Wall mounted unit Air Conditioning Technical Data

FTXF-E

FTXF20E5V1B
FTXF25E5V1B
FTXF35E5V1B
FTXF42E5V1B

EEDEN23A

TABLE OF CONTENTS

FTXF-E

1 Features

1 - 1 FTXF-E

- Seasonal efficiency values up to A++ in cooling
- Onecta app (optional): control your indoor from any location with an app, via your local network or internet.
- Quiet in operation down to 20 dBA
- 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

Onecta app (optional)

Econo mode (25, 35 class)

Energy saving during standby mode (25, 35 class)

Fan only

Comfort mode (25, 35 class)

Powerful mode

Auto cooling-heating changeover

Indoor unit silent operation

Vertical auto swing

Auto fan speed

Fan speed steps (5 steps)

Dry programme

Air filter

24 hour timer

Infrared remote control

Auto-restart

Self diagnosis

2 Specifications

2 - 1 Specifications

Technical specifications					FTXF20E	FTXF25E	FTXF35E	FTXF42E
Power input	Cooling	Nom.		kW	0.023		0.029	0.040
	Heating	Nom.		kW	0.023		0.029	0.040
Casing	Colour				White			
Dimensions	Unit	Height		mm	286			
		Width		mm	770			
		Depth		mm	225			
	Packed unit	Height		mm	305			
		Width		mm	830			
		Depth		mm	360			
Weight	Unit			kg	8.00		8.50	9.00
	Packed unit			kg	10		11	
Packing	Weight			kg	2			
Heat exchanger	Length			mm	610			
	Rows	Quantity			2			
	Fin pitch			mm	1.40			
	Stages	Quantity			18			
	Tube type				ø5 Hi-XB			
	Fin	Type			ML fin (Multi louver)			
Heat exchanger 2	Length			mm	-			600
	Rows	Quantity			-			1
	Fin pitch			mm	-			1.40
	Stages	Quantity			-			8
Fan	Type				Cross flow fan			
	Quantity				1			
	Air flow rate	Cooling	High	m^3/min	9.8	10.0	11.5	12.6
				cfm	346	353	406	450
			Medium	m^3/min	8			9
				cfm	286	289	298	310
			Low	m^3/min	6.0	6.2	6.4	6.9
				cfm	212	219	226	243
			Silent operation	m^3/min	4.3		4.4	4.9
				cfm	152		155	173
		Heating	High	m^3/min	10.4		11.9	12.8
				cfm	367		420	452
			Medium	m^3/min	8.3	8.4	8.6	8.8
				cfm	293	297	302	310
Fan	Air flow rate	Heating	Low	m^3/min	6.2	6.4	6.5	6.7
				cfm	219	226	230	236
			Silent operation	m^3/min	5.3			5.2
				cfm	187			183
Fan motor	Model				DFD03C1VB			
	Speed	Steps			5 + silent, + auto			
		Cooling	High	rpm	1,000	1,020	1,140	1,250
			Medium	rpm	830		870	1,010
			Low	rpm	660		700	780
			Silent operation	rpm	530		540	600
		Heating	High	rpm	1,040		1,140	1,250
			Medium	rpm	880		930	1,010
			Low	rpm	710		760	780
			Silent operation	rpm	610			650
	Output	Rated		W	22			
Sound power level	Cooling			dBA	53.0	54.0		59.0
	Heating			dBA	55.0		56.0	59.0
Sound pressure level	Cooling	High		dBA	39.0	40.0	43.0	45.0
		Medium		dBA	33.0		34.0	36.0
		Low		dBA	25.0	26.0	27.0	30.0
		Silent operation		dBA	20.0			22.0
	Heating	High		dBA	39.0	40.0		44.0
		Medium		dBA	34.0		35.0	34.0
		Low		dBA	28.0		29.0	28.0
		Silent operation		dBA	21.0			22.0
Piping connections	Liquid	OD		mm	6			
	Gas	OD		mm	9.50			
	Drain				18			
	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				ARC470A1			
	Wired remote control				BRC073A1			

Standard accessories: Installation manual;Quantity: 1;

Standard accessories: Operation manual;Quantity: 1;

2 Specifications

2 - 1 Specifications

Standard accessories: Infrared 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: Indoor unit fixing screws;Quantity: 2;

Standard accessories: General safety precautions;Quantity: 1;

Electrical specifications			FTXF20E	FTXF25E	FTXF35E	FTXF42E
Power supply	Phase		1~			
	Frequency	Hz	50			
	Voltage	V	220-440			

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 (horizontal) |
See separate drawing for electrical data

3 Options

3 - 1 Options

FTXF-E
ATXF-E

Option kit	Product name	Remark	Applicable models	Class	Casing	Factory
			FTXF20E5V1B	20	BMS-R32	DTAS
			FTXF25E5V1B	25	BMS-R32	DTAS
			FTXF35E5V1B	35	BMS-R32	DTAS
			FTXF42E5V1B	42	BMS-R32	DTAS
			ATXF20E5V1B	20	BMS-R32	DTAS
			ATXF25E5V1B	25	BMS-R32	DTAS
			ATXF35E5V1B	35	BMS-R32	DTAS
			ATXF42E5V1B	42	BMS-R32	DTAS
Wi-Fi adaptor for smartphones (Onecta App Adapter "Cartridge")	BRP069C47		✓	✓	✓	✓
Wired remote control	BRC073A1	① ③	✓	✓	✓	✓
Wired remote control	BRC944B2		✗	✗	✗	✗
Extension cord for wired remote control (·3·m)	BRCW901A03		✓	✓	✓	✓
Extension cord for wired remote control (·5·m)	BRCW901A08		✓	✓	✓	✓
Interface adaptor for wired remote control	KRP067A41	②	✓	✓	✓	✓
Interface adaptor for wired remote control	KRP980B1	②	✓	✓	✓	✓
Interface adaptor for wired remote control	EKRP980B2		✗	✗	✗	✗
Centralised control board (up to ·5· rooms)	KRC72A		✗	✗	✗	✗
Wiring adaptor (normal open contact - normal open pulse contact)	KRP413AB1S	① ③	✓	✓	✓	✓
Interlligent Touch Manager	DCM601A5A	① ③	✓	✓	✓	✓
Interface adaptor for DIII-NET	KRP928BB2S	① ③	✓	✓	✓	✓
Central remote control	DCS302CA51	① ③	✓	✓	✓	✓
Unified ON/OFF controller	DCS301BA51/61	① ③	✓	✓	✓	✓
Schedule timer	DST301BA51/61	① ③	✓	✓	✓	✓
Titanium apatite deodorising filter without frame	KAF971A42		✗	✗	✗	✗
Titanium apatite deodorising filter without frame	KAF952B42		✗	✗	✗	✗
Titanium apatite deodorising filter without frame	KAF970A46		✗	✗	✗	✗
Honeycomb deodorising and air-purifying filter without frame	KAF968A42		✗	✗	✗	✗
Honeycomb deodorising filter with frame	KAZ917B41		✗	✗	✗	✗
Honeycomb deodorising filter without frame	KAZ917B42		✗	✗	✗	✗
Air-purifying filter with frame	KAF925B41		✗	✗	✗	✗
Honeycomb deodorising and air-purifying filter with frame	KAF046A41		✗	✗	✗	✗
Anti-theft protection for remote control	KKF910AA4		✗	✗	✗	✗
Anti-theft protection for remote control	KKF917AA4		✗	✗	✗	✗
Anti-theft protection for remote control	KKF936A4		✗	✗	✗	✗
Installation frame for floor-standing units	BKS028A4		✗	✗	✗	✗
Optional remote control BRC480A54 for heating-only indoor units	BRC54A		✗	✗	✗	✗
Silver particle filter (Ag-ion) with frame	KAF057A41		✗	✗	✗	✗
Modbus interface	EKMBDXA7V1	① ③	✓	✓	✓	✓
Modbus Gateway	RTD-RA	① ③	✓	✓	✓	✓
KNX interface	KLIC-DD	① ③	✓	✓	✓	✓

Notes

① To connect this option to the indoor unit, therefore Interface adaptor .KRP067A41. is required.

