EEDEN25

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

1 Features

1 - 1 FTXM-A

Attractive, wall mounted design with perfect indoor air quality

1

- 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

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			m^2	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			m^2	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	m^3/min	11.9		13.2	13.3	12.7	15.6	15.8
				cfm	420		466	470	448	551	558
Fan	Air flow rate	Cooling	Medium	m^3/min	8.9		9.4	9.8	10.4	13.4	13.6
				cfm	314		332	346	367	473	480
			Low	m^3/min	6.3		7.1	7.2	7.8	11.2	11.4
				cfm	222		251	254	275	396	403
			Silent operation	m^3/min	4.9		4.6	5.0	5.9	8.6	9.3
				cfm	173		162	177	208	304	328
		Heating	High	m^3/min	11.4		11.1	14.0	14.5	15.9	17.3
				cfm	403		392	494	512	562	611
			Medium	m^3/min	9.2		9.4	10.0	11.5	14.6	15.3
				cfm	325		332	353	406	516	540
			Low	m^3/min	6.9			7.1	8.6	11.8	12.3
				cfm	244			251	304	417	434
			Silent operation	m^3/min	4.9		5.1	5.3	6.9	10.5	11.2
				cfm	173		180	187	244	371	396
Fan motor	Model				DFH04E1VA					MM9E17Y33VA	
	Speed	Steps			5 + silent, + auto						
		Cooling	High	rpm	900		1,040	1,060	1,090	1,060	1,080
			Medium	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	
Sound power level	Cooling			dBA	54		58	60			
	Heating			dBA	53			60		59	61
Sound pressure level	Cooling	High		dBA	41		45		46		47
		Medium		dBA	33		37	38	40	42	43
		Low		dBA	25		29	30	33	37	38
		Silent operation		dBA	19			21	27	30	32
	Heating	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

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	For power supply	Quantity	3						
- 50Hz		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 Options

3 - 1 Options

FTXM-A

Option kit	Product name	Remark New Perfera	Remark New floor stand	Remark Emura 3	Remark Zeta S
Wired remote control	BRC073A1	②③	②③	②③	②③
Extension cord for wired remote control (3m)	BRCW901A03				
Extension cord for wired remote control (8m)	BRCW901A08				
Intelligent Tablet Controller	DCC601A51	②③	②③	②③	②③
Wiring adaptor (normal open contact - normal open pulse contact)	KRP413AB1S	②③⑤	②③⑤	②③⑤	②③⑤
Wiring adaptor (normal open contact - normal open pulse contact)	KRP413BB1S	②③	②③	②③	②③
Interface adaptor for DIII-NET	KRP928BB2S	②③	②③	②③	②③
Central remote control	DCS302CA51	②③	②③	②③	②③
Unified ON/OFF controller	DCS301BA51	②③	②③	②③	②③
Schedule timer	DST301BA51	②③	②③	②③	④
Intelligent Touch Manager	DCM601A51	②③	②③	②③	②③
Modbus interface	EKMBDXA7V1	②③	②③	②③	②③
Modbus gateway	RTD-RA	②③	②③	②③	②③
KNX interface	KLIC-DD	②③	②③	②③	②③
Titanium apatite deodorising filter without frame	KAF970A46	①	①	①	①
Silver particle filter (Ag-ion) with frame	KAF057A41	①		①④	①
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.
4. Obsolete option.
5. Production of this option finished, replaced by new option KRP413BB1S.

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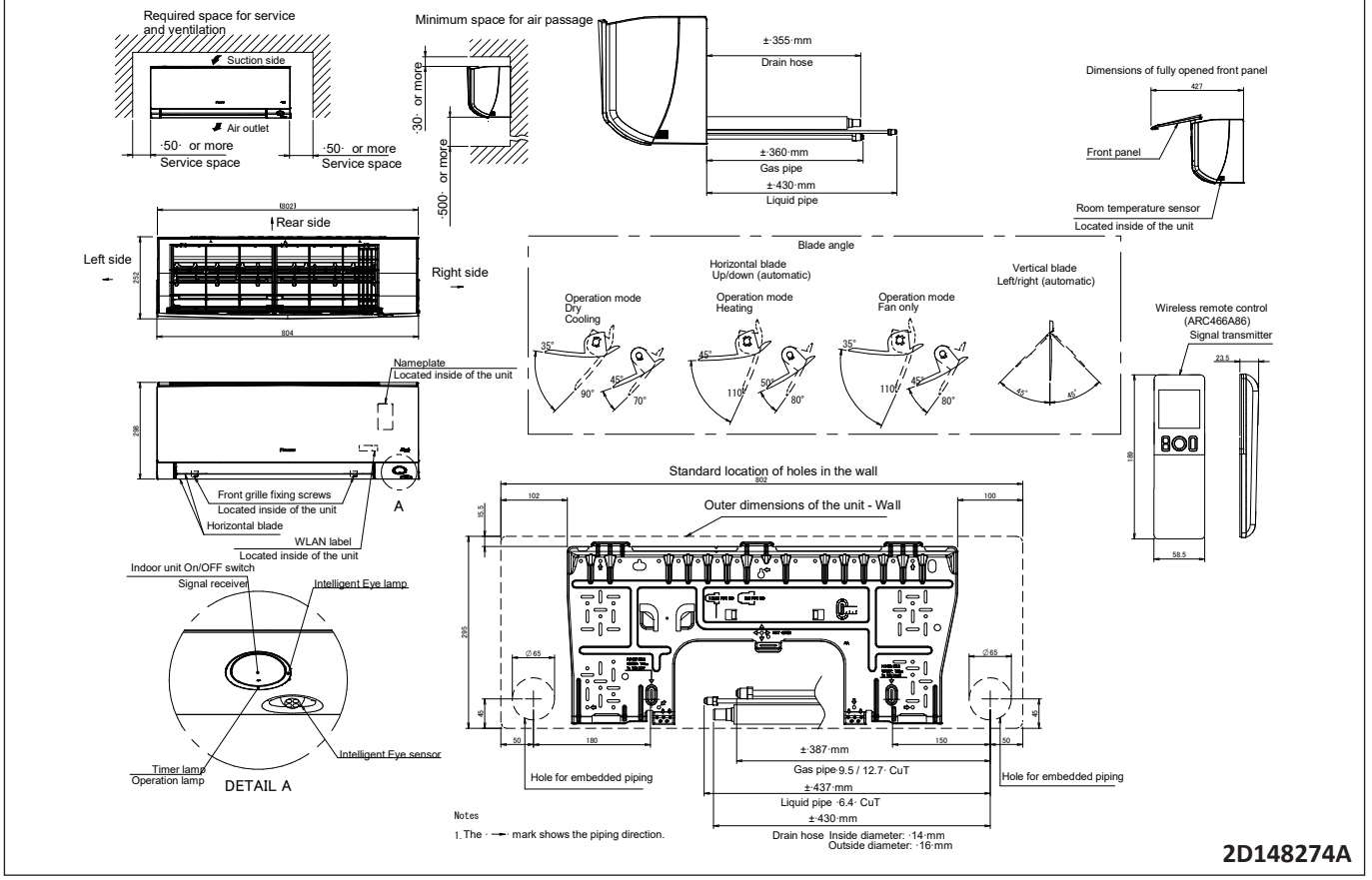
4 Dimensional drawings

