

Air Conditioning
Technical Data

FTXM-N



- > FTXM20N2V1B
- > FTXM25N2V1B
- > FTXM35N2V1B
- > FTXM42N2V1B
- > FTXM50N2V1B
- > FTXM60N2V1B

- > FTXM71N2V1B

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FTXM-N

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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: 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

1



								
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	practically inaudible
								
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	Air 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				FTXM20N	FTXM25N	FTXM35N	FTXM42N	FTXM50N	FTXM60N	FTXM71N		
Power input	Cooling	Nom.	kW	0.030		0.034	0.035	0.030	0.032	0.054		
	Heating	Nom.	kW	0.025	0.026		0.036	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			10.0				14.5				
	Packed unit			12.0				17				
Packing	Weight			2.0				2.5				
Heat exchanger	Length		mm	610				820				
	Rows	Quantity		2								
	Fin pitch		mm	1.4								
	Stages	Quantity		18								
	Passes	Quantity		2.2	3.0		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	1.4								
	Stages	Quantity		8								
Air filter	Type		Removable / washable									
Fan	Type		Cross flow fan									
	Air flow rate	Cooling	High	m³/min	11.1		12.3	12.6	16.1	17.1	17.6	
				cfm	392		434	445	568	604	621	
			Medium	m³/min	7.9	8.1	8.3	9.5	14.2	14.6	15.0	
				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 operation	m³/min	4.4		4.6		8.1	9.1	10.1		
			cfm	155		162		286	321	356		
		Heating	High	m³/min	10.8			13.0	17.1	17.7	18.4	
				cfm	381			459	604	625	648	
			Medium	m³/min	8.7		9.0	10.4	14.6	15.6	16.2	
				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 operation	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/Medium/Low/Silent operation	rpm	1,070/800/640/520	1,070/820/660/520	1,170/840/680/530	1,190/940/730/530	1,010/910/780/600	1,060/930/800/650	1,080/950/820/700	
				Heating	High/Medium/Low/Silent operation	rpm	1,030/860/690/590	1,030/860/710/590	1,030/900/730/590	1,250/1,000/730/590	1,060/930/810/730	1,090/980/830/760
Output	Rated	W	22				46		52			
Sound power level	Cooling			dBA	57		58	60	58	60		

2 Specifications

2

2-1 Technical Specifications				FTXM20N	FTXM25N	FTXM35N	FTXM42N	FTXM50N	FTXM60N	FTXM71N
Sound pressure level	Cooling	High/Medium/ Low/Silent operation	dBA	41/33/25/19		45/33/29/19	45/39/30/21	44/40/36/27	46/42/37/30	47/43/38/32
	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			BRC073A1						
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;
- Standard Accessories : WLAN adapter kit; Quantity : 1;

2-2 Electrical Specifications				FTXM20N	FTXM25N	FTXM35N	FTXM42N	FTXM50N	FTXM60N	FTXM71N
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)					

Notes

Cooling: indoor temp. 27°CDB, 19.0°CWB; outdoor temp. 35°CDB, 24°CWB; equivalent piping length: 5m

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

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

3 Options

3 - 1 Options

CTXM-N
FTXM-N

Option kit	Product name	Applicable models										Class	Casing	Factory		
		CTXM15N2V1B	FTXM20N2V1B	FTXM25N2V1B	FTXM35N2V1B	FTXM42N2V1B	FTXM50N2V1B	FTXM60N2V1B	FTXM71N2V1B	ATXM20N2V1B	ATXM25N2V1B				ATXM35N2V1B	ATXM50N2V1B
Wired remote control	BRC073A1	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Extension cord for wired remote control (3m)	BRCW901A03	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Extension cord for wired remote control (8m)	BRCW901A08	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Wiring adaptor (normal open contact - normal open pulse contact)	KRP413AB1S	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Interface adaptor for DIII-NET	KRP928BB2S	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Central remote control	DCS302CA51	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Unified ON/OFF controller	DCS301BA51	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Schedule timer	DST301BA51	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

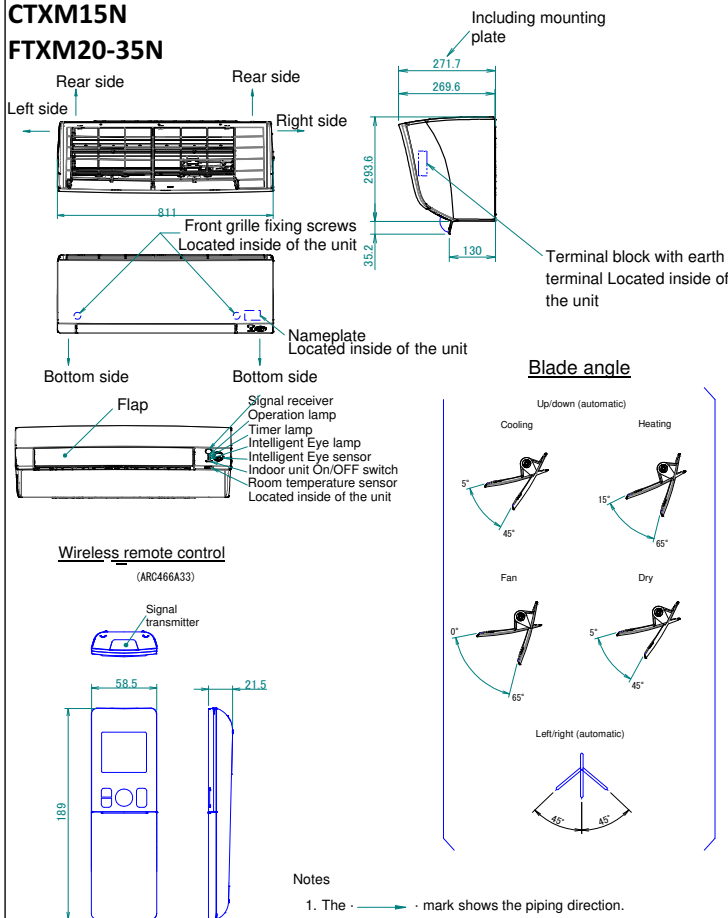
3D120481

4 Dimensional drawings

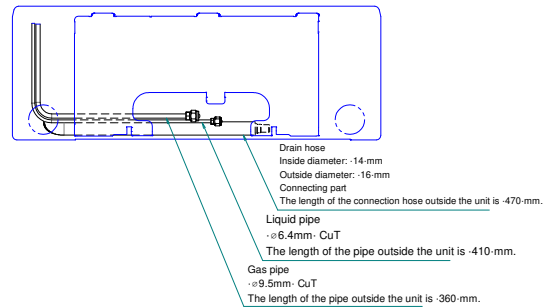
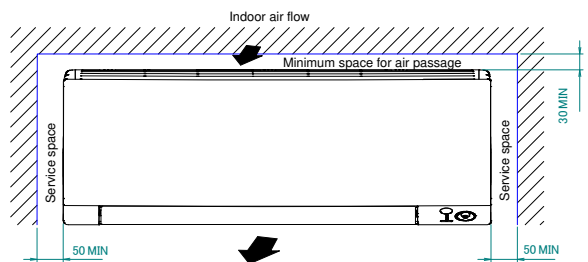
4 - 1 Dimensional Drawings

