

Wall mounted unit Air Conditioning Technical Data FTXM-A



FTXM20A2V1B
FTXM20A5V1B
FTXM25A2V1B
FTXM25A5V1B
FTXM35A2V1B
FTXM35A5V1B
FTXM42A2V1B
FTXM42A5V1B
FTXM50A2V1B
FTXM50A5V1B
FTXM60A2V1B
FTXM71A2V1B

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FTXM-A

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1 Features

1 - 1 FTXM-A

Attractive, wall mounted design with perfect indoor air quality

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- › Seasonal efficiency values up to A+++ in cooling and heating in pair and multi
- › Comfort+: perfect comfort with homogeneous temperature throughout the room. The double flaps direct the air towards the ceiling in heating and along the wall in heating.
- › 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.
- › 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)
- › Purifies the air of viruses, bacteria and fine dust thanks to the efficient dust filter
- › 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
- › Silver allergen removal and air purifying filter captures allergens such as pollen to ensure a steady supply of clean air
- › Voice command via Amazon Alexa or Google Assistant to control main functions such as set point, operation mode, fan speed, etc
- › 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
- › 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



Comfort+



Heat boost



Onecta app



Econo mode


2 area motion
detection
sensor

Energy
saving during
standby mode

Night set
mode


Fan only


Powerful
mode

Auto cooling-
heating
changeover


Whisper quiet


Indoor
unit silent
operation

Outdoor
unit silent
operation


3-D air flow


Vertical auto
swing

Horizontal
auto swing

Auto fan
speed

Dry
programme

Silver allergen
removal and
air purifying
filter


Flash Streamer


Practically
inaudible

Titanium
apatite
deodorising
filter

Air purification
filter


Weekly timer


Infrared
remote control

Wired remote
control

Centralised
control


Auto-restart



Self diagnosis


Multi model
application

2 Specifications

Technical specifications					FTXM20A	FTXM25A	FTXM35A	FTXM42A	FTXM50A	FTXM60A	FTXM71A			
Power input	Cooling	Nom.		kW	0.019		0.029	0.031	0.034	0.035	0.037			
	Heating	Nom.		kW	0.018		0.019	0.035	0.036	0.034	0.041			
Casing	Colour				White									
Dimensions	Unit	Height		mm	298									
		Width		mm	804					997				
		Depth		mm	252					292				
	Packed unit	Height		mm	350					397				
		Width		mm	875					1,115				
		Depth		mm	380					377				
Weight	Unit		kg	11.5					14.5					
	Packed unit		kg	13					17					
Packing	Weight		kg	2					2.5					
Heat exchanger	Length		mm	622					820					
	Rows	Quantity		2										
	Fin pitch		mm	1.40					1.4					
	Face area		m²	0.214					0.281					
	Stages	Quantity		18										
	Passes	Quantity		2.20	2.40	3.43		6	4					
	Tube type				ø5 Hi-XB									
	Tube material				Copper									
	Tube diameter				mm	5					-			
	Fin				Type	Multi slit fin								
	Heat exchanger 2	Quantity			2		1							
		Length		mm	622					810				
Rows		Quantity		1										
Fin pitch			mm	1.40					1.4					
Face area			m²	0.047	0.094			0.124						
Stages		Quantity		4	8									
Heat exchanger 3	Quantity		mm	-	1									
	Length		mm	-	622					810				
	Rows	Quantity		-	1									
	Fin pitch		mm	-	1.40					1.4				
	Stages	Quantity		-	4									
Fan	Type				Cross flow fan									
	Air flow rate	Cooling	High	m³/min	11.9	13.2	13.3	12.7	15.6	15.8				
Fan	Air flow rate	Cooling	Medium	cfm	420	466	470	448	551	558				
				Low	m³/min	6.3	7.1	7.2	7.8	11.2	11.4			
					cfm	222	251	254	275	396	403			
				Silent operation	m³/min	4.9	4.6	5.0	5.9	8.6	9.3			
			cfm		173	162	177	208	304	328				
			Heating	High	m³/min	11.4	11.1	14.0	14.5	15.9	17.3			
				Medium	cfm	403	392	494	512	562	611			
					m³/min	9.2	9.4	10.0	11.5	14.6	15.3			
				Low	cfm	325	332	353	406	516	540			
			m³/min		6.9		7.1	8.6	11.8	12.3				
			Silent operation	cfm	244		251	304	417	434				
				m³/min	4.9	5.1	5.3	6.9	10.5	11.2				
			Fan motor	Model					DFH04E1VA				MM9E17Y33VA	
				Speed	Steps					5 + silent, + auto				
			Sound power level	Cooling	High	rpm	900	1,040	1,060	1,090	1,060	1,080		
						rpm	720	800	850	890	930	950		
Low	rpm	570			670	680	720	800	820					
	Silent operation	rpm			480		510	600	650	700				
Heating	High	rpm		880	890	1,100	1,110	1,050	1,120					
	Medium	rpm		750	790	860	950	980	1,010					
	Low	rpm		620	650	690	780	830	850					
	Silent operation	rpm		500	530	540	650	760	790					
Output	Rated	W	35					68						
	Cooling		dBA	54	58	60								
Sound pressure level	Cooling		dBA	53			60		59	61				
		High	dBA	41	45			46		47				
		Medium	dBA	33	37	38	40	42	43					
		Low	dBA	25	29	30	33	37	38					
	Heating	Silent operation	dBA	19			21	27	30	32				
		High	dBA	39			45	46	45	46				
		Medium	dBA	34	35	37	41		42					
		Low	dBA	26	27	28	29	34	36	37				
		Silent operation	dBA	20		21	31	33	34					

2 Specifications

Technical specifications				FTXM20A	FTXM25A	FTXM35A	FTXM42A	FTXM50A	FTXM60A	FTXM71A
Refrigerant	Type			R-32						
	GWP			675						
Piping connections	Liquid	OD	mm	6.4						
	Gas	OD	mm	9.5				12.7		15.9
	Drain			16						
	Heat insulation			Both liquid and gas pipes						
Air filter	Type			Removable / washable						
Air direction control				Right, Left, Horizontal, Downward						
Temperature control				Microcomputer control						
Control systems	Infrared remote control			ARC466A86						
	Wired remote control			BRC073A1						

Standard accessories: Installation manual;Quantity: 1;

Standard accessories: Wireless remote control;Quantity: 1;

Standard accessories: Screw cover;Quantity: 2;

Standard accessories: AAA dry-cell batteries;Quantity: 2;

Standard accessories: Operation manual;Quantity: 1;

Standard accessories: Titanium apatite deodorizing filter;Quantity: 1;

Standard accessories: Silver particle filter;Quantity: 1;

Standard accessories: Remote control holder;Quantity: 1;

Standard accessories: Screw bag;Quantity: 1;

Electrical specifications			FTXM20A	FTXM25A	FTXM35A	FTXM42A	FTXM50A	FTXM60A	FTXM71A
Power supply	Name		V1						
	Phase		1~						
	Hz		50						
	V		220-240						
Current - 50Hz	A		-					0.3	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	0.3		0.4			-	

Cooling: indoor temp. 27°CDB, 19°CWB; outdoor temp. 35°CDB; equivalent piping length: 5m; level difference: 0m | Heating: indoor temp. 20°CDB; outdoor temp. 7°CDB, 6°CWB; equivalent refrigerant piping: 5m; level difference: 0m

3

Notes

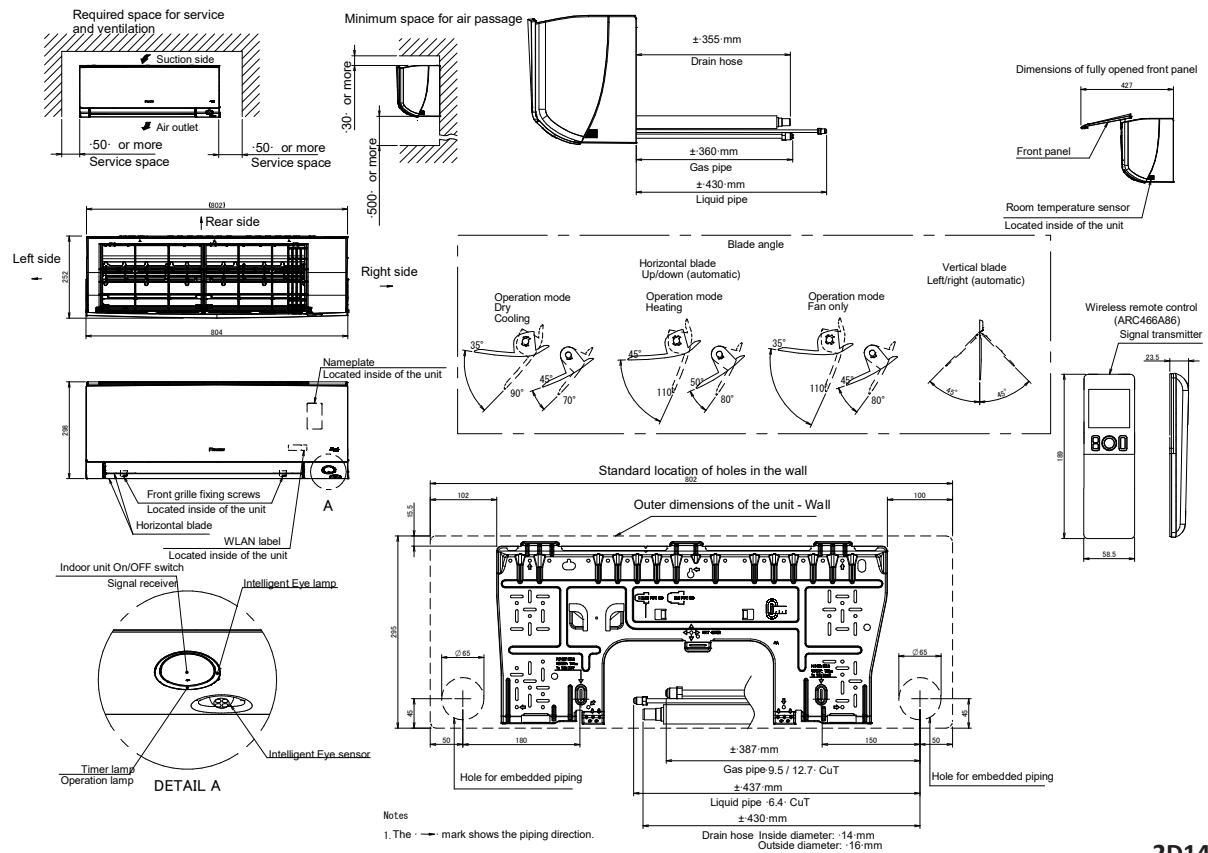
1. Standard accessory
2. This option features a(n) -S21- connector. To connect this option to the indoor unit, therefore conversion wire harness -EKRS21- is required.
3. This option cannot operate together with the wireless LAN functionality that is a standard feature of the indoor unit.
When connecting this option to the indoor unit, turn off the indoor unit's wireless LAN functionality.
4. Obsolete option.
5. Production of this option finished. replaced by new option KRP413BR1S.

