Wall mounted unit Air Conditioning Technical Data

FTXP-N9

FTXP20N5V1B9
FTXP25N5V1B9
FTXP35N5V1B9
FTXP50N5V1B9

EEDEN25

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FTXP-N9

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1 Features

1 - 1 FTXP-N9

Discreet wall mounted unit providing high efficiency and comfort

1

- Onecta app: control your indoor from any location with an app, via your local network or internet.
- Practically inaudible: the unit runs so quietly, you will almost forget it is there.
- Voice command via Amazon Alexa or Google Assistant to control main functions such as set point, operation mode, fan speed, etc
- Silver allergen removal and air purifying filter captures allergens such as pollen to ensure a steady supply of clean air
- 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
- The unit's compact dimensions makes it ideal for renovation projects, especially for above door installation
- 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
- Seasonal efficiency values up to A++ in cooling and heating
- Space saving contemporary wall mounted design

Onecta app
Econo mode
Energy saving during standby mode
Night set mode
Fan only
Comfort mode
Powerful mode
Auto cooling-heating changeover
Indoor unit silent operation
3-D air flow
Vertical auto swing
Horizontal auto swing
Auto fan speed
Fan speed steps (5 steps)
Dry programme
Silver allergen removal and air purifying filter
Practically inaudible
Titanium apatite deodorising filter
Air filter
24 hour timer
Infrared remote control
Auto-restart
Self diagnosis

2 Specifications

2 - 1 Specifications

Technical specifications					FTXP20N9	FTXP25N9	FTXP35N9	FTXP50N9
Power input	Cooling	Nom.		kW	0.021	0.023	0.032	0.04
	Heating	Nom.		kW	0.023		0.032	0.04
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	9			
	Packed unit			kg	11			
Packing	Weight			kg	2			
Heat exchanger	Length			mm	610			
	Rows	Quantity			2			
	Fin pitch			mm	1.4			
	Stages	Quantity			18			
	Passes	Quantity			2.8			
	Tube type				ø5 Hi-XB			
	Fin	Type			Multi slit fin			
Heat exchanger 2	Length			mm	600			
	Rows	Quantity			1			
	Fin pitch			mm	1.4			
	Stages	Quantity			8			
Fan	Type				Cross flow fan			
	Quantity				1			
	Air flow rate	Cooling	High	m^3/min	9.6	9.9	11.5	11.8
				cfm	338.8	351	406.1	416.7
			Medium	m^3/min	7.5		8.3	9.3
				cfm	264.3		293.1	326.7
			Low	m^3/min	5.6	5.8	6.3	7.6
				cfm	197.7	204.9	222.5	266.7
			Silent operation	m^3/min	4.4		4.5	6
				cfm	155.4		158.8	213.3
		Heating	High	m^3/min	10.6		11.5	11.9
				cfm	372.7		406.1	420.2
			Medium	m^3/min	8.6		9	9.5
Fan	Air flow rate	Heating	Medium	cfm	302.6		317.8	336.1
			Low	m^3/min	6.6		7	8.2
				cfm	231.3		247.2	289.1
			Silent operation	m^3/min	5		5.1	7.4
				cfm	175.3		179.2	262.2
Fan motor	Model				DFD03C1VB			
	Speed	Steps			5 + silent, + auto			
		Cooling	High	rpm	1,030	1,060	1,160	1,250
			Medium	rpm	840		890	980
			Low	rpm	660	680	720	800
			Silent operation	rpm	540		550	640
		Heating	High	rpm	1,080		1,160	1,250
			Medium	rpm	920		950	1,000
			Low	rpm	750		780	860
			Silent operation	rpm	610		620	780
	Output	Rated		W	22			
Sound power level	Cooling			dBA	55		58	59
	Heating			dBA	55		58	61
Sound pressure level	Cooling	High		dBA	39	40	43	46
		Medium		dBA	33		34	39
		Low		dBA	25	26	27	34
		Silent operation		dBA	19		20	27
	Heating	High		dBA	39	40		44
		Medium		dBA	34		35	38
		Low		dBA	28		29	33
		Silent operation		dBA	21			30
Piping connections	Liquid	OD		mm	6.35			
	Gas	OD		mm	9.52			12.7
	Drain				18			
	Heat insulation				Both liquid and gas pipes			
Air filter	Type				Removable / washable			
Air direction control					Left, right, up and downwards			
Temperature control					Microcomputer control			
Control systems	Infrared remote control				ARC480A78			
	Wired remote control				BRC073A1			

Standard accessories: Installation manual;Quantity: 1;

2 Specifications

2 - 1 Specifications

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

Standard accessories: General safety precautions;Quantity: 1;

Standard accessories: Operation manual;Quantity: 1;

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

Standard accessories: Silver particle filter;Quantity: 1;

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

Standard accessories: Infrared remote control;Quantity: 1;

Standard accessories: Mounting plate;Quantity: 1;

Standard accessories: Remote control holder;Quantity: 1;

Electrical specifications			FTXP20N9	FTXP25N9	FTXP35N9	FTXP50N9
Power supply	Phase		1~			
	Frequency	Hz	50			
	Voltage	V	220-240			

