Wall mounted unit Air Conditioning Technical Data

FTXP-N

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FTXP20N5V1B
FTXP25N5V1B
FTXP35N5V1B
FTXP50N2V1B
FTXP60N2V1B
FTXP71N2V1B

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1 Features

1 - 1 FTXP-N

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					FTXP20N	FTXP25N	FTXP35N	FTXP50N	FTXP60N	FTXP71N
Power input	Cooling	Nom.		kW	0.019	0.020	0.032	0.029	0.032	
	Heating	Nom.		kW	0.023		0.032		0.035	
Casing	Colour				White					
Dimensions	Unit	Height		mm	286			295		
		Width		mm	770			990		
		Depth		mm	225			263		
	Packed unit	Height		mm	305			368		
		Width		mm	830			1,080		
		Depth		mm	360			383		
Weight	Unit			kg	8.50		9.00	13.5		
	Packed unit			kg	10.5		11.0	16		
Packing	Weight			kg	2.0			2.5		
Heat exchanger	Length			mm	610			820		
	Rows	Quantity			2					
	Fin pitch			mm	1.40			1.4		
	Stages	Quantity			18					
	Passes	Quantity			2.0			6		
	Tube type				ø5 Hi-XB					
	Fin	Type			ML fin (Multi louver)					
Heat exchanger 2	Length			mm	-		600	810		
	Rows	Quantity			-		1			
	Fin pitch			mm	-		1.40	1.4		
	Stages	Quantity			-		8			
Heat exchanger 3	Length			mm	-			810		
	Rows	Quantity			-			1		
	Fin pitch			mm	-			1.4		
	Stages	Quantity			-			4		
Fan	Type				Cross flow fan					
	Quantity				1			-		
	Air flow rate	Cooling	High	m^3/min	9.5	9.7	11.5	16.3	16.8	
				cfm	335.1	343.3	406.1	575	592	
			Medium	m^3/min	7.4	7.7	8.3	14.0	14.4	
				cfm	262.0	270.2	293.1	493	506	
			Low	m^3/min	5.6	5.8	6.3	11.5	11.8	
				cfm	198.1	205.9	222.5	401	417	
			Silent operation	m^3/min	4.2		4.5	8.3	9.2	10.1
Fan	Air flow rate	Cooling	Silent operation	cfm	146.6		159.0	268	330	365
		Heating	High	m^3/min	10.4		11.5	17.3	17.9	
				cfm	368.0		406.1	618	632	
			Medium	m^3/min	8.1		9.0	14.4	15.3	
				cfm	286.0		317.8	510	540	
			Low	m^3/min	6.2	6.4	7.0	11.8	12.4	
				cfm	217.9	226.0	247.2	421	438	
			Silent operation	m^3/min	5.2		5.3	10.4	11.0	
				cfm	182.2		287.0	370	387	
Fan motor	Model				DFD03C1VB			MM9E17S21VA		
	Speed	Steps			5 + silent, + auto					
		Cooling	High	rpm	1,000	1,020	1,160	1,040	1,070	
			Medium	rpm	820	840	890	920	940	
			Low	rpm	660	680	720	790	810	
			Silent operation	rpm	530		570	600	650	700
		Heating	High	rpm	1,080		1,160	1,100	1,140	1,170
			Medium	rpm	880		950	940	990	
			Low	rpm	710	730	780	810	840	
			Silent operation	rpm	620		640	730	760	
	Output	Rated		W	22			46		
Sound power level	Cooling			dBA	55		58	59.0	60.0	62.0
	Heating			dBA	55		58	61.0	62.0	
Sound pressure level	Cooling	High		dBA	39	40	43	43.0	45.0	46.0
		Medium		dBA	33		34	39.0	41.0	42.0
		Low		dBA	25	26	27	34.0	36.0	37.0
		Silent operation		dBA	19		20	27.0	30.0	32.0
	Heating	High		dBA	39	40		42.0	44.0	45.0
		Medium		dBA	34		35	38.0	40.0	41.0
		Low		dBA	28		29	33.0	35.0	36.0
		Silent operation		dBA	21			30.0	32.0	33.0
Piping connections	Liquid	OD		mm	6			6.4		
	Gas	OD		mm	9.50			12.7		
	Drain				18					
	Heat insulation				Both liquid and gas pipes					
Air filter	Type				Removable / washable					
Air direction control					Left, right, up and downwards					

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2 Specifications

2 - 1 Specifications

Technical specifications		FTXP20N	FTXP25N	FTXP35N	FTXP50N	FTXP60N	FTXP71N
Temperature control		Microcomputer control					
Control systems	Infrared remote control	ARC480A78			ARC480A53		
	Wired remote control	BRC944B2 / BRC073A1			-		