4 - 1 Dimensional Drawings

FTXM20-50A



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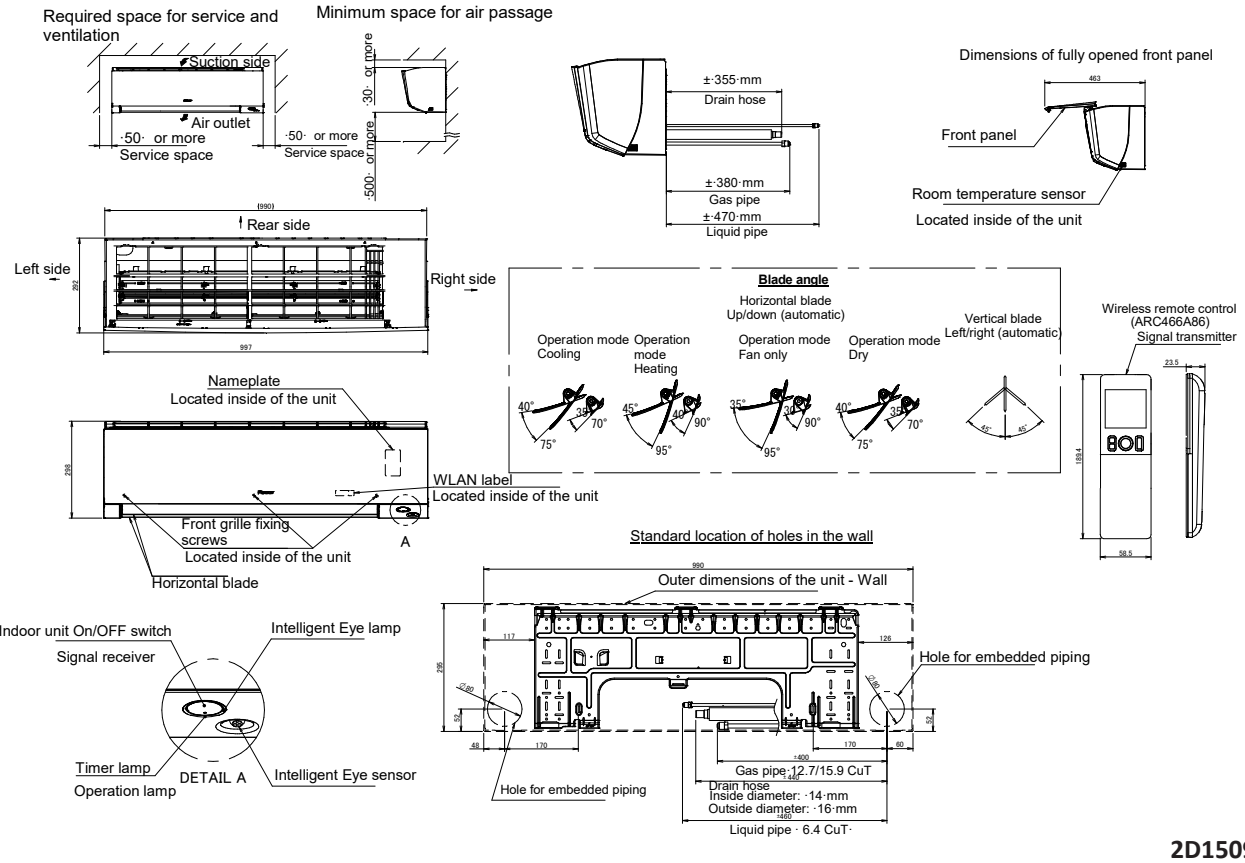
4 Dimensional drawings

4 - 1 Dimensional Drawings

FTXM60-71A



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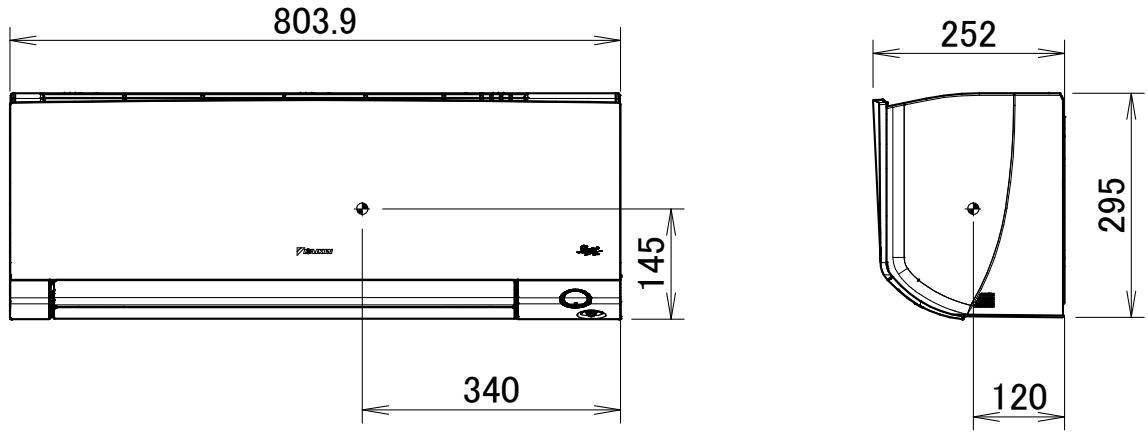
5 Centre of gravity

5 - 1 Centre of Gravity

FTXM20-50A



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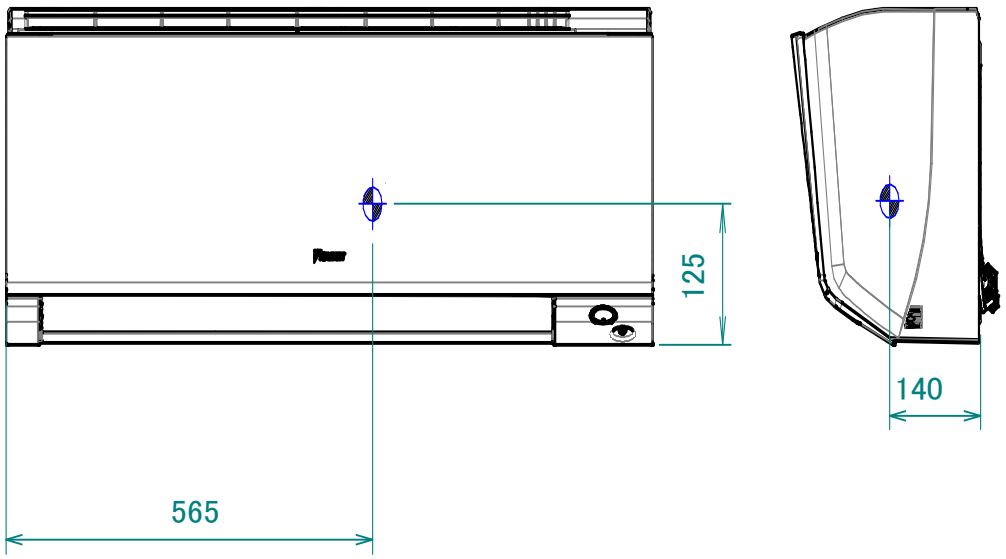

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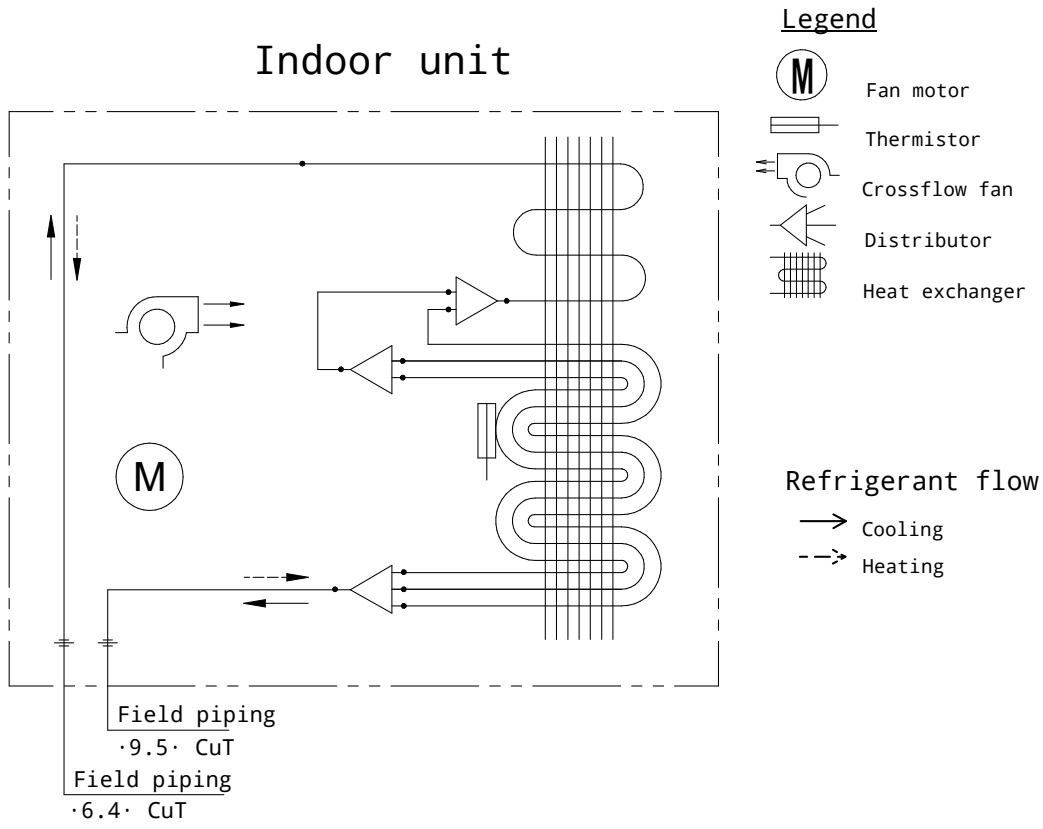
6 Piping diagrams