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

FTXP-N9

Option kit	Product name	Remark	Applicable models	Class	Casing	Factory
Wi-Fi adaptor for smartphones (Onecta App Adapter "Cartridge")	BRP069C47	①	FTXP20N5V1B9	20	BMS-R32	DTAS
			FTXP25N5V1B9	25	BMS-R32	DTAS
			FTXP35N5V1B9	35	BMS-R32	DTAS
			ATXP20N5V1B9	20	BMS-R32	DTAS
			ATXP25N5V1B9	25	BMS-R32	DTAS
			ATXP35N5V1B9	35	BMS-R32	DTAS
			FTXTP25A5V1B	25	BMS-R32	DTAS
			FTXTP35A5V1B	35	BMS-R32	DTAS
			FTXP50N5V1B9	50	BMS-R32	DTAS
WLAN adapter	BRP069B41/42					
Wired remote control	BRC073A1	② ④	✓	✓	✓	✓	✓	✓	✓	✓	✓
Madoka wired remote control	BRC1H51(9)W					
Cord for wired remote control (·3·m)	BRCW901A03		✓	✓	✓	✓	✓	✓	✓	✓	✓
Cord for wired remote control (·8·m)	BRCW901A08		✓	✓	✓	✓	✓	✓	✓	✓	✓
Premium wired remote control	BRC1E52A/B/C					
Simplified remote control	BRC2E52C					
Remote control for hotel use	BRC3E52C					
Centralised control board (up to ·5· rooms)	KRC72A					
Intelligent Tablet Controller by using KRP928	DCC601A51	⑥	✓	✓	✓	✓	✓	✓	✓	✓	✓
Central remote controller by using KRP928	DCS302CA51/61	⑥	✓	✓	✓	✓	✓	✓	✓	✓	✓
Unified ON/OFF controller	DCS301BA51/61	⑥	✓	✓	✓	✓	✓	✓	✓	✓	✓
Schedule timer	DST301BA51/61					
Intelligent touch manager by using KRP928	DCM601A51	⑥	✓	✓	✓	✓	✓	✓	✓	✓	✓
Modbus Gateway	RTD-RA	② ④	✓	✓	✓	✓	✓	✓	✓	✓	✓
KNX interface	KLIC-DD	② ④	✓	✓	✓	✓	✓	✓	✓	✓	✓
Adapter PCB (normal open/normal open pulse contact)	KRP413AB1S	② ④ ⑦	✓	✓	✓	✓	✓	✓			✓
Adapter PCB (normal open/normal open pulse contact)	KRP413BB1S	② ④	✓	✓	✓	✓	✓	✓	✓	✓	✓
Interface adaptor for DIII NET use	KRP928BB2S	② ④	✓	✓	✓	✓	✓	✓	✓	✓	✓
Interface adaptor for wired remote control (S21)	KRP067A41	③	✓	✓	✓	✓	✓	✓	✓	✓	✓
External wired temperature sensor	KRCS01-4					
Adapter PCB for interlock (key card,...)	BRP7A54					
Adapter for wiring	KRP1B56					
Adapter for external ON/OFF and monitoring for electrical appendices	KRP4A54					
Wiring adapter for electrical appendices	KRP2A53					
Installation box for adapter PCBs (when no space in the switchbox	KRP1BA101					
Multi tenant	DTA114A61					
Titanium apatite deodorising filter without frame	KAF970A46	⑤	✓	✓	✓	✓	✓	✓	✓	✓	✓
Silver particle filter (Ag-ion) with frame	KAF057A41	⑧									
Noise filter for electromagnetic use only	KEK26-1A					
Anti-theft protection for remote control	KKF910A4					
Anti-theft protection for remote control	KKF936A4	⑧									
Optional remote control BRC480A54 for heating-only indoor units	BRC54A		✓	✓	✓	✓	✓	✓	✓	✓	✓
Wire harness to connect to S21 connector	EKRS21					

Notes

① Standard equipped

② To connect this option to the indoor unit, Interface adaptor .KRP067A41. is required.

③ This option feature a(n) .S21. connector .KRP067A41. is only .S21. PCB.

④ 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.

⑤ Standard accessory

⑥ This option is a controller used in DIII net

⑦ Production of this option finished, replaced by new option KRP413BB1S.

⑧ Production of this option finished, without replacement.

