

Air Conditioning Technical Data

FTXM-M



> FTXM20M2V1B
> FTXM25M2V1B
> FTXM35M2V1B
> FTXM42M2V1B
> FTXM50M2V1B
> FTXM60M2V1B

> FTXM71M2V1B

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FTXM-M

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1 Features

Attractive, wall mounted design with perfect indoor air quality

- Seasonal efficiency values up to A+++ in cooling and heating
- Practically inaudible: the unit runs so quietly, you will almost forget it is there.
- Cleaner air thanks to Daikin's Flash Streamer technology: you can breathe deep with no worries about impure air
- 2 area motion detection sensor: air flow is sent to a zone other than where the person is located at that moment; if no people are detected, the unit will automatically switch over to the energy-efficient setting.
- 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
- Sleek, unobtrusive air conditioning unit that matches European sensibilities regarding interior design
- Choosing for an R-32 product, reduces the environmental impact with 68% compared to R-410A and leads directly to lower energy consumption thanks to its high energy efficiency
- 3-D air flow combines vertical and horizontal auto swing to circulate a stream of warm or cool air right to the corners of even large spaces



Practically inaudible	Econo mode	2 area motion detection sensor	Energy saving during standby mode	Night set mode	Fan only	Comfort mode	Powerful mode	Auto cooling-heating changeover
Indoor unit silent operation	Outdoor unit silent operation	3-D air flow	Vertical auto swing	Horizontal auto swing	Auto fan speed	Fan speed steps	Dry programme	Flash Streamer
Titanium apatite deodorising filter	Weekly timer	24 hour timer	Infrared remote control	Wired remote control	Centralised control	Online controller via app	Auto-restart	Self diagnosis
	Multi model application							

2 Specifications

2-1 Technical Specifications					FTXM20M	FTXM25M	FTXM35M	FTXM42M	FTXM50M	FTXM60M	FTXM71M	
Power input	Cooling		Nom.	kW	0.030		0.035		0.030	0.032	0.054	
	Heating		Nom.	kW	0.025			0.035	0.032	0.035	0.060	
Casing	Colour				White							
Dimensions	Unit	Height/Width/Depth	mm		294/811/272				300/1,040/295			
	Packed unit	Height/Width/Depth	mm		350/865/375				397/1,115/377			
Weight	Unit			kg	10.0				14.5			
	Packed unit			kg	12				17			
Packing	Weight			kg	2.0				2.5			
Heat exchanger	Length			mm	610				820			
	Rows	Quantity			2							
	Fin pitch			mm	1.40							
	Stages	Quantity			18							
	Passes	Quantity			2.2				6.0		4.0	
	Tube type				ø5 Hi-XB							
	Fin	Type			ML fin (Multi louver)							
Heat exchanger 2	Length			mm	600				810			
	Rows	Quantity			1							
	Fin pitch			mm	1.40							
	Stages	Quantity			4				8			
Air filter	Type				Removable / washable							
Fan	Type				Cross flow fan							
	Air flow rate	Cooling	High	m³/min	11.1		12.6		16.5	17.1	17.6	
				cfm	392		445		583	604	621	
			Mediu m	m³/min	7.9 (1)	8.1 (1)	8.3 (1)	9.5 (1)	14.2 (1)	14.6 (1)	15.0 (1)	
				cfm	280	286	293	335	502	516	530	
			Low	m³/min	6.0	6.2	6.4	7.1	11.6	12.0	12.5	
				cfm	212	219	226	251	410	424	440	
			Silent operati on	m³/min	4.4		4.6		10.3	10.7	11.1	
				cfm	155		162		364	378	391	
			Heating	High	m³/min	10.4			13.0	17.1	17.7	18.4
					cfm	367			459	604	625	648
				Mediu m	m³/min	8.7 (1)		9.0 (1)	10.4 (1)	14.6 (1)	15.6 (1)	16.2 (1)
					cfm	307		318	367	516	551	572
				Low	m³/min	6.5	6.8	7.1		12.2	12.6	13.0
					cfm	230	240	251		431	445	461
				Silent operati on	m³/min	5.3			10.7		11.2	11.9
					cfm	187			378		396	419
Fan motor	Model				MM6K11S20VA				MM9E17S21VA			
	Speed	Steps			5 + silent, + auto							
		Cooling	High/ Mediu m/Low/ Silent operati on	rpm	1,070/800/ 640/520	1,070/820/ 660/520	1,190/840/ 680/530	1,190/940/ 730/530	1,030/910/ 780/710	1,060/930/ 800/730	1,080/950/ 820/750	
				Heating	High/ Mediu m/Low/ Silent operati on	rpm	1,000/860/ 690/590	1,000/860/ 710/590	1,000/900/ 730/590	1,220/1,000/ 730/590	1,060/930/ 810/730	1,090/980/ 830/760
	Output	Rated	W	22				46		52		
Sound power level	Cooling			dBA	57		60		59	60		

2 Specifications

2-1 Technical Specifications				FTXM20M	FTXM25M	FTXM35M	FTXM42M	FTXM50M	FTXM60M	FTXM71M
Sound pressure level	Cooling	High/Medium/ Low/Silent operation	dBA	41/33 (1)/25/19		45/33 (1)/29/ 19	45/39 (1)/30/ 21	44/40 (1)/36/ 32	46/42 (1)/37/ 34	47/43 (1)/38/ 35
	Heating	High/Medium/ Low/Silent operation	dBA	39/34/26/20	39/34/27/20	39/35/28/20	45/39/29/21	43/39/34/31	45/41/36/33	46/42/37/34
Control systems	Infrared remote control			ARC466A33						
	Wired remote control			BRC944B2 / BRC073A1				BRC944B2 / BRC073		
Refrigerant	Type			R-32						
Piping connections	Liquid	OD		6,35						
	Gas	OD		9.50			12.7			15.90
	Drain			18						
	Heat insulation			Both liquid and gas pipes						
Temperature control				Microcomputer control						
Air direction control				Right, Left, Horizontal, Downward						

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 : Mounting plate; Quantity : 1;
 Standard Accessories : Titanium apatite deodorizing filter; Quantity : 1;
 Standard Accessories : Indoor unit fixing screws; Quantity : 2;

2-2 Electrical Specifications				FTXM20M	FTXM25M	FTXM35M	FTXM42M	FTXM50M	FTXM60M	FTXM71M
Power supply	Name			V1						
	Phase			1~						
	Frequency		Hz	50						
	Voltage		V	220-240						
Current	Nominal running current (RLA) - 50Hz	Cooling	A	0.22		0.25		0.20	0.22	0.37
		Heating	A	0.17			0.25	0.22	0.25	0.42
Wiring connections - 50Hz	For power supply	Quantity		3						-
		Remark		3 for power supply, 4 for interunit wiring (Earth wire included)						4 for interunit wiring (earth wire included)

Notes

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

Contains fluorinated greenhouse gases

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

[illegible]