② This option feature a(n) .S21. connector .KRP067A41. is only .S21. PCB.
.KRP980B1. is S21 PCB and adaptor casing - however adaptor plastic casing are not required for installation to the unit.

③ This option can not operate together with the wireless LAN functionality. When connecting this option to the indoor unit ,turn off the indoor unit's wireless LAN functionality.

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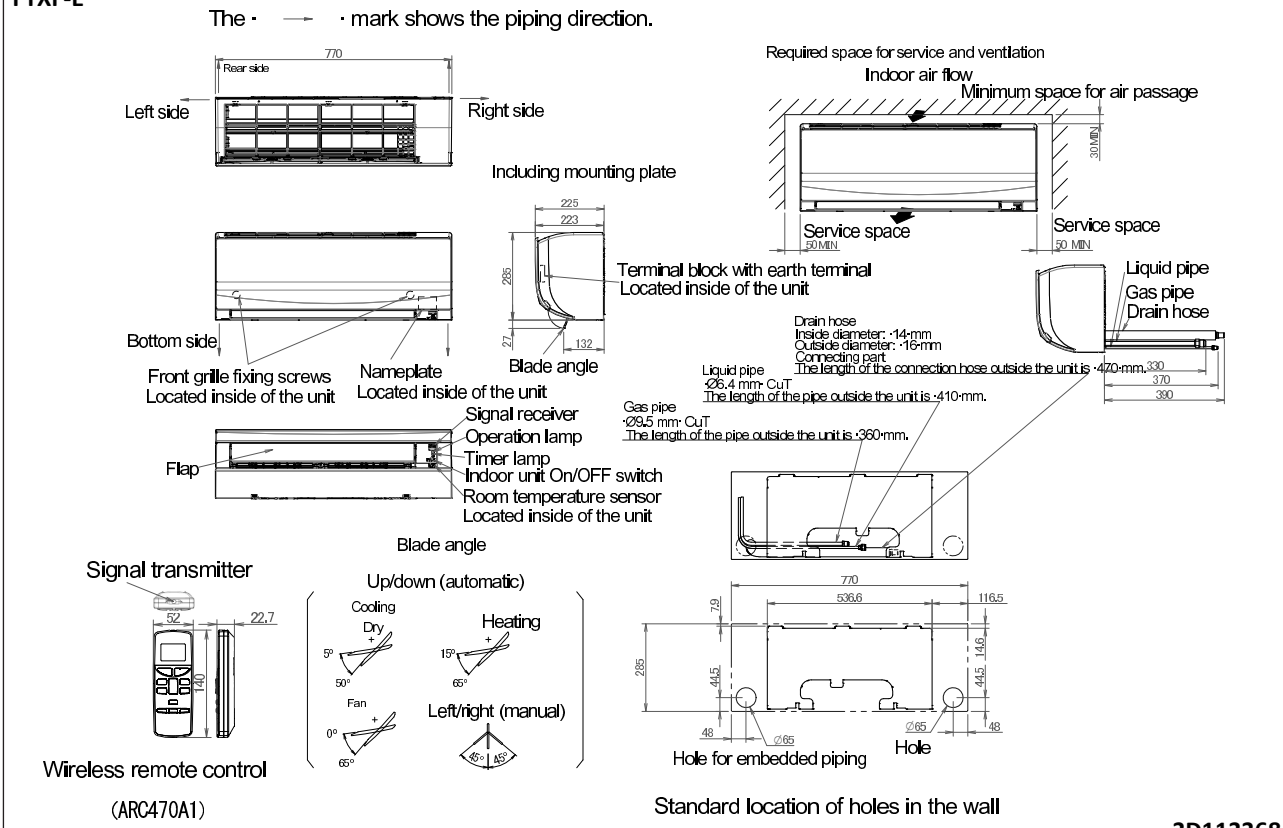
4 Dimensional drawings