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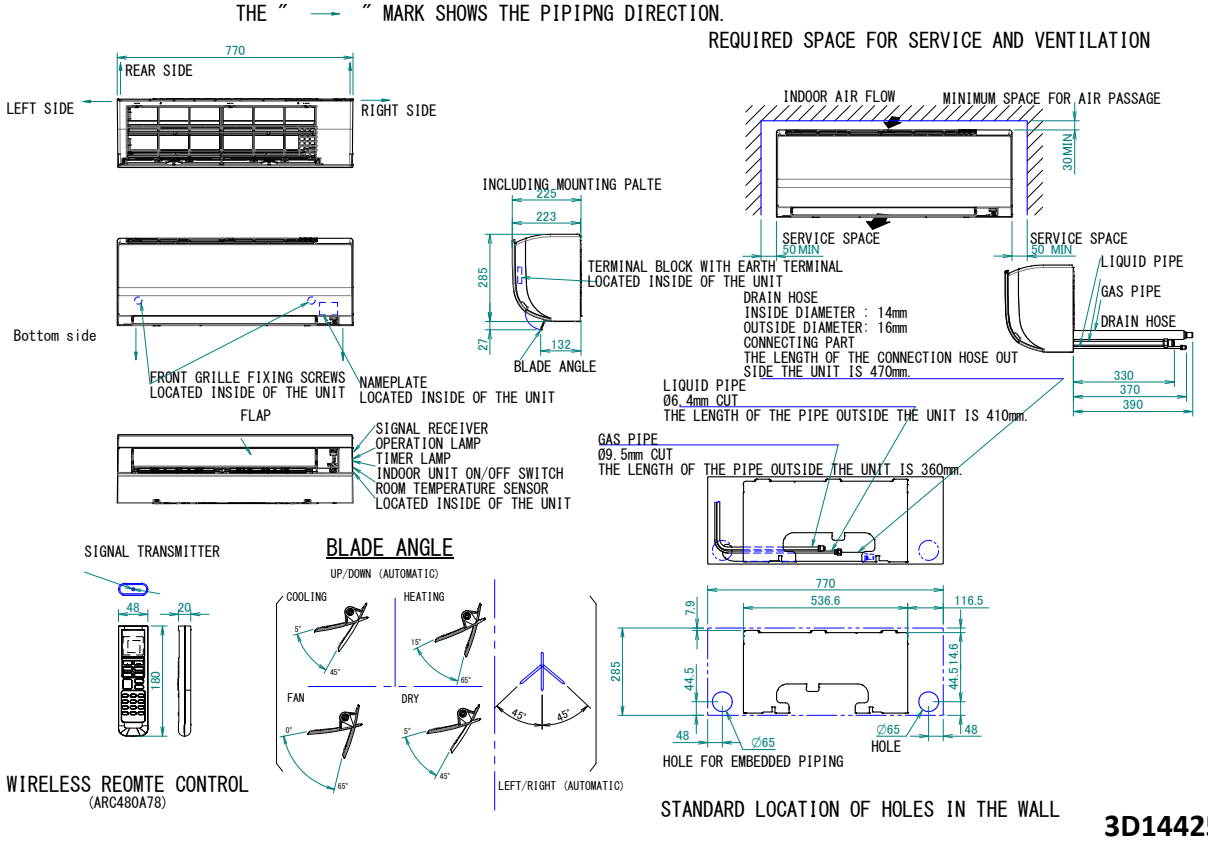
4 Dimensional drawings

4 - 1 Dimensional Drawings

FTXP20-35N9



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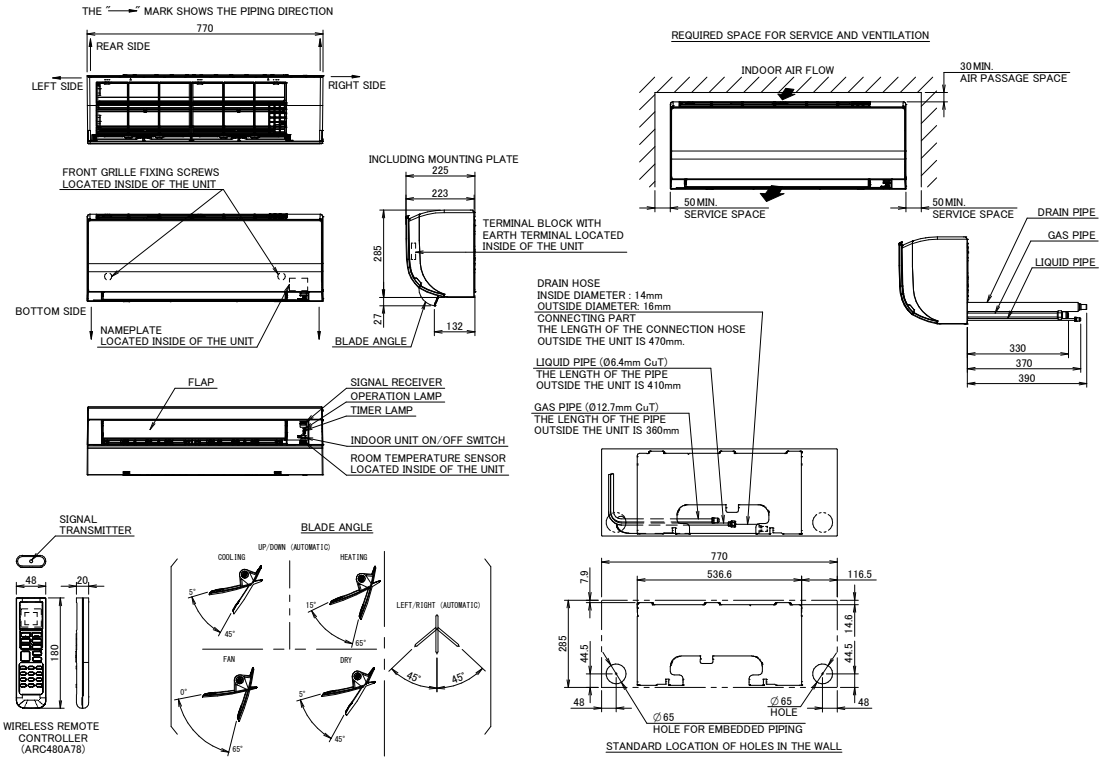
FTXP50N9