1. R32 models

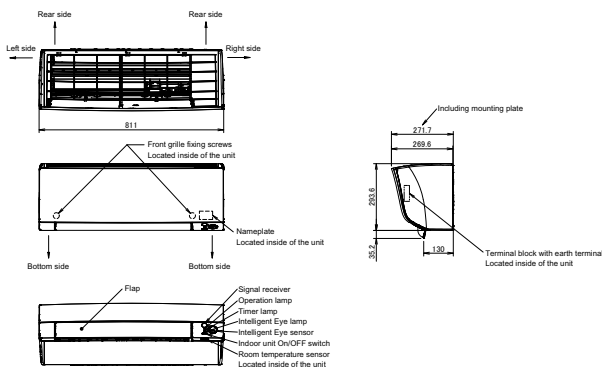
- [illegible]

3D095173M

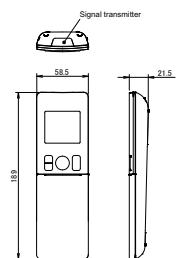
4 Dimensional drawings

4 - 1 Dimensional Drawings

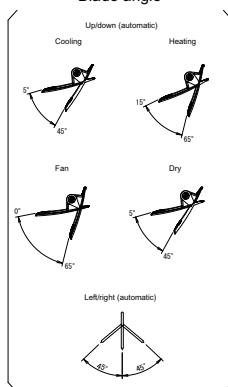
FTXM20-42M



Wireless remote control (ARC466A33)

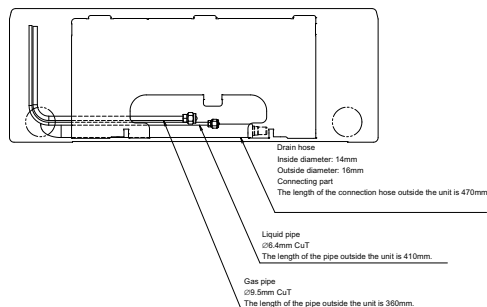
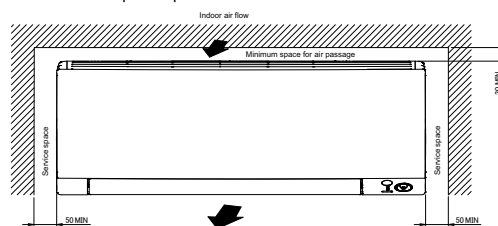


Blade angle

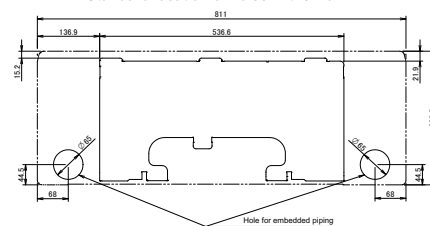


Notes
1. The → mark shows the piping direction.

Required space for service and ventilation



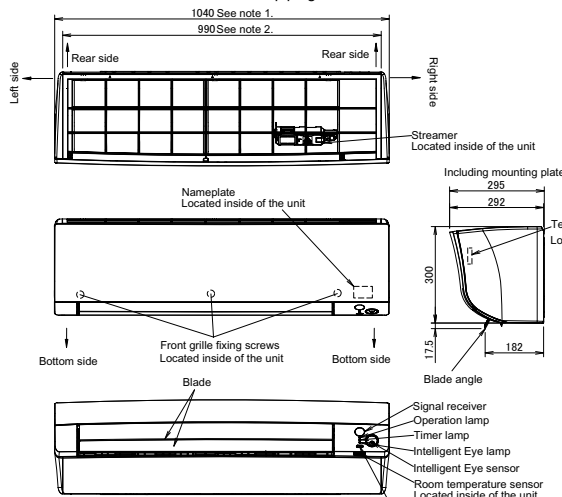
Standard location of holes in the wall



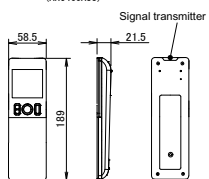
2D100063B

FTXM50-60M

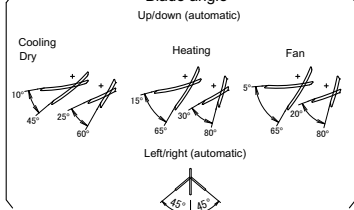
The → mark shows the piping direction.



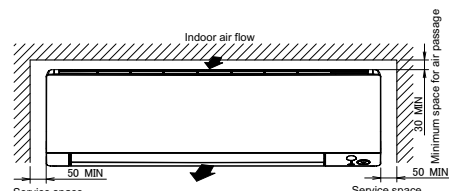
Wireless remote control (ARC466A33)



