

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

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				
		Depth	mm				252				
	Packed unit	Height	mm				350				
		Width	mm				875				
		Depth	mm				380				
Weight	Unit			kg				11.5			
	Packed unit			kg				13			
Packing	Weight		kg				2				
	Length		mm				622				
Heat exchanger	Rows	Quantity					2				
		Fin pitch		mm				1.40			
	Face area		m ²				0.214				
	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			
Rows		Quantity								1	
		Fin pitch		mm				1.40			
Face area		m ²	0.047				0.094				
Stages		Quantity					4				8
	Heat exchanger 3	Quantity					-				1
Length		mm				-				622	
Rows		Quantity					-				1
		Fin pitch		mm				-			
Face area		m ²				-				0.124	
Stages		Quantity					-				4
	Fan			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		
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

Technical specifications			FTXM20A	FTXM25A	FTXM35A	FTXM42A	FTXM50A	FTXM60A	FTXM71A
Refrigerant	Type		R-32						
	GWP		675						
Piping connections	Liquid	OD			6.4				
	Gas	OD			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 Options

3-1 Options

ATXM-A
CTXM-A
FTXM-A

Option kit	Product name	Remark New Perfer	Remark New Floor stand	Remark Emura 3	Remark Zeta 5	Applicable models		Factory
						Class	Ceiling	
Wired remote control	BRC0741	(2)(3)	(2)(3)	(2)(3)	(2)(3)	CTM42AZ1B	15	R32 BM5
Extension cord for wired remote control (3-m)	BRCW01A03					FTM42AZ1B	20	R32 BM5
Extension cord for wired remote control (5-m)	BRCW01A08					FTM42AZ1B	25	R32 BM5
Intelligent Tablet Controller	DCG601AS1	(2)(3)	(2)(3)	(2)(3)	(2)(3)	FTM42AZ1B	42	R32 BM5
Wiring adaptor (normal open contact - normal open pulse contact)	KRP413AB15	(2)(3)(5)	(2)(3)(5)	(2)(3)(5)	(2)(3)(5)	FTM42AZ1B	50	R32 BM5
Wiring adaptor (normal open contact - normal open pulse contact)	KRP413BB15	(2)(3)	(2)(3)	(2)(3)	(2)(3)	FTM42AZ1B	60	R32 BM5
Interface adaptor for DMX-NET	KRP928B25	(2)(3)	(2)(3)	(2)(3)	(2)(3)	FTM42AZ1B	71	R32 BM5
Central remote control	DCS30ZCA51	(2)(3)	(2)(3)	(2)(3)	(2)(3)	FTM42AZ1B	20	R32 BM5
Unified ON/OFF controller	DCS30IBAS1	(2)(3)	(2)(3)	(2)(3)	(2)(3)	FTM42AZ1B	25	R32 BM5
Schedule timer	DST30IBAS1	(2)(3)	(2)(3)	(2)(3)	(4)	FTM42AZ1B	30	R32 BM5
Intelligent Touch Manager	DKM601AS1	(2)(3)	(2)(3)	(2)(3)	(2)(3)	FTM42AZ1B	35	R32 BM5
Modbus interface	EKM60X7V1	(2)(3)	(2)(3)	(2)(3)	(2)(3)	FTM42AZ1B	42	R32 BM5
Modbus gateway	RTD-BA	(2)(3)	(2)(3)	(2)(3)	(2)(3)	FTM42AZ1B	42	R32 BM5
KNX interface	KLIC-DG	(2)(3)	(2)(3)	(2)(3)	(2)(3)	FTM42AZ1B	50	R32 BM5
Titanium spagite deodorizing filter without frame	KAF970A46	(1)	(1)	(1)	(1)	FTM42AZ1B	50	R32 BM5
Silver particle filter (big size) with frame	KAF977A1	(1)	(1)	(1)	(1)	FTM42AZ1B	50	R32 BM5
Conversion wire harness	EKR521					FTM42AZ1B	50	R32 BM5

NOTES

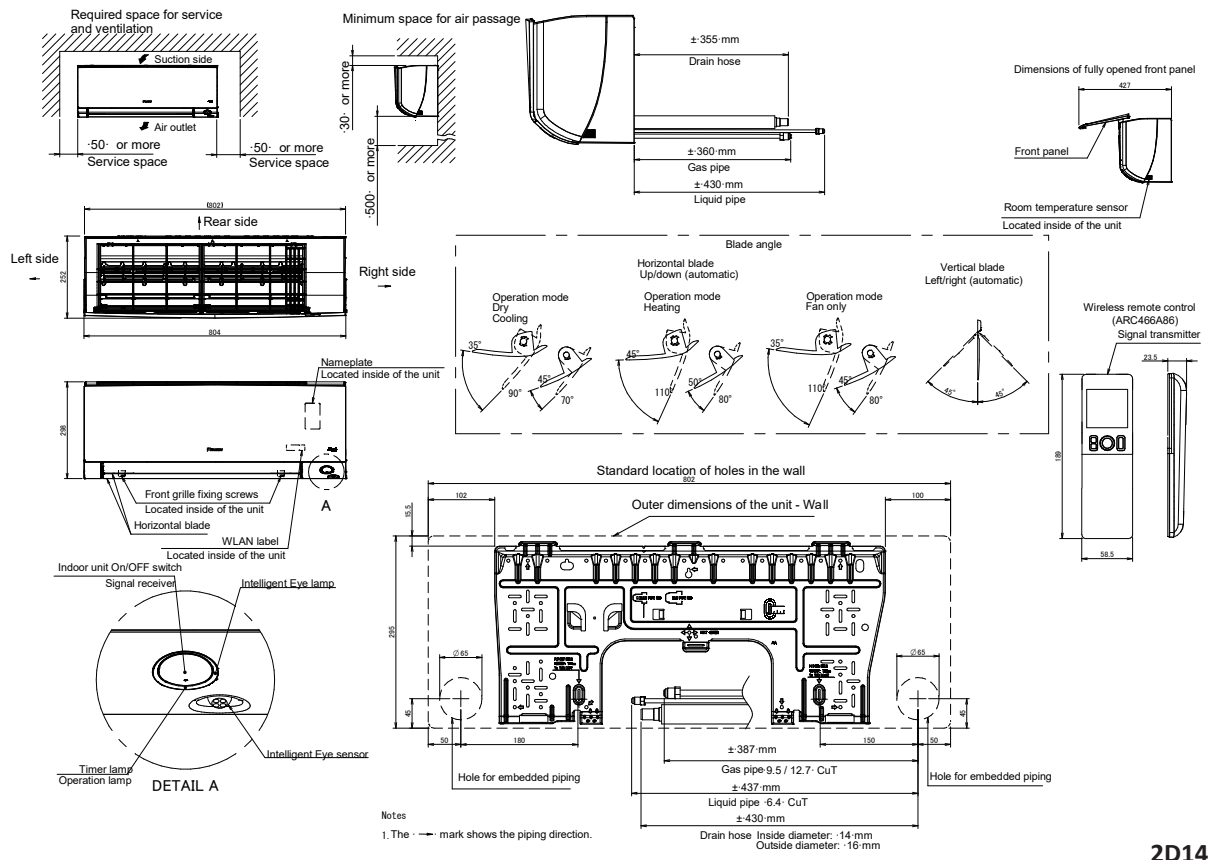
- Standard accessory
- This option features a(n) S21- connector. To connect this option to the indoor unit, therefore conversion wire harness EKR521- is required.
- This option cannot operate together with the wireless LAN functionality that is a standard feature of the indoor unit.
When connecting this option to the indoor unit, turn off the indoor unit's wireless LAN functionality.
- Obsolete option.
- Production of this option finished, replaced by new option KRP413BB15.