CTXM15N

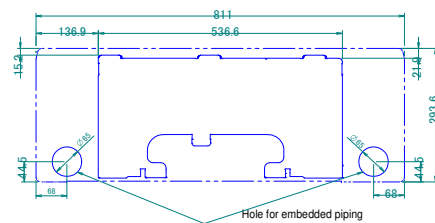
FTXM20-35N



Required space for service and ventilation

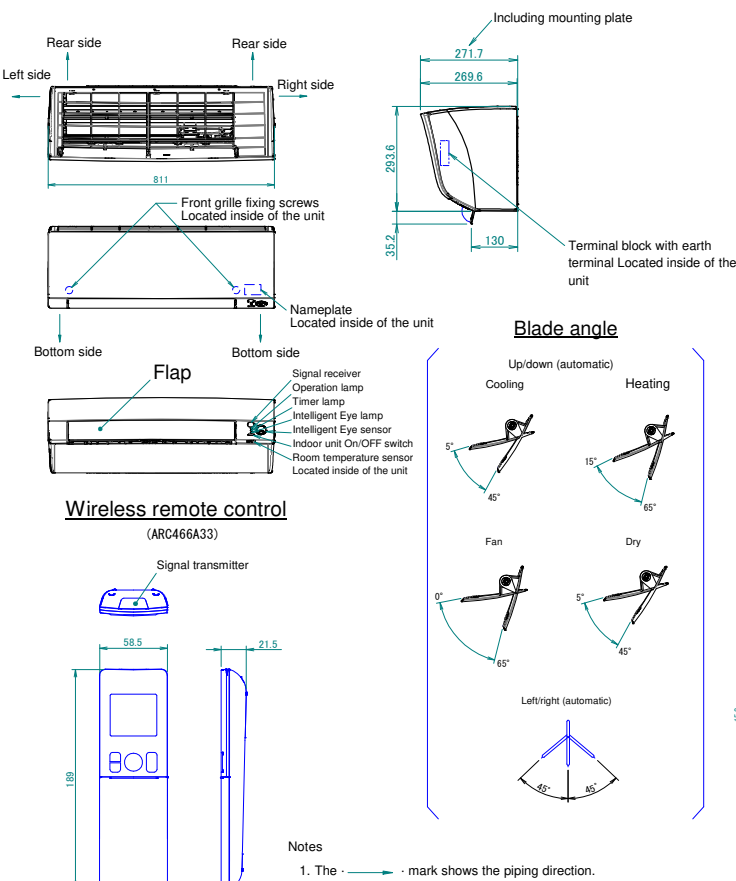


Standard location of holes in the wall

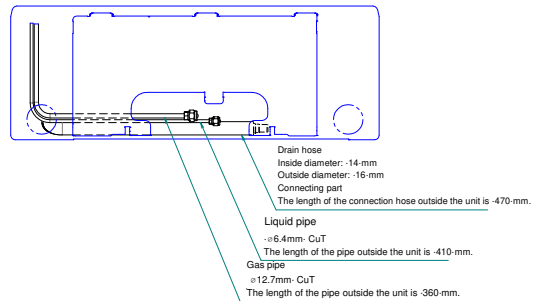
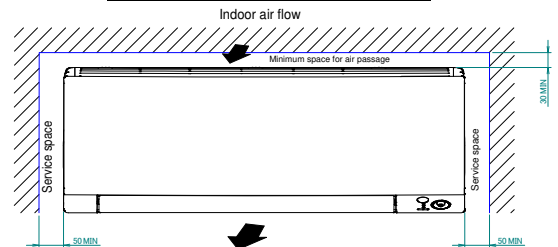


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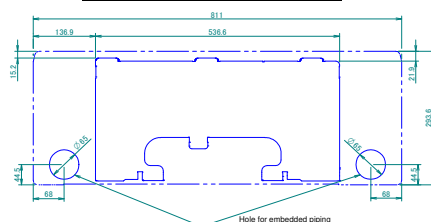
FTXM42N



Required space for service and ventilation



Standard location of holes in the wall



2D120662

4 Dimensional drawings

4 - 1 Dimensional Drawings

FTXM50-60N

The mark shows the piping direction.

Notes

- Total width of unit
- Width of unit against the wall

3D101370B

FTXM71N

The mark shows the piping direction.

Notes

- Total width of unit
- Width of unit against the wall

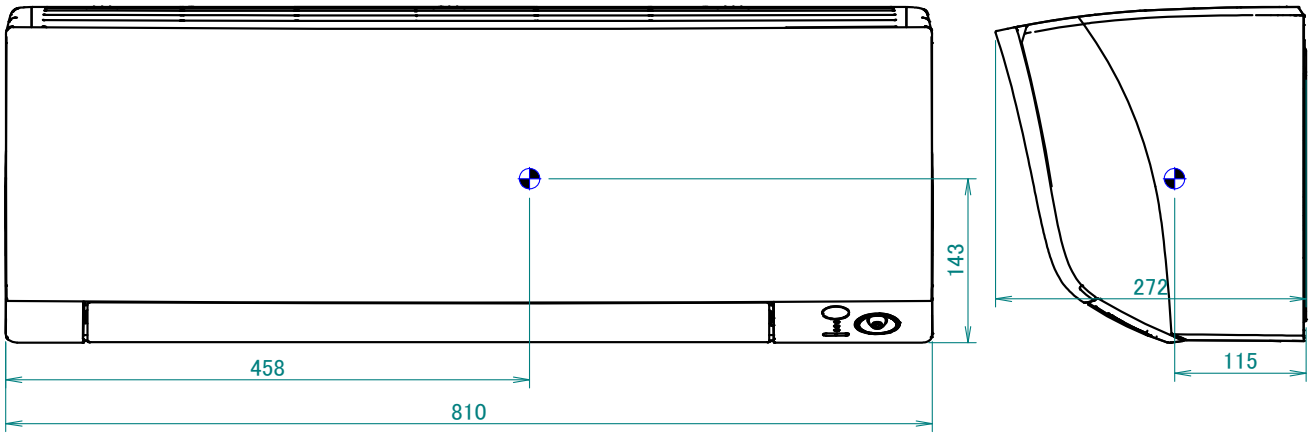
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5 Centre of gravity

5 - 1 Centre of Gravity

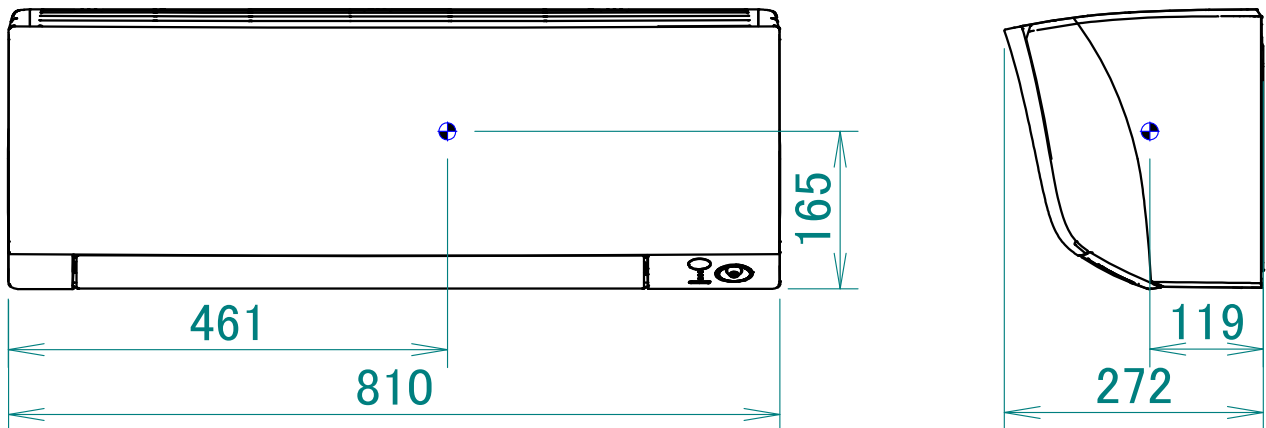
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CTXM15N
FTXM20N