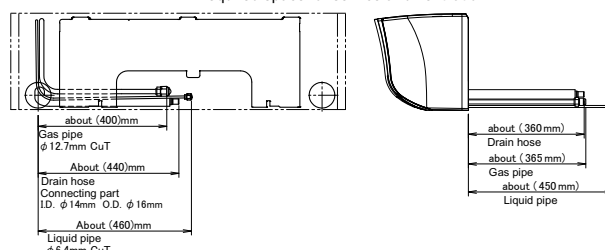
Blade angle



Notes
1. Total width of unit
2. Width of unit against the wall



Required space for service and ventilation



Standard location of holes in the wall

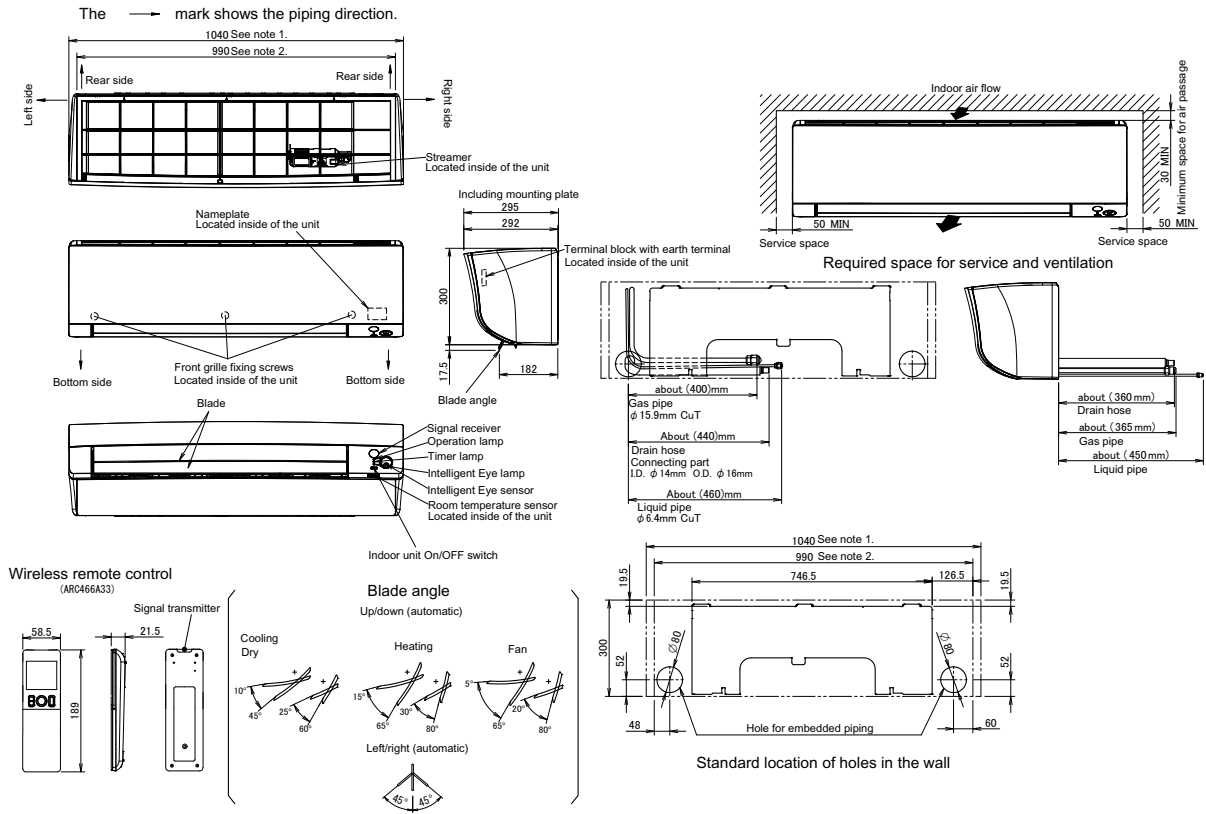


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4 Dimensional drawings

4 - 1 Dimensional Drawings

FTXM71M



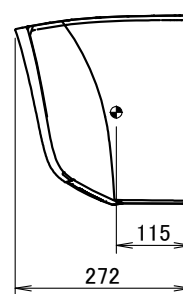
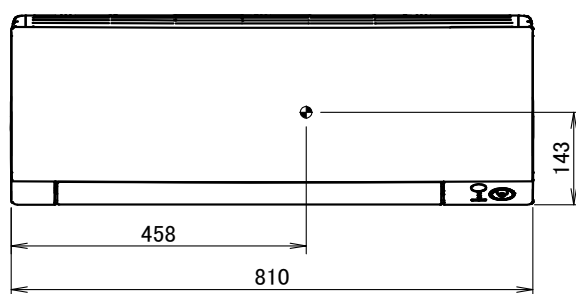
- Notes
1. Total width of unit
 2. Width of unit against the wall
 3. Editable data for this drawing are available in the GDE (E-BOM) system.