4 - 1 Dimensional Drawings

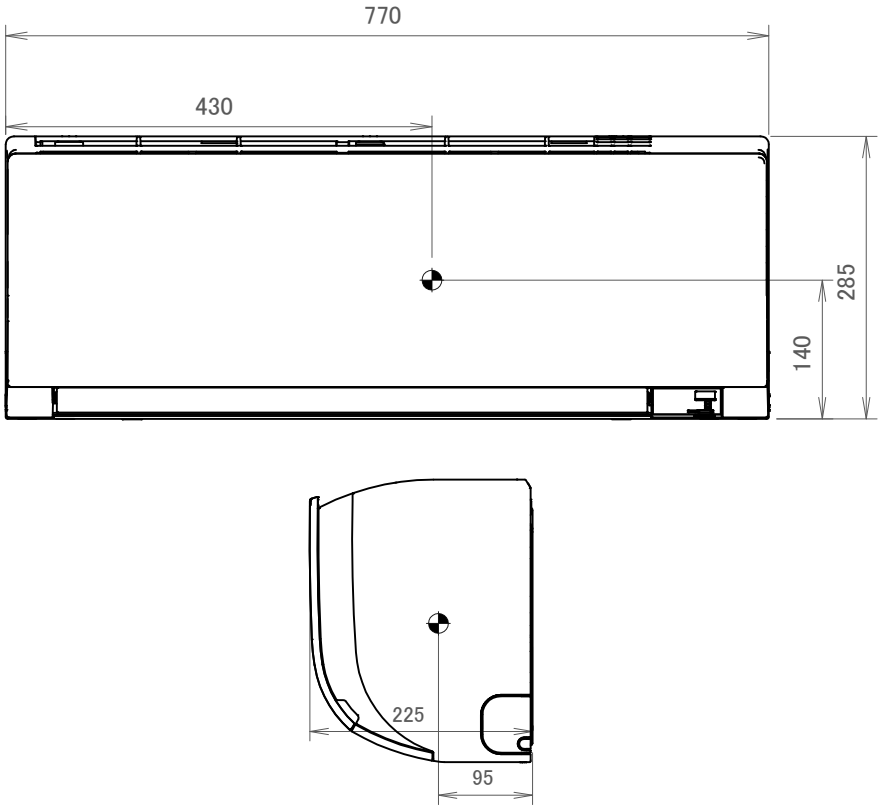
ATXF-E
FTXF-E



5 Centre of gravity

5 - 1 Centre of Gravity

ATXP-N
ATXF-E
FTXF-E



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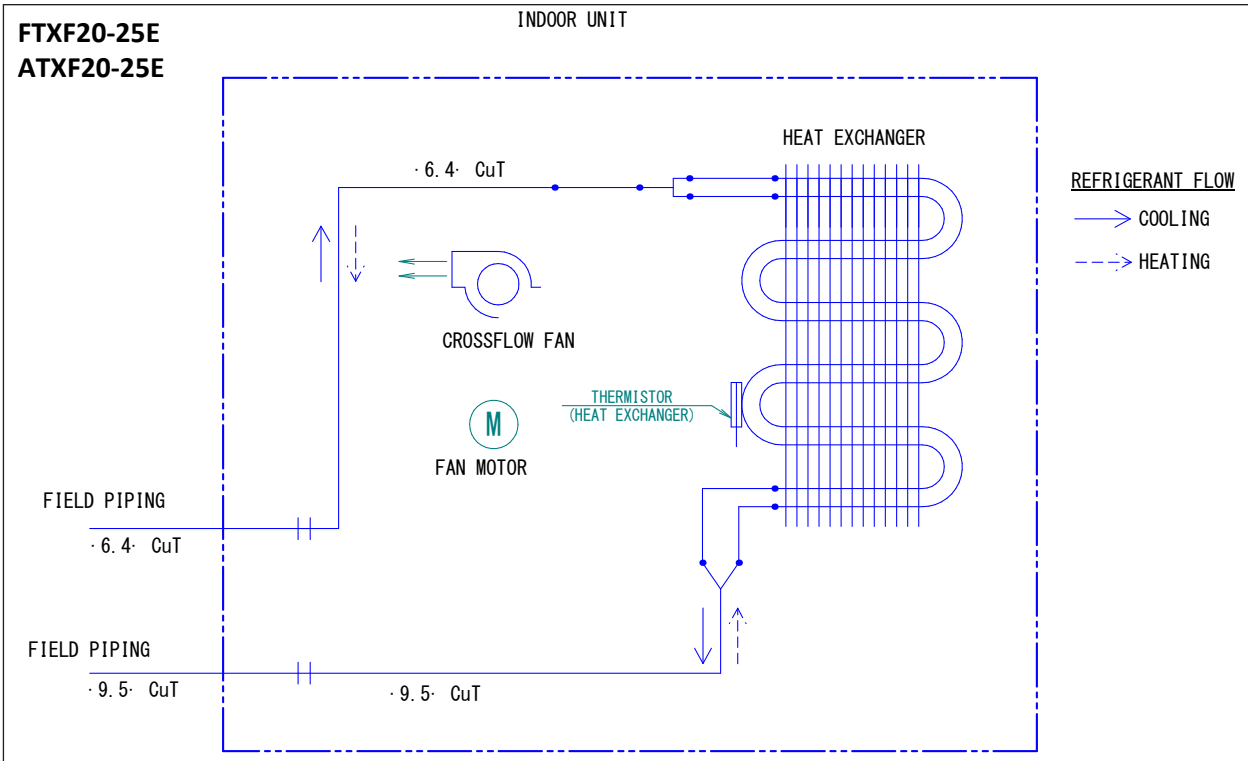
6 Piping diagrams

6 - 1 Piping Diagrams

FTXF20-25E
ATXF20-25E



Notes

1. Editable data for this drawing are available in the ·GDE (E-BOM)· system.

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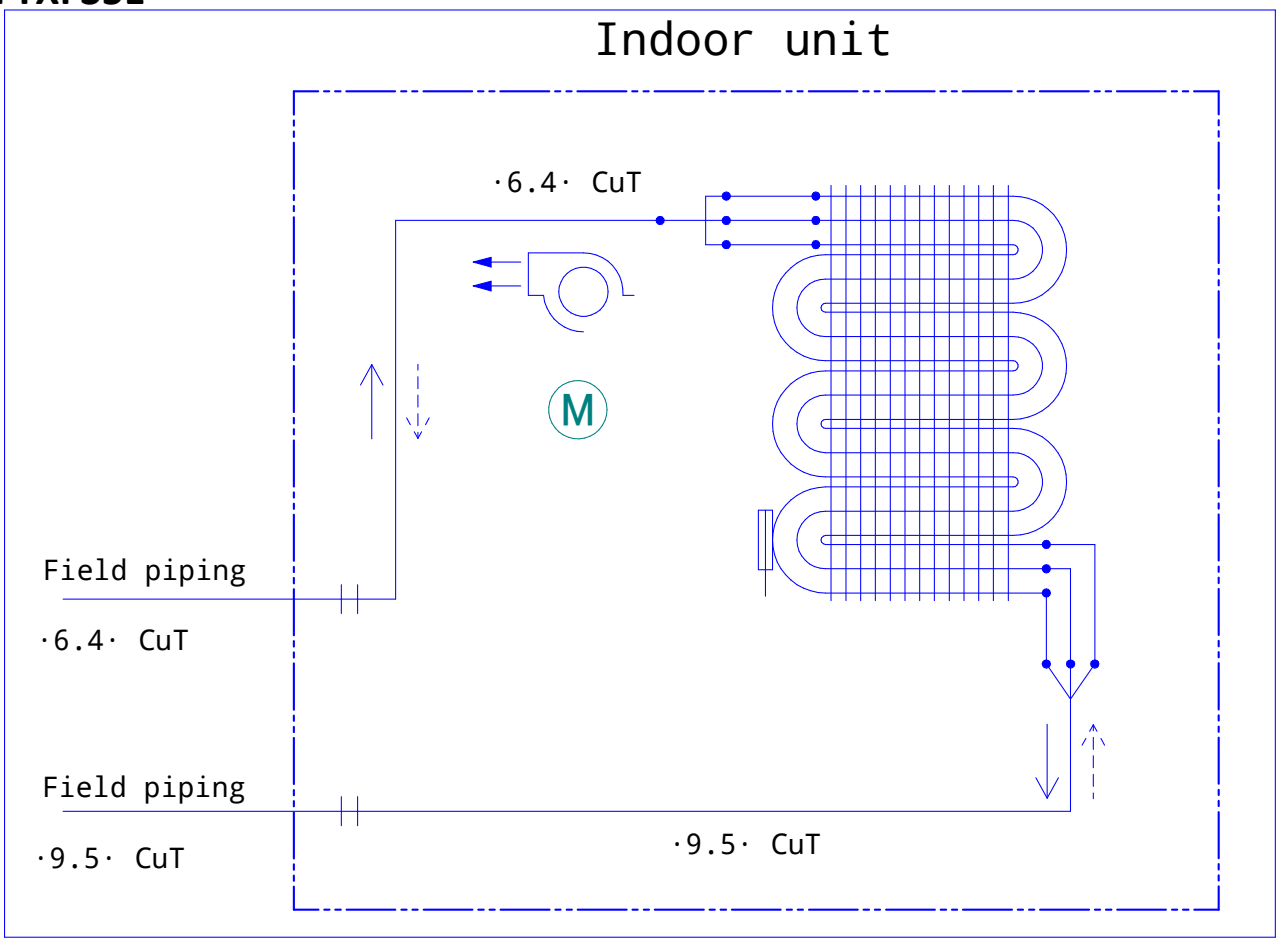
6 Piping diagrams

6 - 1 Piping Diagrams

ATXP20-25N
ATXF35E
FTXF35E



Refrigerant flow

Cooling

Heating

Crossflow fan

Fan motor

Thermistor (heat exchanger)