4D100152A

FTXM25-35N

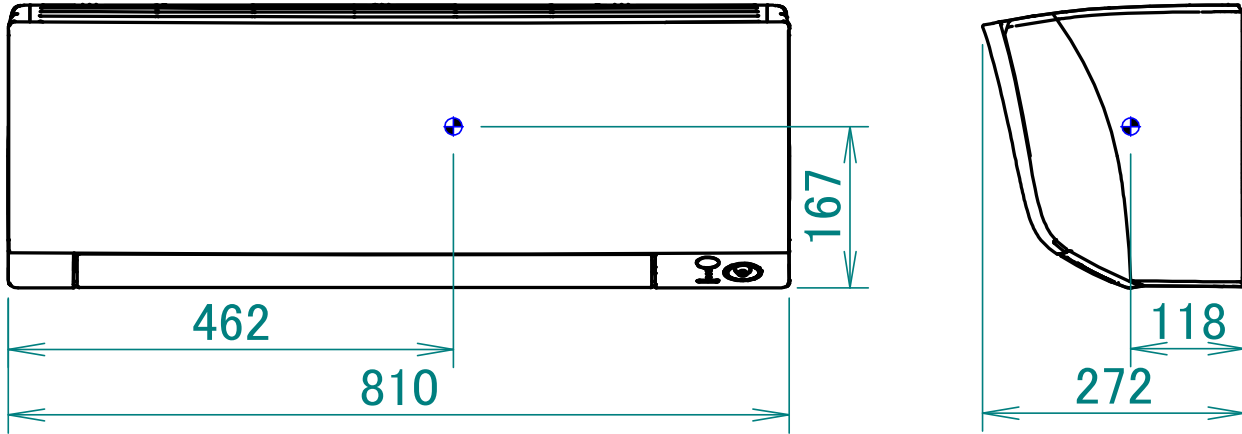


4D120672

5 Centre of gravity

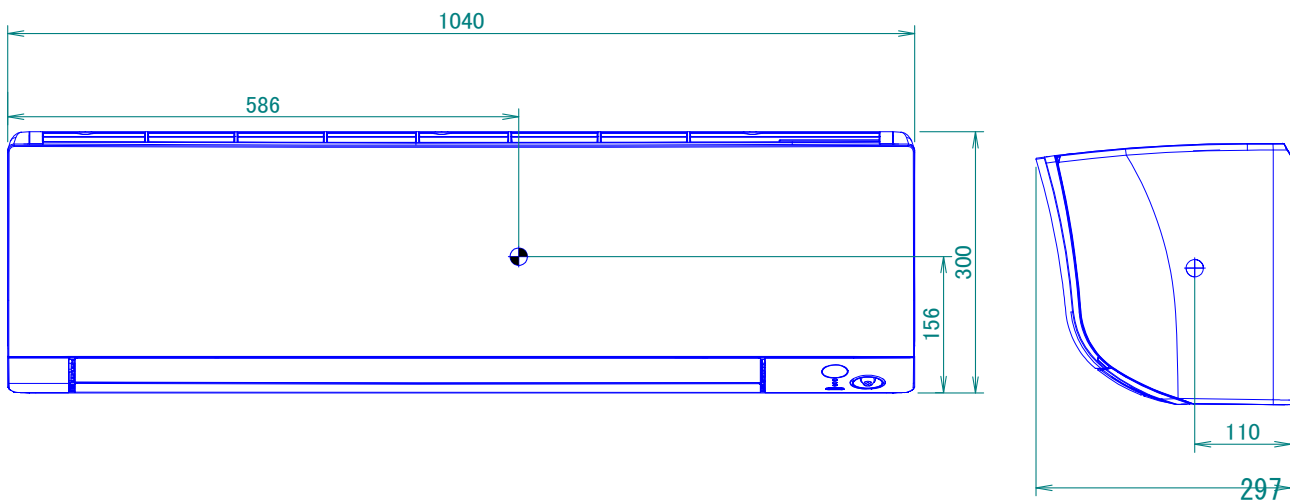
5 - 1 Centre of Gravity

FTXM42N



4D120673

FTXM50-71N

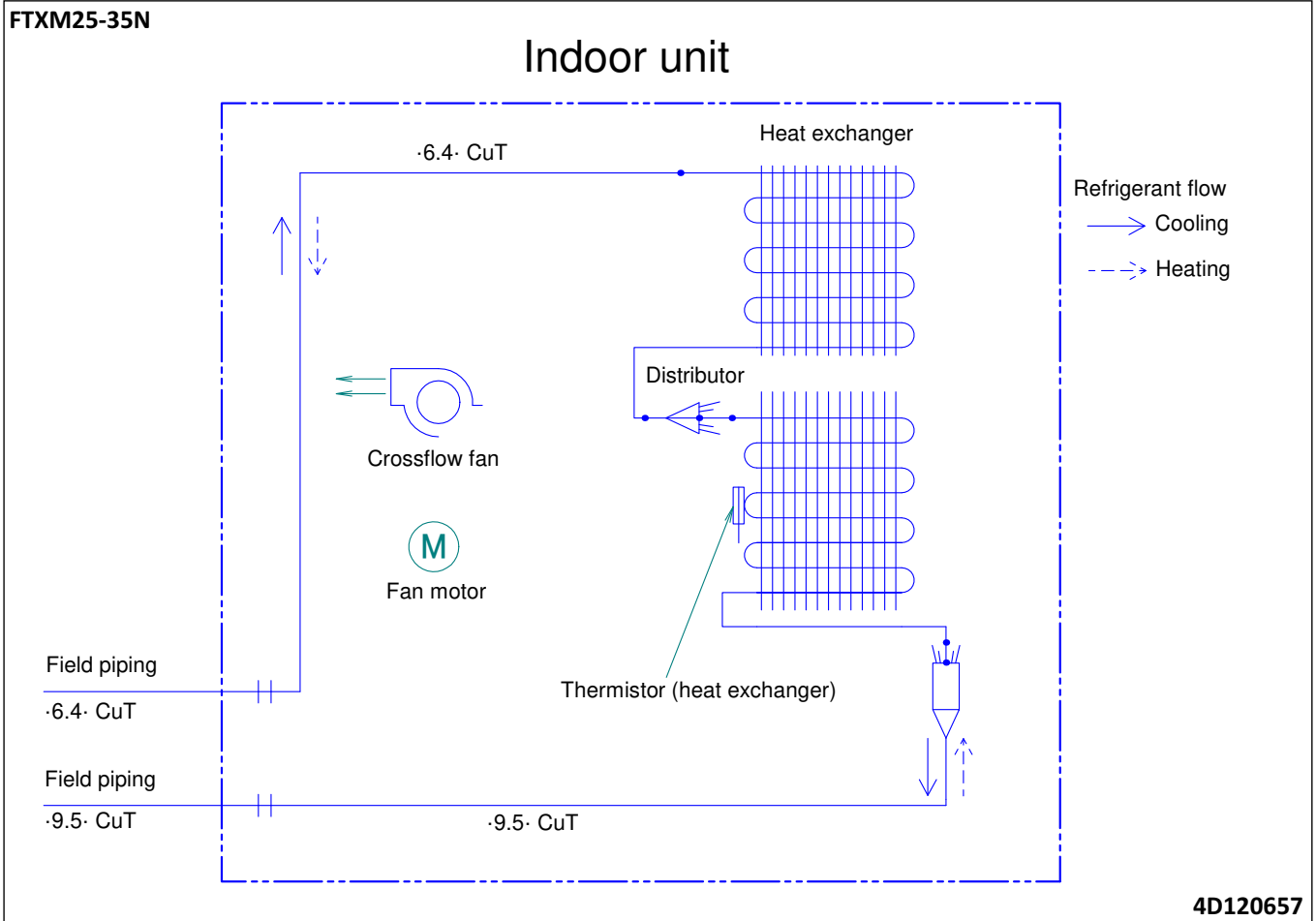
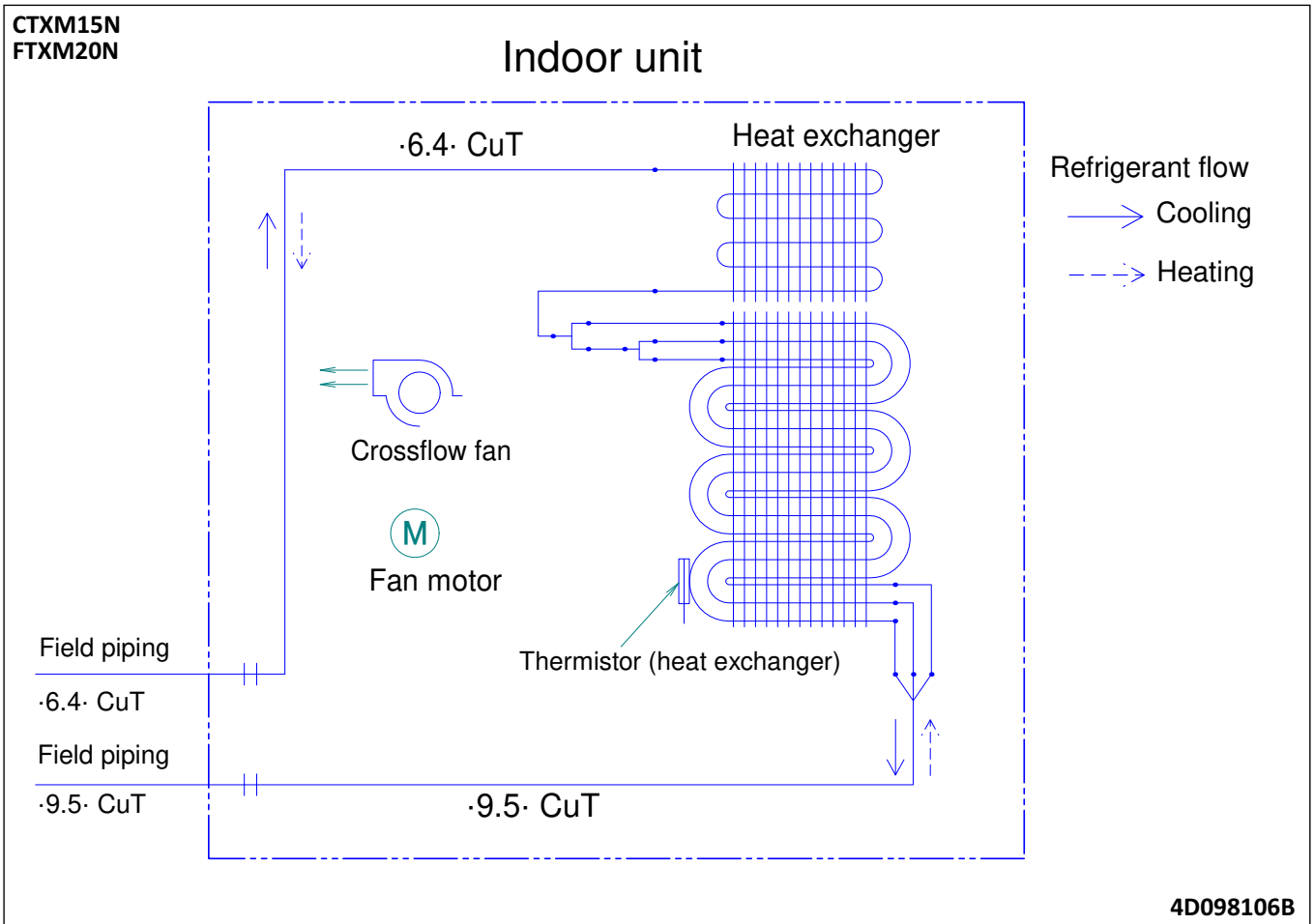