3D101374B

5 Centre of gravity

5 - 1 Centre of Gravity

FTXM20-42M

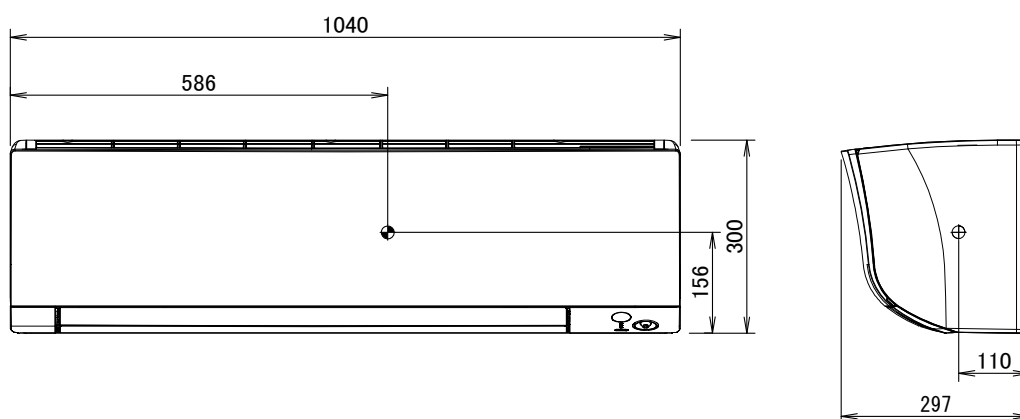


4D100152

5 Centre of gravity

5 - 1 Centre of Gravity

FTXM50-71M



4D101334

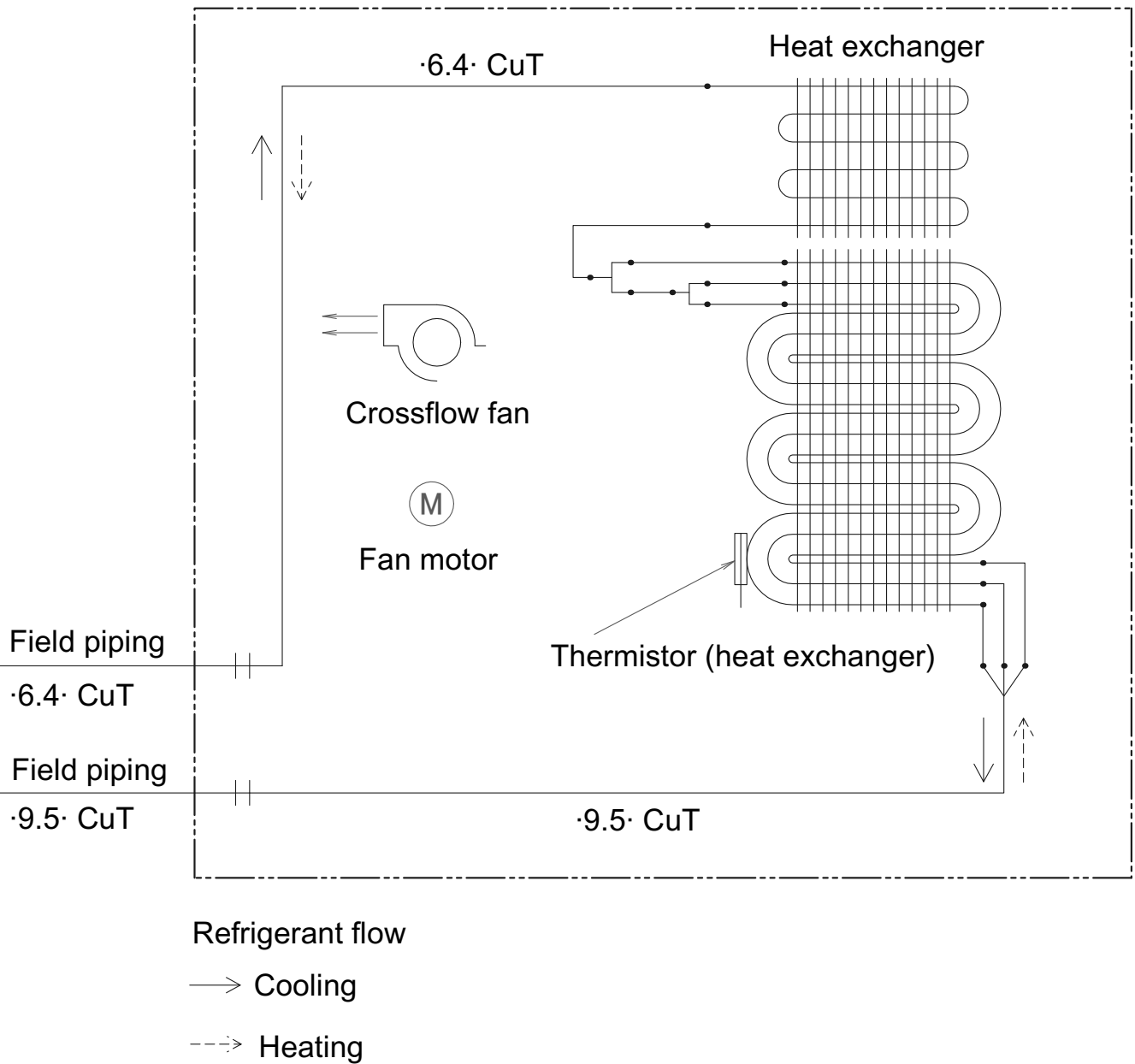
6 Piping diagrams

6 - 1 Piping Diagrams

FTXM20-35M

6

Indoor unit



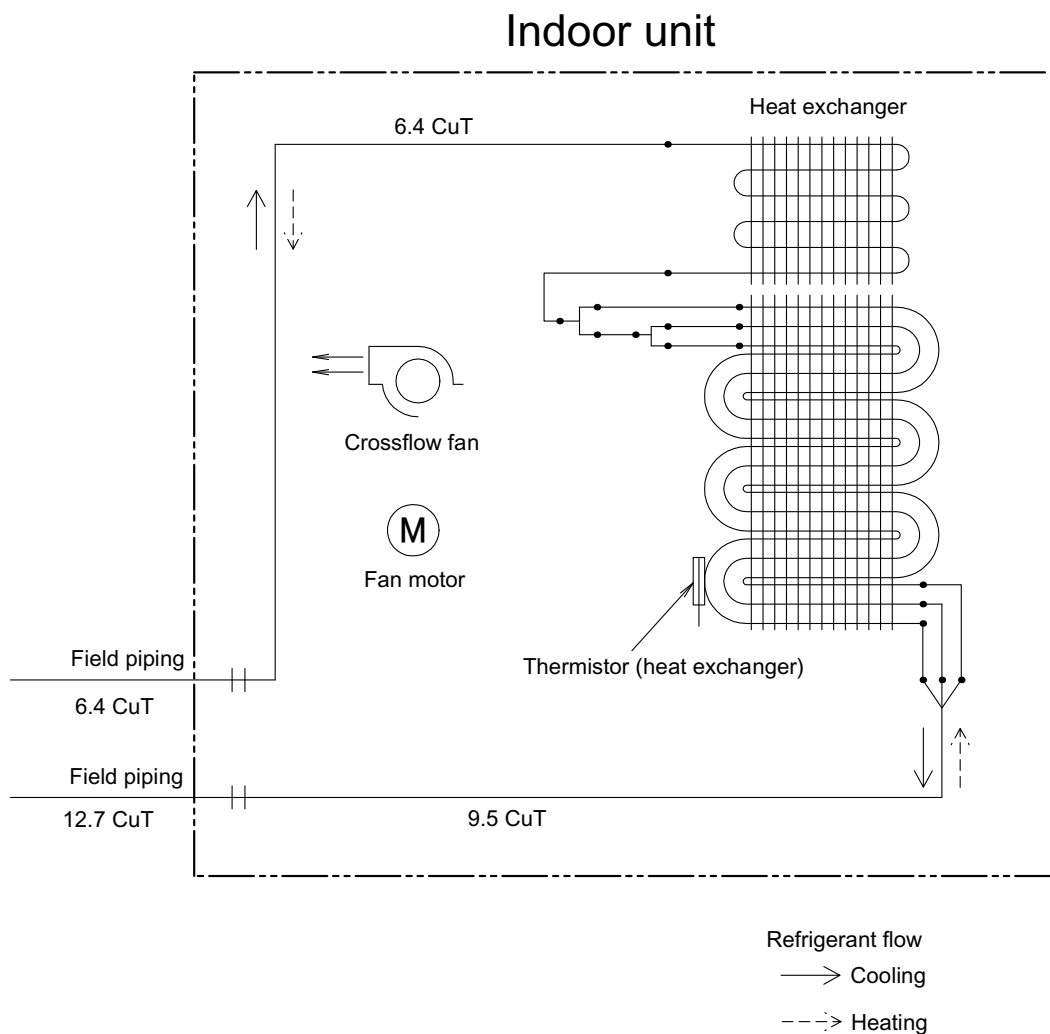
4D098106B

6 Piping diagrams

6 - 1 Piping Diagrams

FTXM42M

6



4D101820

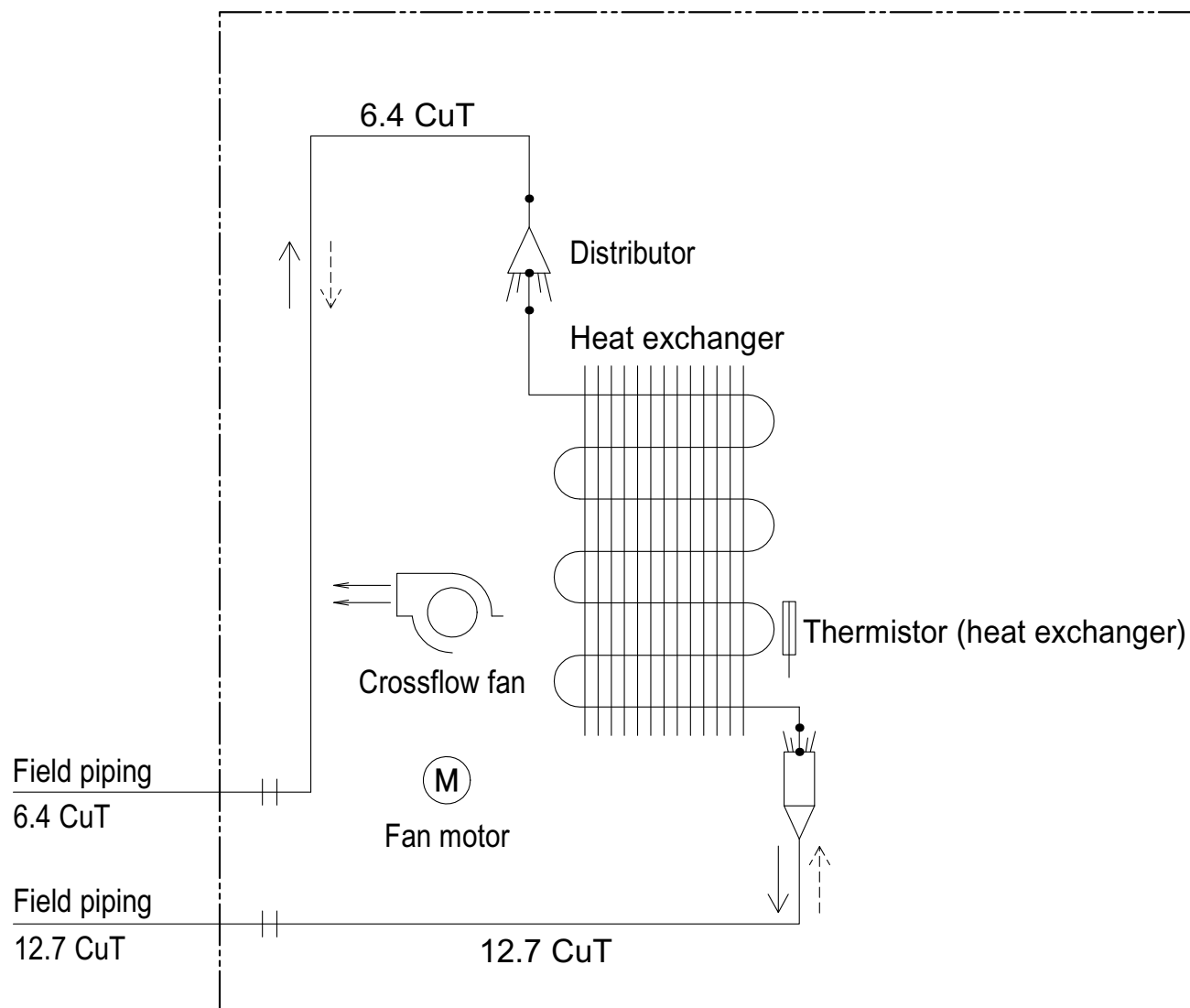
6 Piping diagrams

6 - 1 Piping Diagrams

FTXM50-60M

6

Indoor unit



Refrigerant flow

—> Cooling

---> Heating

4D101332D

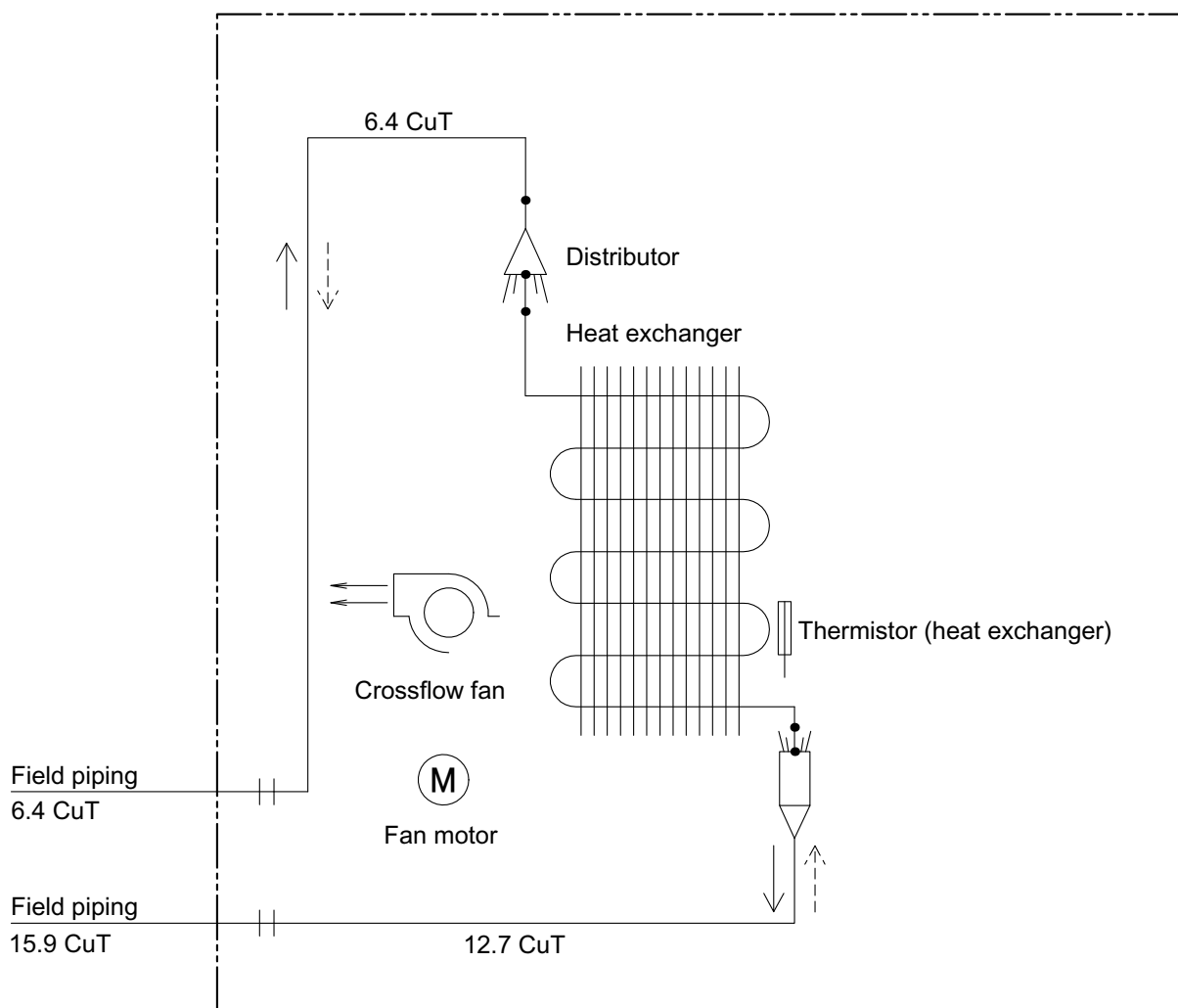
6 Piping diagrams

6 - 1 Piping Diagrams

FTXM71M

6

Indoor unit



Refrigerant flow

→ Cooling

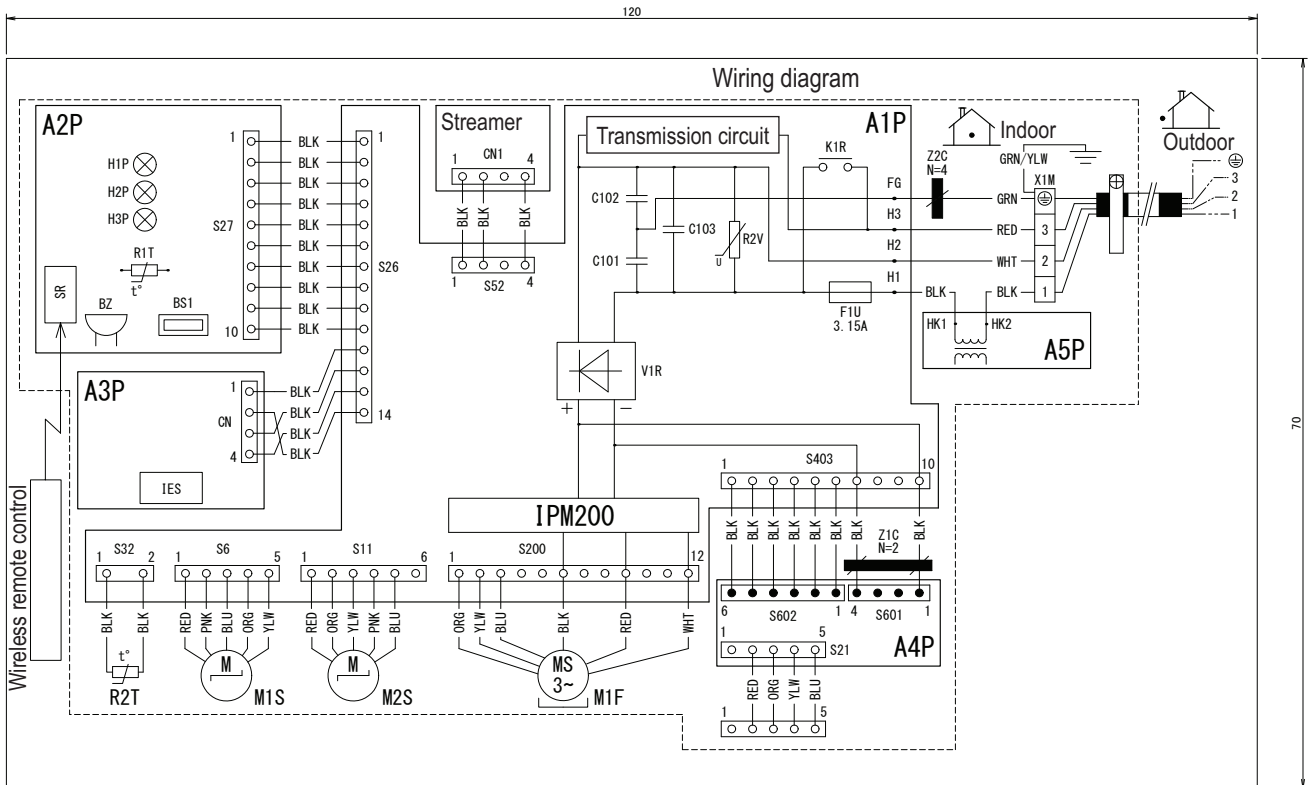
---→ Heating

4D101337C

7 Wiring diagrams

7 - 1 Wiring Diagrams - Single Phase