6 - 1 Piping Diagrams

FTXM20-25A



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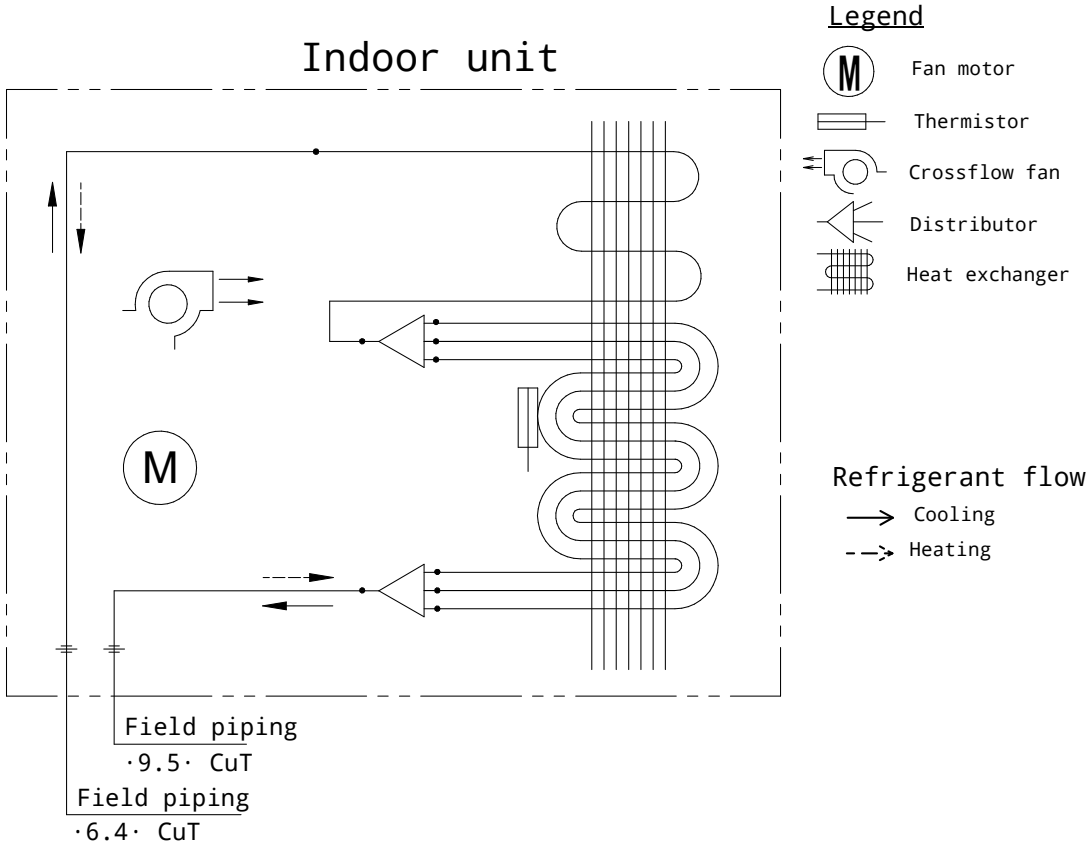

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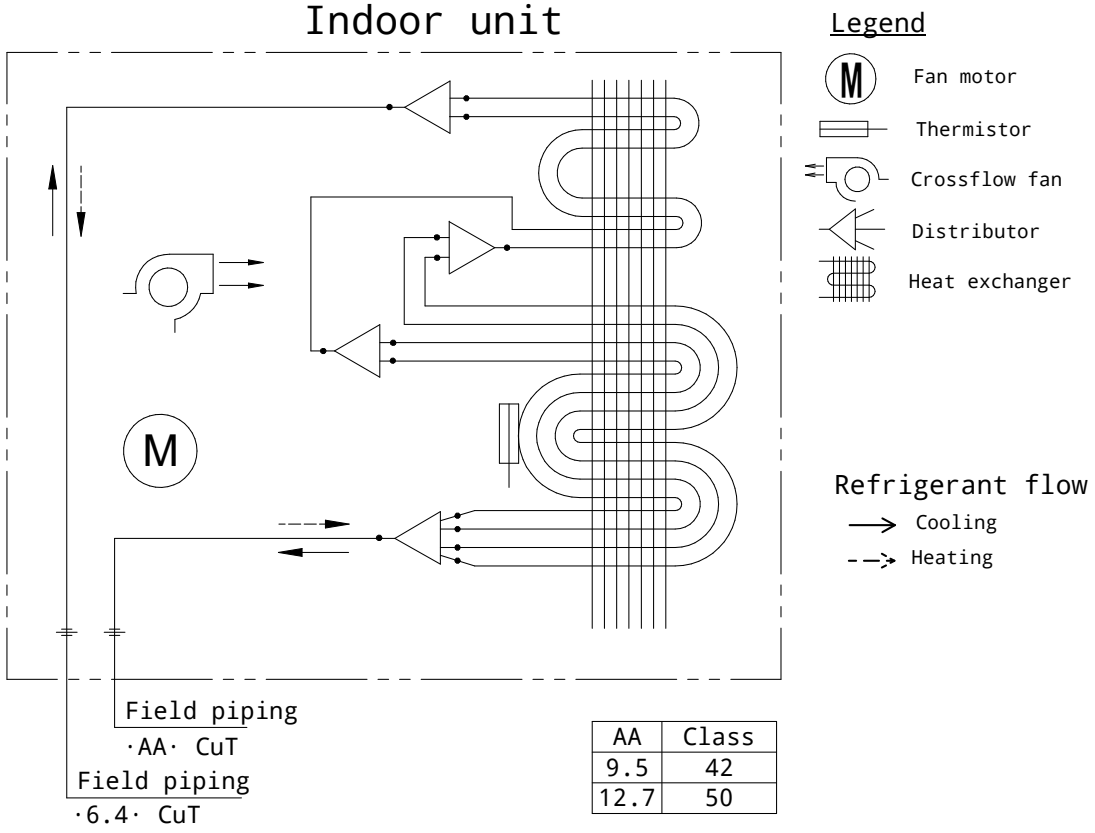
6 Piping diagrams