4D101334

6 Piping diagrams

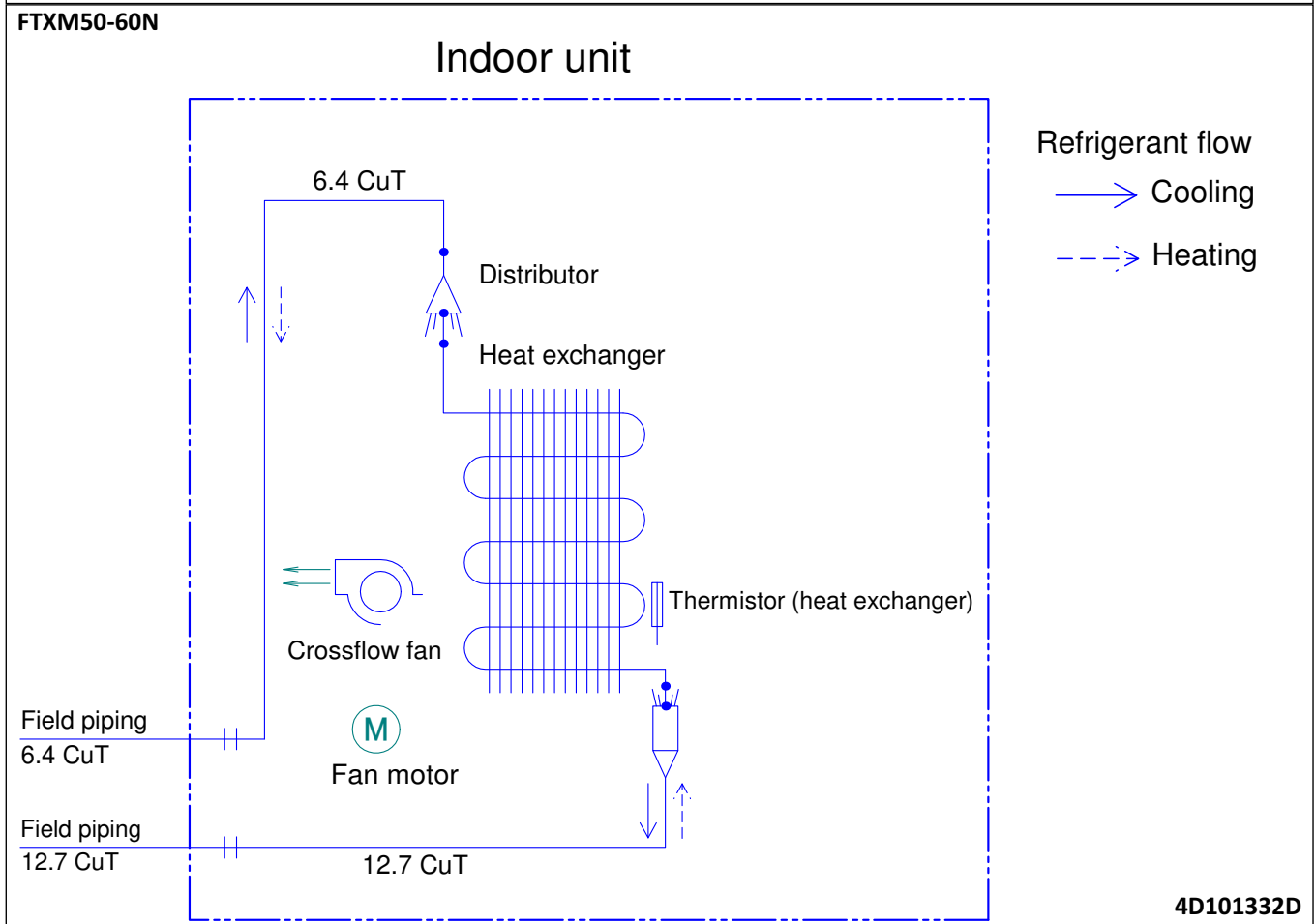
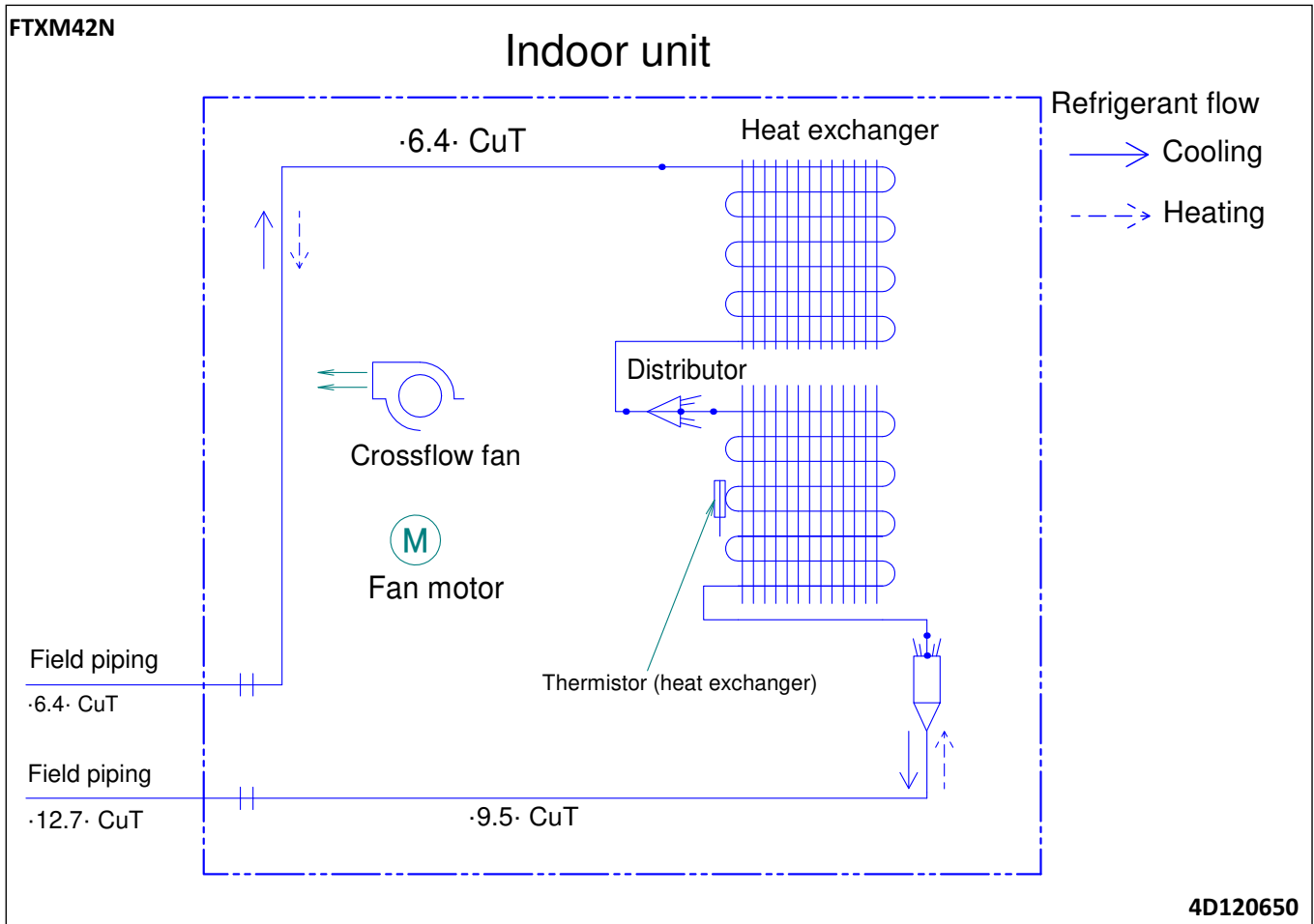
6 - 1 Piping Diagrams