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4 Dimensional drawings

4 - 1 Dimensional Drawings

FTXM20-50A

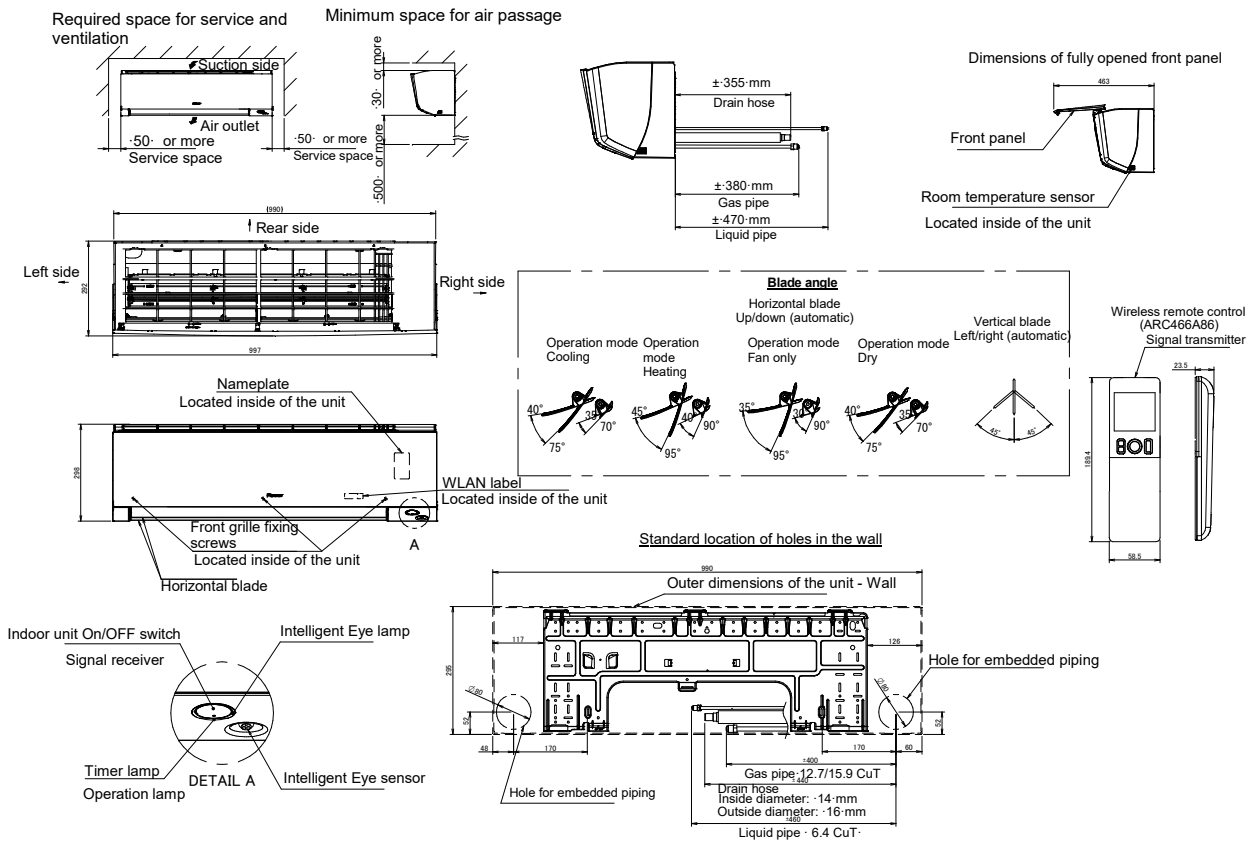


2D148274A

4 Dimensional drawings

4 - 1 Dimensional Drawings

FTXM60-71A

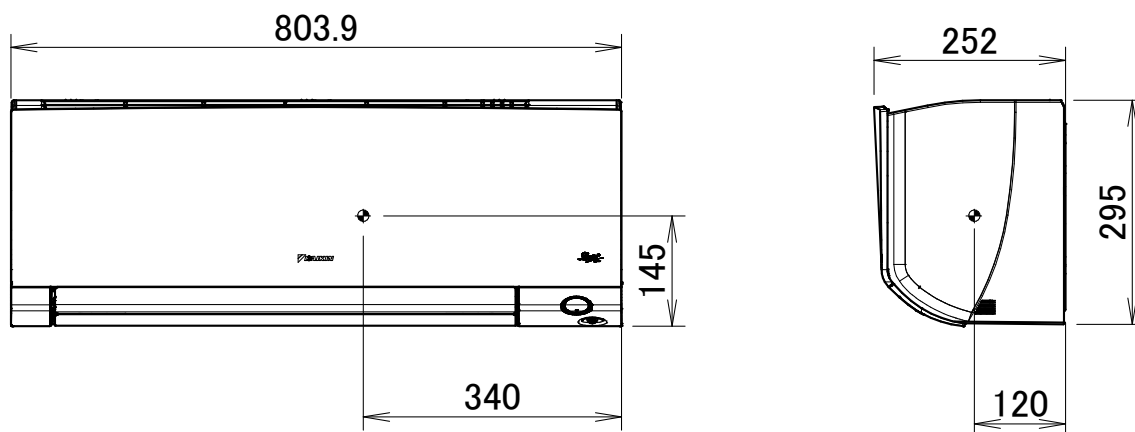


2D150981B

5 Centre of gravity

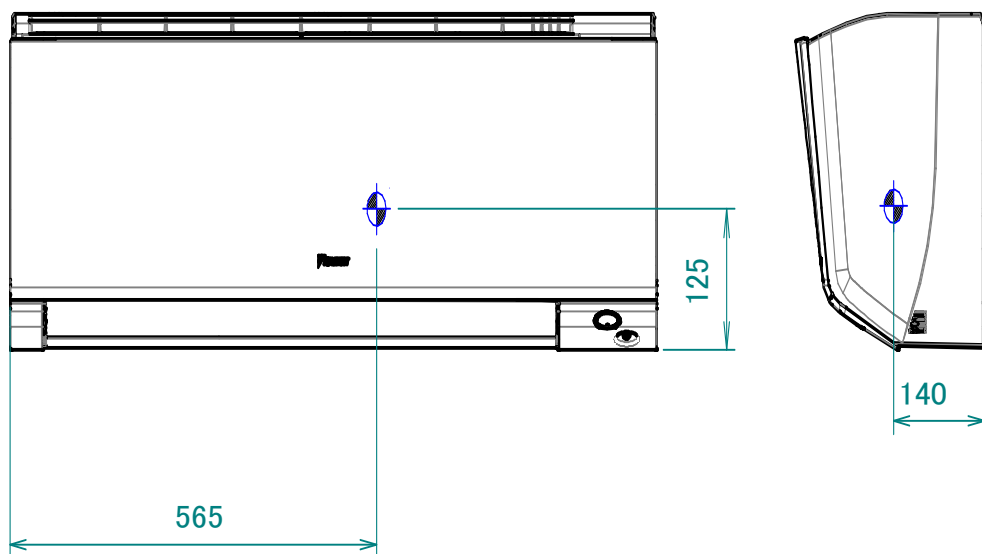
5 - 1 Centre of Gravity

FTXM20-50A



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FTXM60-71A



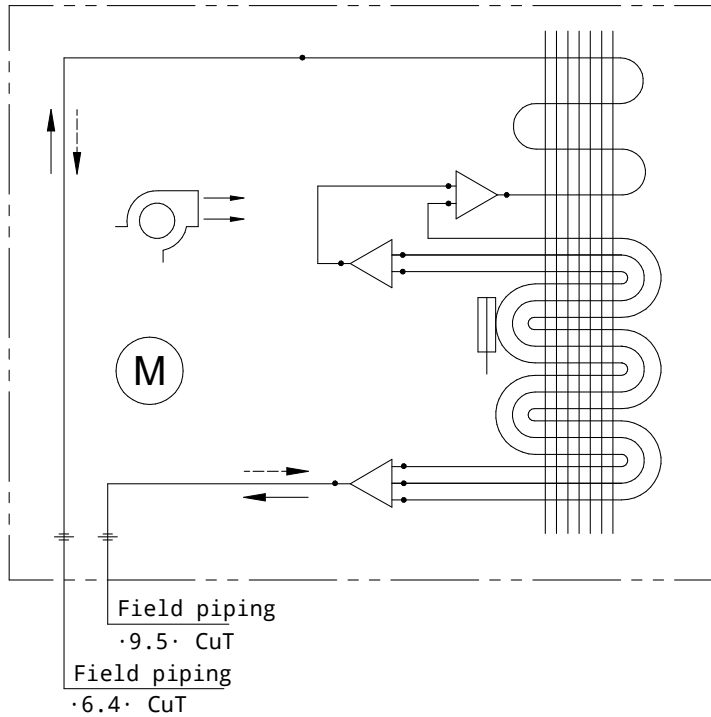
4D150677

6 Piping diagrams