6 - 1 Piping Diagrams

FTXM42-50A



Legend

- M — Fan motor
- Thermistor
- Crossflow fan
- Distributor
- Heat exchanger

Refrigerant flow

- → Cooling
- - -> Heating

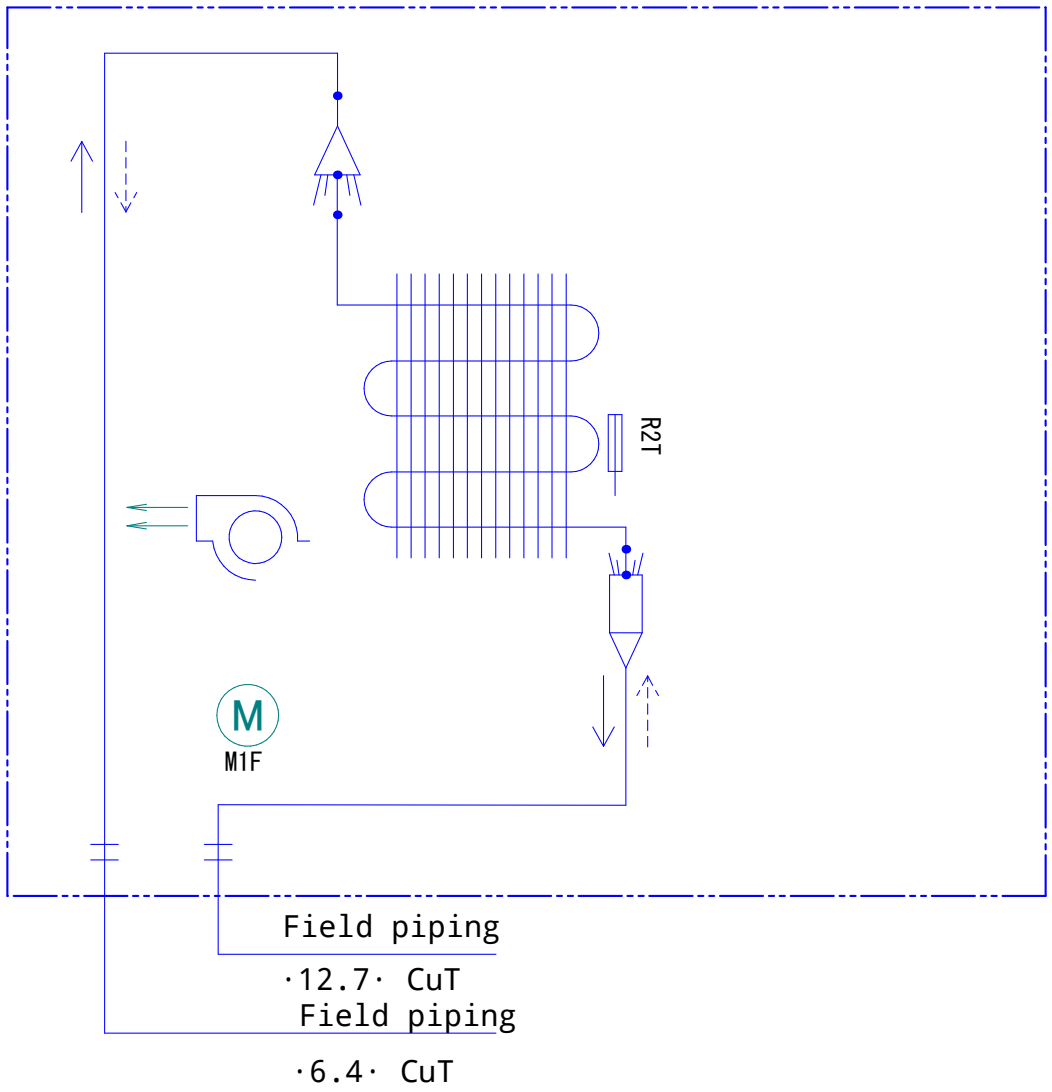
AA	Class
9.5	42
12.7	50

4D147900

6 Piping diagrams

6 - 1 Piping Diagrams

FTXM60A



Refrigerant flow

Cooling

Heating

Legend

M Fan motor

Distributor

Heat exchanger

Crossflow fan

Thermistor (heat exchanger)

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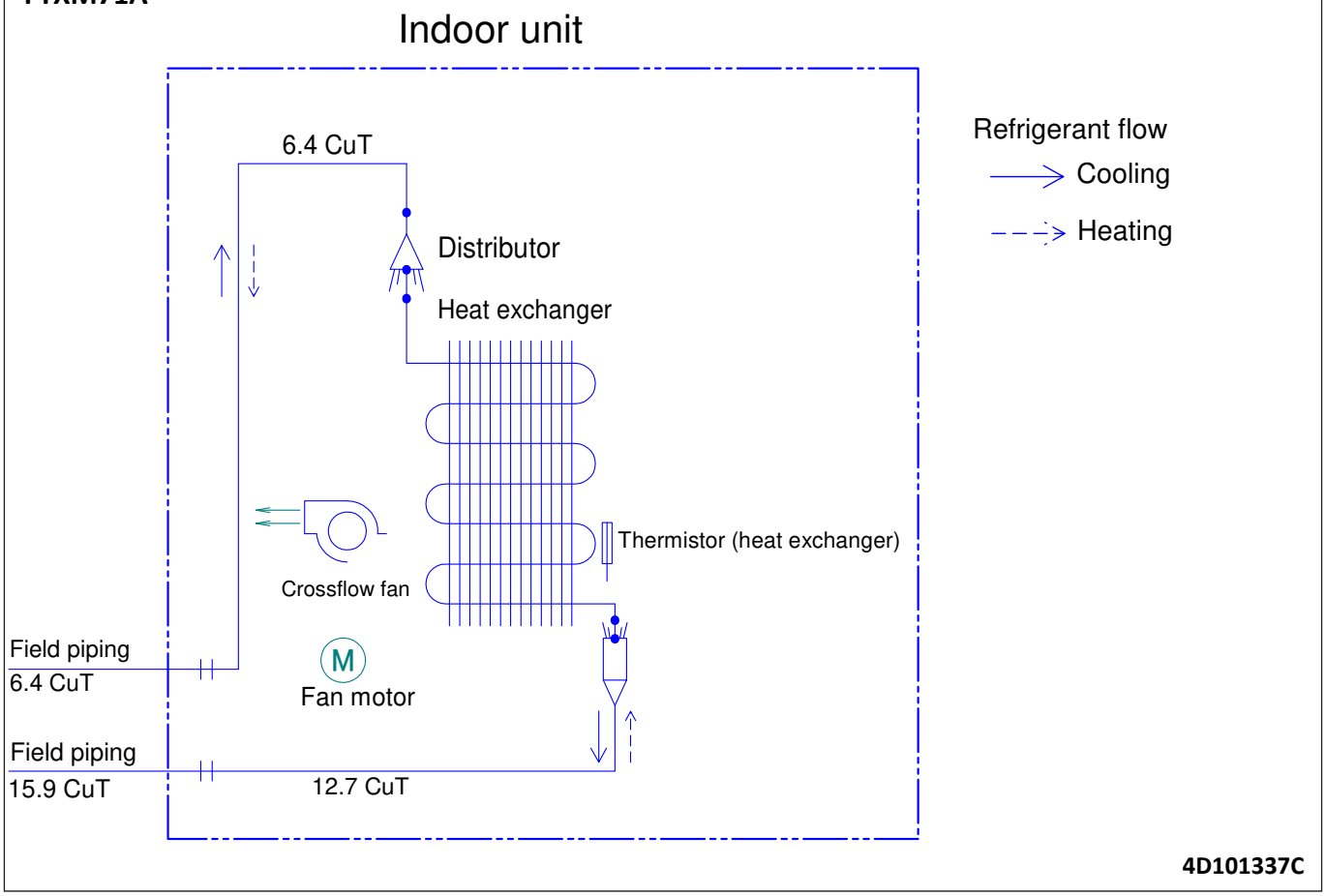
6 Piping diagrams