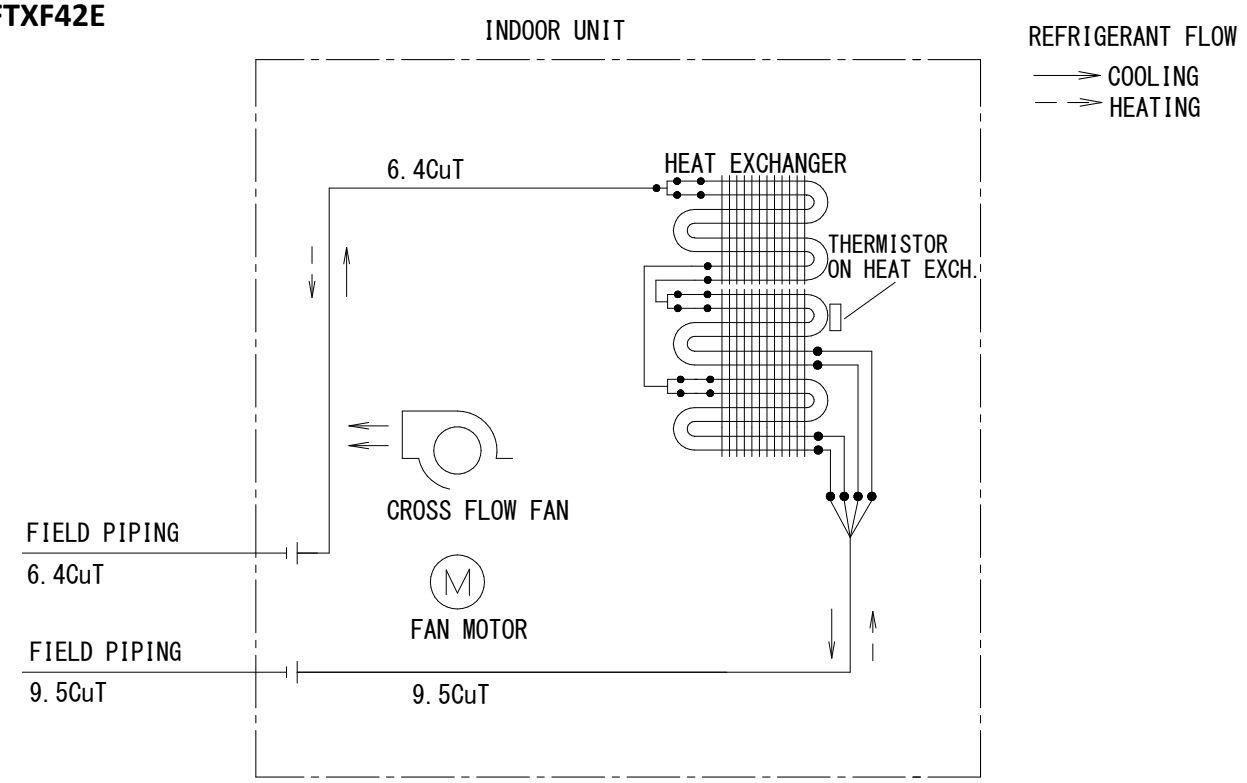
Heat exchanger

4D139891

6 Piping diagrams

6 - 1 Piping Diagrams

ATXF42E
FTXF42E



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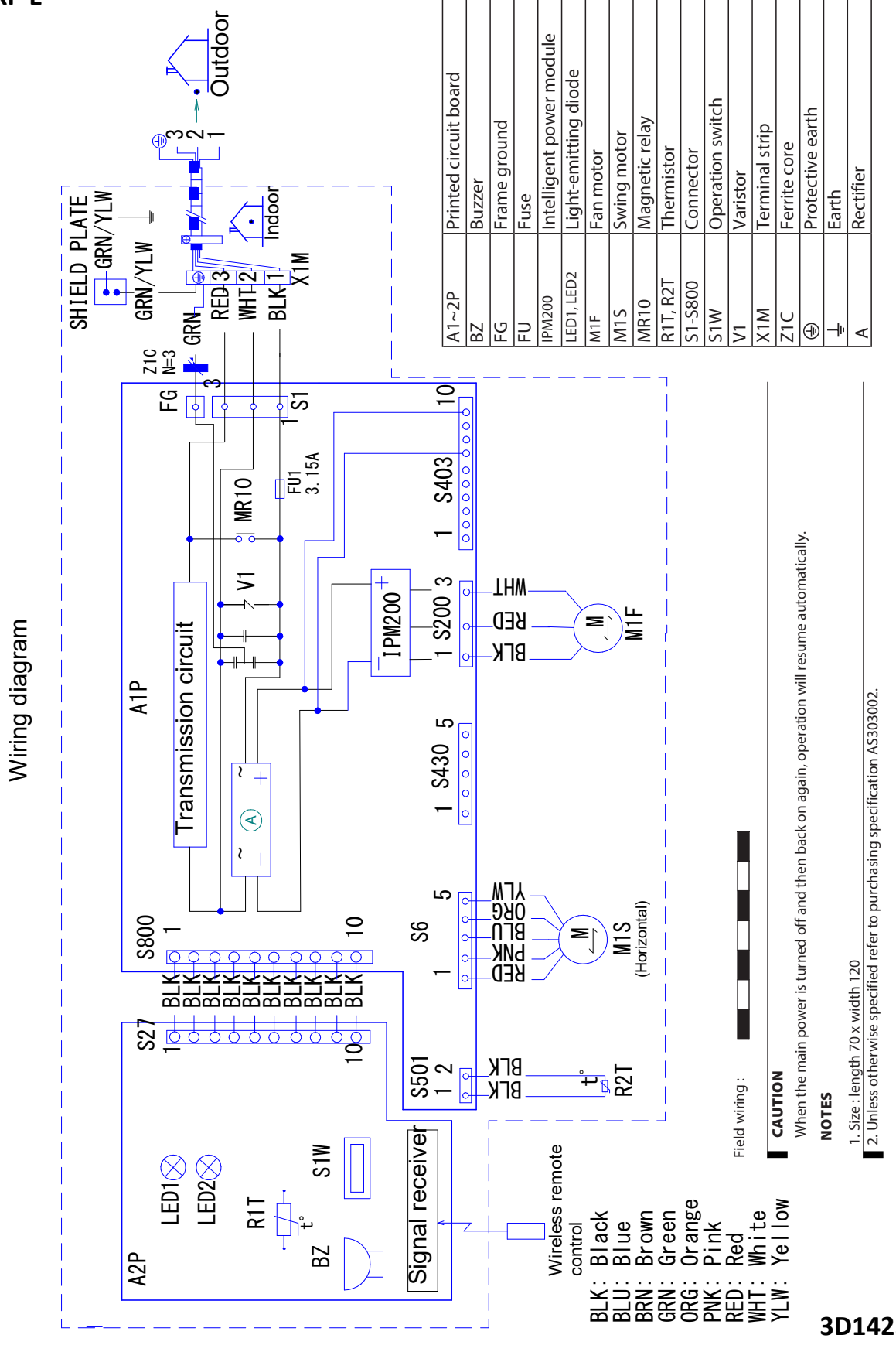
7 Wiring diagrams