3D120481K

4 Dimensional drawings

4 - 1 Dimensional Drawings

FTXM20-50A

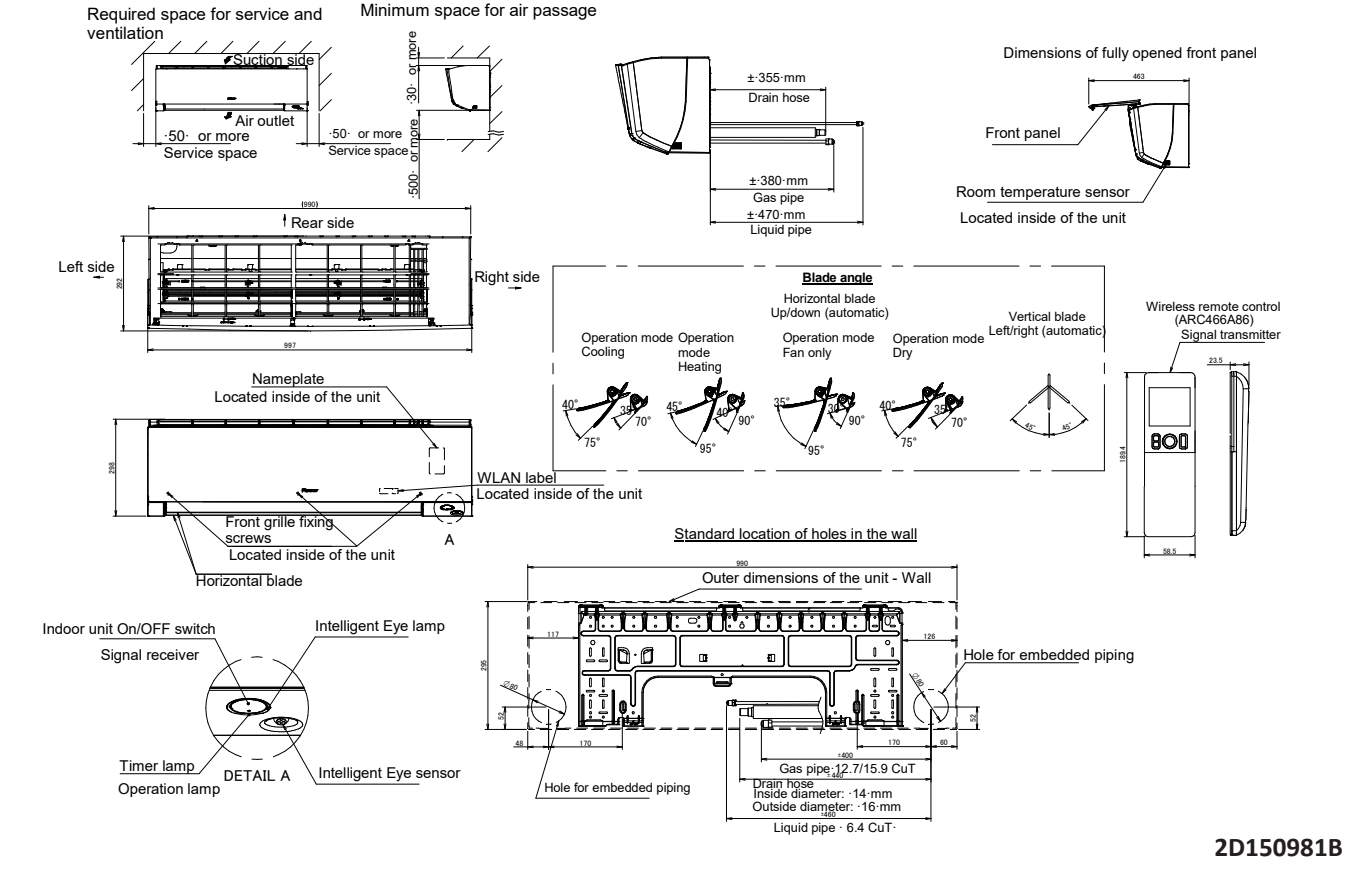


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4 Dimensional drawings

4 - 1 Dimensional Drawings

FTXM60-71A

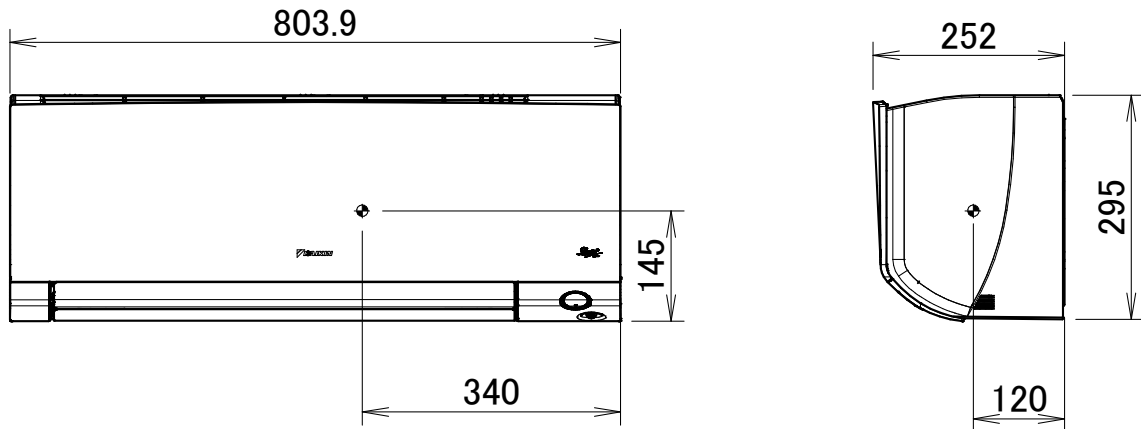


5 Centre of gravity

5 - 1 Centre of Gravity

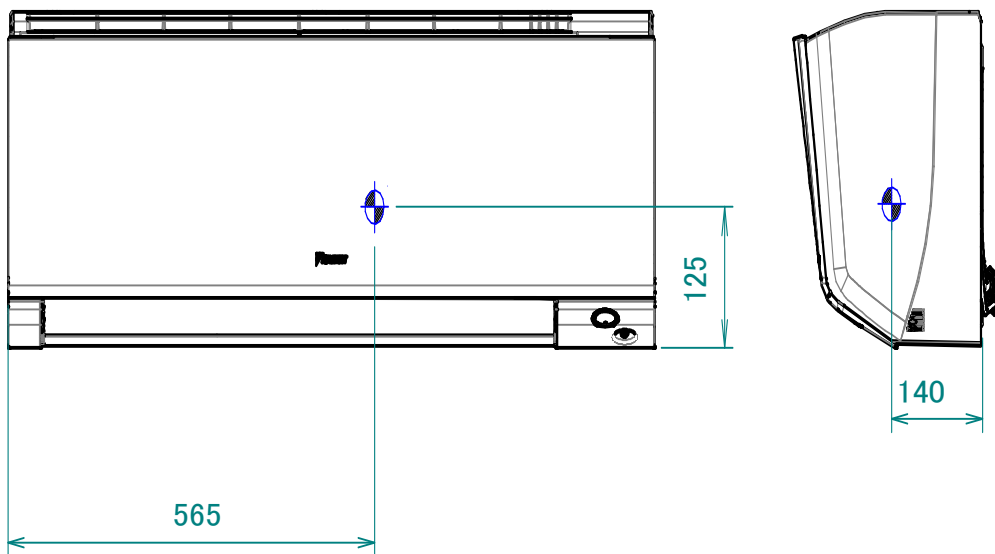
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ATXM-A
CTXM-A
FTXM20-50A