6 - 1 Piping Diagrams

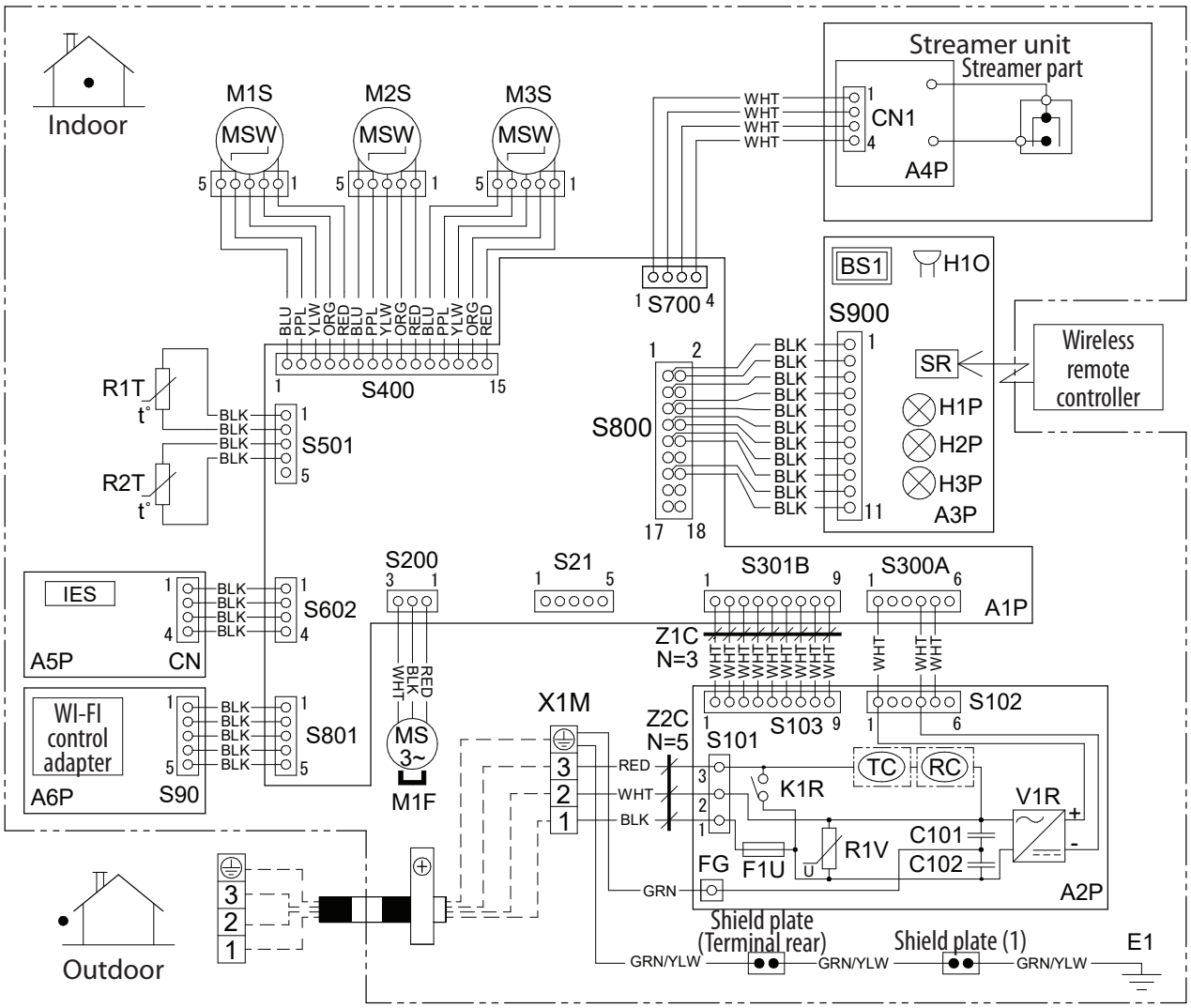
FTXM71A



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.

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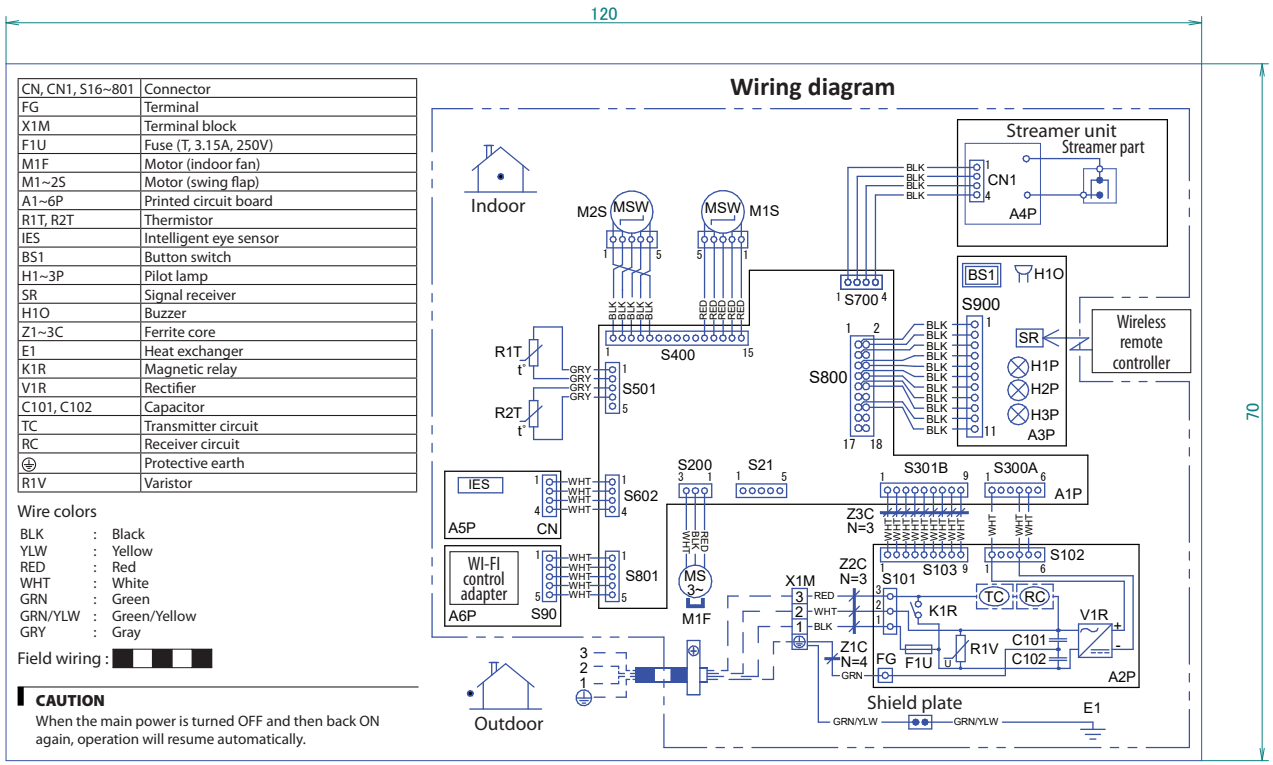
7 Wiring diagrams

7 - 1 Wiring Diagrams - Three Phase

7

FTXM60-71A



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.

NOTES

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

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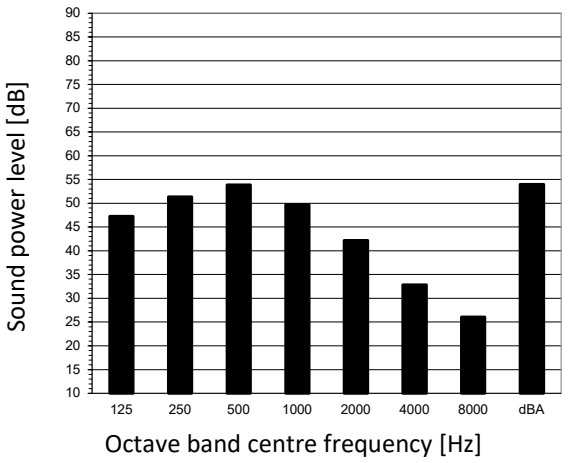
8 Sound data