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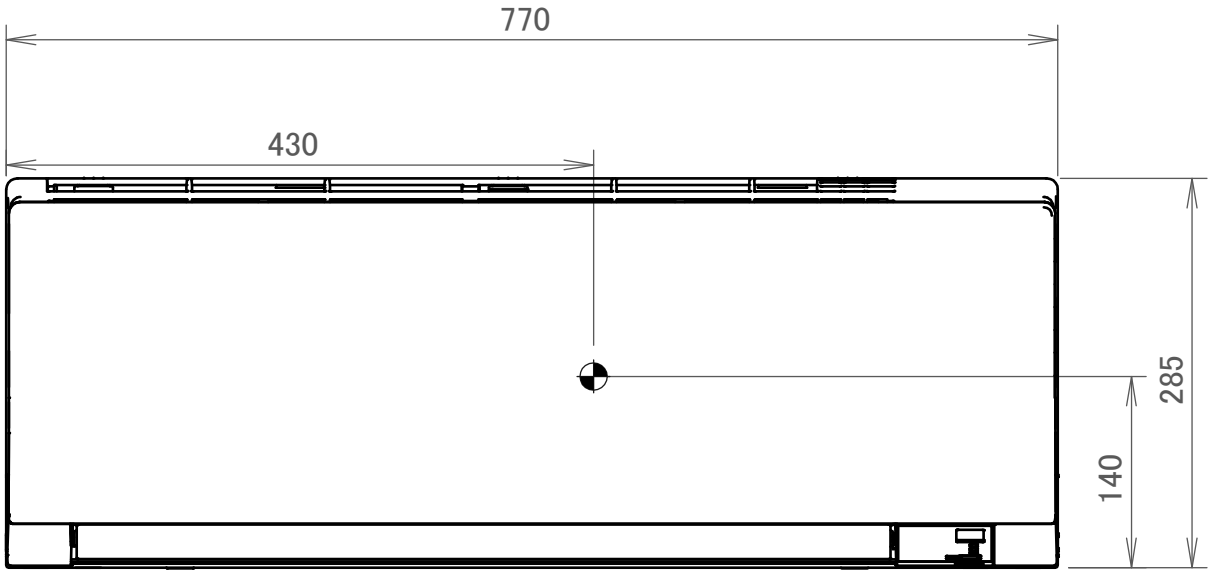
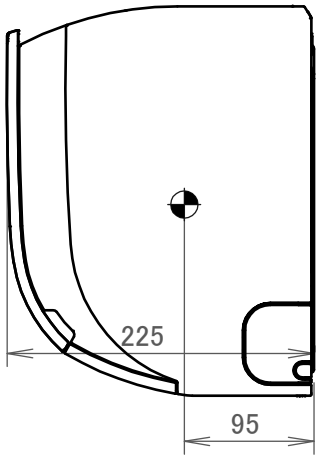
5 Centre of gravity

5 - 1 Centre of Gravity

FTXP-N9





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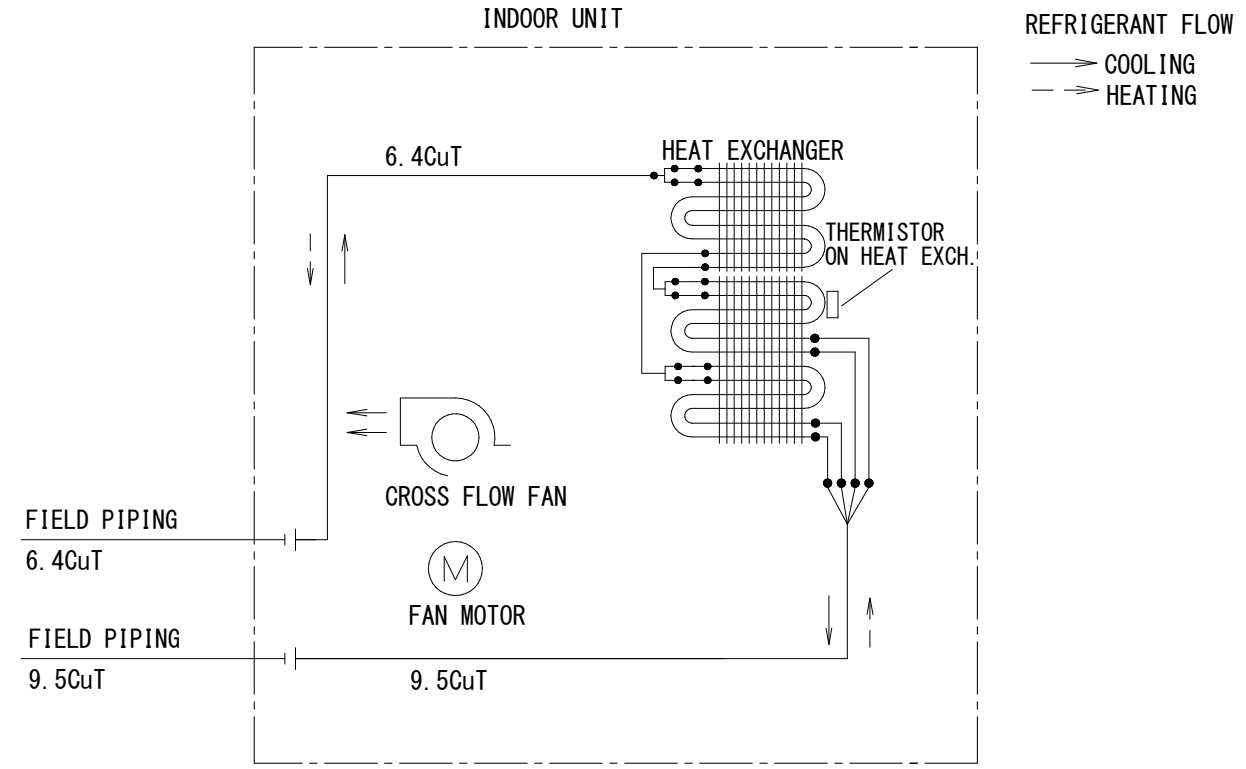
6 Piping diagrams