6



6 Piping diagrams

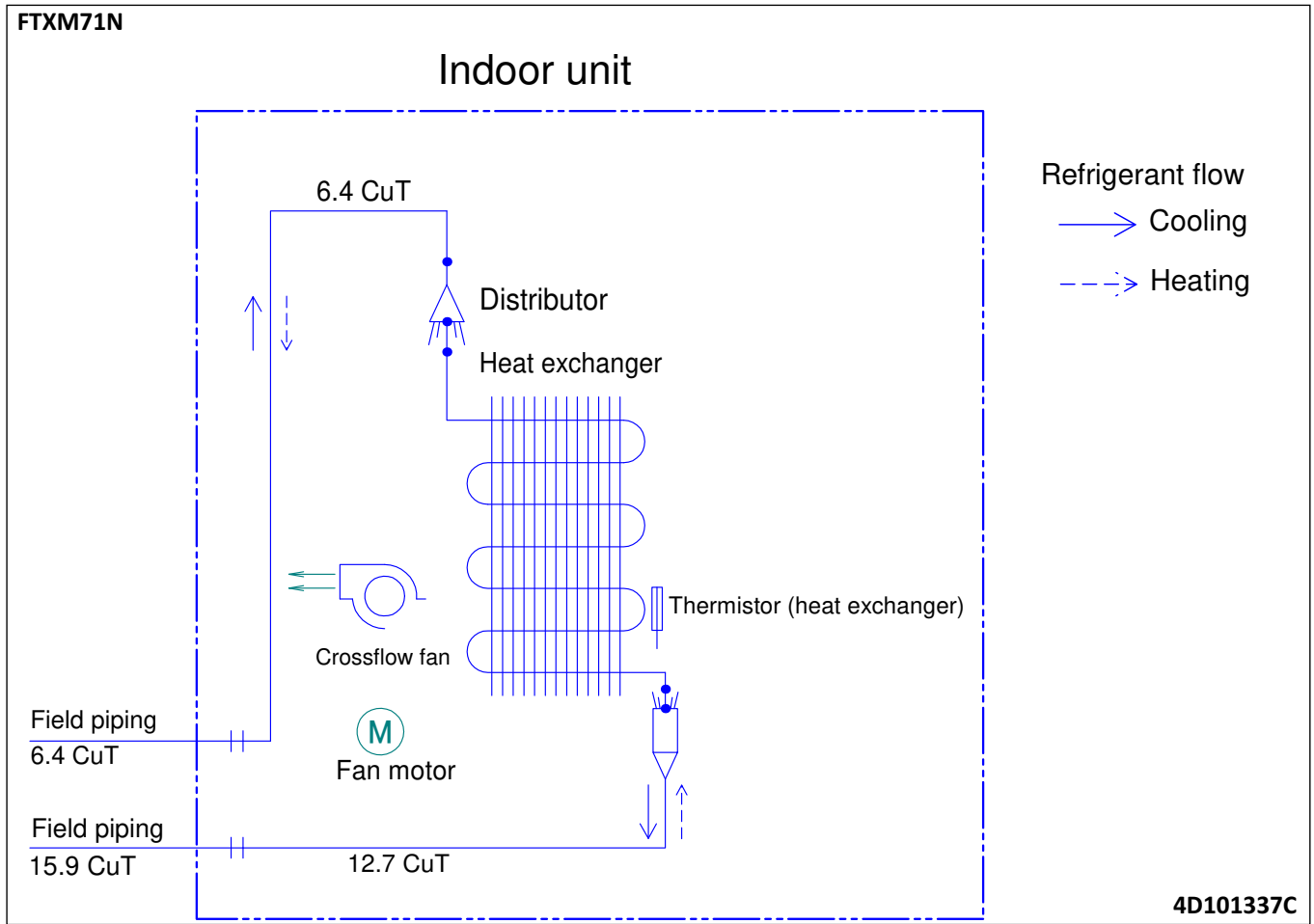
6 - 1 Piping Diagrams



6 Piping diagrams

6 - 1 Piping Diagrams

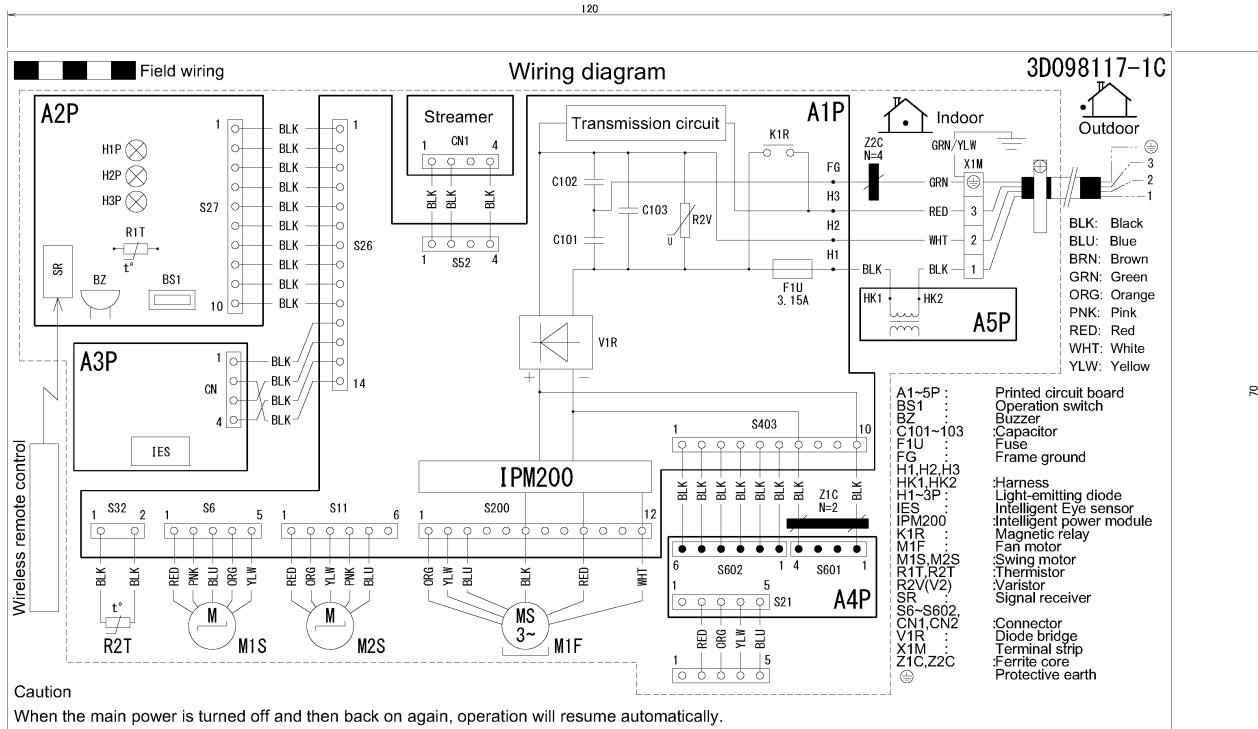
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7 Wiring diagrams