7 - 1 Wiring Diagrams - Three Phase

ATXF-E
FTXF-E



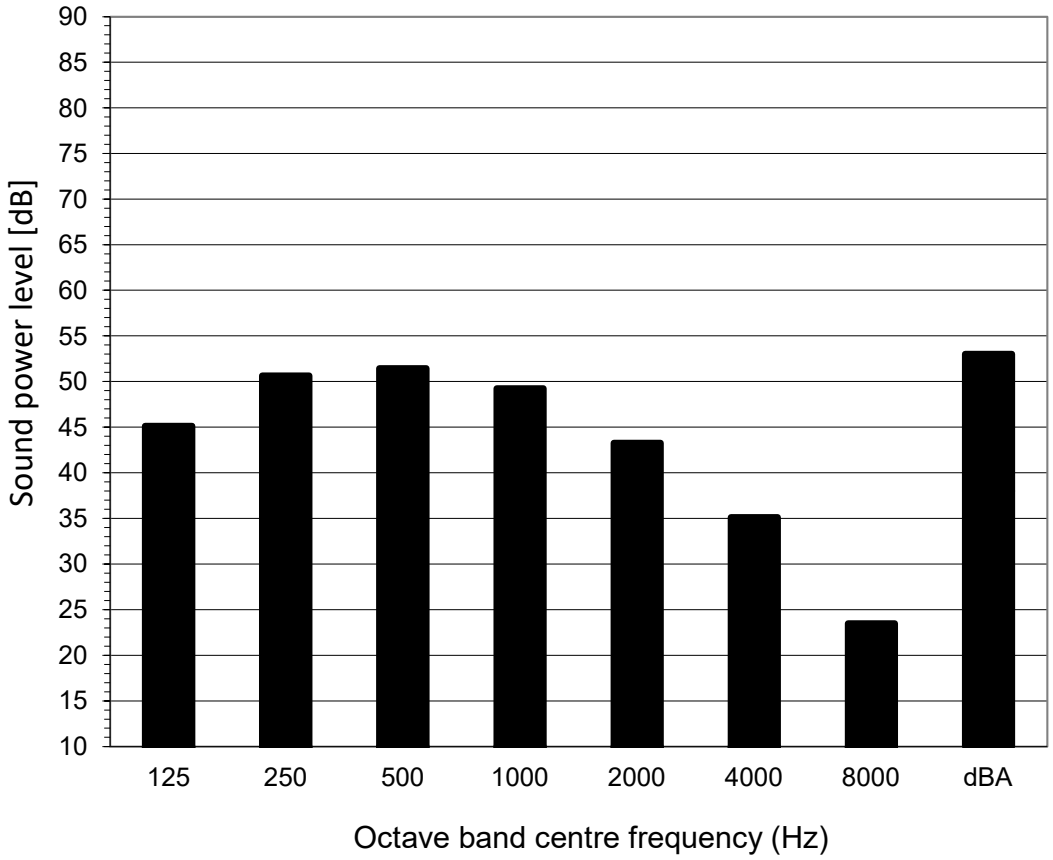
A1~2P	Printed circuit board
BZ	Buzzer
FG	Frame ground
FU	Fuse
IPM200	Intelligent power module
LED1, LED2	Light-emitting diode
M1F	Fan motor
M1S	Swing motor
MR10	Magnetic relay
R1T, R2T	Thermistor
S1-S800	Connector
S1W	Operation switch
V1	Varistor
X1M	Terminal strip
Z1C	Ferrite core
⏚	Protective earth
⏚	Earth
A	Rectifier

8 Sound data

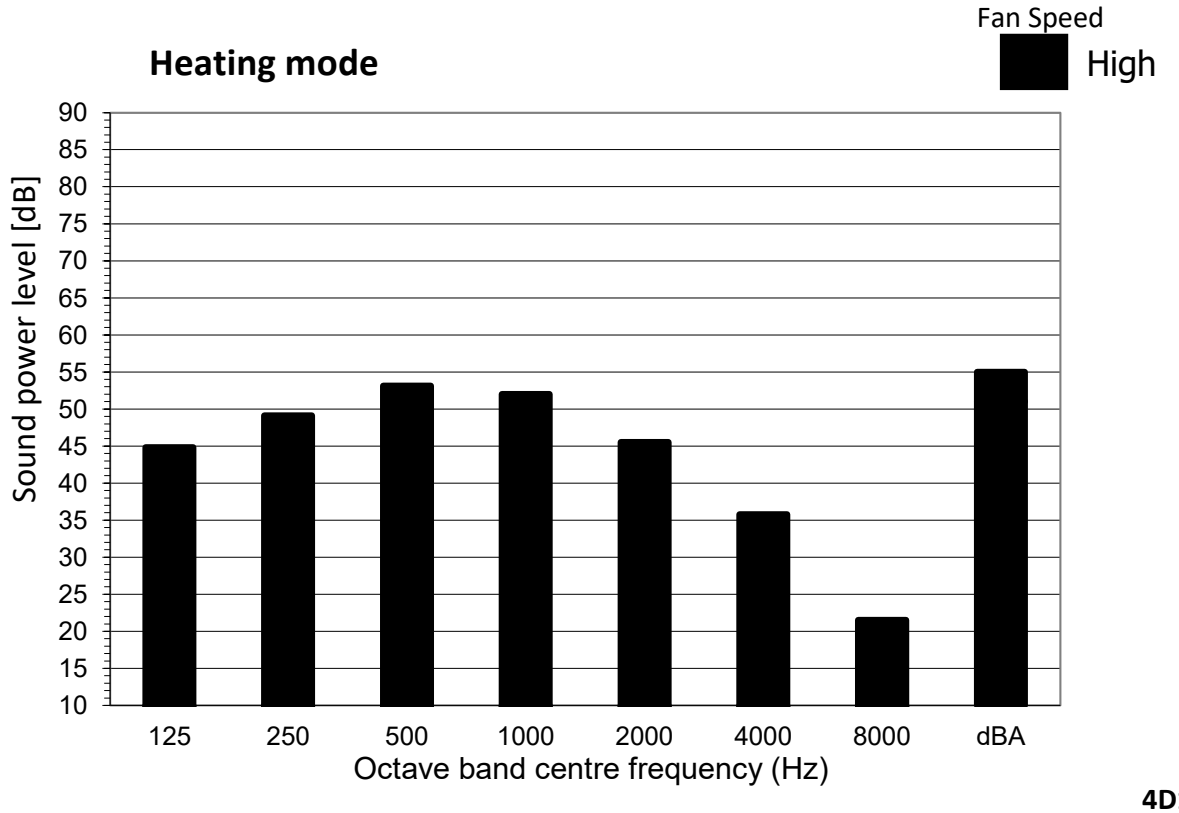
8 - 1 Sound Power Spectrum

ATXF20E
FTXF20E

Cooling mode



Heating mode



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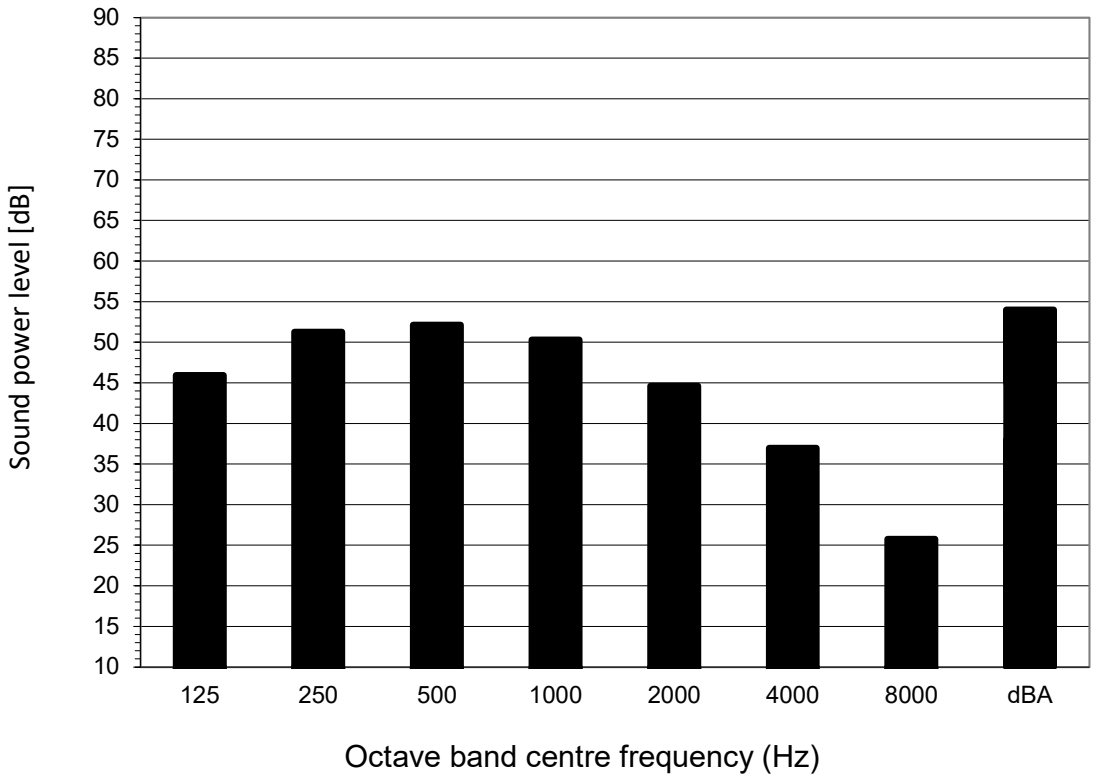
8 Sound data