6 - 1 Piping Diagrams

6

FTXP20-35N9



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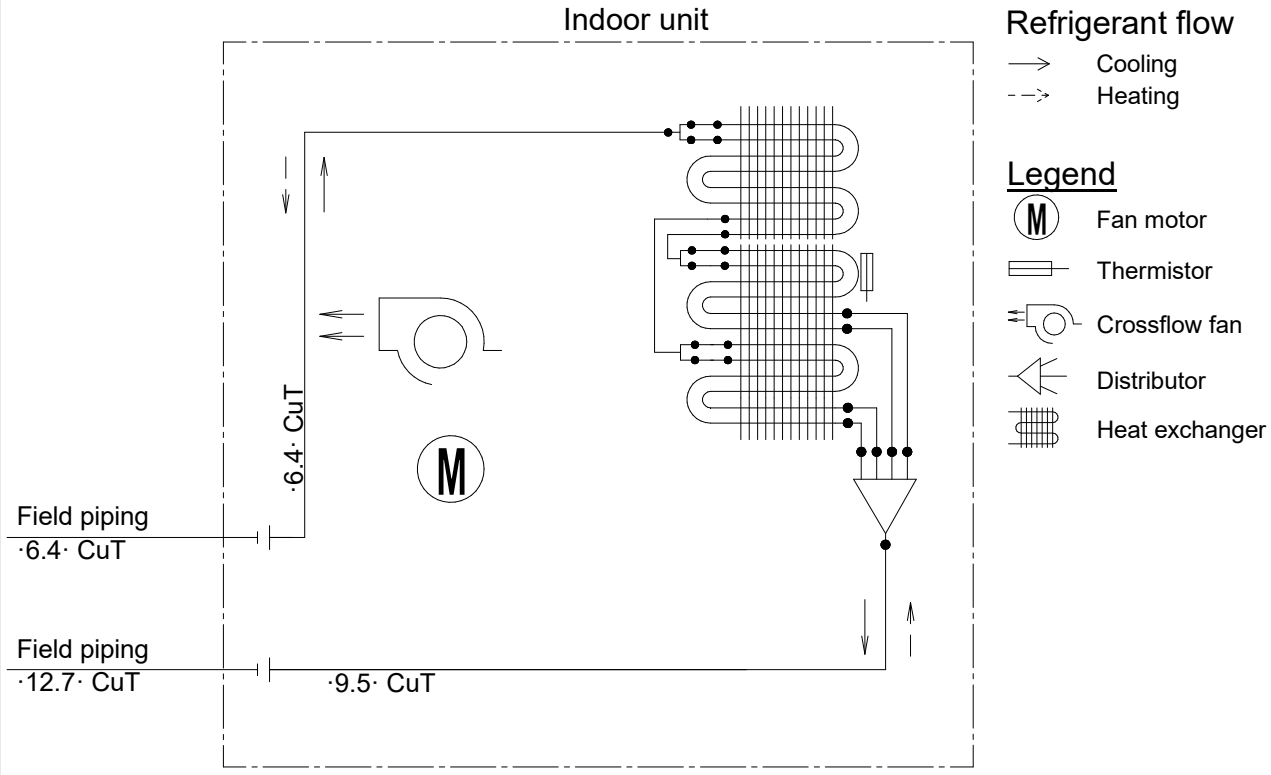
FTXP50N9