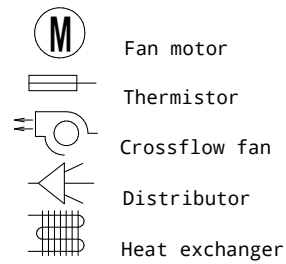
6 - 1 Piping Diagrams

FTXM20-25A

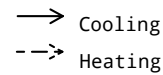
Indoor unit



Legend



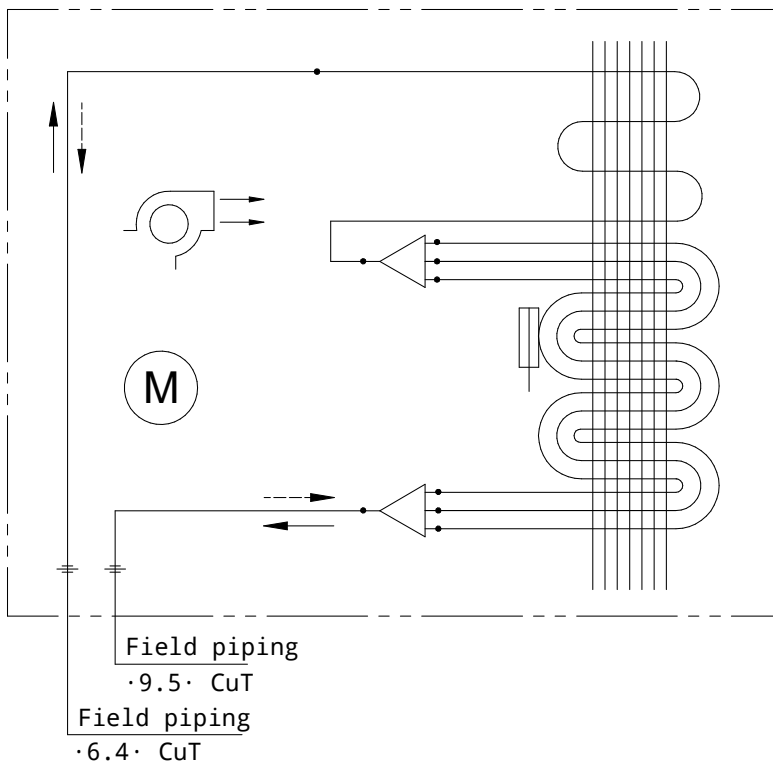
Refrigerant flow



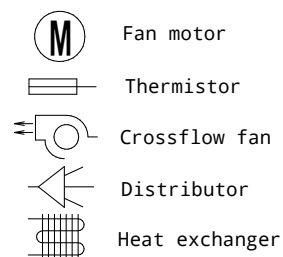
4D147901

FTXM35A

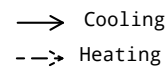
Indoor unit



Legend



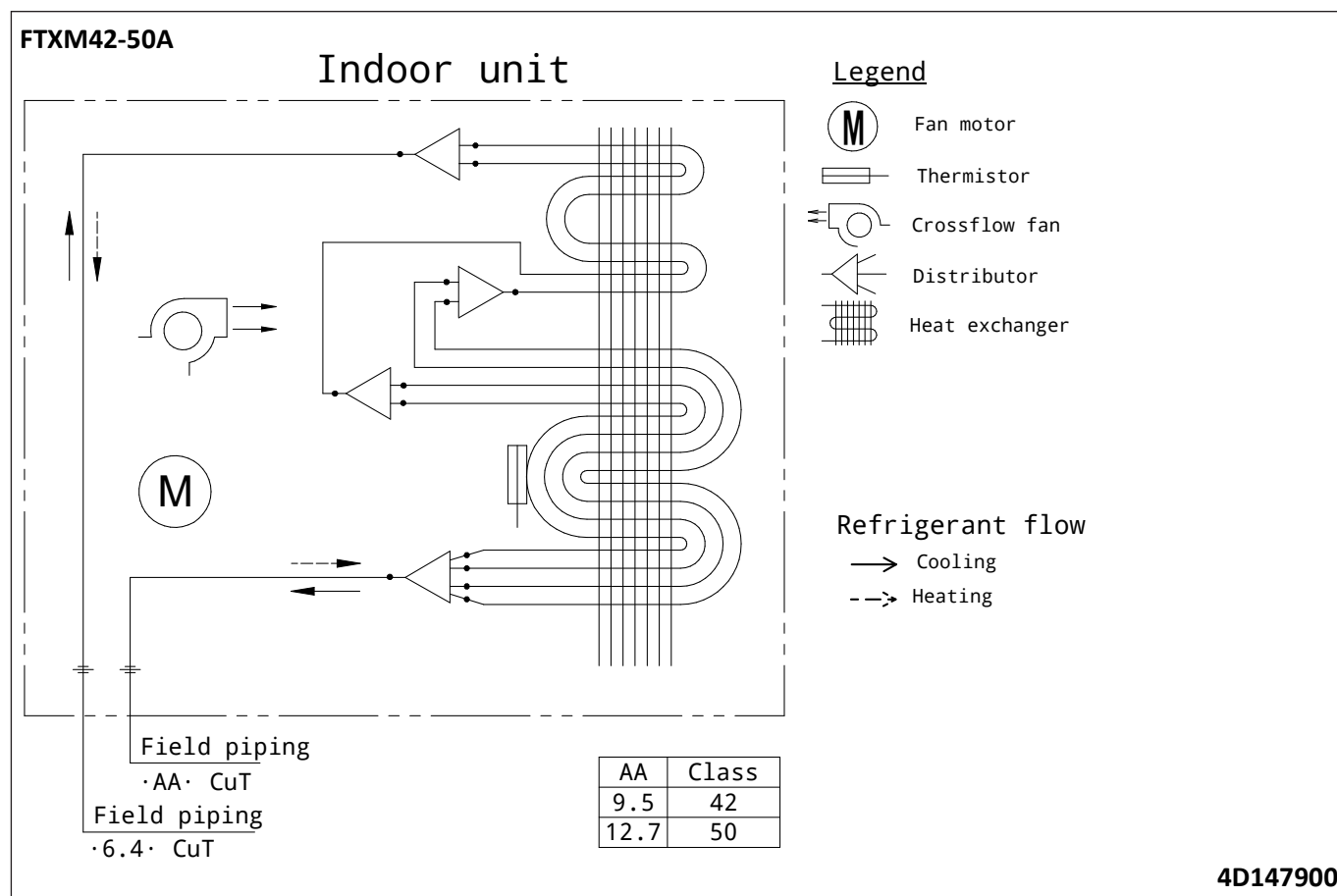
Refrigerant flow



4D147902

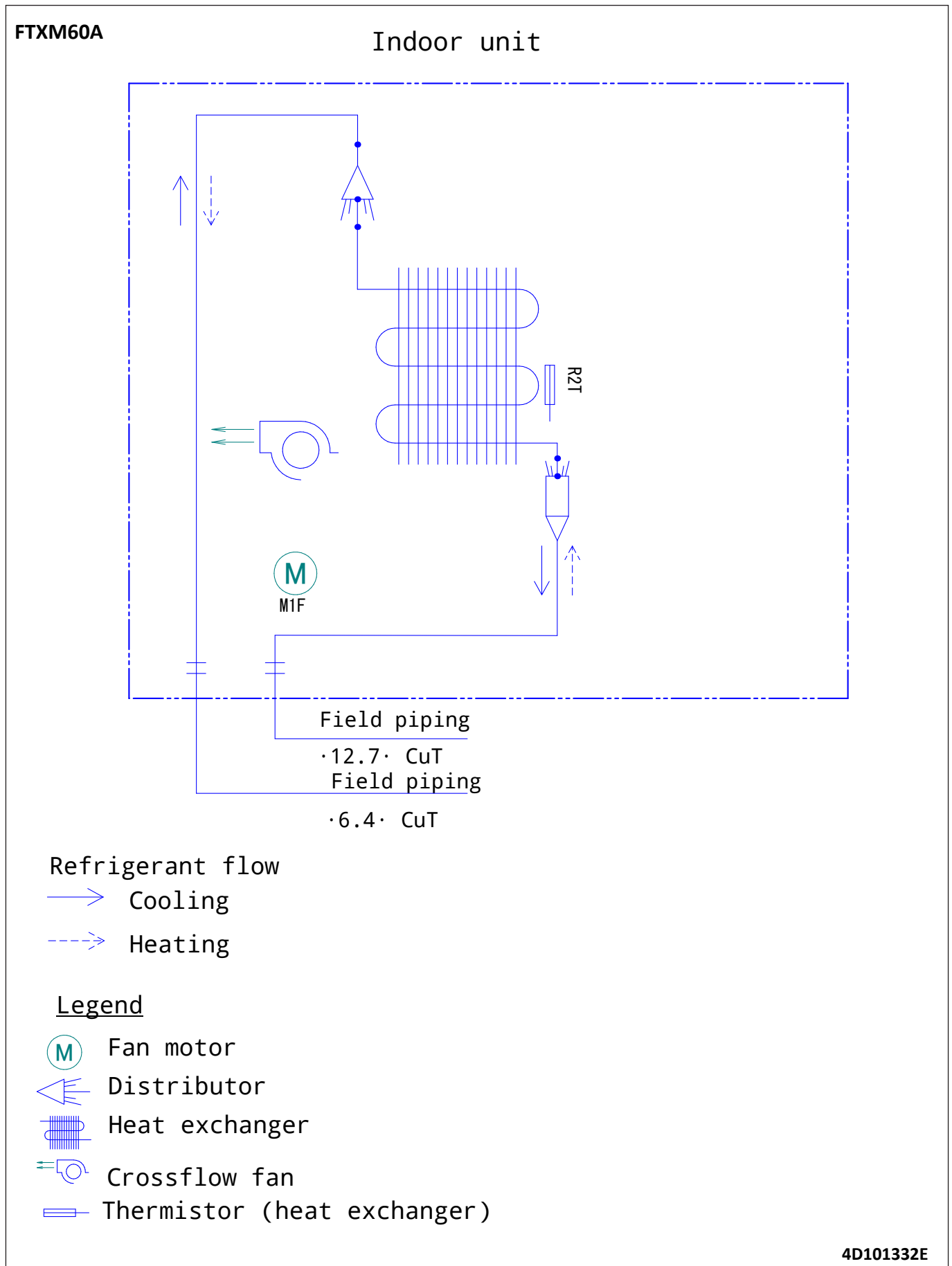
6 Piping diagrams

6 - 1 Piping Diagrams



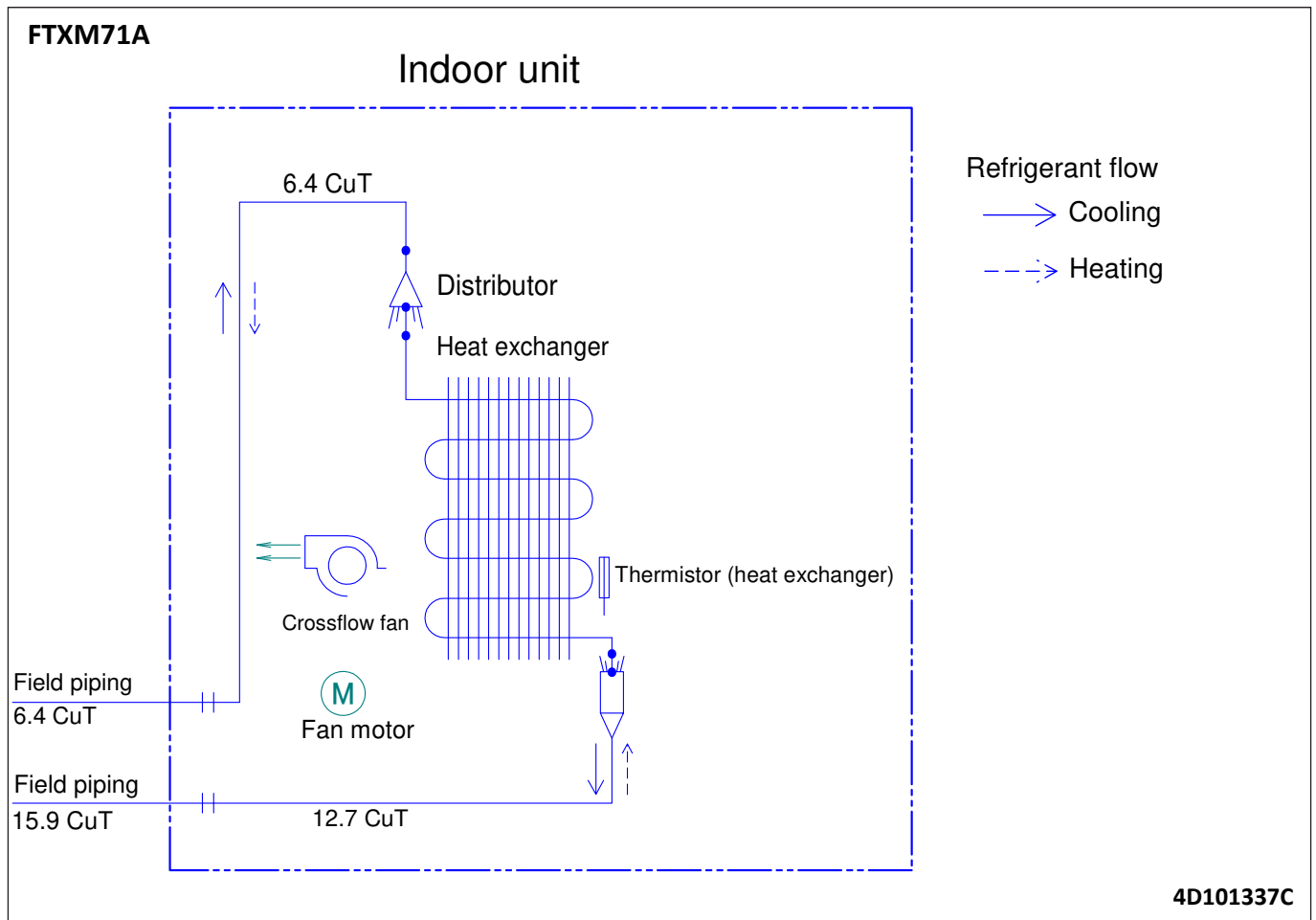
6 Piping diagrams

6 - 1 Piping Diagrams