7 - 1 Wiring Diagrams - Single Phase

CTXM15N FTXM20-42N

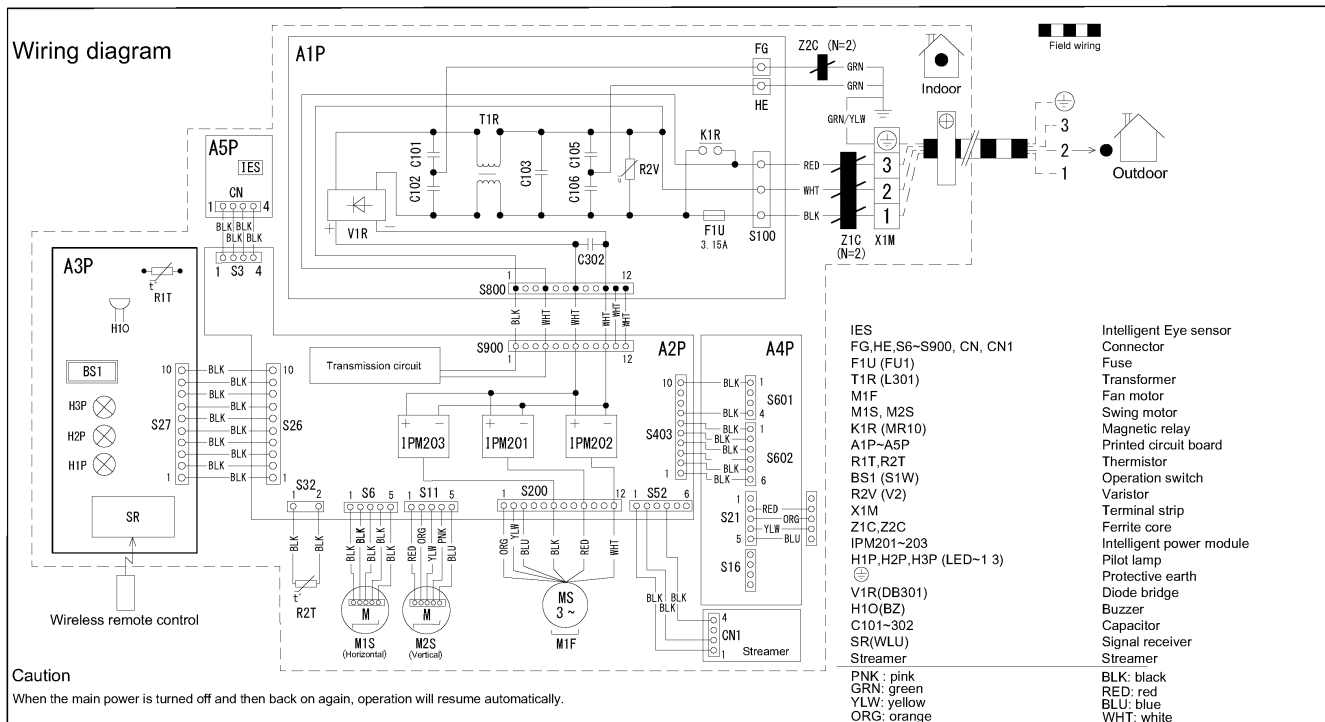


Notes

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

3D098117D

FTXM50-71N



NOTES:

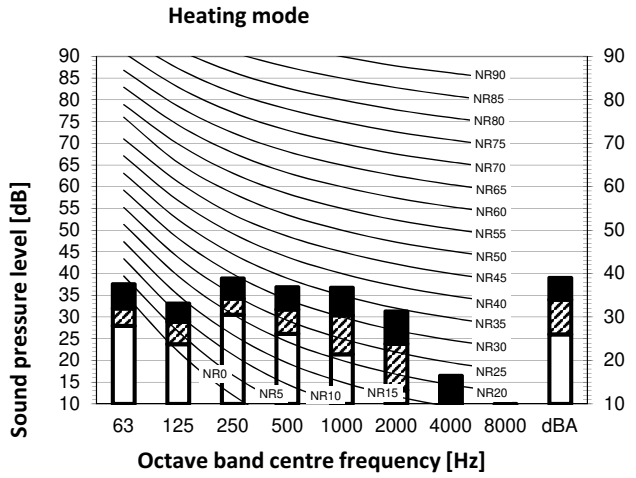
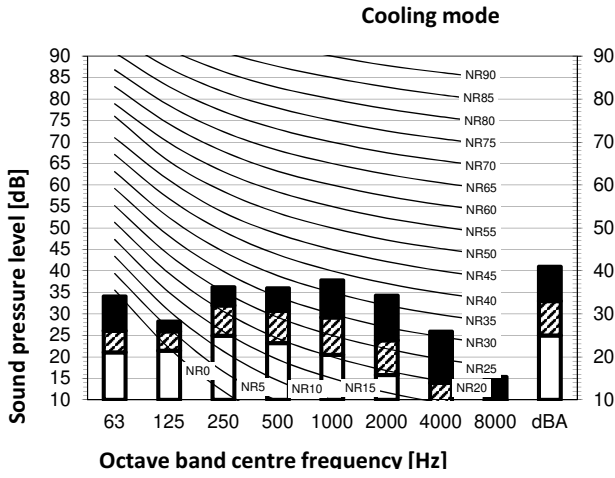
1. Size: length ·65· X width ·110·.
2. Refer to purchasing specification ·AS303002·, unless otherwise specified.

3D100231B

8 Sound data

8 - 1 Sound Pressure Spectrum

CTXM15N
FTXM20N



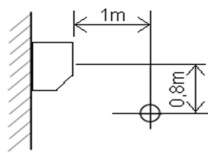
Legend

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

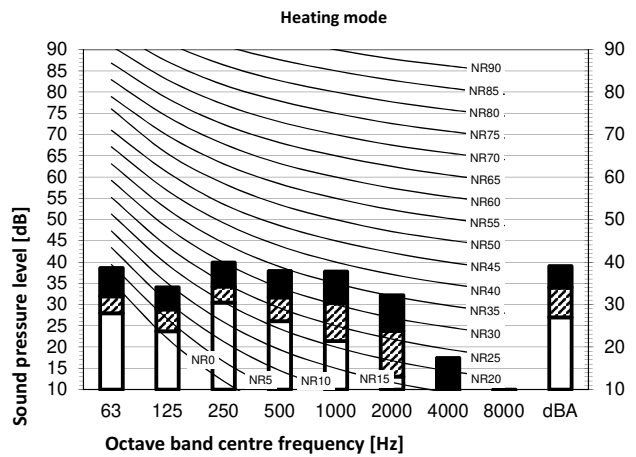
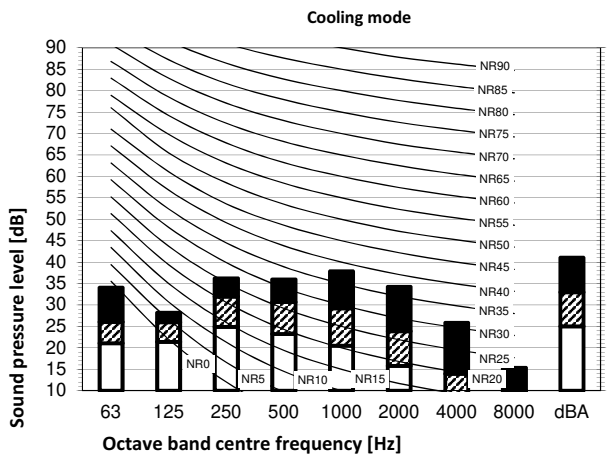
	A	B	C	D
dBA	39	34	26	