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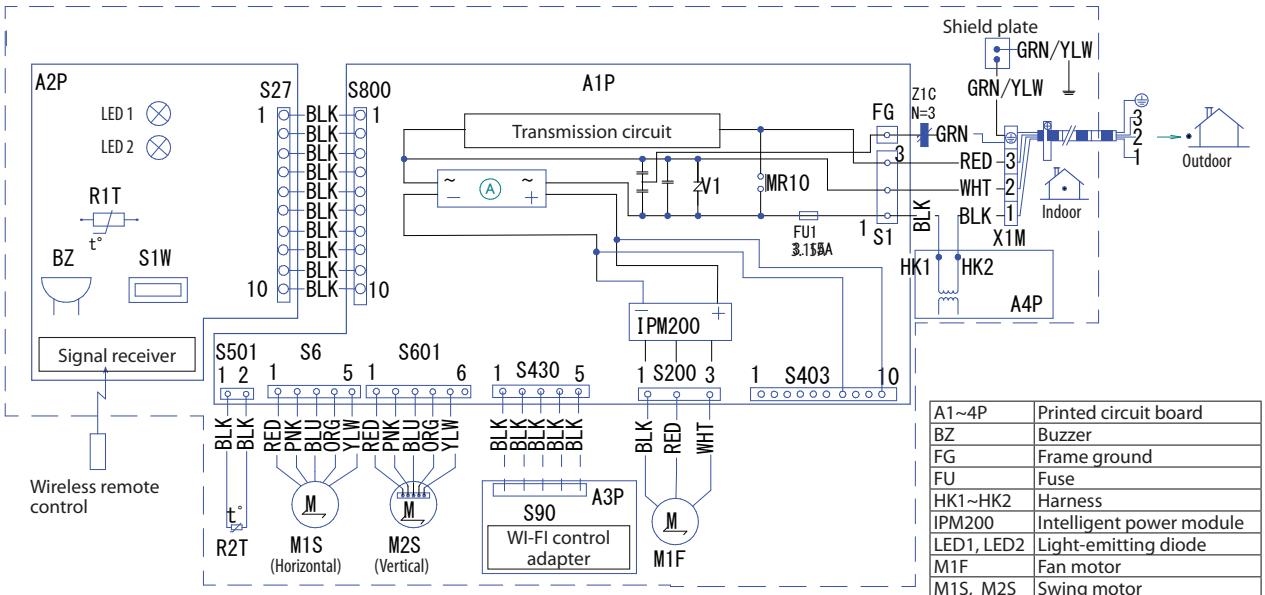
7 Wiring diagrams

7 - 1 Wiring Diagrams - Three Phase

FTXP-N9

Wiring diagram



A1~4P	Printed circuit board
BZ	Buzzer
FG	Frame ground
FU	Fuse
HK1~HK2	Harness
IPM200	Intelligent power module
LED1, LED2	Light-emitting diode
M1F	Fan motor
M1S, M2S	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
Ⓐ	Rectifier

BLK : Black
BLU : Blue
BRN : Brown
GRN : Green
ORG : Orange
PNK : Pink
RED : Red
WHT : White
YLW : Yellow

Field wiring :

CAUTION

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

NOTES

1. Size : length 70 x width 120
2. Unless otherwise specified refer to purchasing specification AS303002.

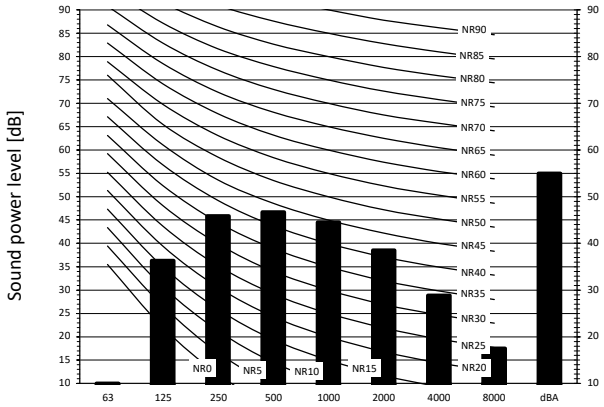
3D142356

8 Sound data

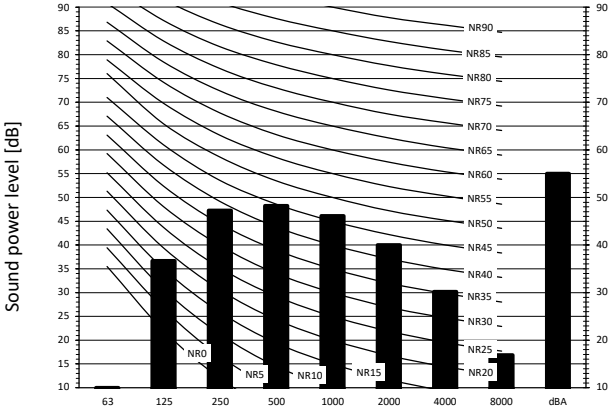
8 - 1 Sound Power Spectrum

FTXP20-25N9

Cooling mode



Heating mode



Fan speed: High

Notes

1. dBA = A-weighted sound power level (A scale according to IEC).
2. Reference acoustic power 0 dB = 20 µPa
3. Measured according to ISO 3744

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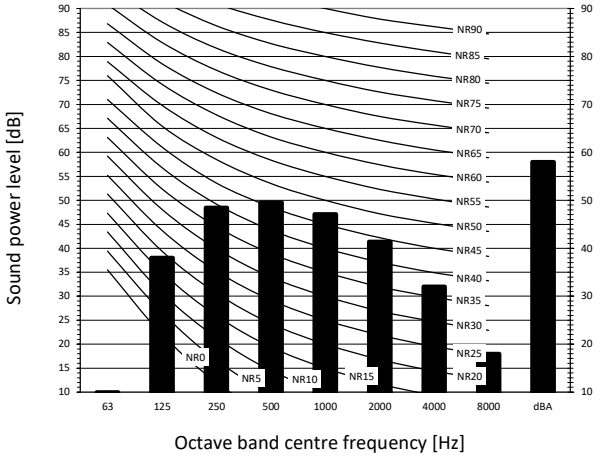
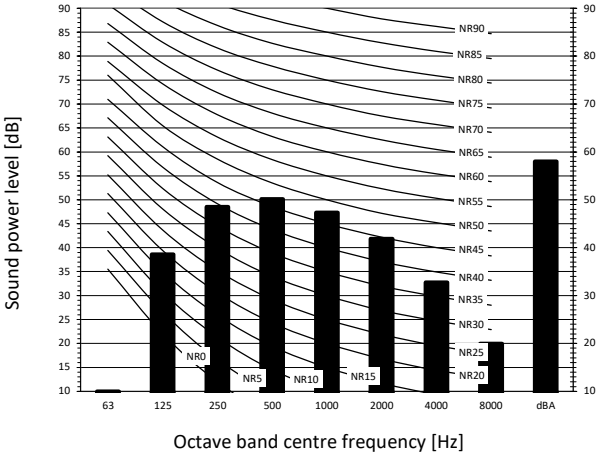
FTXP35N9