8 - 1 Sound Power Spectrum

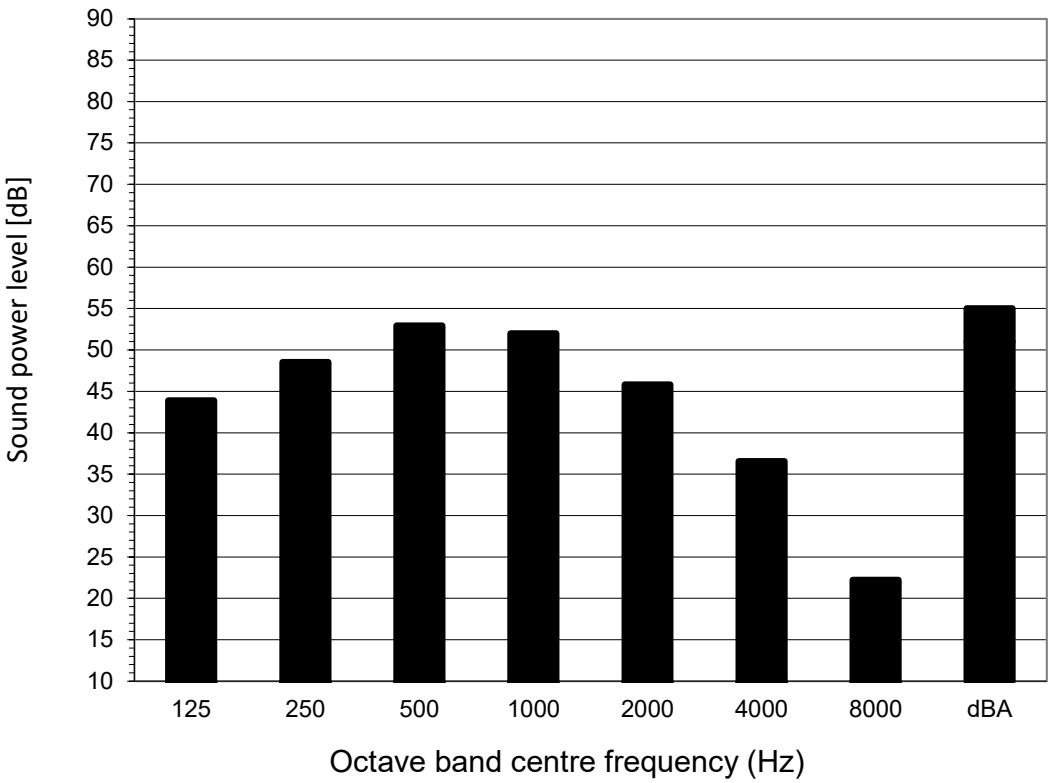
ATXF25E
FTXF25E **Cooling mode**



Fan Speed

High

Heating mode



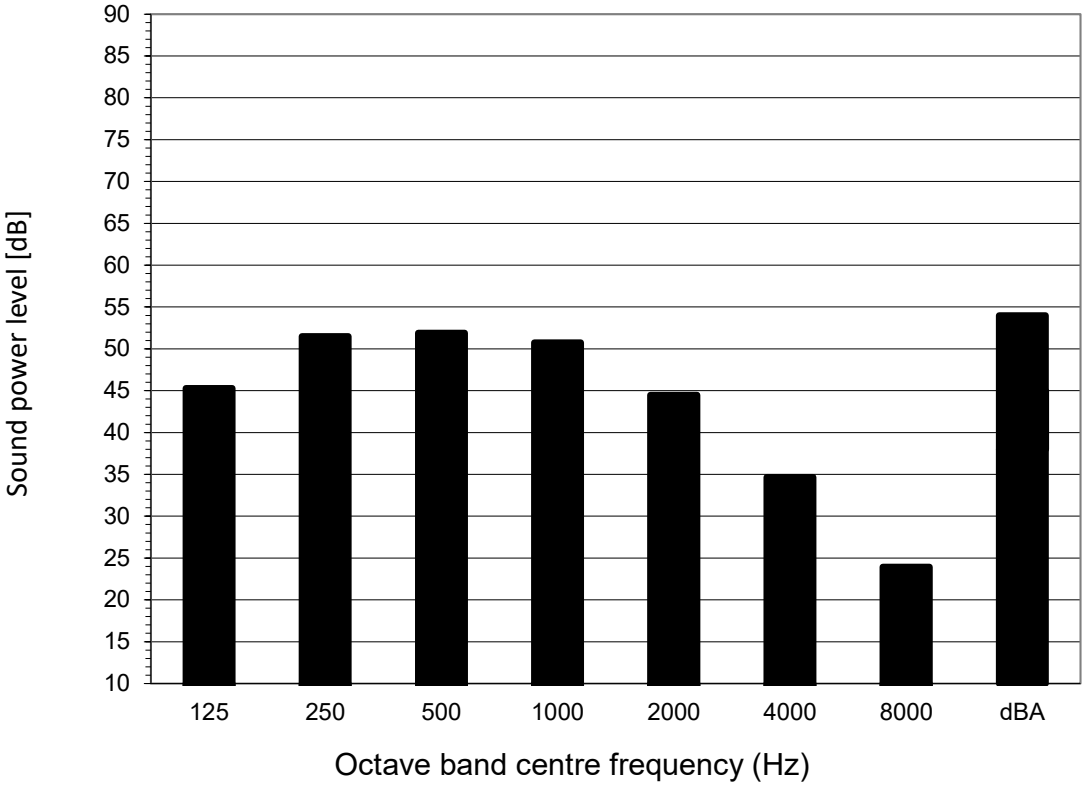
4D131987

8 Sound data

8 - 1 Sound Power Spectrum

ATXF35E
FTXF35E

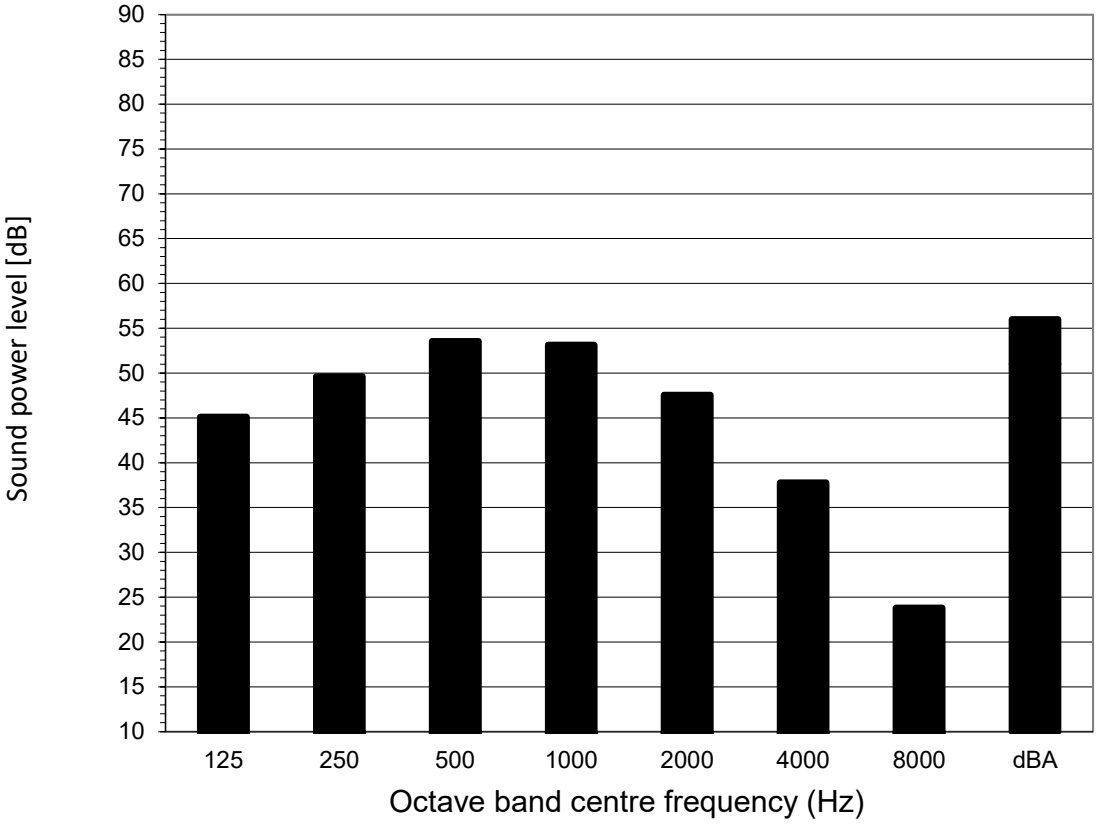
Cooling mode



Fan Speed

High

Heating mode



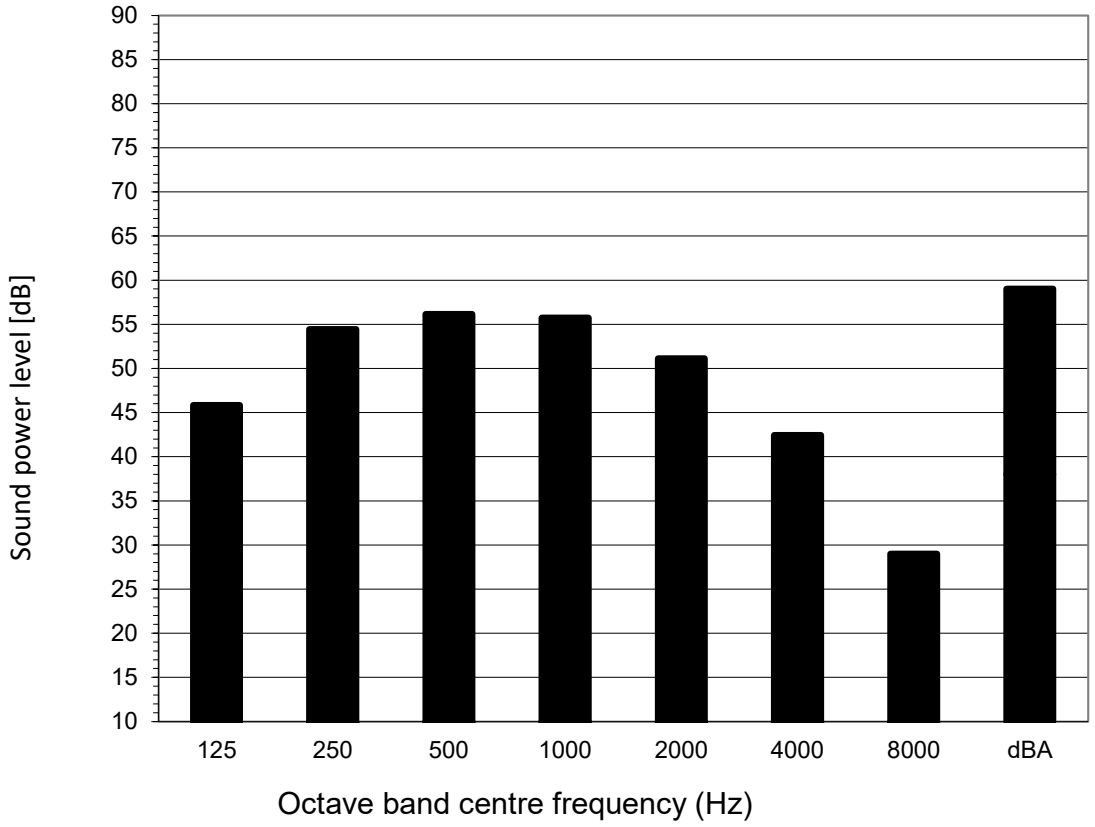
4D131988

8 Sound data

8 - 1 Sound Power Spectrum

ATXF42E
FTXF42E

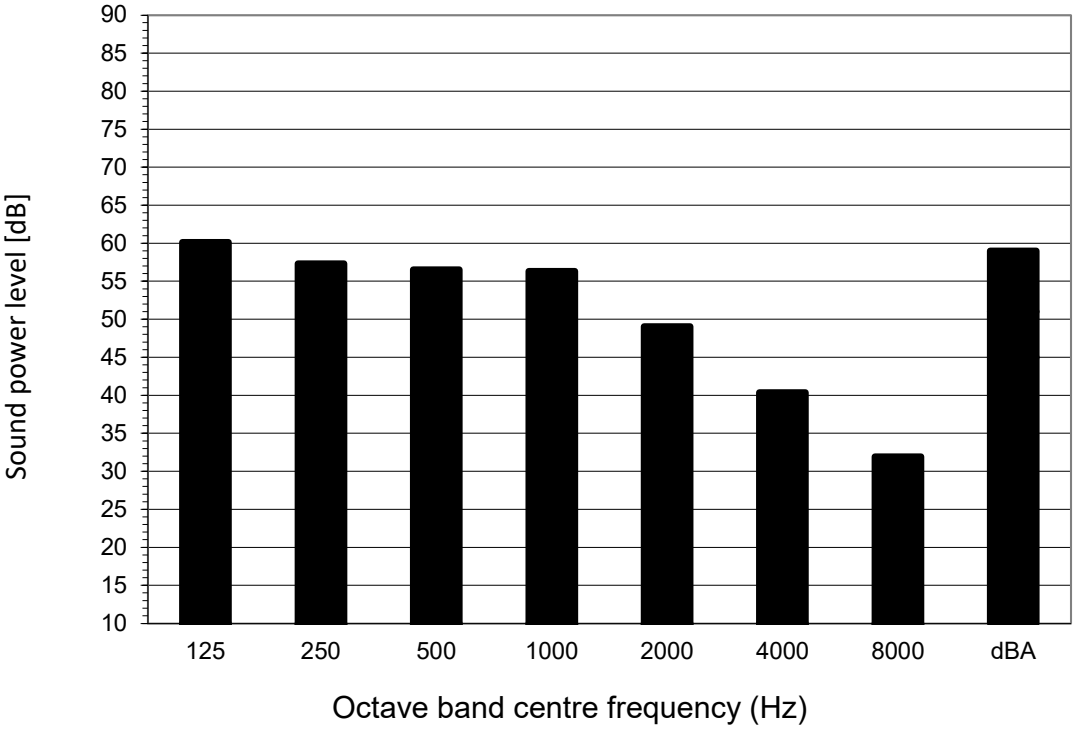
Cooling mode



Fan Speed

High

Heating mode



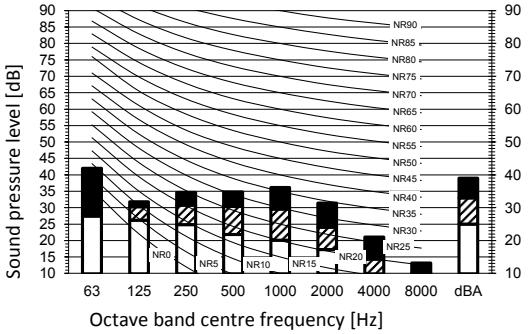
4D131989

8 Sound data

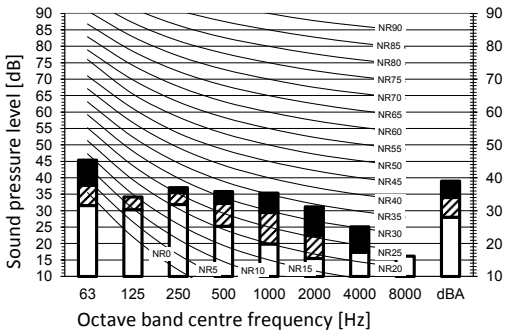
8 - 2 Sound Pressure Spectrum

ATXF20E
FTXF20E

Cooling mode



Heating mode



Legend

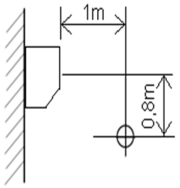
dBA = A-weighted sound pressure level (A scale according to IEC).

A Scale Fan speed
B High
C Medium
D Low

Cooling	Total dB		
A	B	C	D