FTXM20-42M



A1~5P	Printed circuit board
BS1	Operation switch
BZ	Buzzer
C101~103	Capacitor
F1U	Fuse
FG	Frame ground
H1, H2, H3, HK1, HK2	Harness
H1~3P	Light-emitting diode
IES	Intelligent Eye sensor
IPM200	Intelligent power module
K1R	Magnetic relay
M1F	Fan motor
M1S, M2S	Swing motor
R1T, R2T	Thermistor
R2V (V2)	Varistor
SR	Signal receiver
S6~S602, CN1, CN2	Connector
V1R	Diode bridge
S1M	Terminal strip
Z1C, Z2C	Ferrite core

⊕ : Protective earth

▬ : Field wiring

WIRE COLORS

BLK : Black
 BLU : Blue
 BRN : Brown
 GRN : Green
 ORG : Orange
 PNK : Pink
 RED : Red
 WHT : White
 YLW : Yellow

CAUTION

When the main power is turned off and then back on again, operation will resume automatically.

NOTES

1. Size: length 70 X width 120.
2. Refer to purchasing specification AS303002, unless otherwise specified.

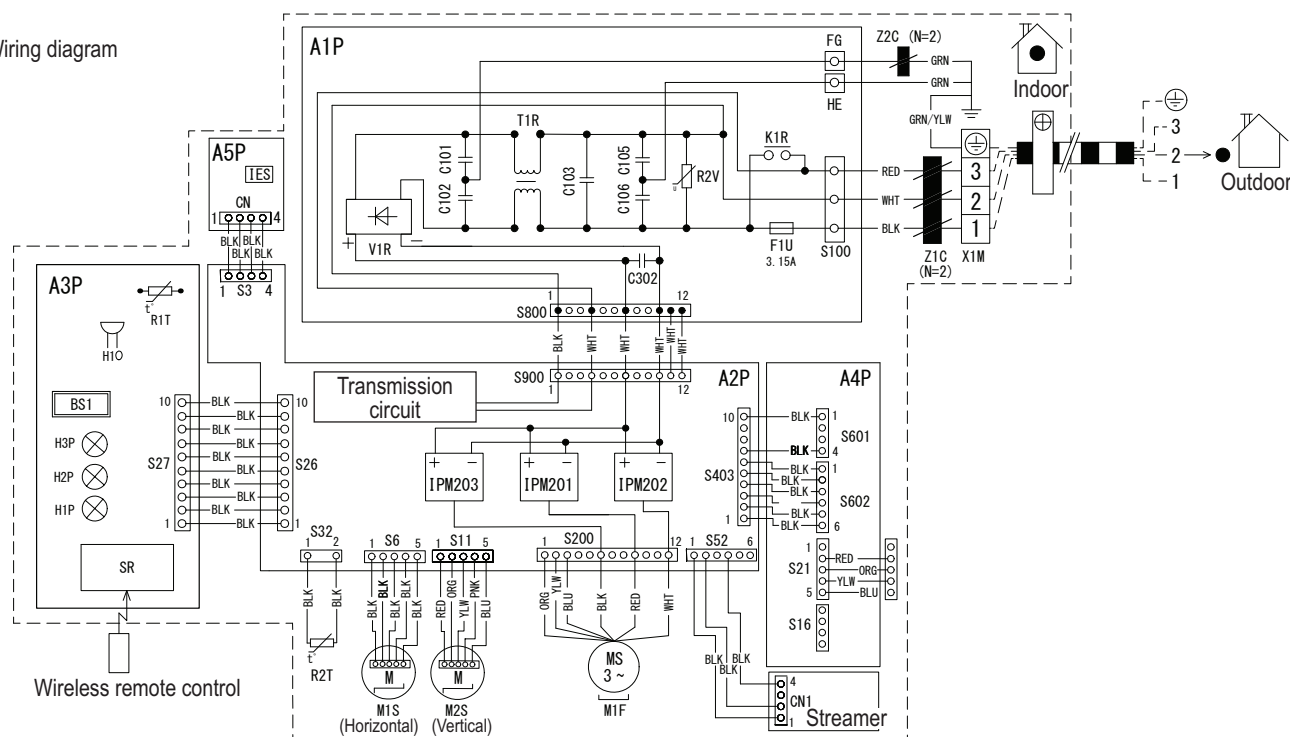
3D098117D

7 Wiring diagrams

7 - 1 Wiring Diagrams - Single Phase

FTXM50-71M

Wiring diagram



IES	Intelligent Eye sensor
FG, HE, S6~S900, CN, CN1	Connector
F1U (FU1)	Fuse
T1R (L301)	Transformer
M1F	Fan motor
M1S, M2S	Swing motor
K1R (MR10)	Magnetic relay
A1P~A5P	Printed circuit board
R1T, R2T	Thermistor
BS1 (S1W)	Operation switch
R2V (V2)	Varistor
X1M	Terminal strip
Z1C, Z2C	Ferrite core
IPM201~203	Intelligent power module
H1P, H2P, H3P (LED~1 3)	Pilot lamp
V1R(DB301)	Diode bridge
H1O(BZ)	Buzzer
C101~302	Capacitor
SR(WLU)	Signal receiver
Streamer	Streamer

⊕ : Protective earth

▬ : Field wiring

WIRE COLORS

BLK : Black
 BLU : Blue
 BRN : Brown
 GRN : Green
 ORG : Orange
 PNK : Pink
 RED : Red
 WHT : White
 YLW : Yellow

CAUTION

When the main power is turned off and then back on again, operation will resume automatically.