6 Piping diagrams

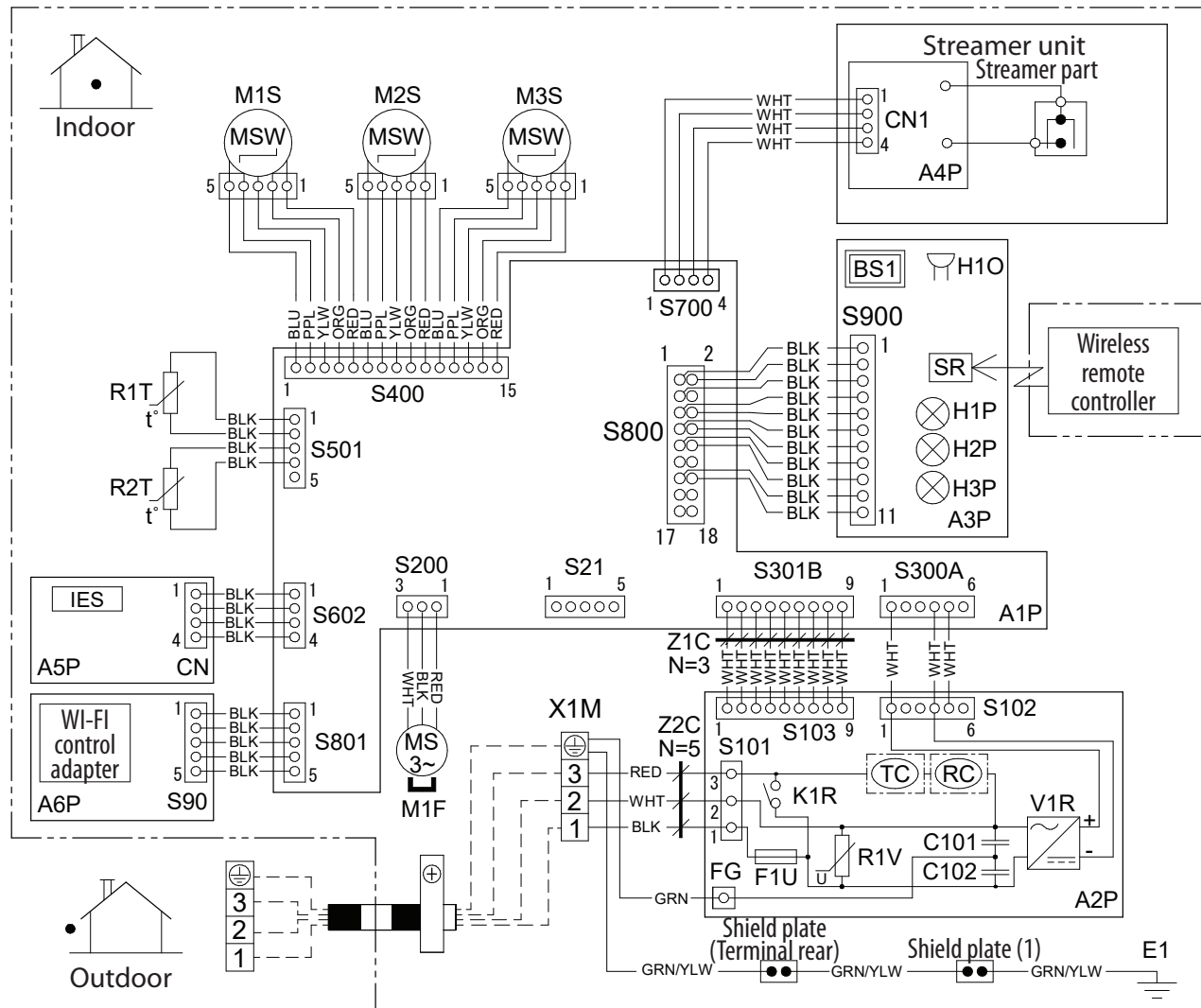
6 - 1 Piping Diagrams



7 Wiring diagrams

7 - 1 Wiring Diagrams - Three Phase

FTXM20-50A



CN, CN1, S16~801	Connector
FG	Terminal
X1M	Terminal block
F1U	Fuse (T, 3.15A, 250V)
M1F	Motor (indoor fan)
M1~3S	Motor (swing flap)
A1~6P	Printed circuit board
R1T, R2T	Thermistor
IES	Intelligent eye sensor
BS1	Button switch
H1~3P	Pilot lamp
SR	Signal receiver
H1O	Buzzer
Z1~2C	Ferrite core
E1	Heat exchanger
K1R	Magnetic relay
V1R	Rectifier
C101, C102	Capacitor
TC	Transmitter circuit

