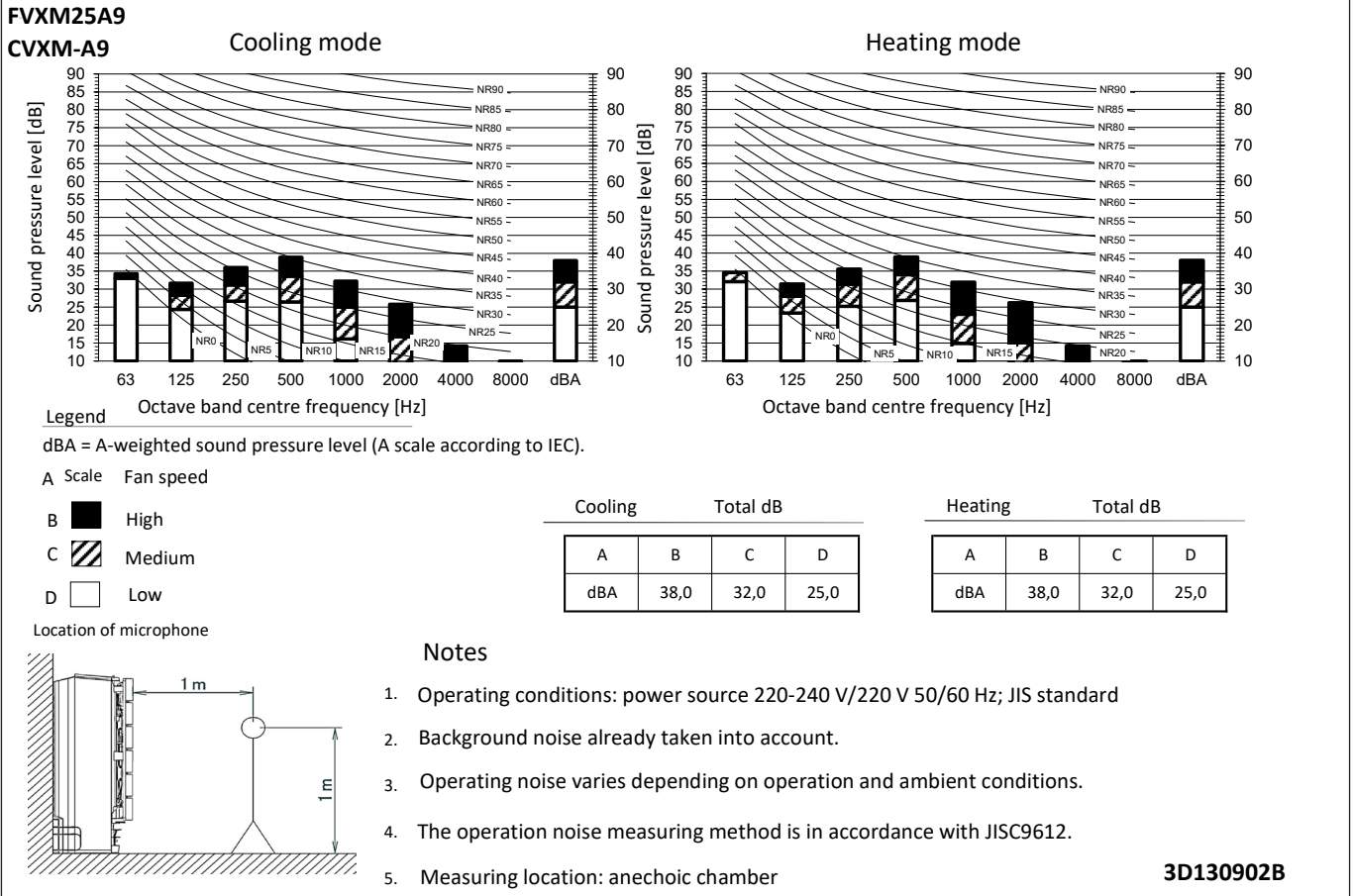
**NOTE**  
# Applicable for units with refrigerant leakage sensor only