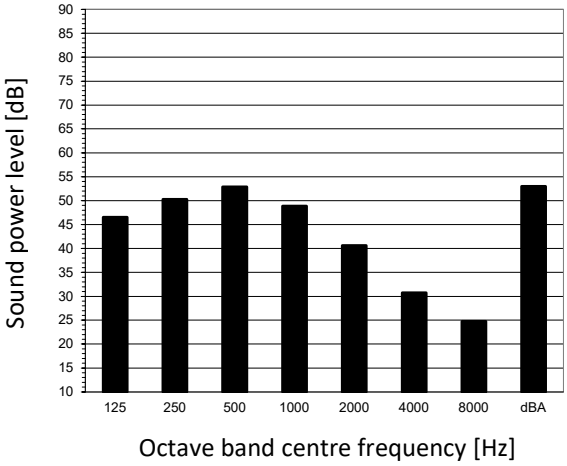
8 - 1 Sound Power Spectrum

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

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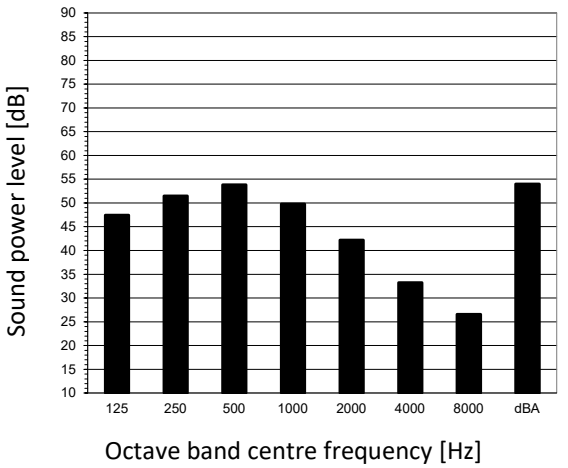
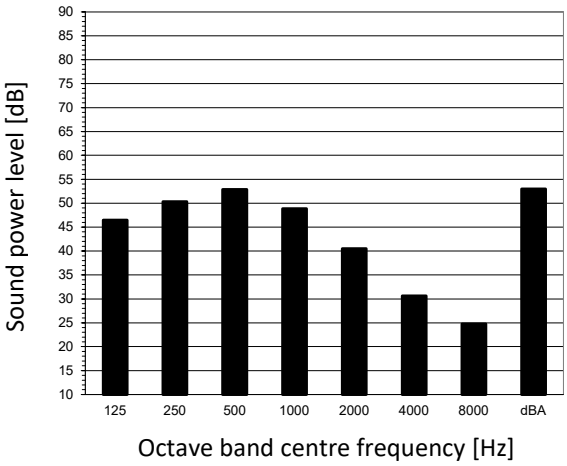
FTXM25A

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

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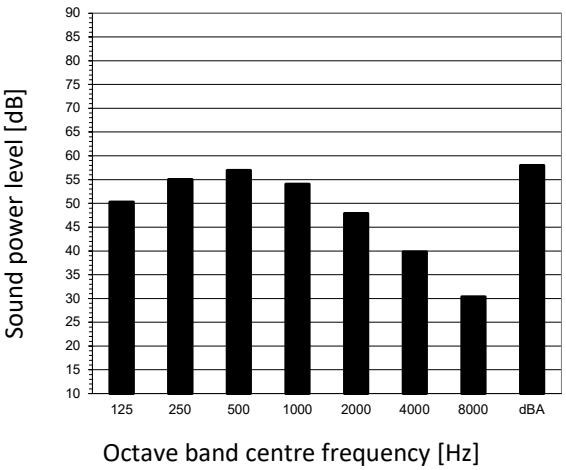
8 Sound data

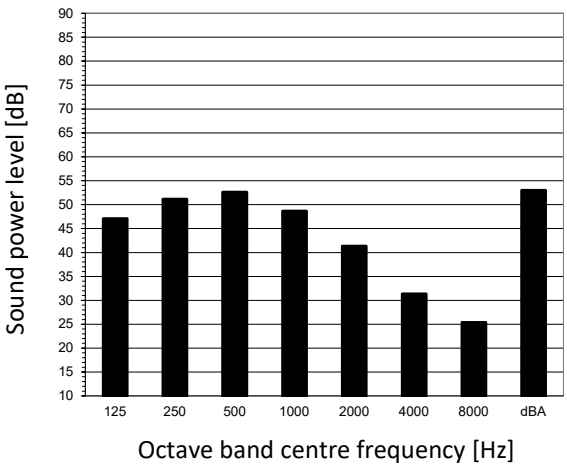
8 - 1 Sound Power Spectrum

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

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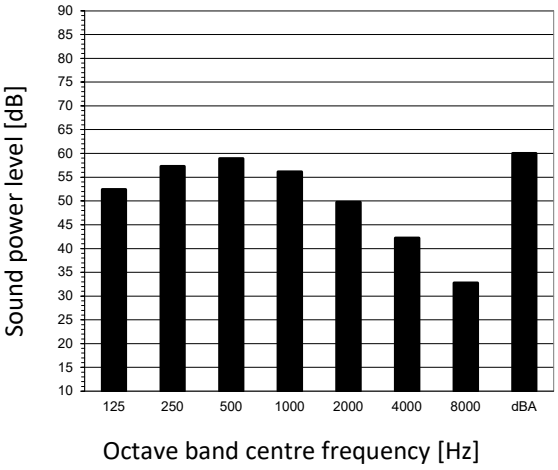
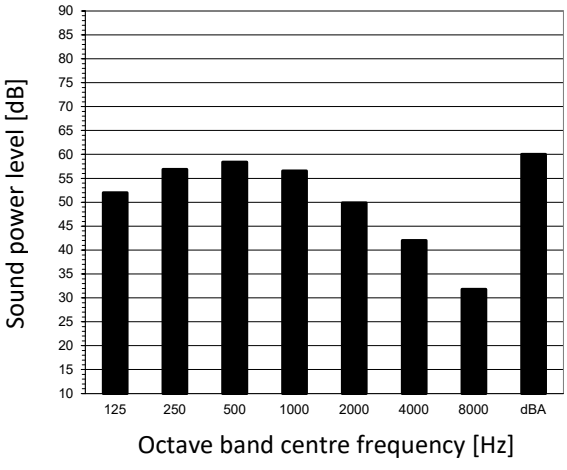
FTXM42A

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

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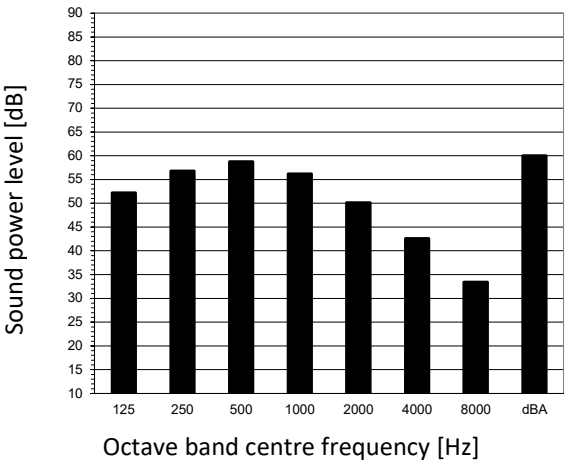
8 Sound data