RC	Receiver circuit
⊕	Protective earth
R1V	Varistor

Wire colors

BLK	: Black	ORG	: Orange
YLW	: Yellow	WHT	: White
RED	: Red	GRN	: Green
BLU	: Blue	PPL	: Purple
GRY/YLW	: Green/yellow		

■ ■ ■ : Field wiring

CAUTION

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

3D142898D

7 Wiring diagrams

7 - 1 Wiring Diagrams - Three Phase

FTXM60-71A

120

70

CN, CN1, S16~801	Connector
FG	Terminal
X1M	Terminal block
F1U	Fuse (T, 3.15A, 250V)
M1F	Motor (indoor fan)
M1~2S	Motor (swing flap)
A1~6P	Printed circuit board
R1T, R2T	Thermistor
IES	Intelligent eye sensor
BS1	Button switch
H1~3P	Pilot lamp
SR	Signal receiver
H1O	Buzzer
Z1~3C	Ferrite core
E1	Heat exchanger
K1R	Magnetic relay
V1R	Rectifier
C101, C102	Capacitor
TC	Transmitter circuit
RC	Receiver circuit
⊕	Protective earth
R1V	Varistor

Wire colors

BLK	: Black
YLW	: Yellow
RED	: Red
WHT	: White
GRN	: Green
GRN/YLW	: Green/Yellow
GRY	: Gray

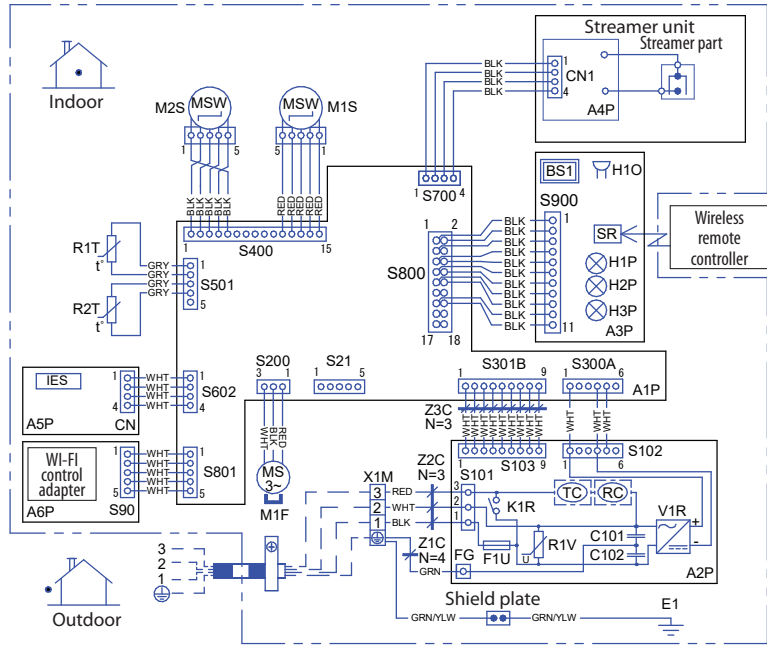
Field wiring :



CAUTION

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

Wiring diagram



NOTES

1. Size: height 70 × width 120.
2. Refer to purchasing specification AS303002 unless otherwise specified.

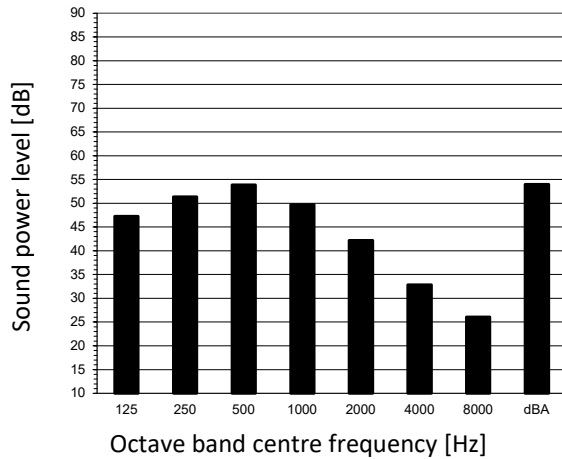
2D146746B

8 Sound data

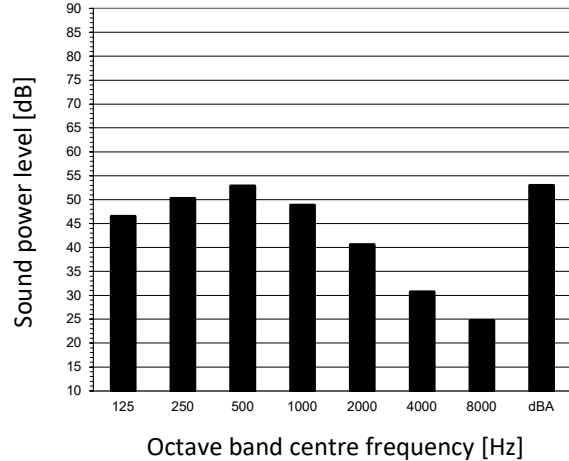
8 - 1 Sound Power Spectrum

FTXM20A

Cooling



Heating



■ Fan speed: High

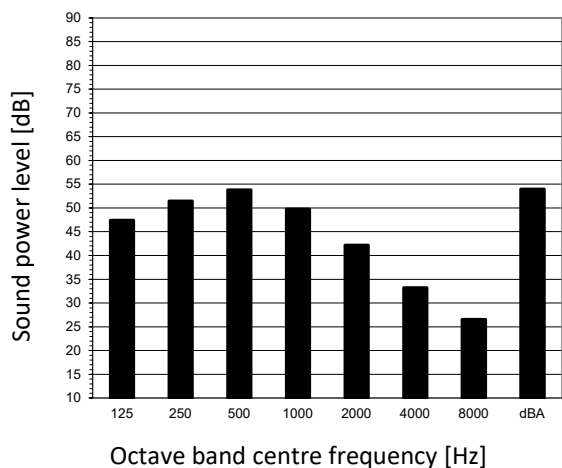
Notes

1. dBA = A-weighted sound power level (A scale according to IEC).
2. Reference acoustic intensity 0dB = 10^{-12} W/m².
3. Measured according to ISO 3744

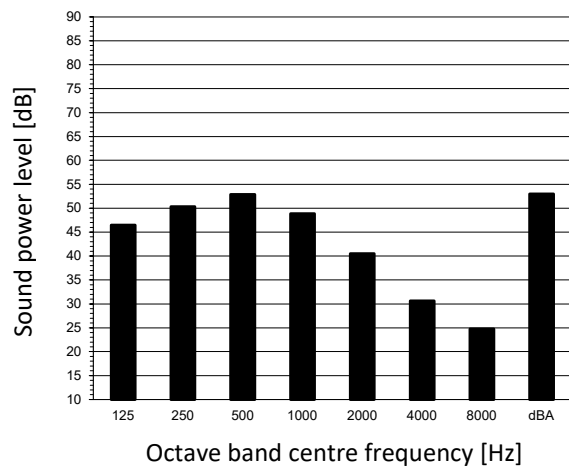
4D148880

FTXM25A

Cooling



Heating



■ Fan speed: High

Notes

1. dBA = A-weighted sound power level (A scale according to IEC).
2. Reference acoustic intensity 0dB = 10^{-12} W/m².
3. Measured according to ISO 3744

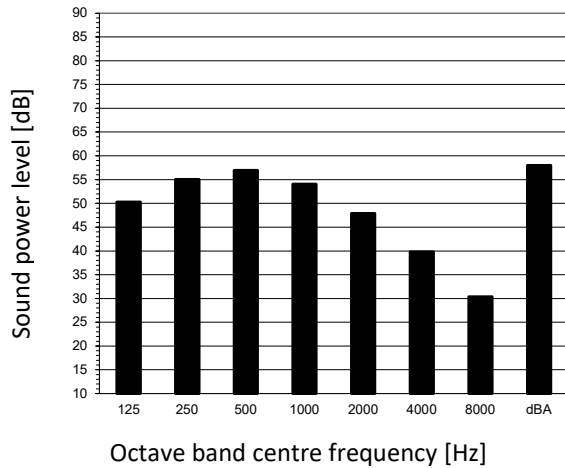
4D148881

8 Sound data

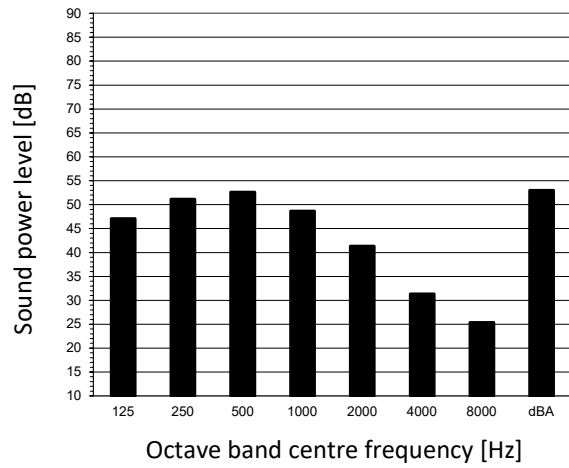
8 - 1 Sound Power Spectrum

FTXM35A

Cooling



Heating



Fan speed: High

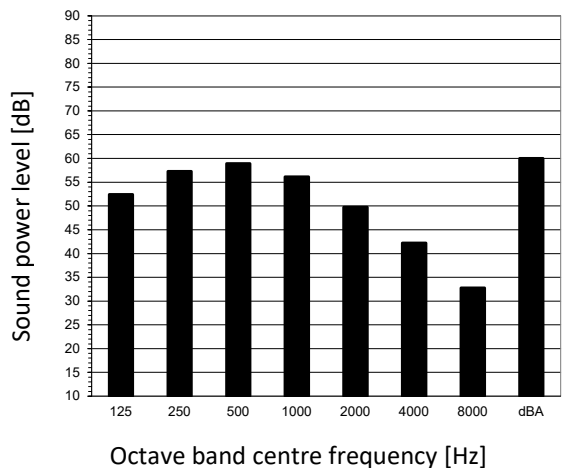
Notes

1. dBA = A-weighted sound power level (A scale according to IEC).
2. Reference acoustic intensity 0dB = 10^{-12} W/m².
3. Measured according to ISO 3744