dBA	39	33	25

Heating	Total dB		
A	B	C	D
dBA	39	34	28

Location of microphone



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

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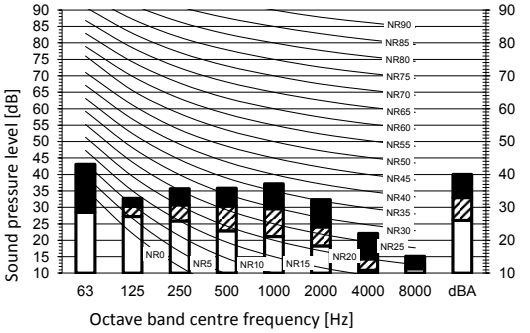
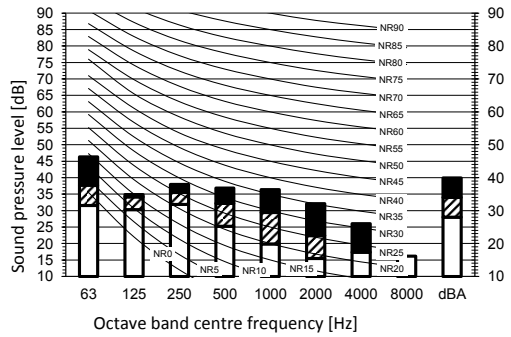
ATXF25E
FTXF25E

Cooling mode



Heating mode



Legend

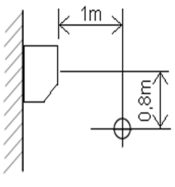
dBA = A-weighted sound pressure level (A scale according to IEC).

A Scale Fan speed
B High
C Medium
D Low

Cooling	Total dB		
A	B	C	D
dBA	40	33	26

Heating	Total dB		
A	B	C	D
dBA	40	34	28

Location of microphone



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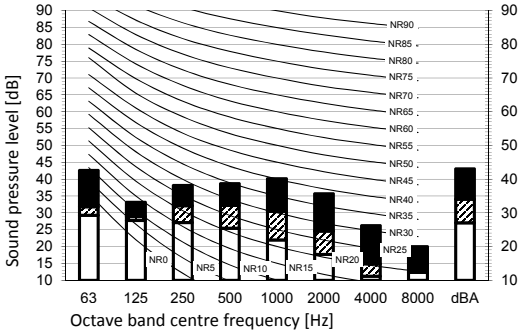
3D108790A

8 Sound data

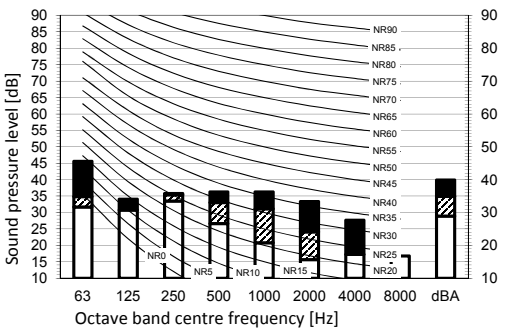
8 - 2 Sound Pressure Spectrum

ATXF35E
FTXF35E
ATXP35N

Cooling mode



Heating mode



Legend

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

A Scale Fan speed
B High