4D148220

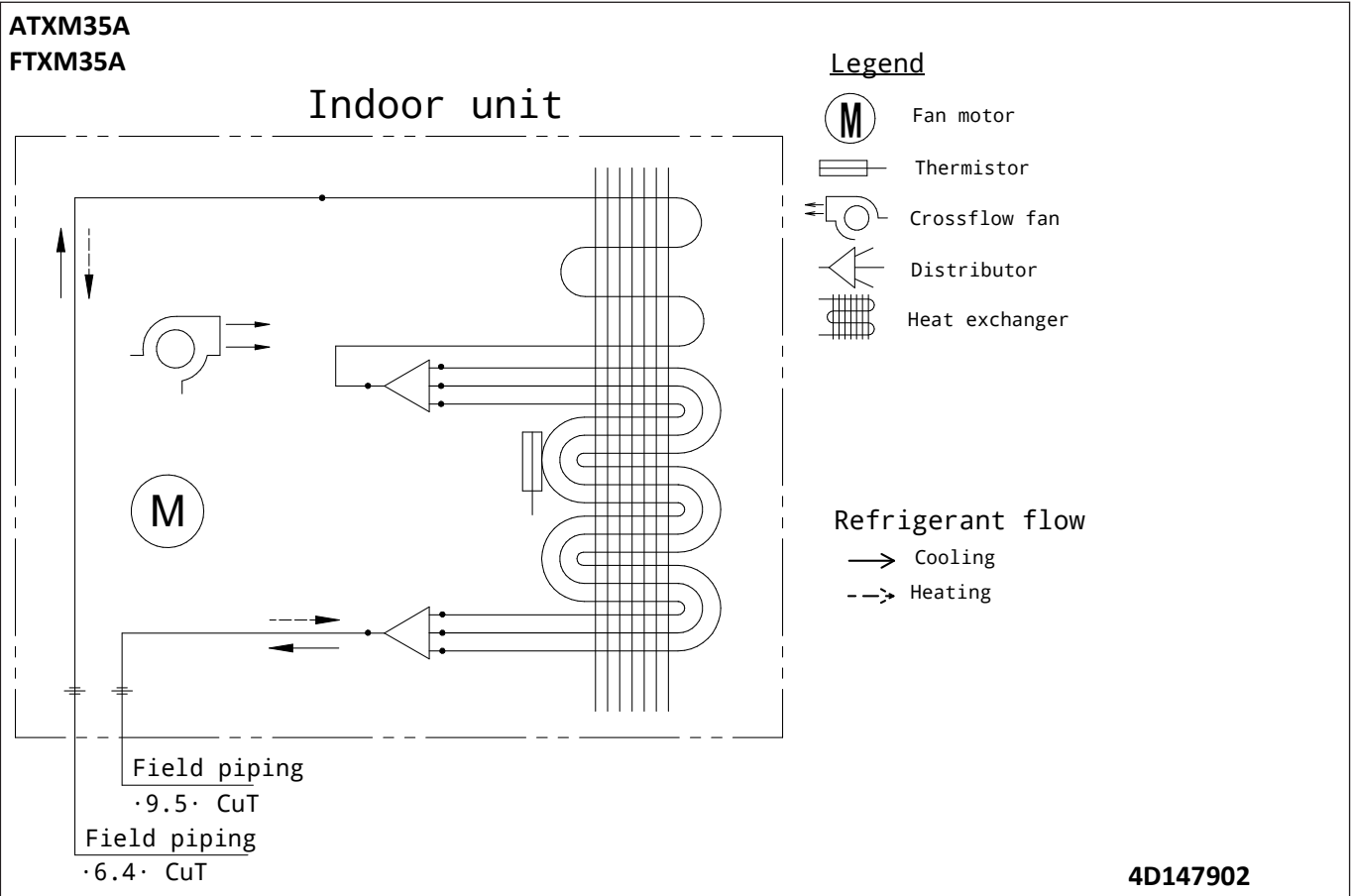
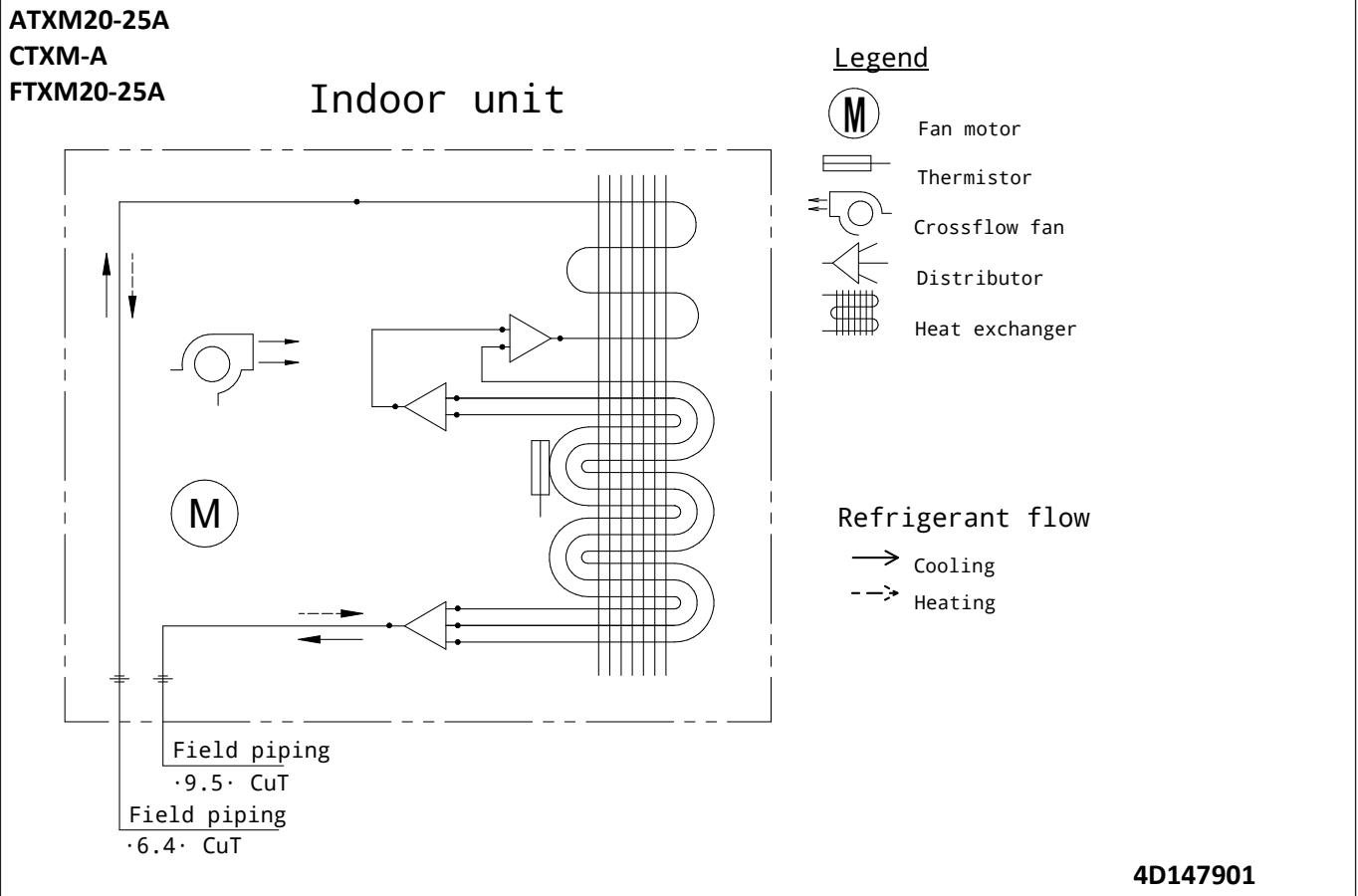
FTXM60-71A