**3D129863B**

# 8 Sound data

## 8 - 1 Sound Pressure Spectrum

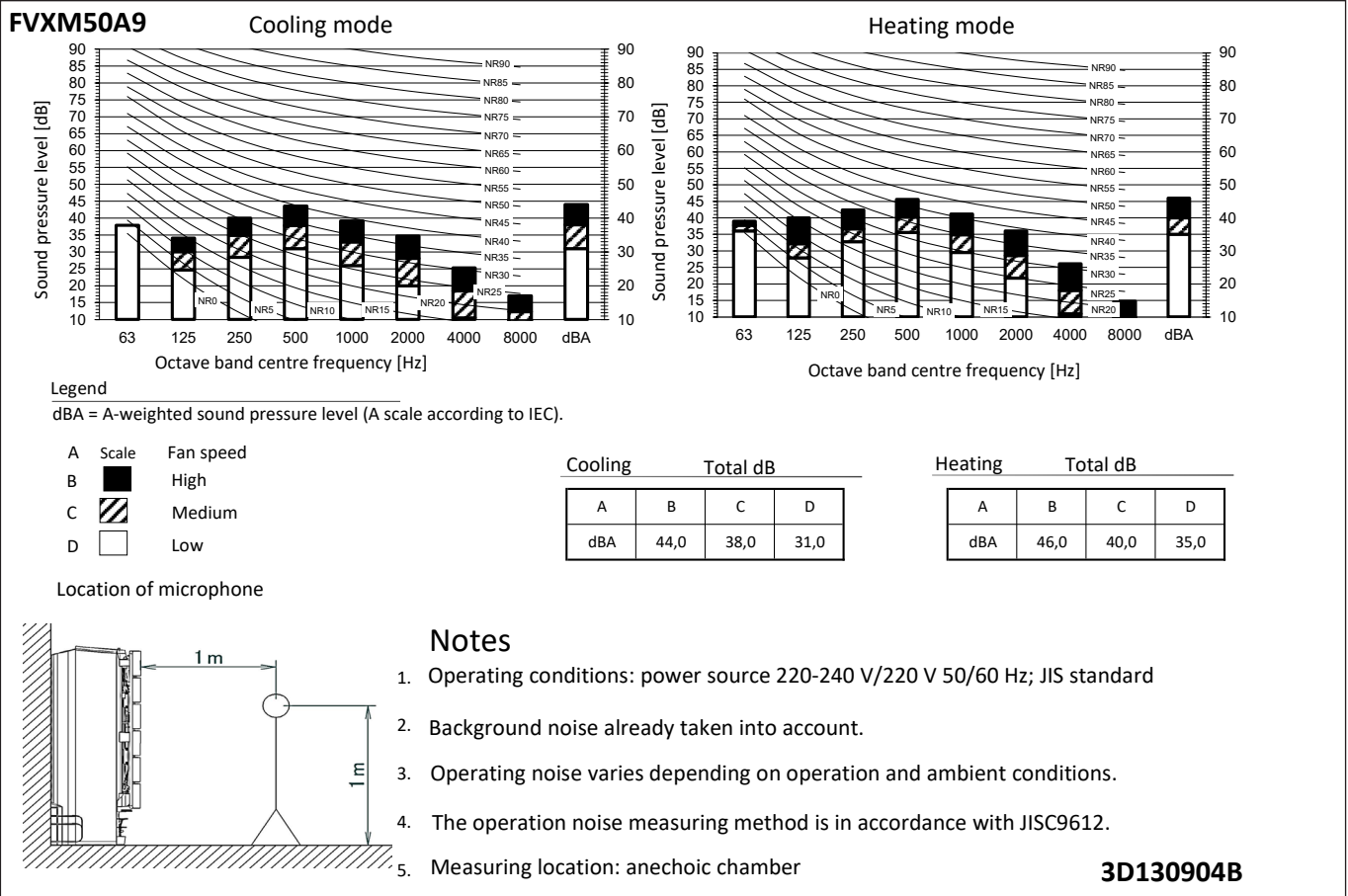
8





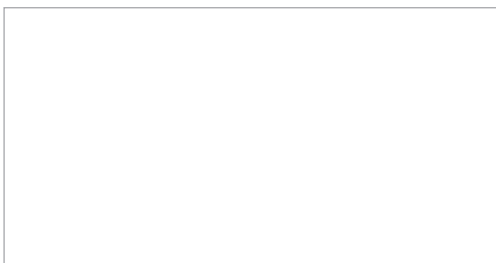
# 8 Sound data

## 8 - 1 Sound Pressure Spectrum



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