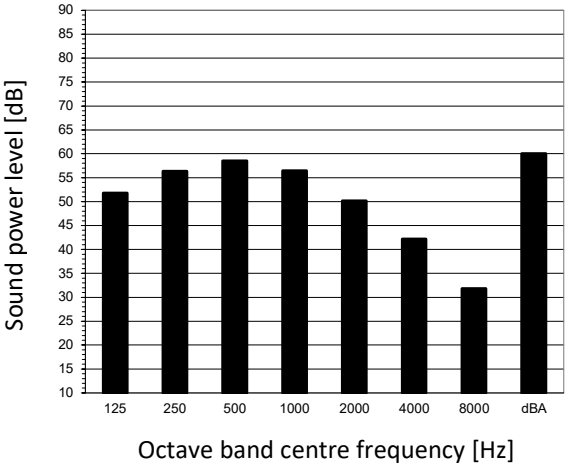
8 - 1 Sound Power Spectrum

FTXM50A

Cooling



Heating



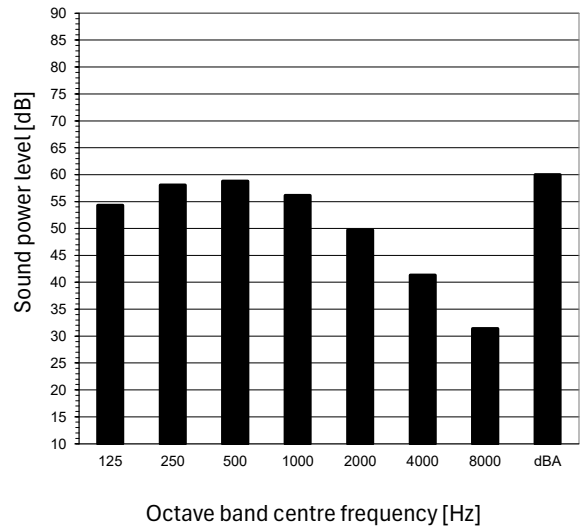
Fan speed: High

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

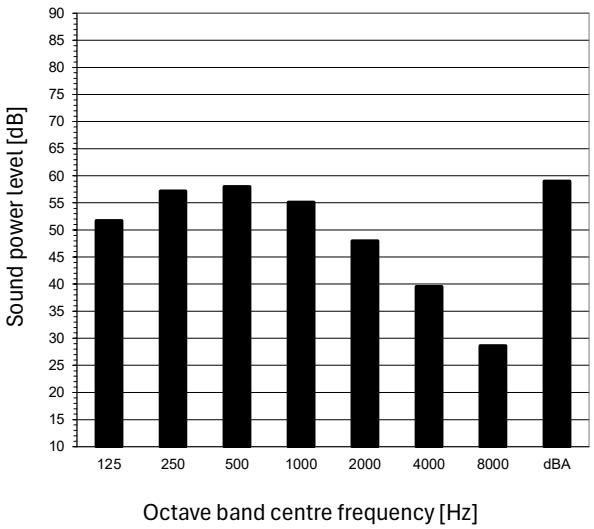
4D148884

FTXM60A

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

4D151794A

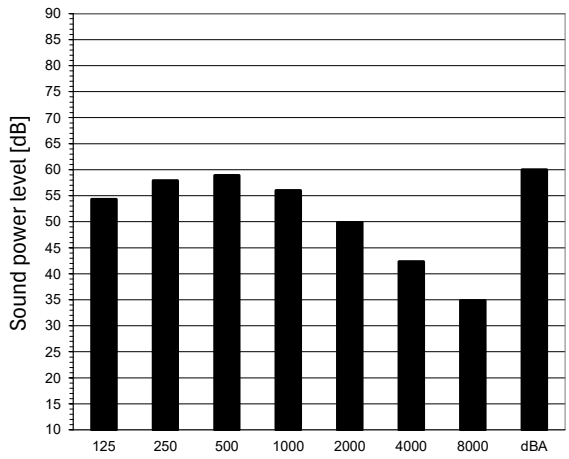
8 Sound data

8 - 1 Sound Power Spectrum

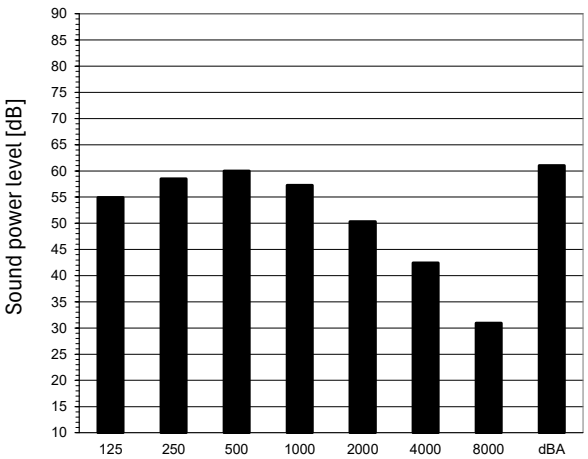
FTXM71A

8

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

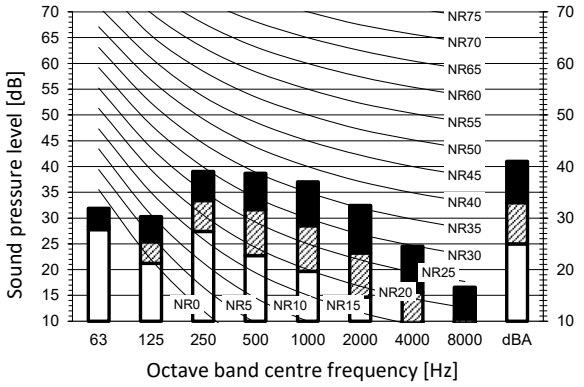
4D151796A

8 Sound data

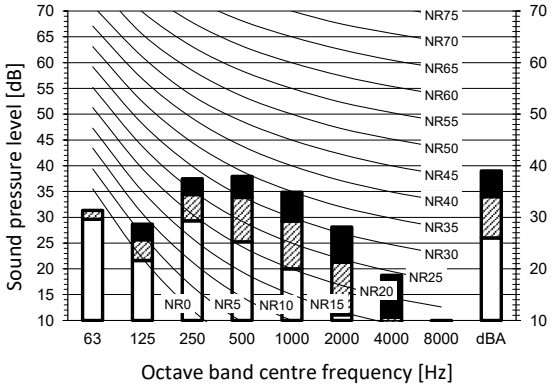
8 - 2 Sound Pressure Spectrum

FTXM20A

Cooling mode



Heating mode



Legend

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

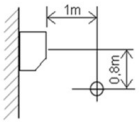
A Scale

B Fan speed: High

C Fan speed: Medium

D Fan speed: Low

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

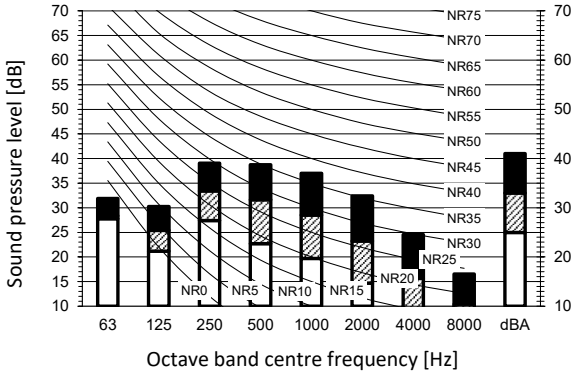
1. Operating conditions: power source 220-240 V/220 V 50/60 Hz; JIS standard