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6 Piping diagrams

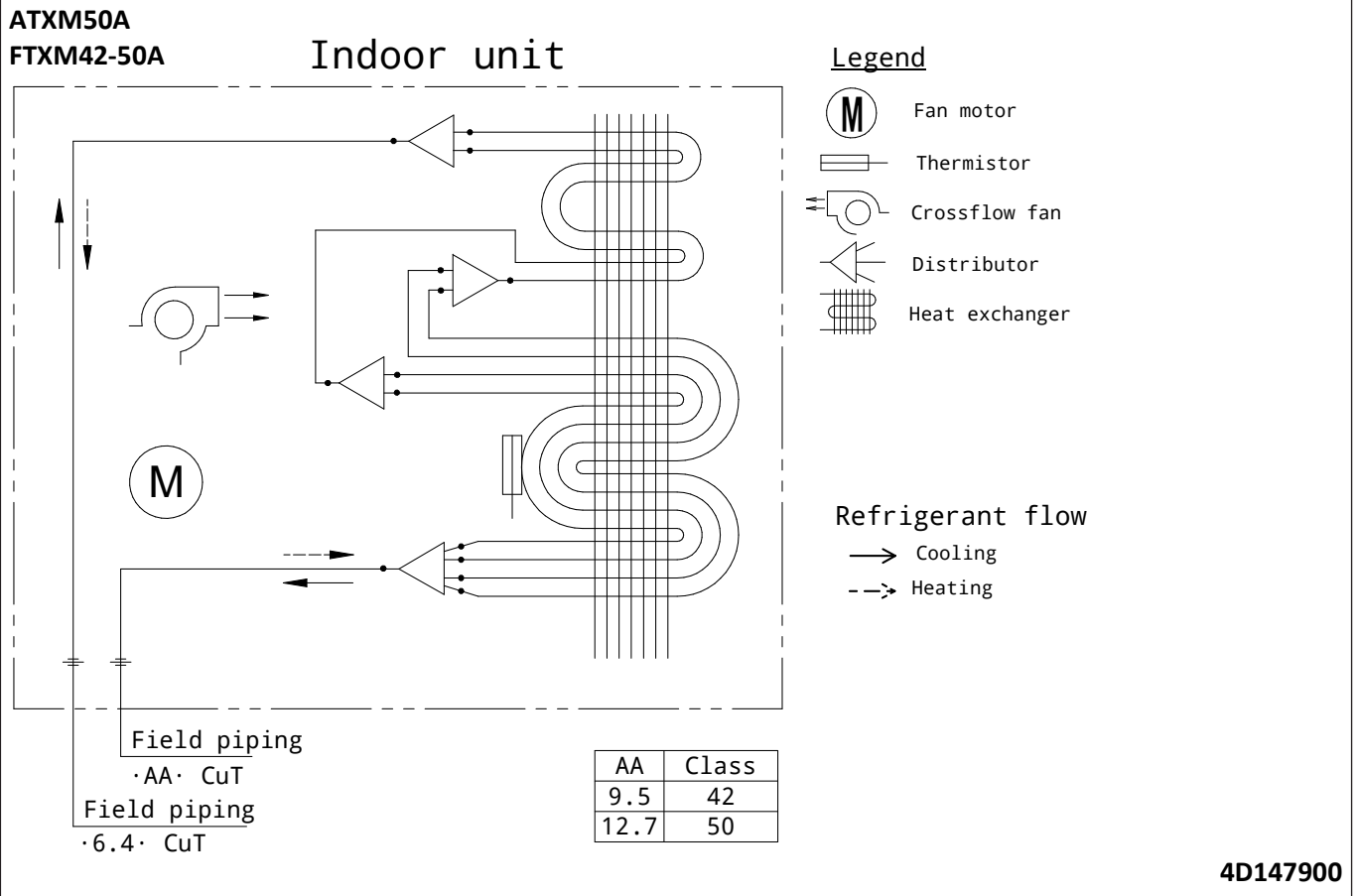
6 - 1 Piping Diagrams



6 Piping diagrams

6 - 1 Piping Diagrams

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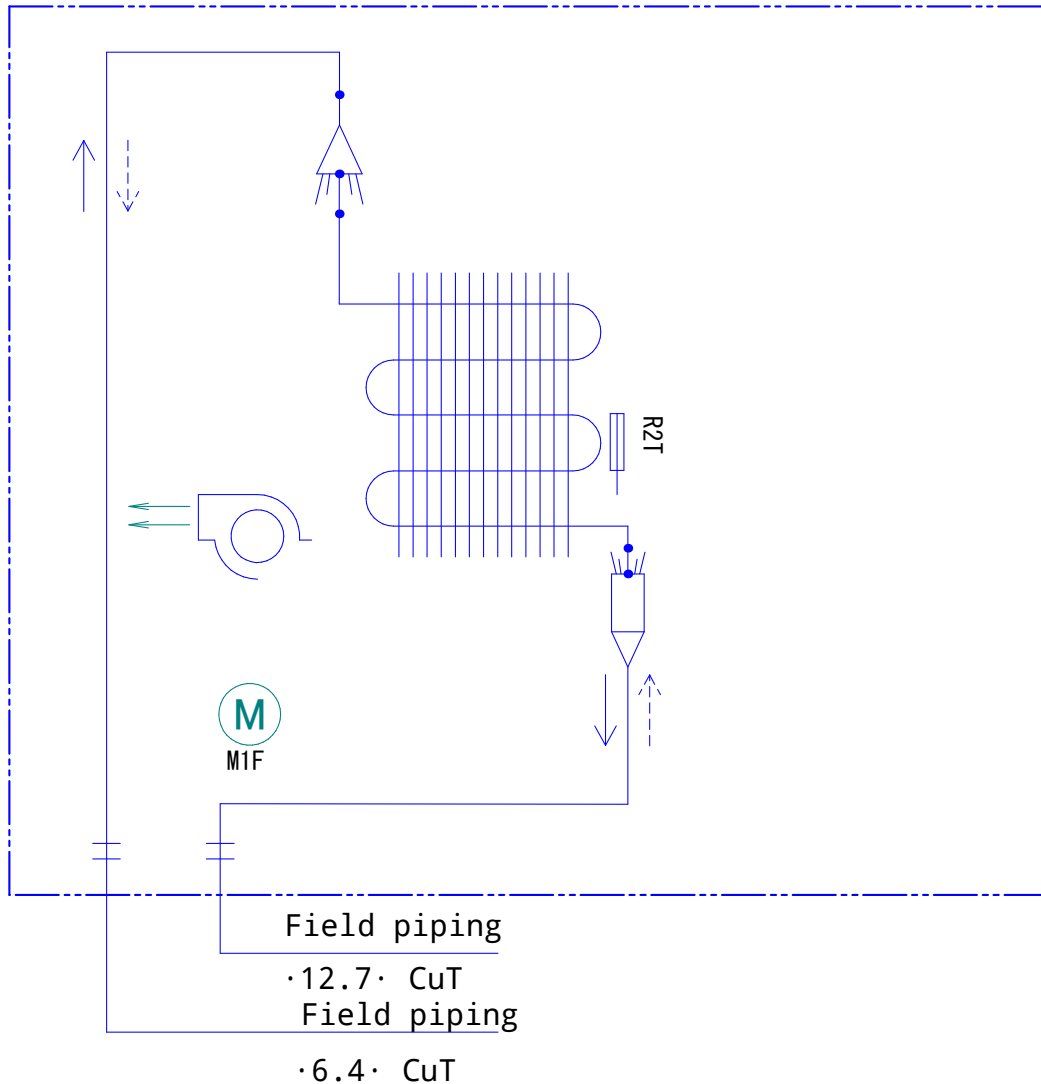


6 Piping diagrams

6 - 1 Piping Diagrams

FTXM60A

Indoor unit








Refrigerant flow

→ Cooling

- - - - -> Heating

Legend

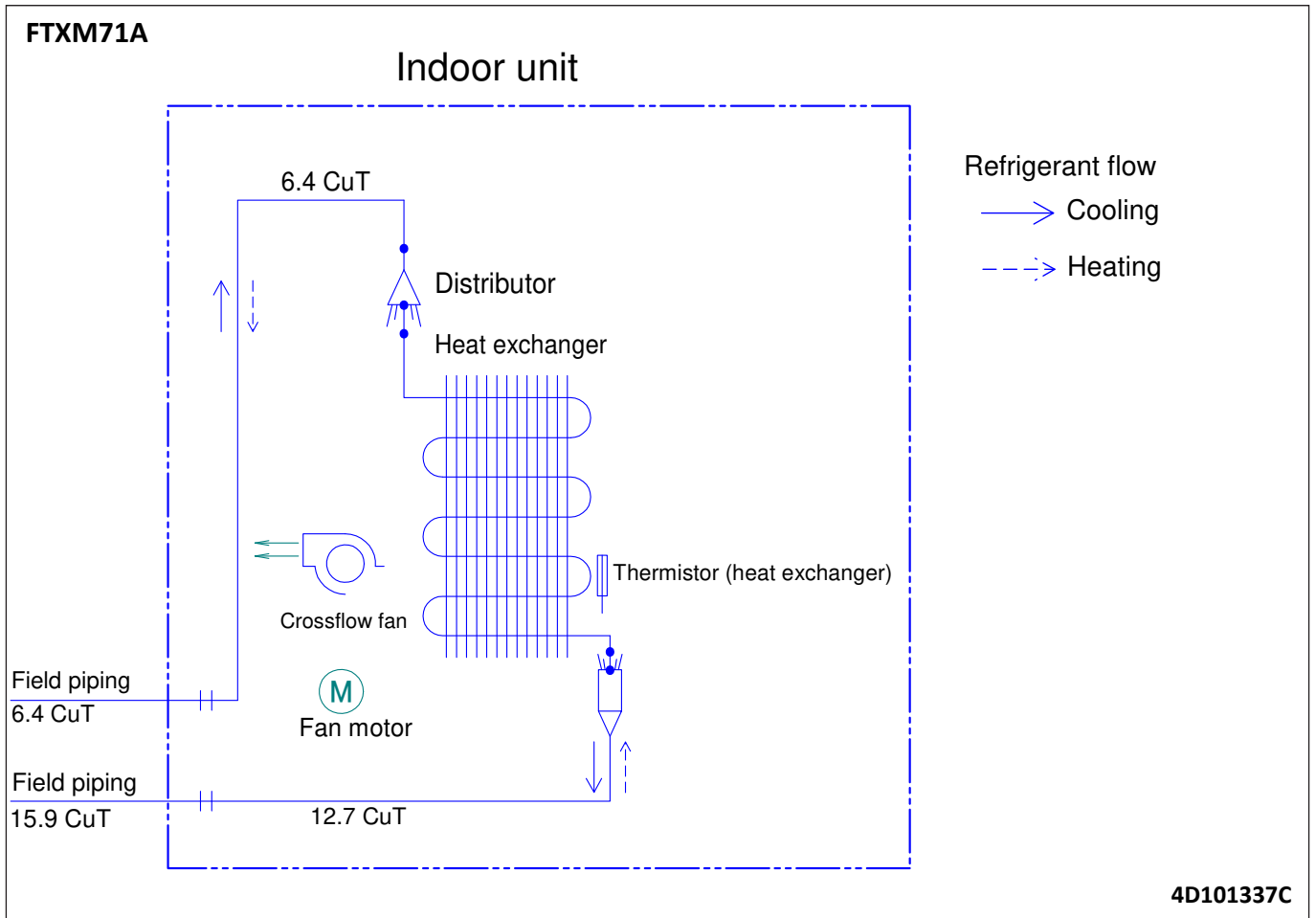
-  Fan motor
-  Distributor
-  Heat exchanger
-  Crossflow fan
-  Thermistor (heat exchanger)