C Medium
D Low

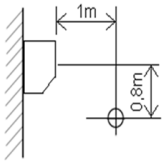
Cooling Total dB

A	B	C	D
dBA	43	34	27

Heating Total dB

A	B	C	D
dBA	40	35	29

Location of microphone



Notes

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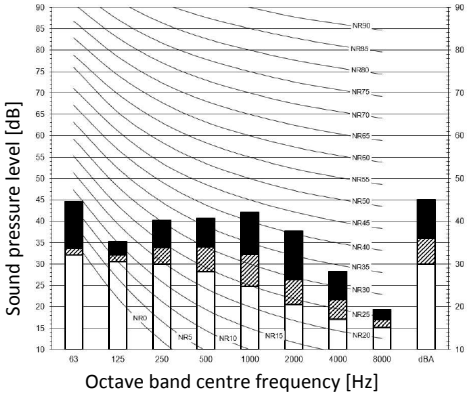
3. Operating noise varies depending on operation and ambient conditions.
4. The operation noise measuring method is in accordance with JISC9612.
5. Measuring location: anechoic chamber

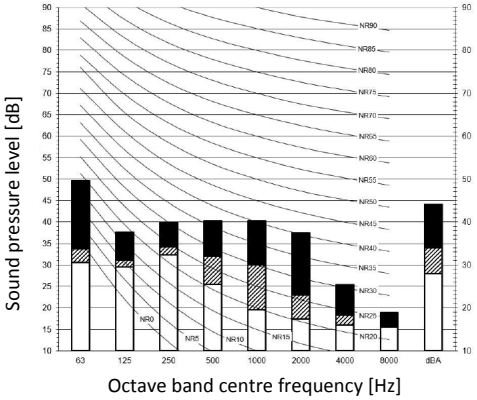
3D108791A

ATXF42E
FTXF42E

Cooling mode



Heating mode



Legend

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

A Scale Fan speed
B High
C Medium
D Low

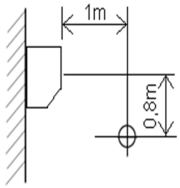
Cooling Total dB

A	B	C	D
dBA	45	36	30

Heating Total dB

A	B	C	D
dBA	44	34	28

Location of microphone



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

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