NOTES

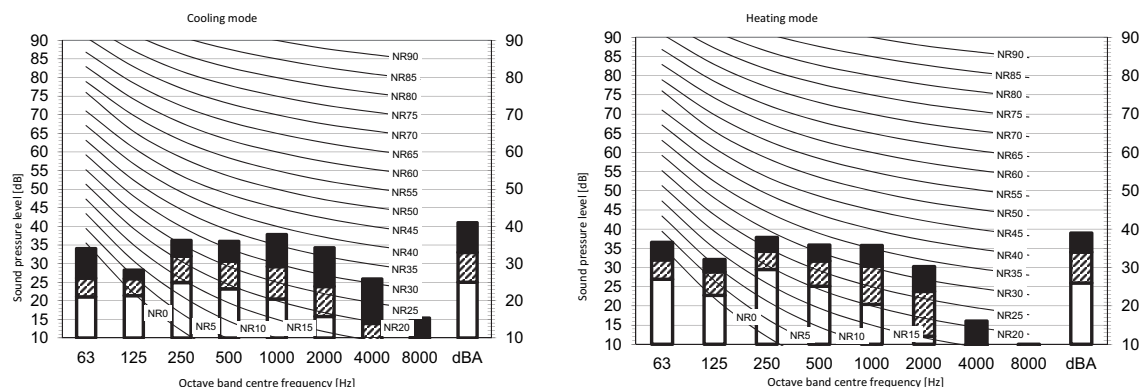
1. Size: length 65 X width 110.
2. Refer to purchasing specification AS303002, unless otherwise specified.

3D100231B

8 Sound data

8 - 1 Sound Pressure Spectrum

FTXM20M



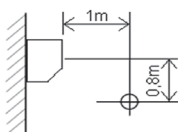
Legend

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

A Scale

- B High-tap
- C Medium-tap
- D Low-tap

Location of microphone



Cooling Total dB			
A	B	C	D
dBA	41	33	25

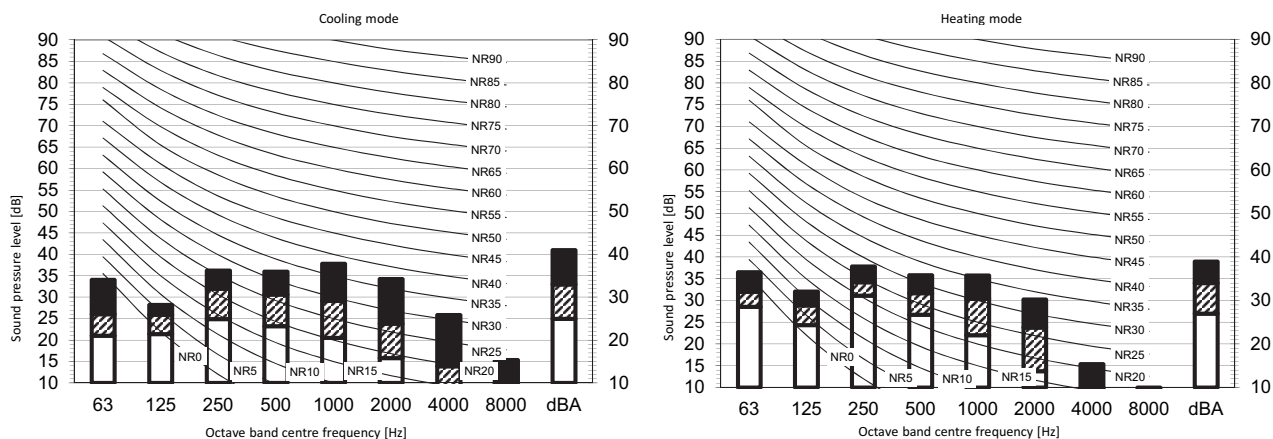
Heating Total dB			
A	B	C	D
dBA	39	34	26

Notes

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

3D101042A

FTXM25M



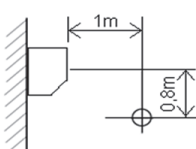
Legend

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

A Scale

- B High-tap
- C Medium-tap
- D Low-tap

Location of microphone



Cooling Total dB			
A	B	C	D
dBA	41	33	25

Heating Total dB			
A	B	C	D
dBA	39	34	27

Notes

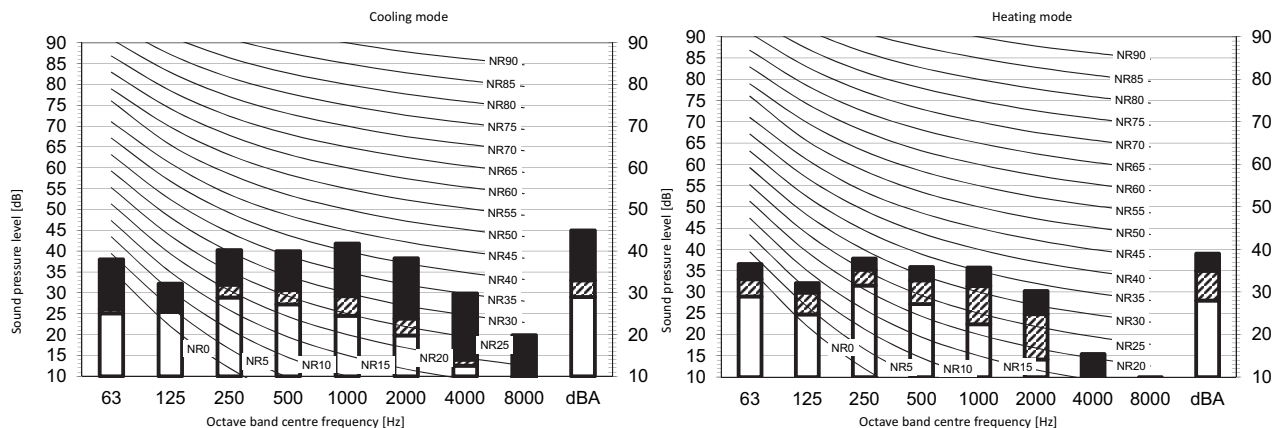
- Operating conditions: power source 220-240 V/220 V 50/60 Hz; JIS standard
- Background noise already taken into account.
- Operating noise varies depending on operation and ambient conditions.
- The operation noise measuring method is in accordance with JISC9612.
- Measuring location: anechoic chamber

3D101043A

8 Sound data

8 - 1 Sound Pressure Spectrum

FTXM35M

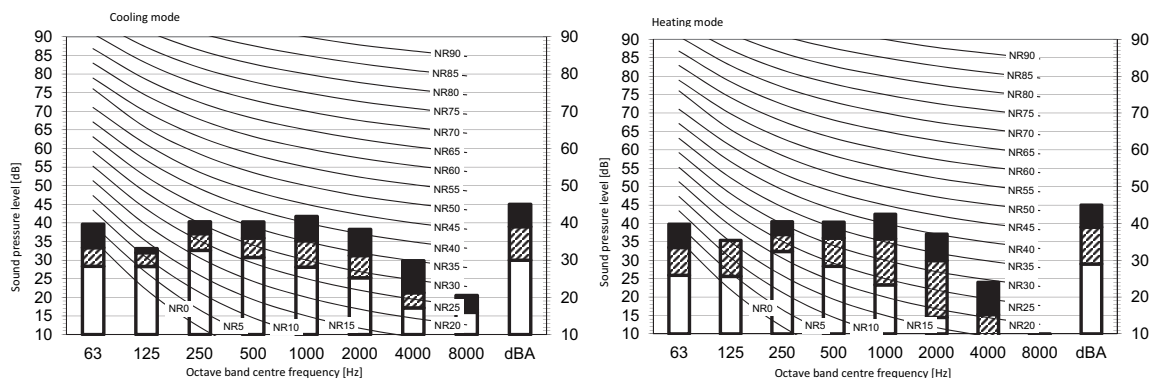


Cooling				Heating			
Total dB				Total dBA			
A	B	C	D	A	B	C	D
dBA	45	33	29	dBA	39	35	28