4D101332E

6 Piping diagrams

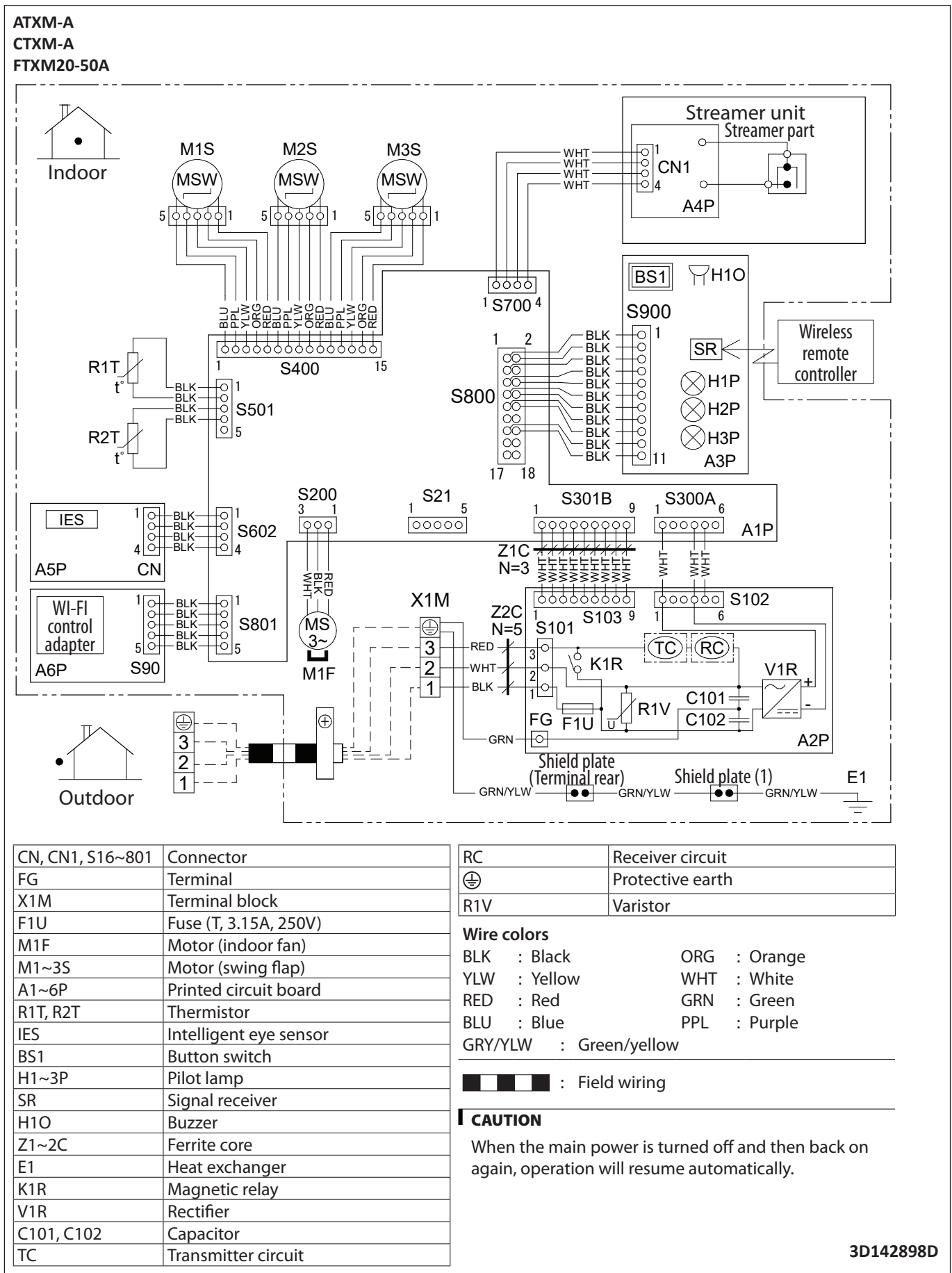
6 - 1 Piping Diagrams

6



7 Wiring diagrams

7 - 1 Wiring Diagrams - Three Phase



7 Wiring diagrams

7 - 1 Wiring Diagrams - Three Phase

7

FTXM60-71A

120

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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
H10	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

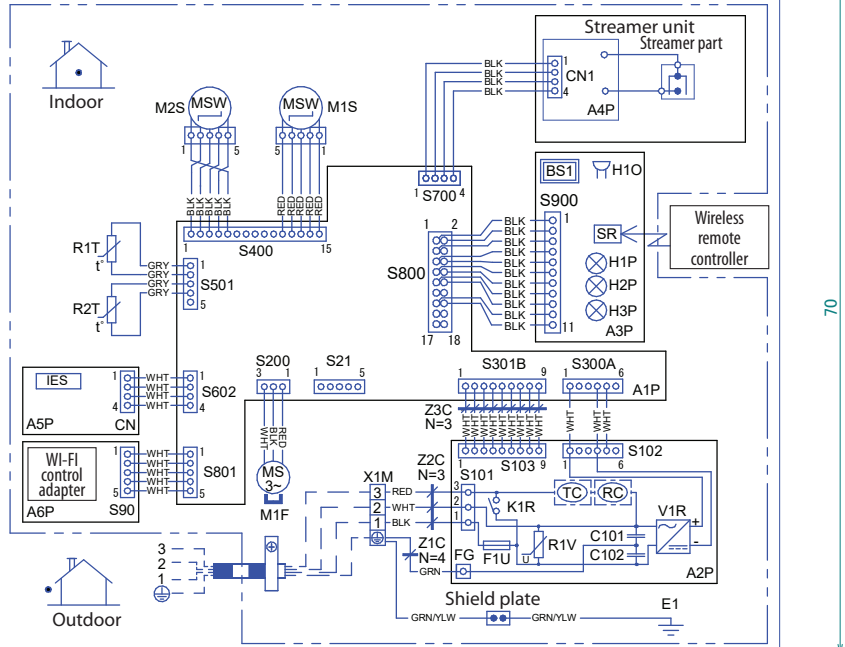
BLK	: Black
YLW	: Yellow
RED	: Red
WHT	: White
GRN	: Green
GRN/YLW	: Green/Yellow
GRY	: Gray

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.

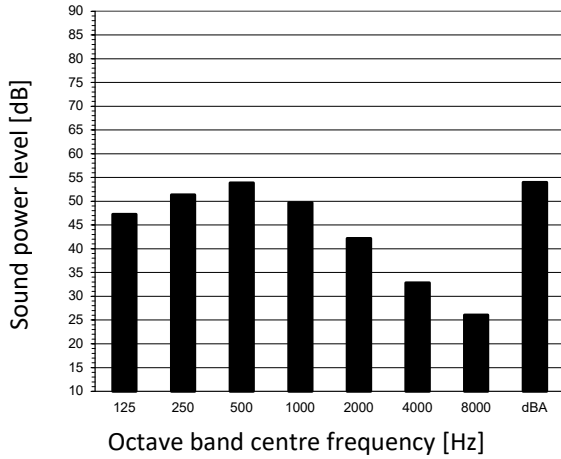
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8 Sound data

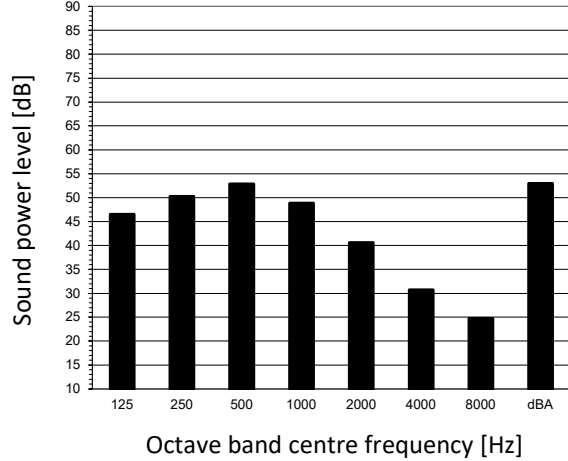
8 - 1 Sound Power Spectrum

CTXM-A
FTXM20A

Cooling



Heating



Fan speed: High

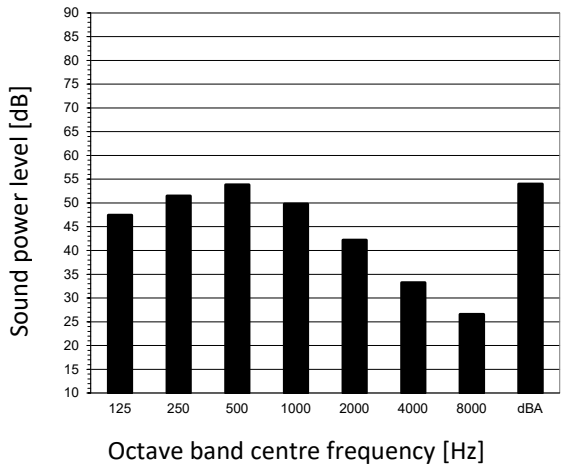
Notes

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

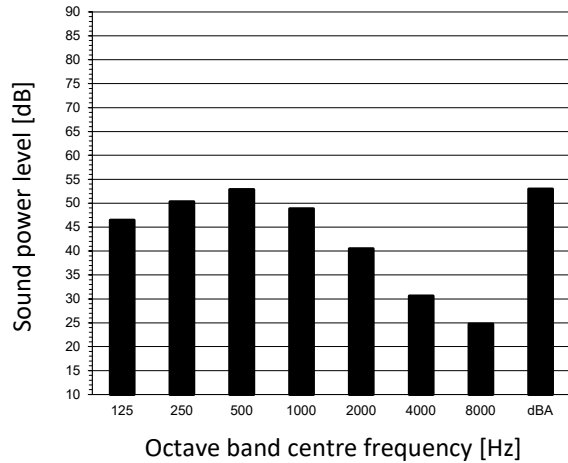
4D148880

FTXM25A

Cooling



Heating



Fan speed: High

Notes

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

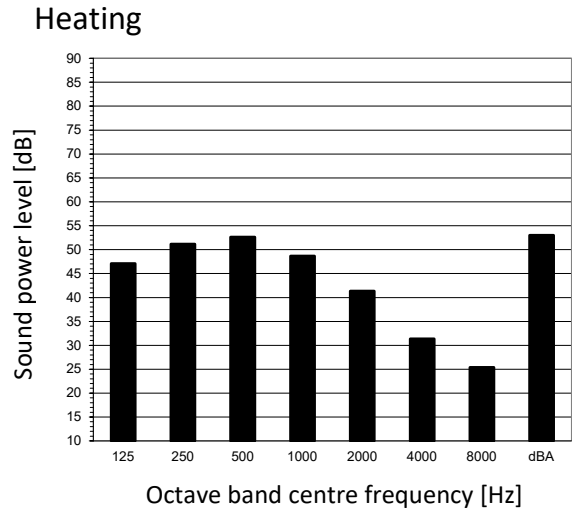
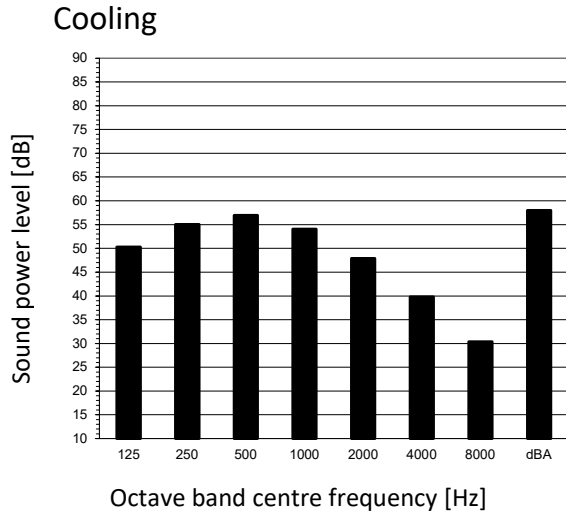
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8 Sound data