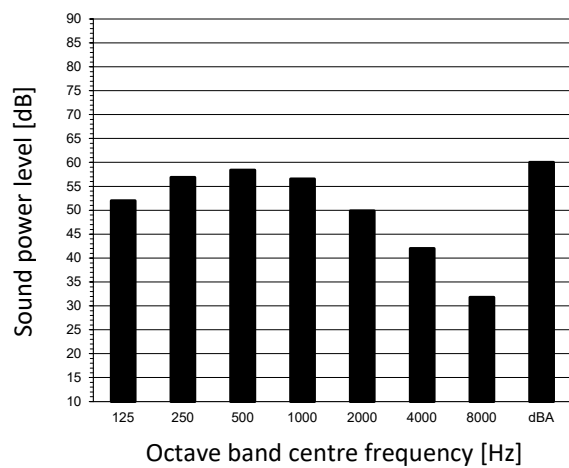
4D148882

FTXM42A

Cooling



Heating



Fan speed: High

Notes

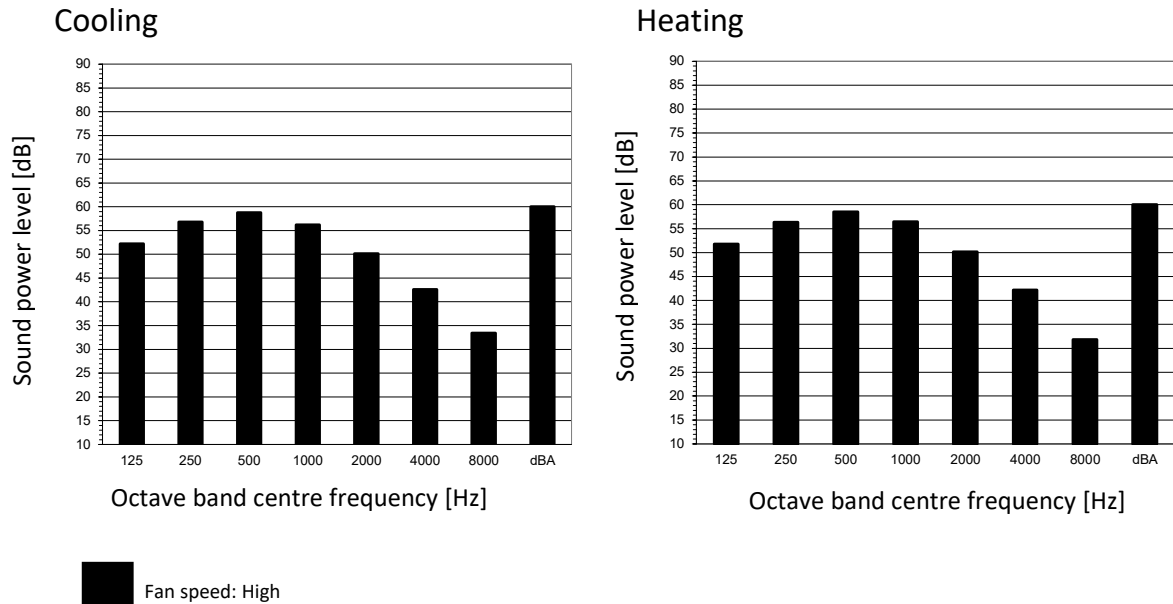
1. dBA = A-weighted sound power level (A scale according to IEC).
2. Reference acoustic intensity 0dB = 10^{-12} W/m².
3. Measured according to ISO 3744

4D148883

8 Sound data

8 - 1 Sound Power Spectrum

FTXM50A

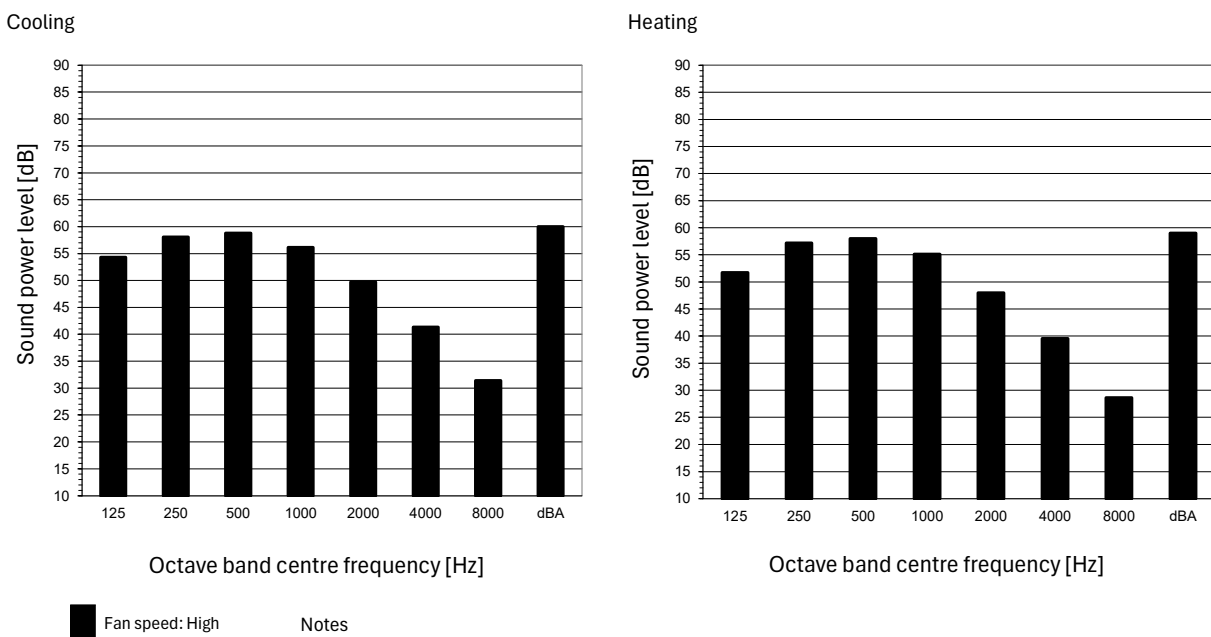


Notes

1. dBA = A-weighted sound power level (A scale according to IEC).
2. Reference acoustic intensity 0dB = 10^{-12} W/m².
3. Measured according to ISO 3744

4D148884

FTXM60A



Notes

1. dBA = A-weighted sound power level (A scale according to IEC).
2. Reference acoustic intensity 0dB = 10^{-12} W/m².
3. Measured according to ISO 3744

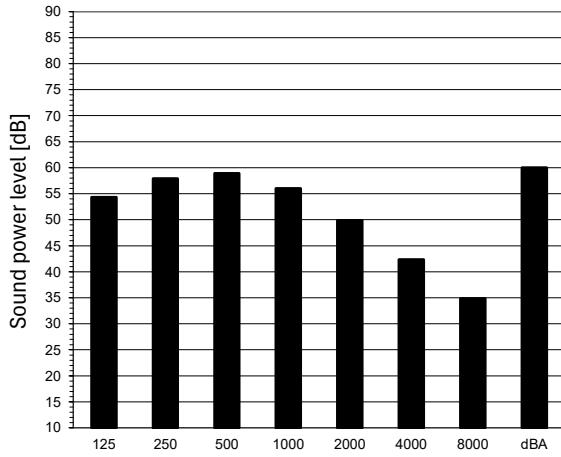
4D151794A

8 Sound data

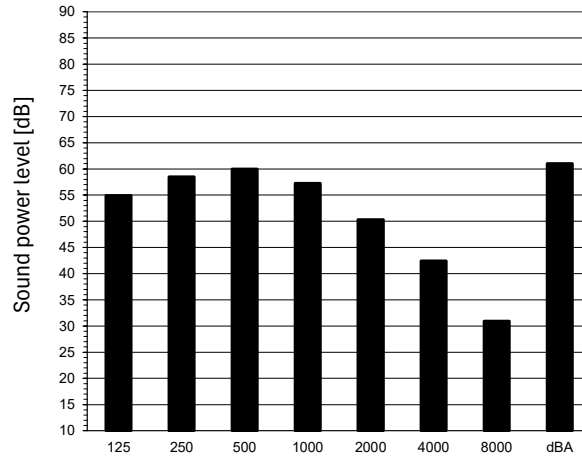
8 - 1 Sound Power Spectrum

FTXM71A

Cooling



Heating



Octave band centre frequency [Hz]

Octave band centre frequency [Hz]

■ Fan speed: High

Notes

1. dBA = A-weighted sound power level (A scale according to IEC).
2. Reference acoustic intensity $0 \text{ dB} = 10^{-12} \text{ W/m}^2$.
3. Measured according to ISO 3744