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

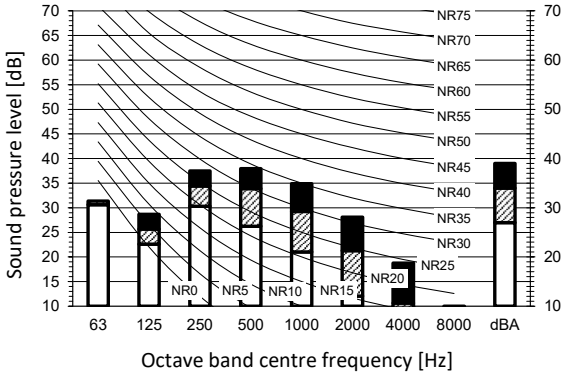
4D148915A

FTXM25A

Cooling mode



Heating mode



Legend

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

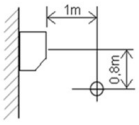
A Scale

B Fan speed: High

C Fan speed: Medium

D Fan speed: Low

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

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

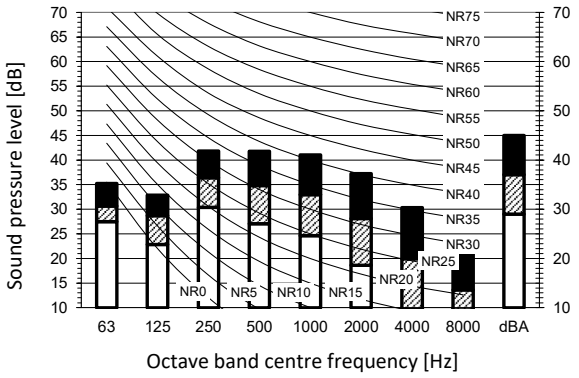
4D148916A

8 Sound data

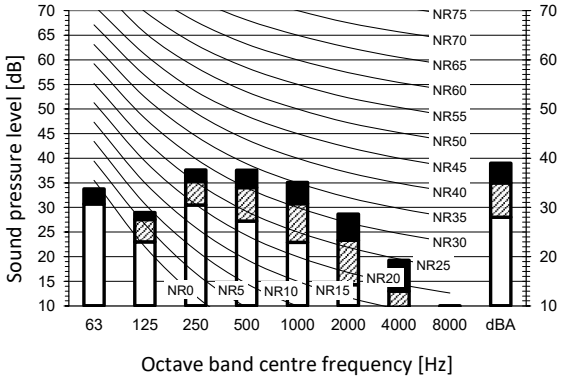
8 - 2 Sound Pressure Spectrum

FTXM35A

Cooling mode



Heating mode



Legend

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

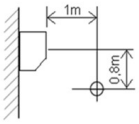
A Scale

B Fan speed: High

C Fan speed: Medium

D Fan speed: Low

Location of microphone



Cooling Total dB

A	B	C	D
dBA	45	37	29

Heating Total dB

A	B	C	D
dBA	39	35	28

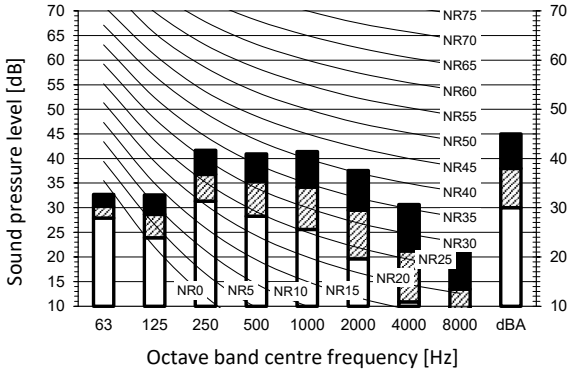
Notes

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

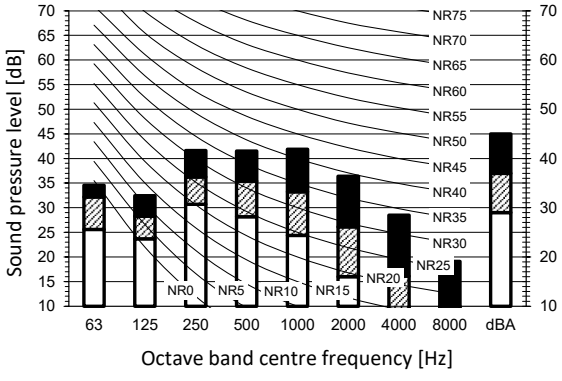
4D148918A

FTXM42A

Cooling mode



Heating mode



Legend

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

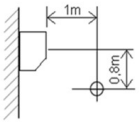
A Scale

B Fan speed: High

C Fan speed: Medium

D Fan speed: Low

Location of microphone



Cooling Total dB

A	B	C	D
dBA	45	38	30

Heating Total dB

A	B	C	D
dBA	45	37	29

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

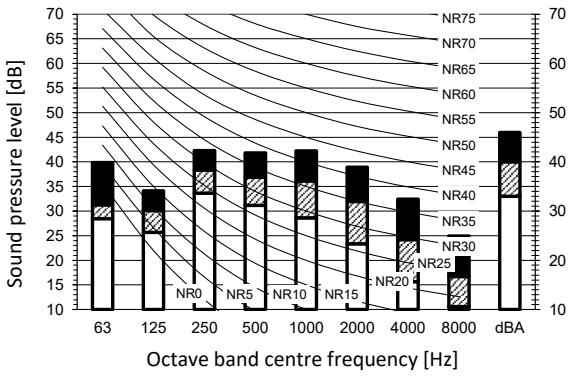
4D148919A

8 Sound data

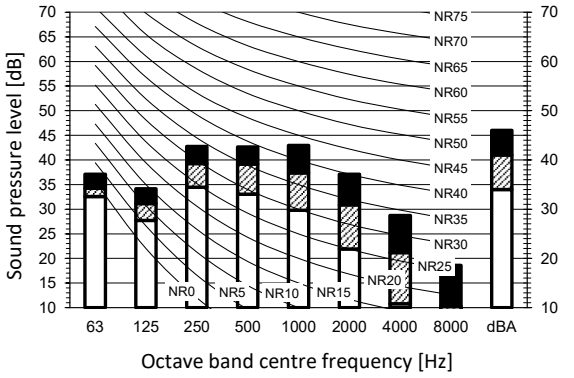
8 - 2 Sound Pressure Spectrum

FTXM50A

Cooling mode



Heating mode



Legend

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

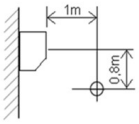
A Scale

B Fan speed: High

C Fan speed: Medium

D Fan speed: Low

Location of microphone



Cooling Total dB

A	B	C	D
dBA	46	40	33

Heating Total dB

A	B	C	D
dBA	46	41	34

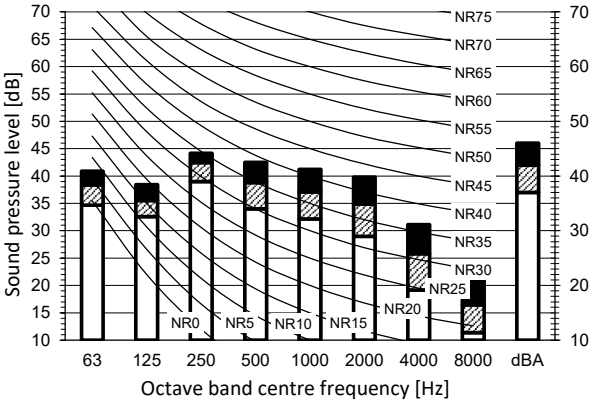
Notes

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

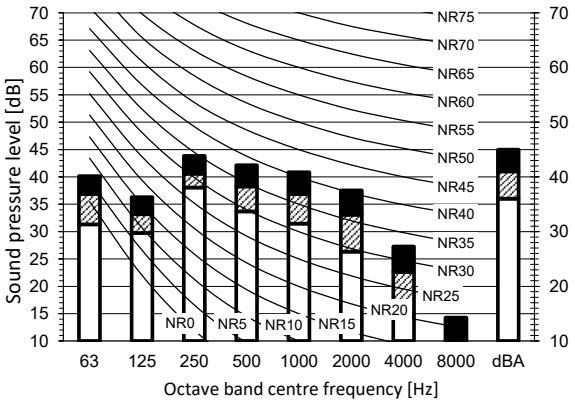
4D148920A

FTXM60A

Cooling mode



Heating mode



Legend

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

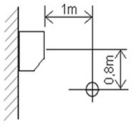
A Scale

B Fan speed: High

C Fan speed: Medium

D Fan speed: Low

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

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

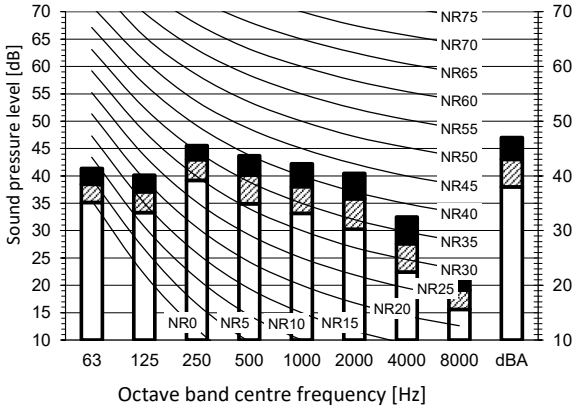
4D151795A

8 Sound data

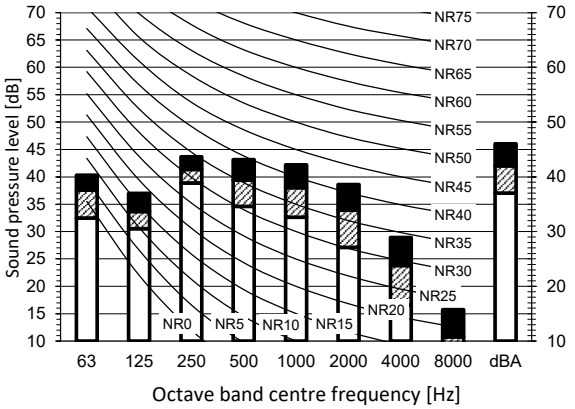
8 - 2 Sound Pressure Spectrum

FTXM71A

Cooling mode



Heating mode



Legend

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

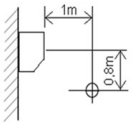
A Scale

B Fan speed: High

C Fan speed: Medium

D Fan speed: Low

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

4D151797A

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