8 - 1 Sound Power Spectrum

8

FTXM35A

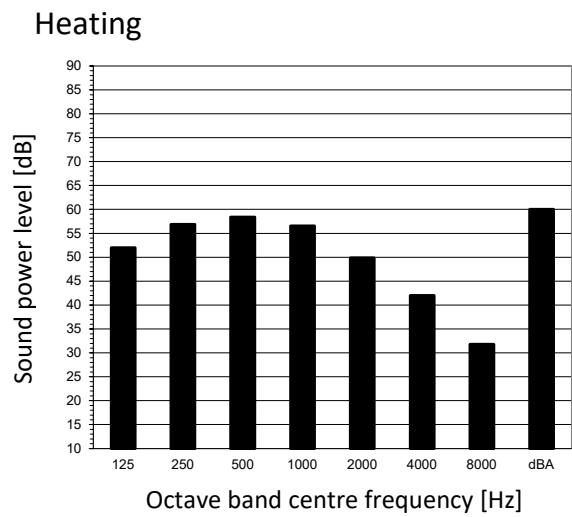
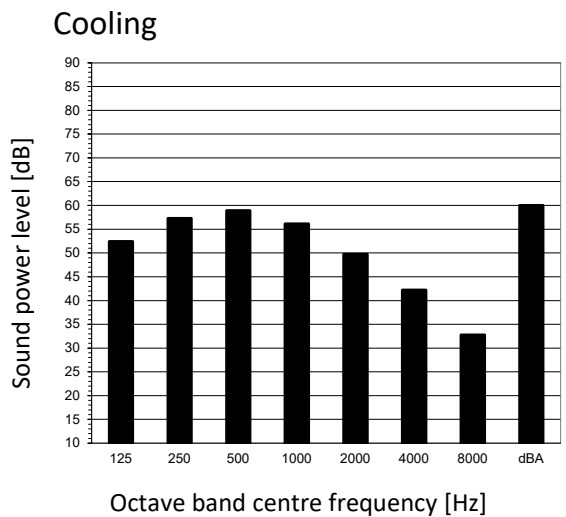