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

3D101044A

FTXM42M



Cooling				Heating			
Total dBA				Total dBA			
A	B	C	D	A	B	C	D
dBA	45	39	30	dBA	45	39	29

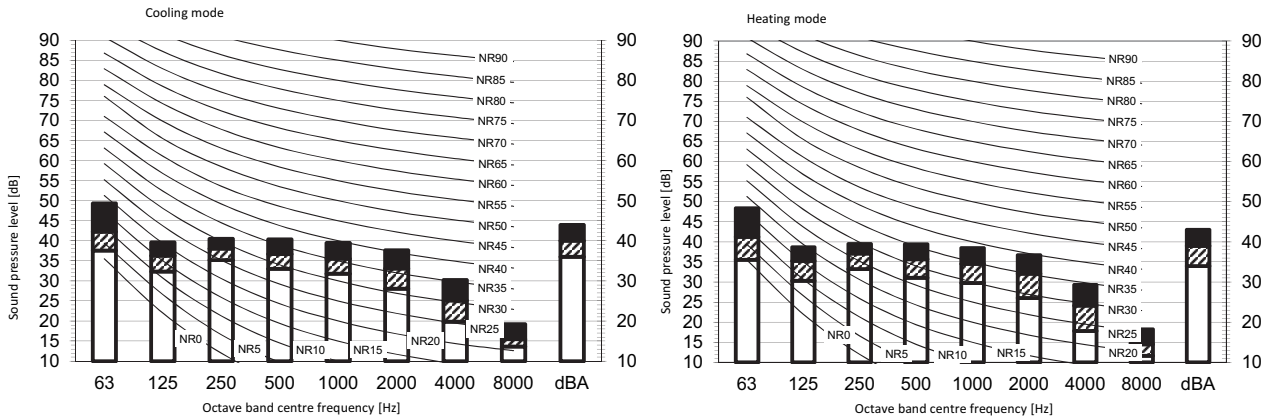
- Notes
- Operating conditions: power source 220-240 V/220 V 50/60 Hz; JIS standard
 - Background noise already taken into account.
 - Operating noise varies depending on operation and ambient conditions.
 - The operation noise measuring method is in accordance with JISC9612.
 - Measuring location: anechoic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

3D101045A

8 Sound data

8 - 1 Sound Pressure Spectrum

FTXM50M



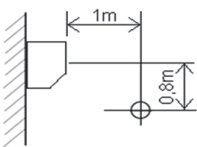
Legend

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

A Scale

- B High-tap
- C Medium-tap
- D Low-tap

Location of microphone



Cooling Total dB			
A	B	C	D
dBA	44	40	36

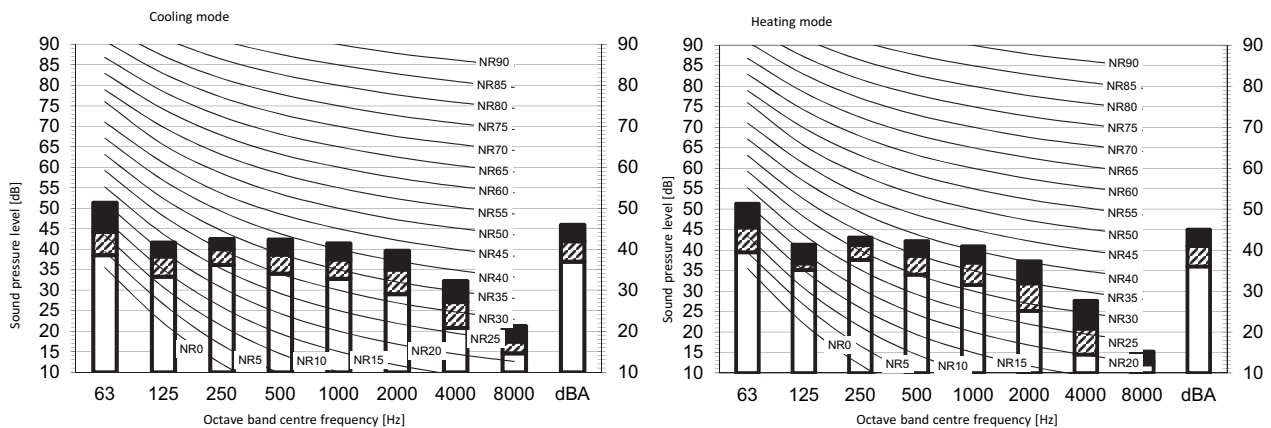
Heating Total dB			
A	B	C	D
dBA	43	39	34

Notes

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

3D102203A

FTXM60M



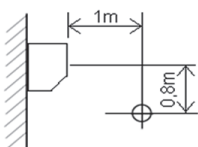
Legend

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

A Scale

- B High-tap
- C Medium-tap
- D Low-tap

Location of microphone



Cooling Total dB			
A	B	C	D
dBA	46	42	37

Heating Total dB			
A	B	C	D
dBA	45	41	36

Notes

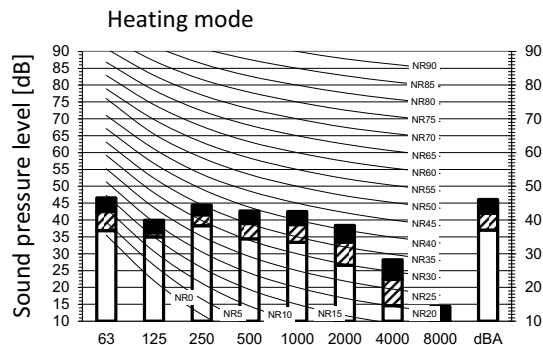
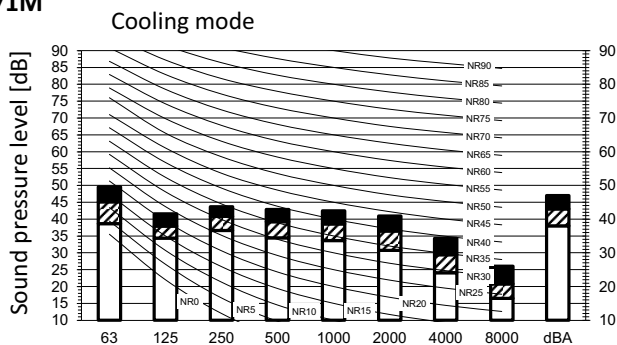
- Operating conditions: power source 220-240 V/220 V 50/60 Hz; JIS standard
- Background noise already taken into account.
- Operating noise varies depending on operation and ambient conditions.
- The operation noise measuring method is in accordance with JISC9612.
- Measuring location: anechoic chamber

3D102204A

8 Sound data

8 - 1 Sound Pressure Spectrum

FTXM71M



Octave band centre frequency [Hz]

Octave band centre frequency [Hz]

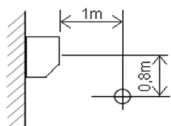
Legend

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

A Scale

- B High-tap
C Medium-tap
D Low-tap

Location of microphone



Cooling		Total dB	
A	B	C	D
dBA	47	43	38

Heating		Total dB	
A	B	C	D
dBA	46	42	37

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

3D105084

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