Notes

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

3D101042B

FTXM25N



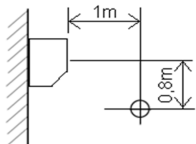
Legend

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

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

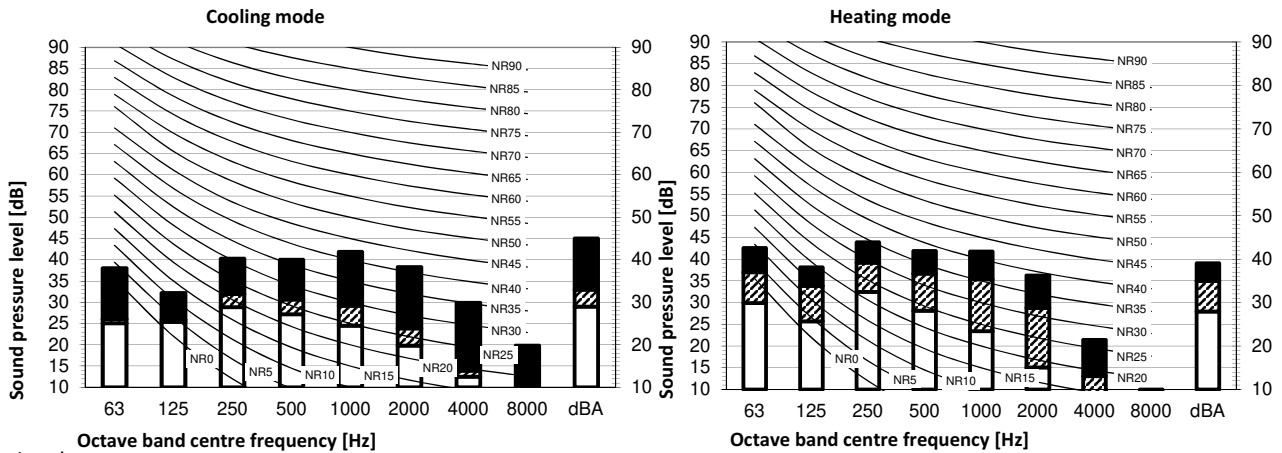
3D101043B

8 Sound data

8 - 1 Sound Pressure Spectrum

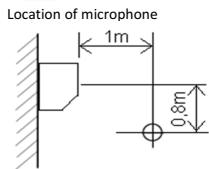
8

FTXM35N



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

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



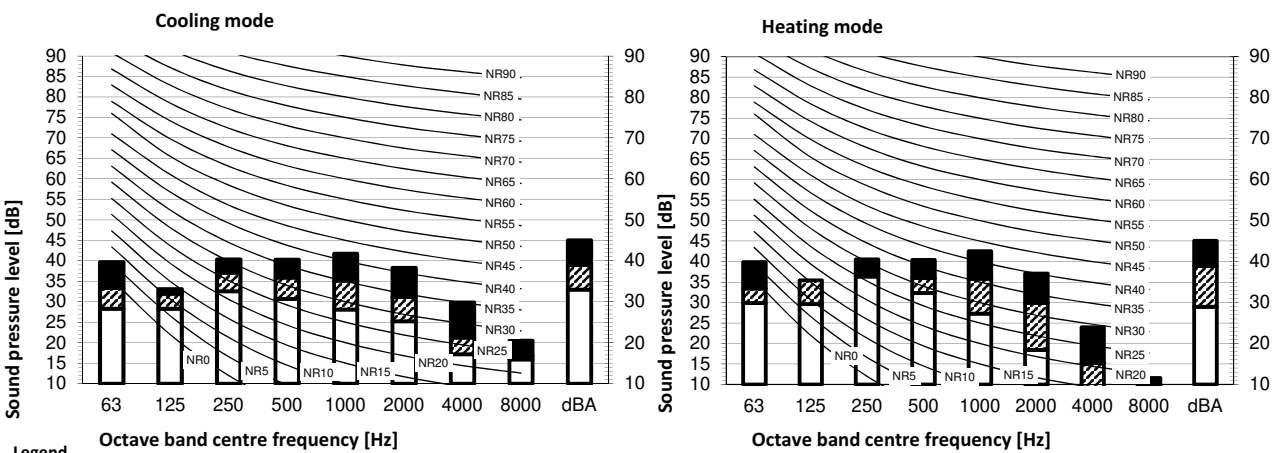
Cooling				Heating			
Total dB				Total dB			
A	B	C	D	A	B	C	D
dBA	45	33	29	dBA	39	35	28

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

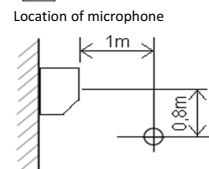
3D101044B

FTXM42N



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

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



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

Notes

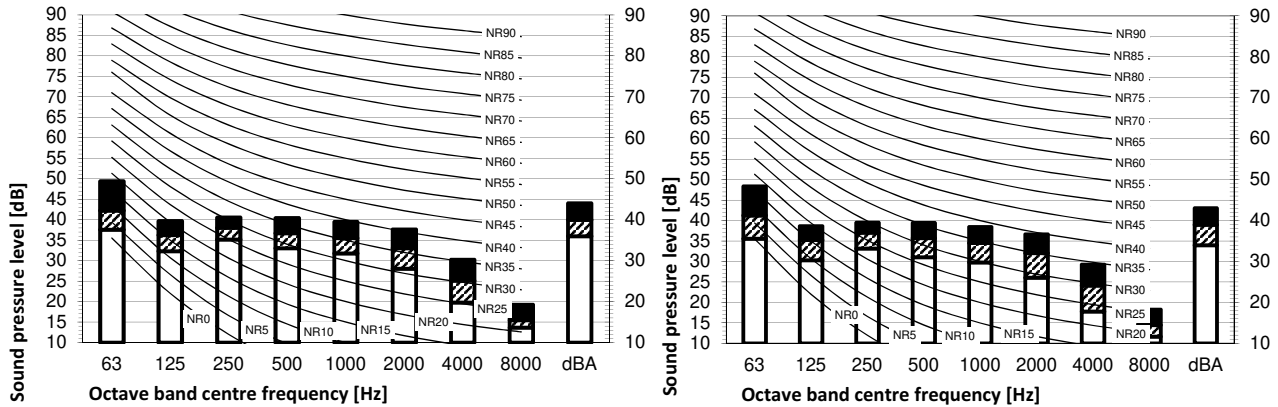
- Operating conditions: power source 220-240 V/220 V 50/60 Hz; JIS standard
- Background noise already taken into account.
- Operating noise varies depending on operation and ambient conditions.
- The operation noise measuring method is in accordance with JISC9612.
- Measuring location: anechoic chamber