■ Fan speed: High

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

4D148882

FTXM42A



■ Fan speed: High

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

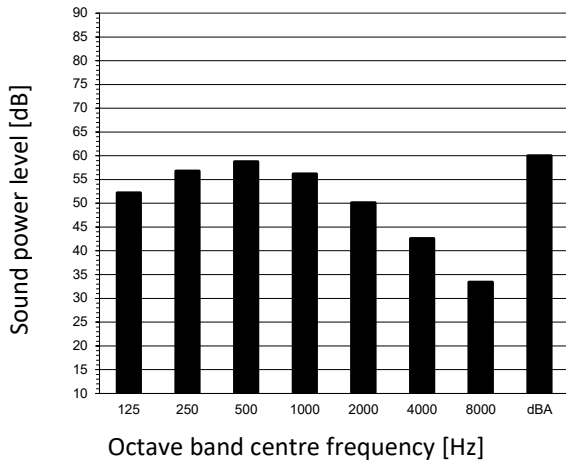
4D148883

8 Sound data

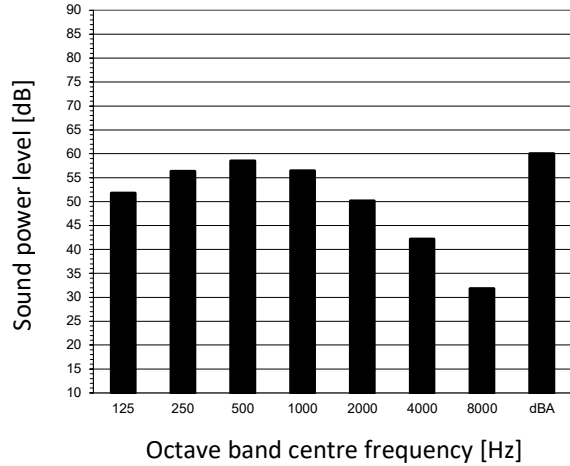
8 - 1 Sound Power Spectrum

ATXM50A FTXM50A

Cooling



Heating



■ Fan speed: High

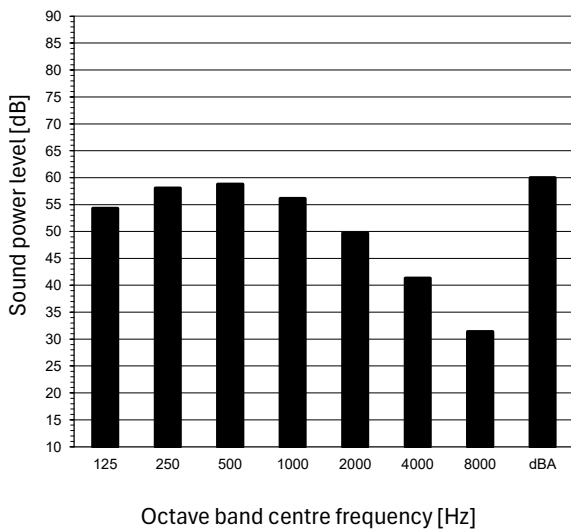
Notes

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

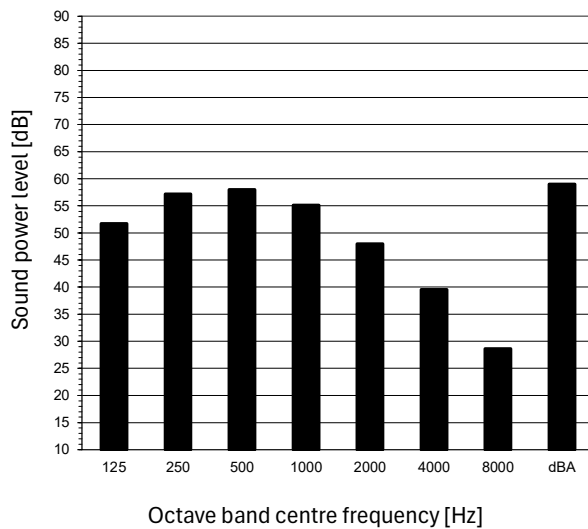
4D148884

FTXM60A

Cooling



Heating



■ Fan speed: High

Notes

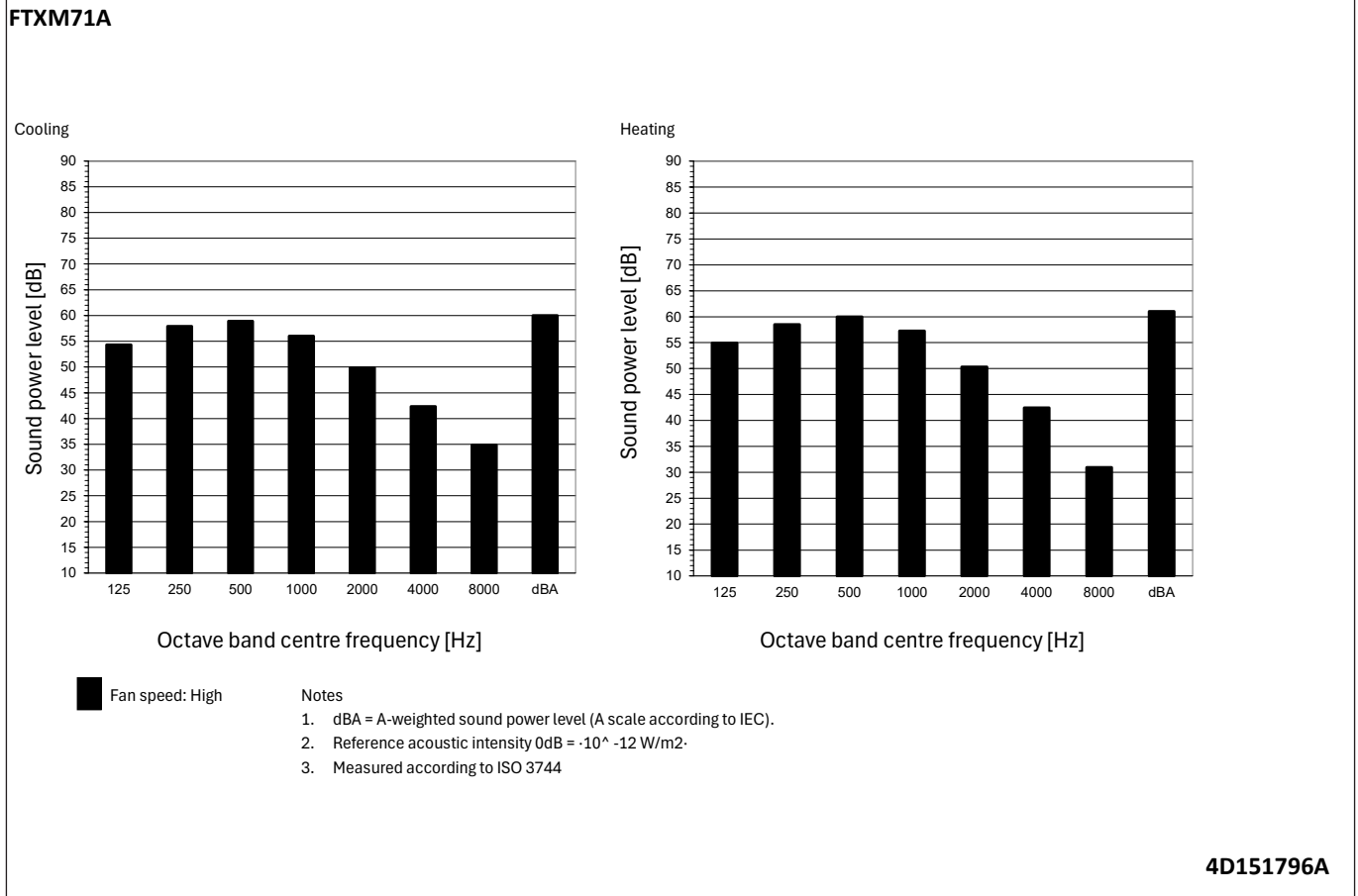
1. dBA = A-weighted sound power level (A scale according to IEC).
2. Reference acoustic intensity 0dB = 10^{-12} W/m².
3. Measured according to ISO 3744

4D151794A

8 Sound data

8 - 1 Sound Power Spectrum

8



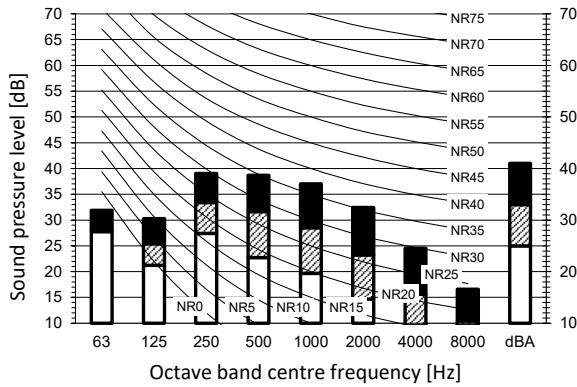
8 Sound data

8 - 2 Sound Pressure Spectrum

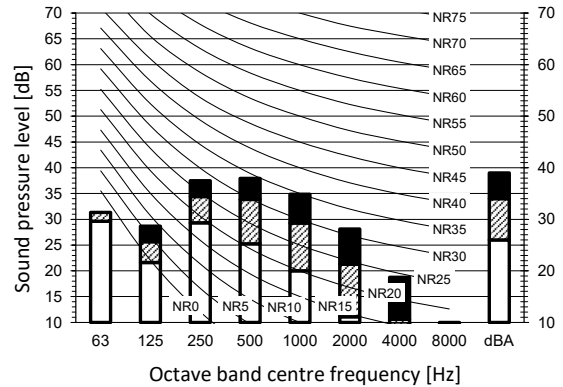
ATXM20A

CTXM-A

FTXM20A Cooling mode



Heating mode



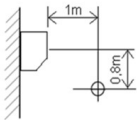
Legend

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

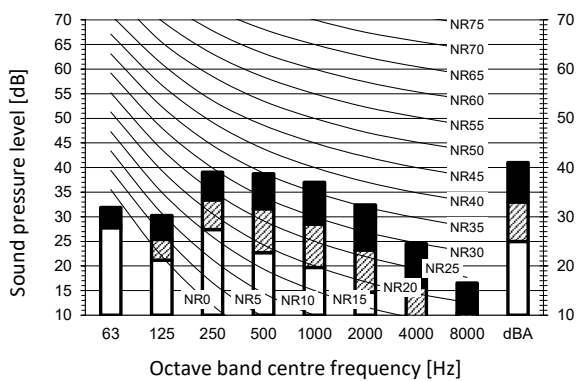
1. Operating conditions: power source 220-240 V/220 V 50/60 Hz; JIS standard
2. Background noise already taken into account.
3. Operating noise varies depending on operation and ambient conditions.
4. The operation noise measuring method is in accordance with JISC9612.
5. Measuring location: anechoic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

4D148915A

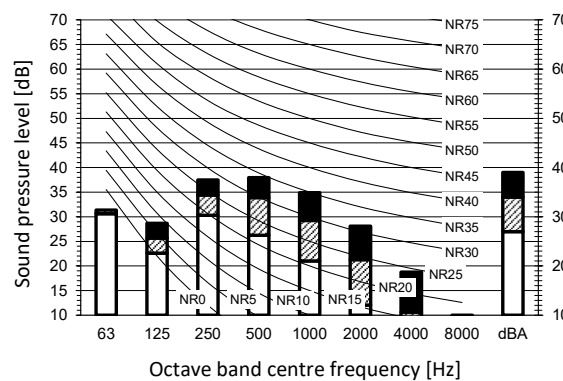
ATXM25A

FTXM25A

Cooling mode



Heating mode



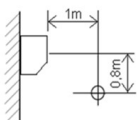
Legend

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

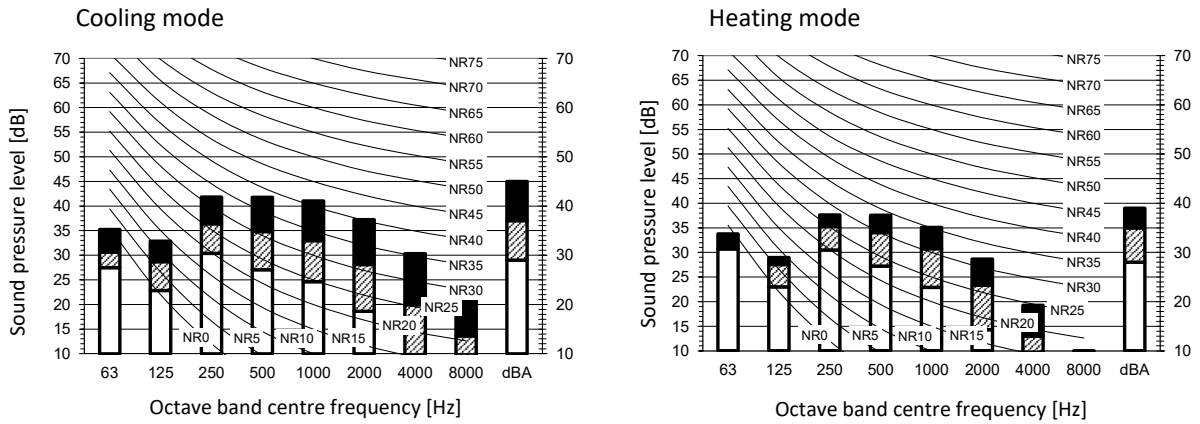
4D148916A

8 Sound data

8 - 2 Sound Pressure Spectrum

8

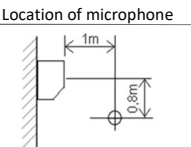
ATXM35A FTXM35A



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	45	37	29	

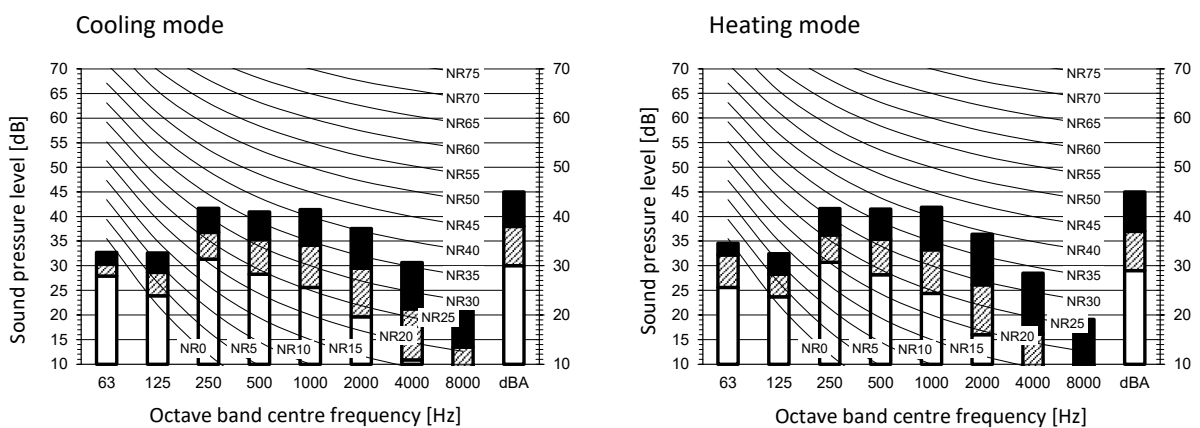
Heating	Total dB			
	A	B	C	D
dBA	39	35	28	