Cooling mode



Heating mode



Fan speed: High

Notes

1. dBA = A-weighted sound power level (A scale according to IEC).
2. Reference acoustic power 0 dB = 20 µPa
3. Measured according to ISO 3744

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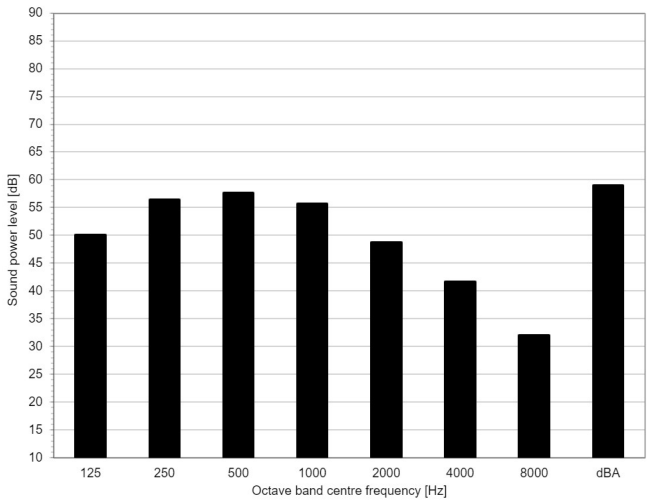
8 Sound data