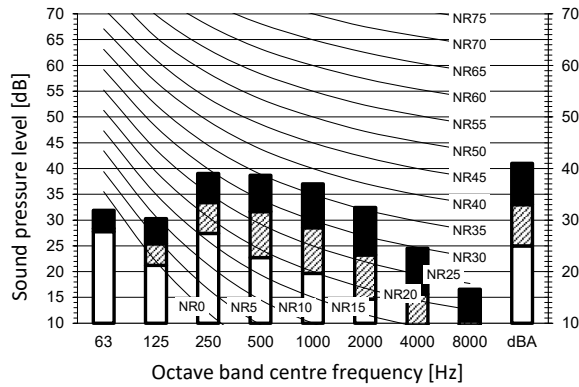
4D151796A

8 Sound data

8 - 2 Sound Pressure Spectrum

FTXM20A

Cooling mode



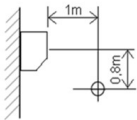
Legend

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

A Scale

- B Fan speed: High
- C Fan speed: Medium
- D Fan speed: Low

Location of microphone



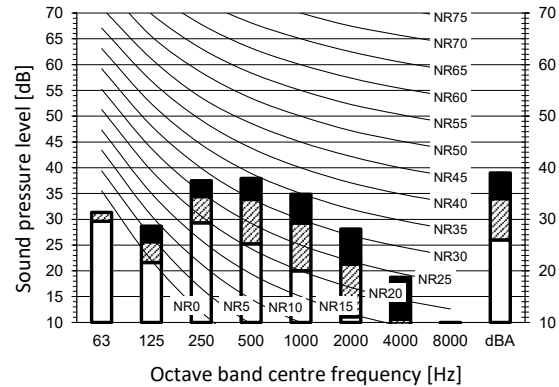
Cooling Total dB

A	B	C	D
dBA	41	33	25

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

Heating mode



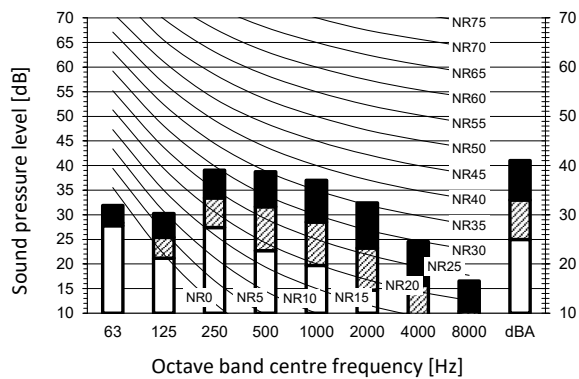
Heating Total dB

A	B	C	D
dBA	39	34	26

4D148915A

FTXM25A

Cooling mode



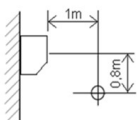
Legend

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

A Scale

- B Fan speed: High
- C Fan speed: Medium
- D Fan speed: Low

Location of microphone



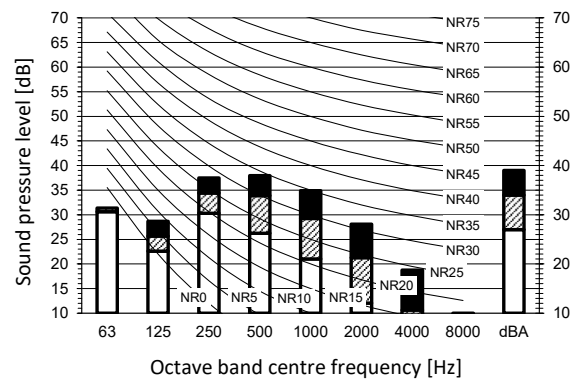
Cooling Total dB

A	B	C	D
dBA	41	33	25

Notes

- Operating conditions: power source 220-240 V/220 V 50/60 Hz; JIS standard
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Heating mode