- 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

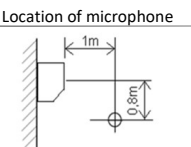
FTXM42A



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	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

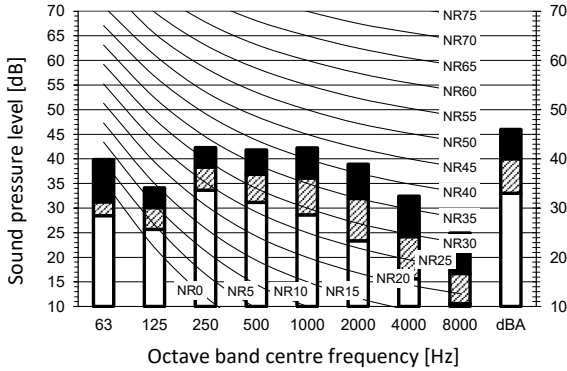
4D148919A

8 Sound data

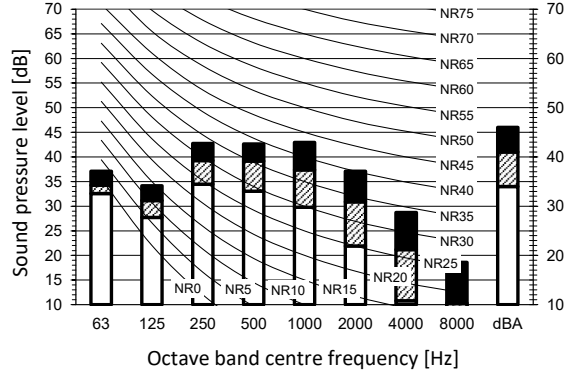
8 - 2 Sound Pressure Spectrum

ATXM50A FTXM50A

Cooling mode



Heating mode



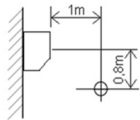
Legend

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

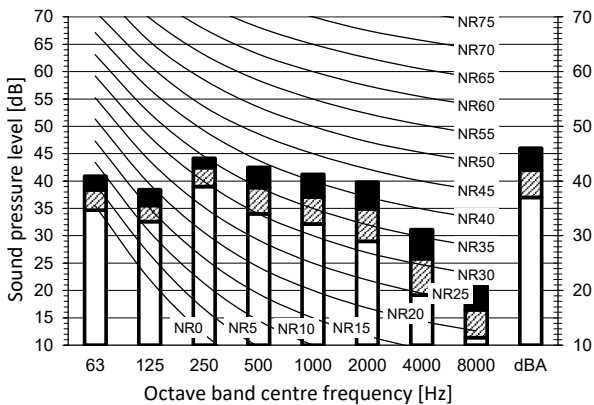
Notes

- 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

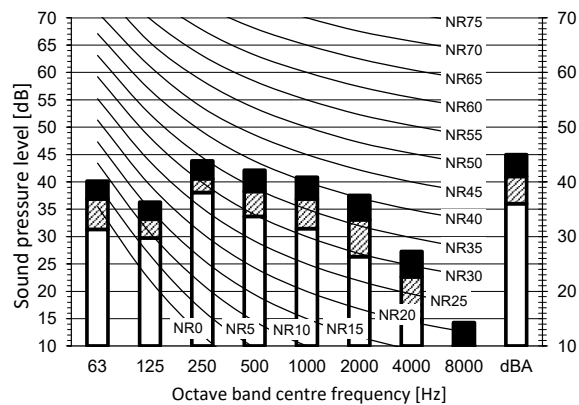
4D148920A

FTXM60A

Cooling mode



Heating mode



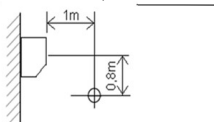
Legend

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

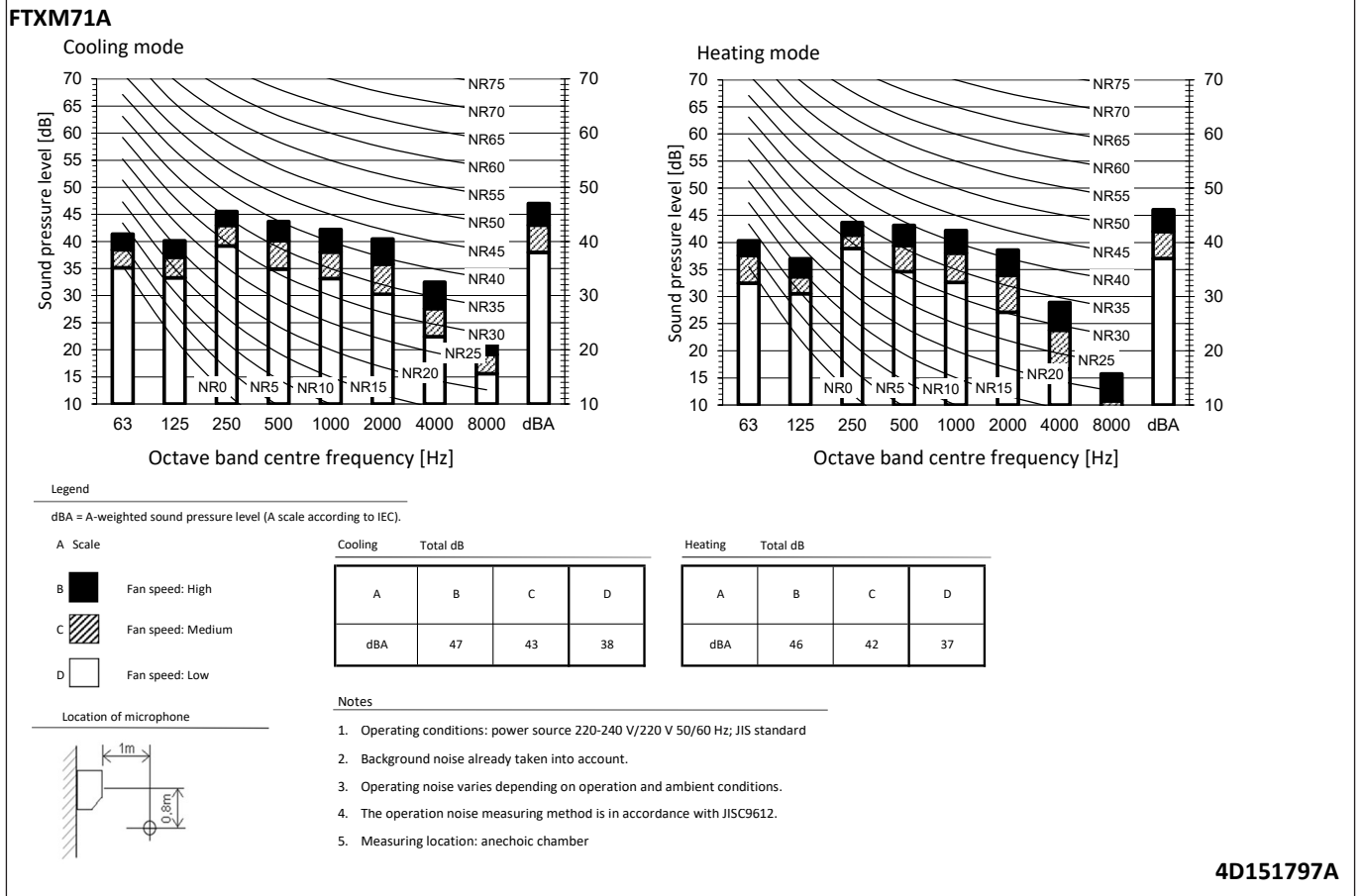
- Operating conditions: power source 220-240 V/220 V 50/60 Hz; JIS standard
- Background noise already taken into account.
- Operating noise varies depending on operation and ambient conditions.
- The operation noise measuring method is in accordance with JISC9612.
- Measuring location: anechoic chamber

4D151795A

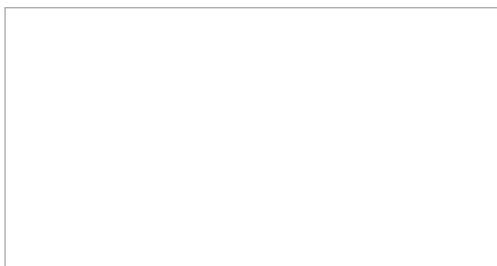
8 Sound data

8 - 2 Sound Pressure Spectrum

8



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