8 - 1 Sound Power Spectrum

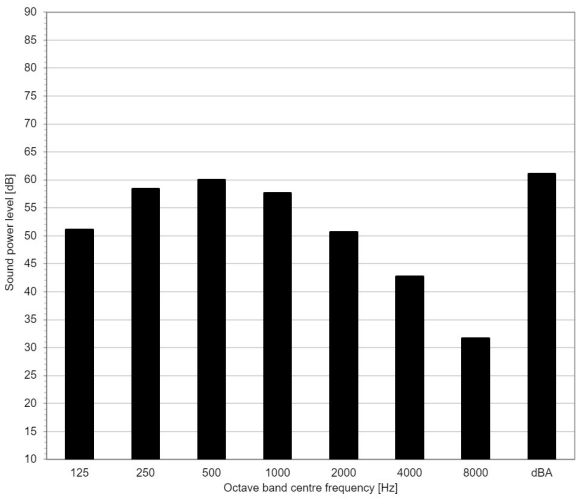
FTXP50N9

Cooling mode



Fan speed: High

Heating mode



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

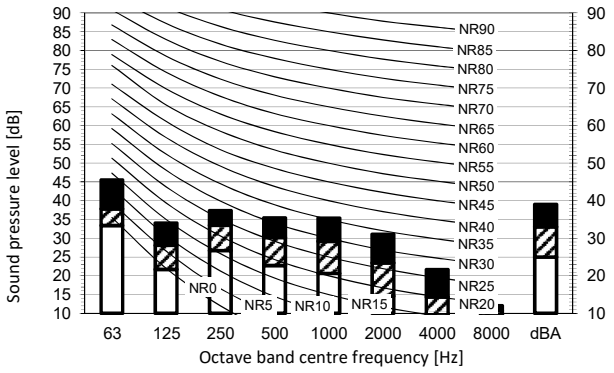
4D154581

8 Sound data

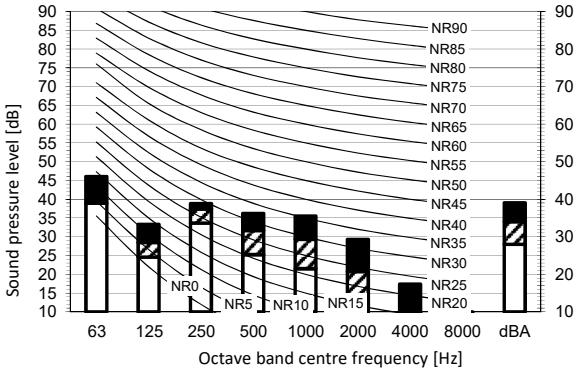
8 - 2 Sound Pressure Spectrum

FTXP20N9

Cooling mode



Heating mode

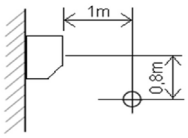


Legend

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

A Scale Fan speed
B High
C Medium
D Low

Location of microphone



Cooling Total dB

A	B	C	D
dBA	39	33	25

Heating Total dB

A	B	C	D
dBA	39	34	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

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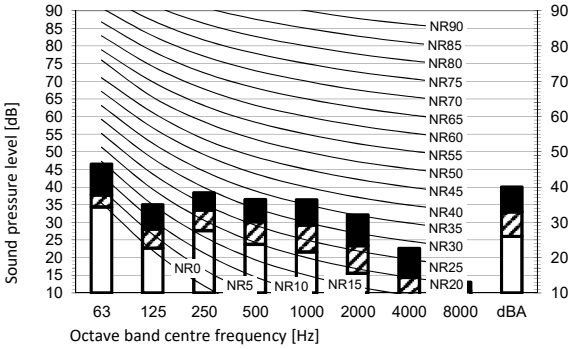
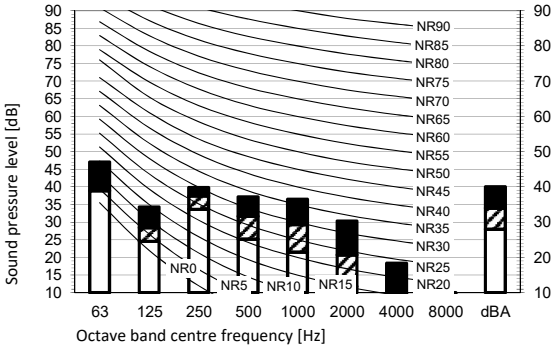
FTXP25N9

Cooling mode



Heating mode

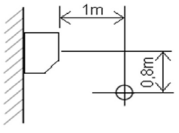


Legend

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

A Scale Fan speed
B High
C Medium
D Low

Location of microphone



Cooling Total dB

A	B	C	D
dBA	40	33	26

Heating Total dB

A	B	C	D
dBA	40	34	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

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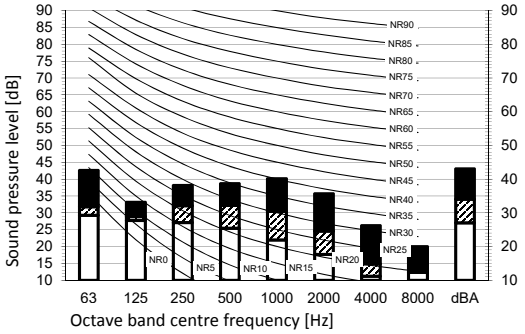
8 Sound data

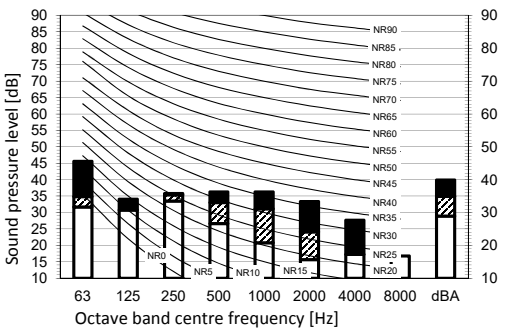
8 - 2 Sound Pressure Spectrum

FTXP35N9

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

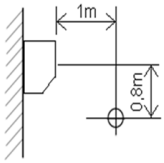
Cooling Total dB

A	B	C	D
dBA	43	34	27

Heating Total dB

A	B	C	D
dBA	40	35	29

Location of microphone



Notes

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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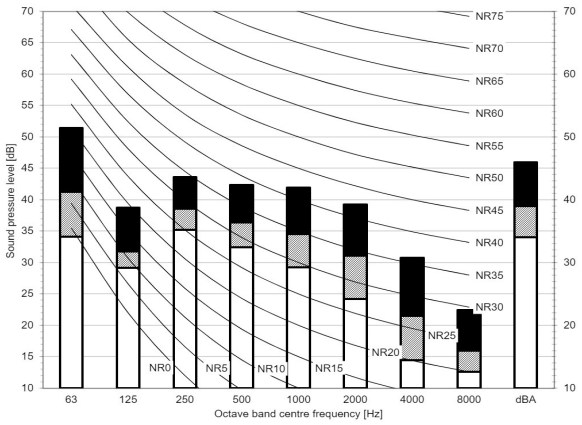
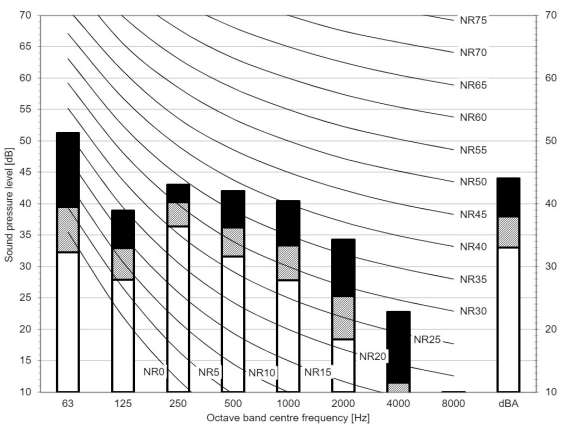
FTXP50N9

Cooling mode



Heating mode



Legend:

A Scale Fan speed
B High
C Medium
D Low

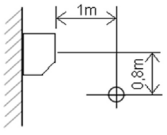
A	B	C	D
dBA	46	39	34

Legend:

A Scale Fan speed
B High
C Medium
D Low

A	B	C	D
dBA	44	38	33

Location of microphone



Notes

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

4D154582

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