Heating Total dB

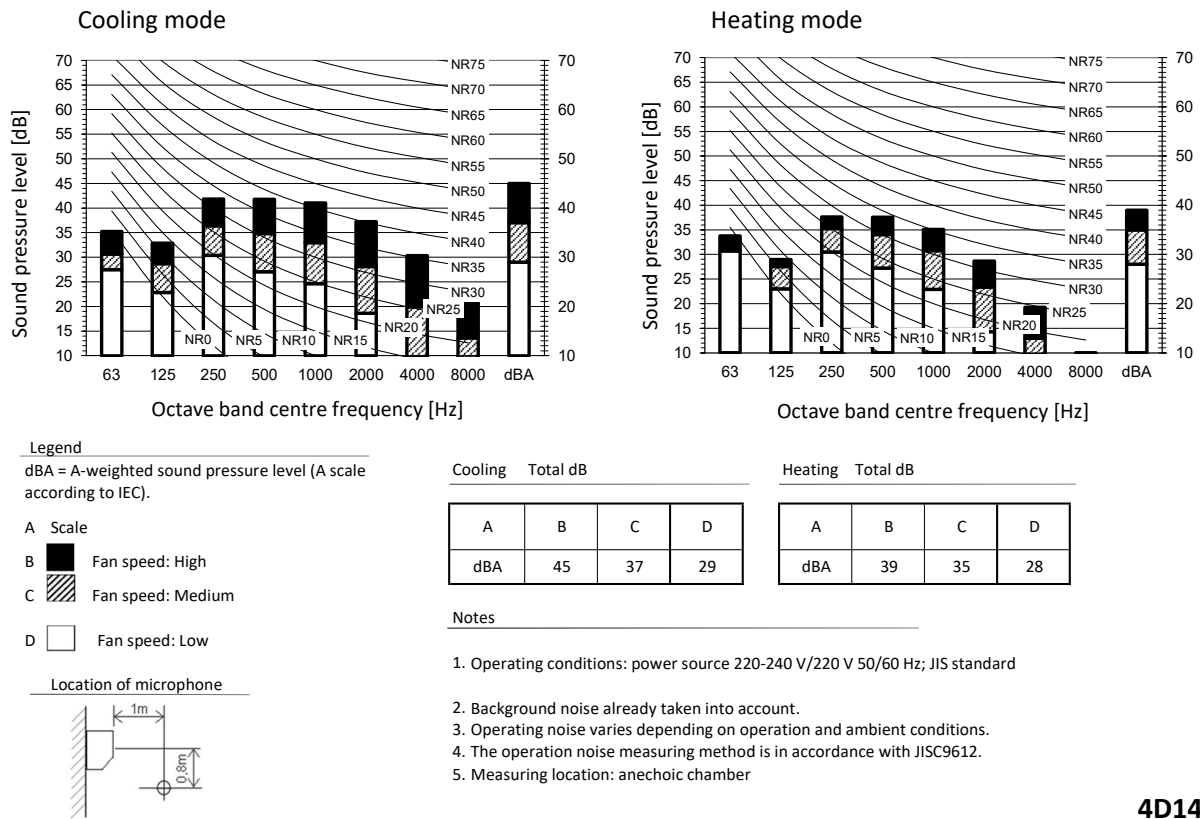
A	B	C	D
dBA	39	34	27

4D148916A

8 Sound data

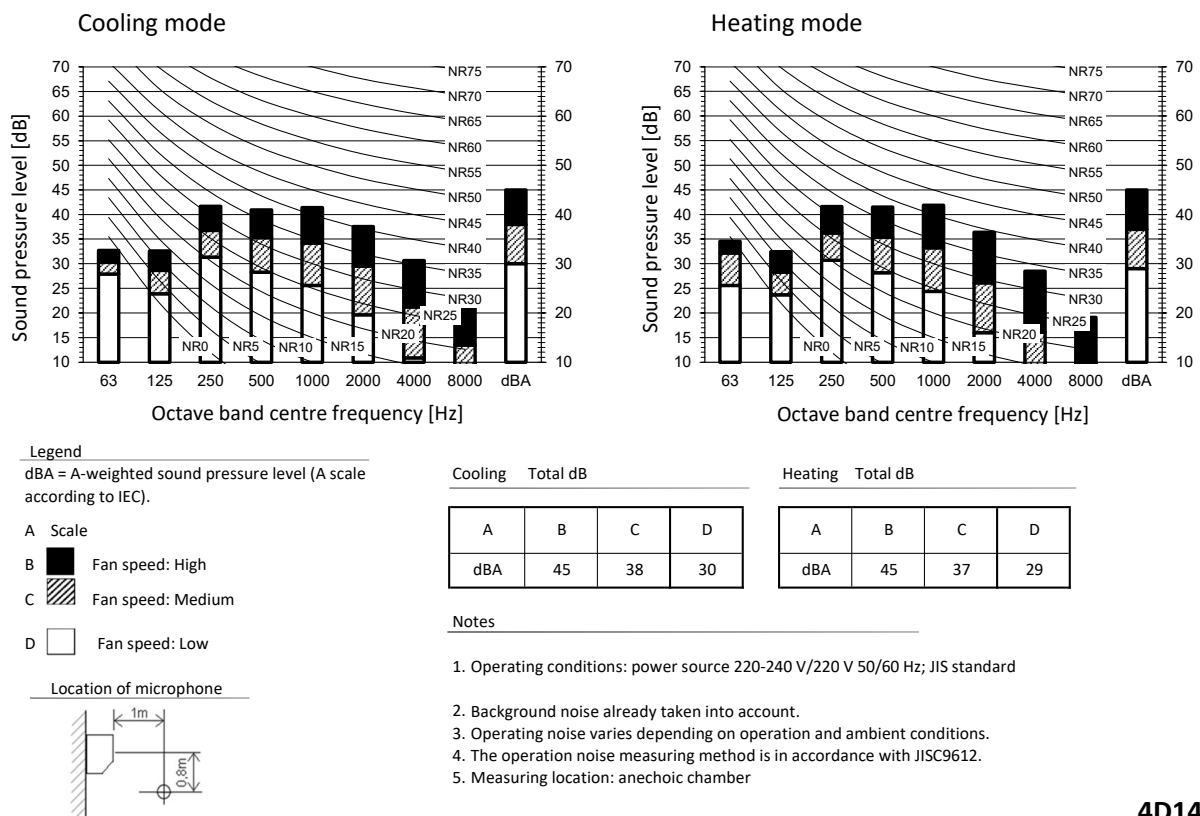
8 - 2 Sound Pressure Spectrum

FTXM35A



4D148918A

FTXM42A

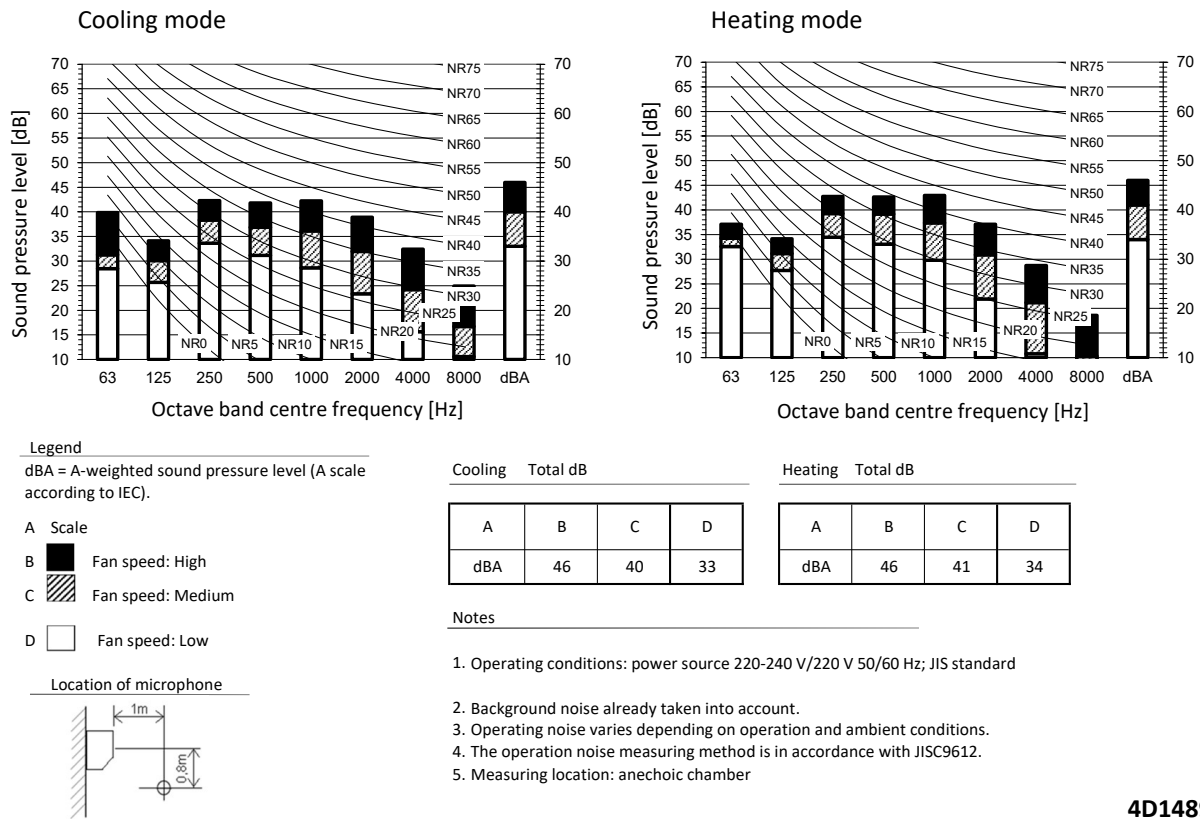


4D148919A

8 Sound data

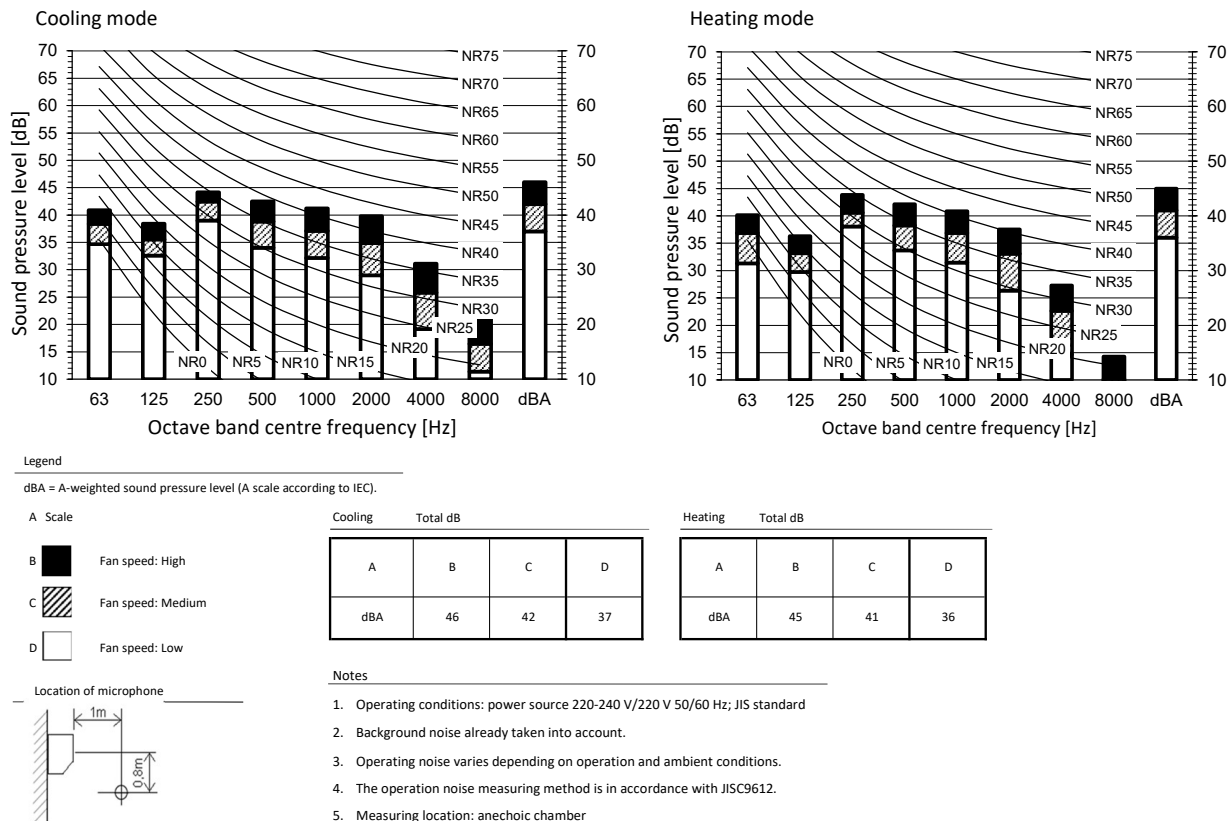
8 - 2 Sound Pressure Spectrum

FTXM50A



4D148920A

FTXM60A



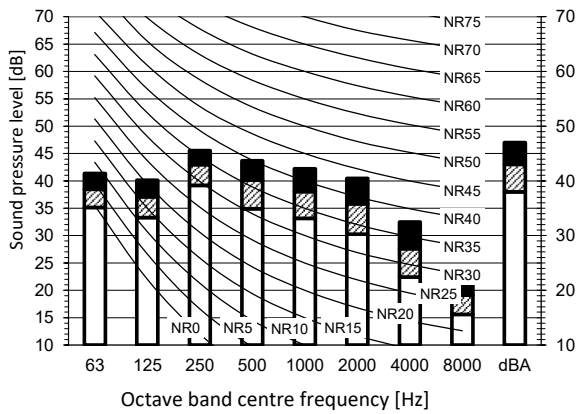
4D151795A

8 Sound data

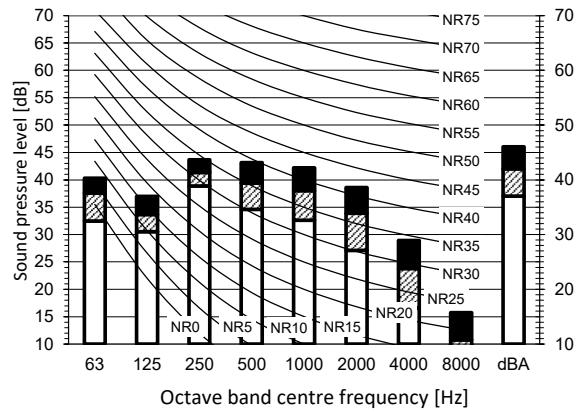
8 - 2 Sound Pressure Spectrum

FTXM71A

Cooling mode



Heating mode



Legend

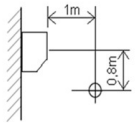
dBA = A-weighted sound pressure level (A scale according to IEC).

- A Scale
- B Fan speed: High
- C Fan speed: Medium
- D Fan speed: Low

Cooling			
Total dB			
A	B	C	D
dBA	47	43	38

Heating			
Total dB			
A	B	C	D
dBA	46	42	37

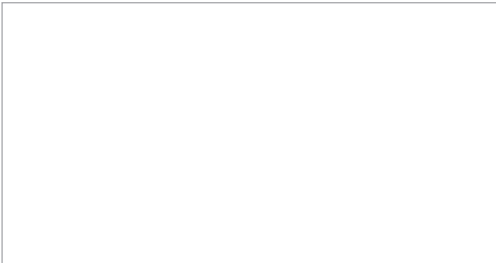
Location of microphone



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

4D151797A



EEDEN24

08/2024



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