3D101045B

8 Sound data

8 - 1 Sound Pressure Spectrum

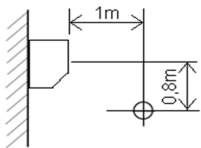
FTXM50N



Legend

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

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

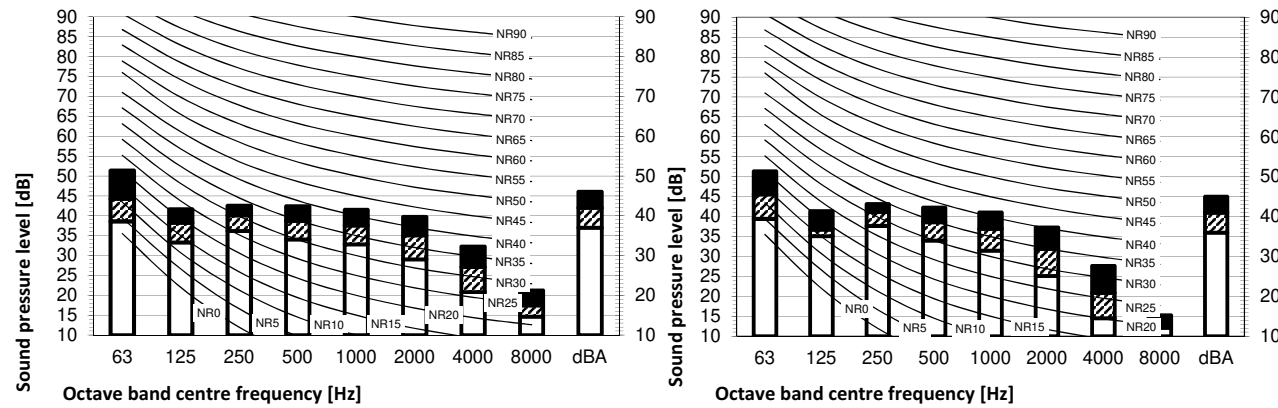


1. Operating conditions: power source 220-240 V/220 V 50/60 Hz; JIS standard
2. Background noise already taken into account.
3. Operating noise varies depending on operation and ambient conditions.
4. The operation noise measuring method is in accordance with JISC9612.
5. Measuring location: anechoic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

Cooling				Heating			
Total dB		Total dB		Total dB		Total dB	
A	B	C	D	A	B	C	D
dBA	44	40	36	dBA	43	39	34

3D102203B

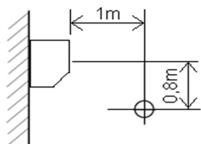
FTXM60N



Legend

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

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



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

Cooling				Heating			
Total dB		Total dB		Total dB		Total dB	
A	B	C	D	A	B	C	D
dBA	46	42	37	dBA	45	41	36

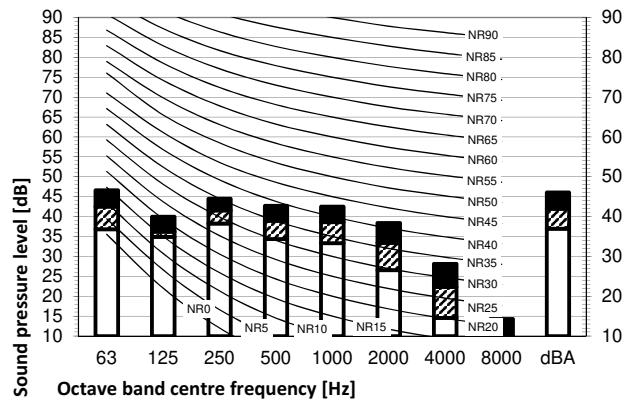
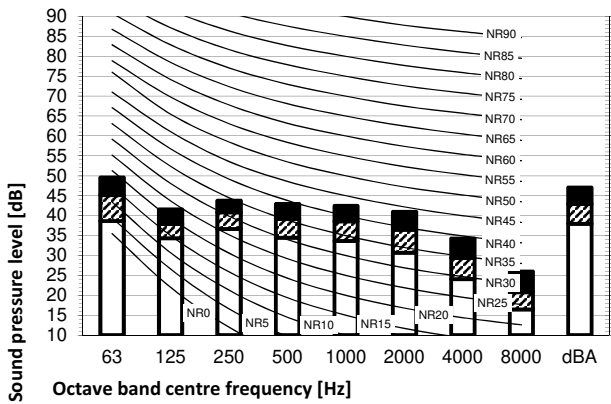
3D102204B

8 Sound data

8 - 1 Sound Pressure Spectrum

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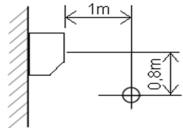
FTXM71N



Legend

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

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



- 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

Cooling		Total dB	
A	B	C	D
dBA	47	43	38

Heating		Total dB	
A	B	C	D
dBA	46	42	37

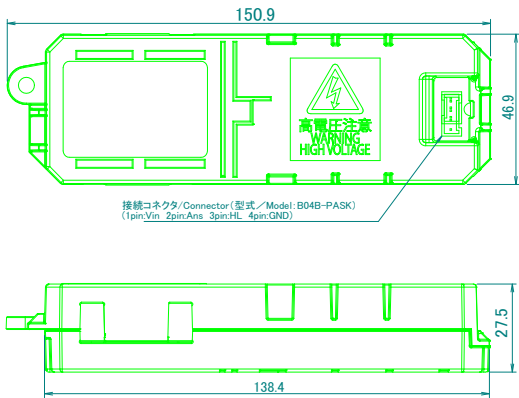
3D105084A

9 Installation

9 - 1 Installation Method

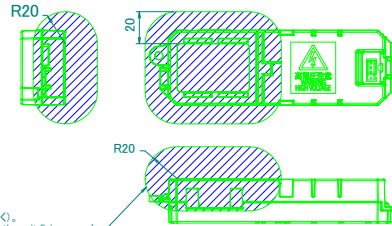
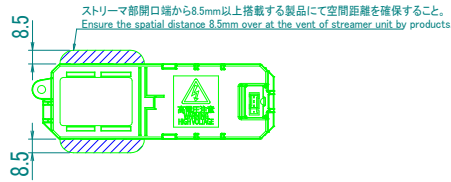
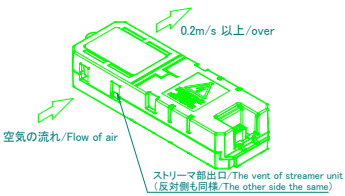
CTXM-N
FTXM-N

・外形サイズ/Outside size



・取付方法/Method of mounting

電極部を閉塞しないこと。/Don't blockage the vent of streamer unit.
ストリーマ部出口風速0.2m/sec以上の風速となるよう風を供給すること。/Ensure the exit wind speed 0.2m/sec of the vent.
ストリーマ部出入り口開口端から8.5mm以上空間距離を確保すること。/Ensure the spatial distance 8.5mm over at the vent of streamer unit.



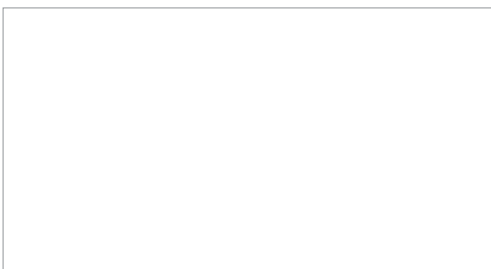
・主仕様/Main specifications

項目/Items	内容/Contents		
外形/Outside	外形寸法/Outside size	150.9 × 46.9 × 27.5mm	
	重さ/Weight	100g	
樹脂材料	材質/Material	ABS	
	難燃性/Flame retardance	UL94-5VA	
	トラッキング指数/Tracking index	CTI600V以上/Over CTI600V	
適応法規	適用法規/Applicable laws	電気用品安全法/Electrical Appliance and Material Safety Act IEC60335-1(4th), IEC60335-2-65(4th)	
温湿度条件	保管温度範囲/Storage temperature	-25~70°C (非通電/Non-Energization)	
	使用温度範囲/Operating ambient temperature	-10~60°C (通電/Energization)	
	使用湿度範囲/Operating ambient humidity	5~95%RH (結露なし/No dew deposit)	
基本仕様	入力電圧/Input voltage	14V ± 5%	
	無負荷電圧/Maximum output voltage	6.5 ± 0.5kV	
	定格電圧/Rating output voltage	5.0 ± 0.5kV	
	定格出力電流/Rating output current	Hi	55.5 μA ± 10%
		Lo	10 μA ± 10%
	ON/OFF	Vinで出力(ON/OFF)/Inputted voltage into Vin (ON/OFF)	
	Hi⇔Lo切替/Hi⇔Lo Switching	HLに5V入力でLo/Inputted 5V into HL (Loe tap)	
	電流モニター/Current monitor	あり/Yes	
	過電流検知/Detectable over current	あり/Yes	
	低電圧検知/Detectable low voltage	3kV以下/Under 3kV	
オゾン発生量	Generation amount of Ozone	4.26ml/hr (Hi 14 ± 2°C 50 ± 10%RH)	
取付方法	Method of mounting	左右取付引掛け部にて固定/Fixing by the right and left hook ネジ部にて固定/Fixing by the screw section	

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