Standard accessories: Installation manual;Quantity: 1;

Standard accessories: Operation manual;Quantity: 1;

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: Titanium apatite deodorizing filter;Quantity: 1;

Standard accessories: Silver particle filter;Quantity: 1;

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

Standard accessories: General safety precautions;Quantity: 1;

Standard accessories: WLAN adapter kit;Quantity: 1;

Electrical specifications			FTXP20N	FTXP25N	FTXP35N	FTXP50N	FTXP60N	FTXP71N
Power supply	Name			-		V1		
	Phase			1~				
	Frequency	Hz		50				
	Voltage	V		220-240				
Current	Nominal running current (RLA) - 50Hz	Heating A		-		0.34	0.37	0.40
	Nominal running current (RLA)	Cooling A		-		0.32	0.34	

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

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3 Options

3 - 1 Options

FTXP20-35N

Option kit	Product name	Remark	Applicable models	Class	Casing	Factory
			FTXP20N5V1B	20	BMS-R32	DTAS
			FTXP25N5V1B	25	BMS-R32	DTAS
			FTXP35N5V1B	35	BMS-R32	DTAS
			ATXP20N5V1B	20	BMS-R32	DTAS
			ATXP25N5V1B	25	BMS-R32	DTAS
			ATXP35N5V1B	35	BMS-R32	DTAS
Wi-Fi adaptor for smartphones (Onecta App Adapter "Cartridge")	BRP069C47	①				
Wired remote control	BRC073A1	② ④		✓	✓	✓	✓	✓	✓
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	③		✓	✓	✓	✓	✓	✓
Interface adaptor for wired remote control	KRP980B1	③		✓	✓	✓	✓	✓	✓
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	② ④		✓	✓	✓	✓	✓	✓
Interlligent Touch Manager	DCM601A5A	② ④		✓	✓	✓	✓	✓	✓
Interface adaptor for DIII-NET	KRP928BB2S	② ④		✓	✓	✓	✓	✓	✓
Central remote control	DCS302CA51	② ④		✓	✓	✓	✓	✓	✓
Unified ON/OFF controller	DCS301BA51/61	② ④		✓	✓	✓	✓	✓	✓
Schedule timer	DST301BA51/61	② ④		✓	✓	✓	✓	✓	✓
Titanium apatite deodorising filter without frame	KAF971A42								
Titanium apatite deodorising filter without frame	KAF952B42								
Titanium apatite deodorising filter without frame	KAF970A46	⑤		✓	✓	✓	✓	✓	✓
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	② ④		✓	✓	✓	✓	✓	✓
Modbus Gateway	RTD-RA	② ④		✓	✓	✓	✓	✓	✓
KNX interface	KLIC-DD	② ④		✓	✓	✓	✓	✓	✓

Notes

① Standard equipped

② To connect this option to the indoor unit, Interface adaptor .KRP067A41. (or .KRP980B1.) is required.

③ 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.

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

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3 Options

3 - 1 Options

FTXP50-71N

Option kit	Product name	Remark	Applicable models: FTXP50N2V1B	Class: 50	Casing: BML	Factory: DICz	Applicable models: FTXP60N2V1B	Class: 60	Casing: BML	Factory: DICz	Applicable models: FTXP71N2V1B	Class: 71	Casing: BML	Factory: DICz
Wired remote control	BRC073A1		✓				✓				✓			
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	KRP980B1													
Interface adaptor for wired remote control	EKRP067A41													
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													
Wi-Fi adaptor for smartphones	BRP069B41	④⑤												
Wi-Fi adaptor for smartphones	BRP069B42	⑤												
Wi-Fi adaptor for smartphones	BRP069B43	⑤												
Wi-Fi adaptor for smartphones	BRP069A44	⑥												
Wi-Fi adaptor for smartphones	BRP069B45	⑤												
Interface adaptor for DIII-NET	KRP928BB2S		✓				✓				✓			
Central remote control	DCS302CA51													
Unified ON/OFF controller	DCS301BA51													
Schedule timer	DST301BA51													
Titanium apatite deodorising filter without frame	KAF971A42	①												
Titanium apatite deodorising filter without frame	KAF952B42	③												
Titanium apatite deodorising filter without frame	KAF970A46	②	✓				✓				✓			
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	⑦	✓				✓				✓			

LEGEND

① Three-dimensional knitted fabric (·42x275·mm) + activated charcoal net
② Three-dimensional knitted fabric (·42x255·mm) + activated charcoal net
③ Corrugated fiberboard (·42x275·mm)
④ Without connection cable
⑤ Option ·BRP069A**· was replaced by option ·BRP069B**·.
⑥ This option is no longer produced.
⑦ Only for France

NOTES

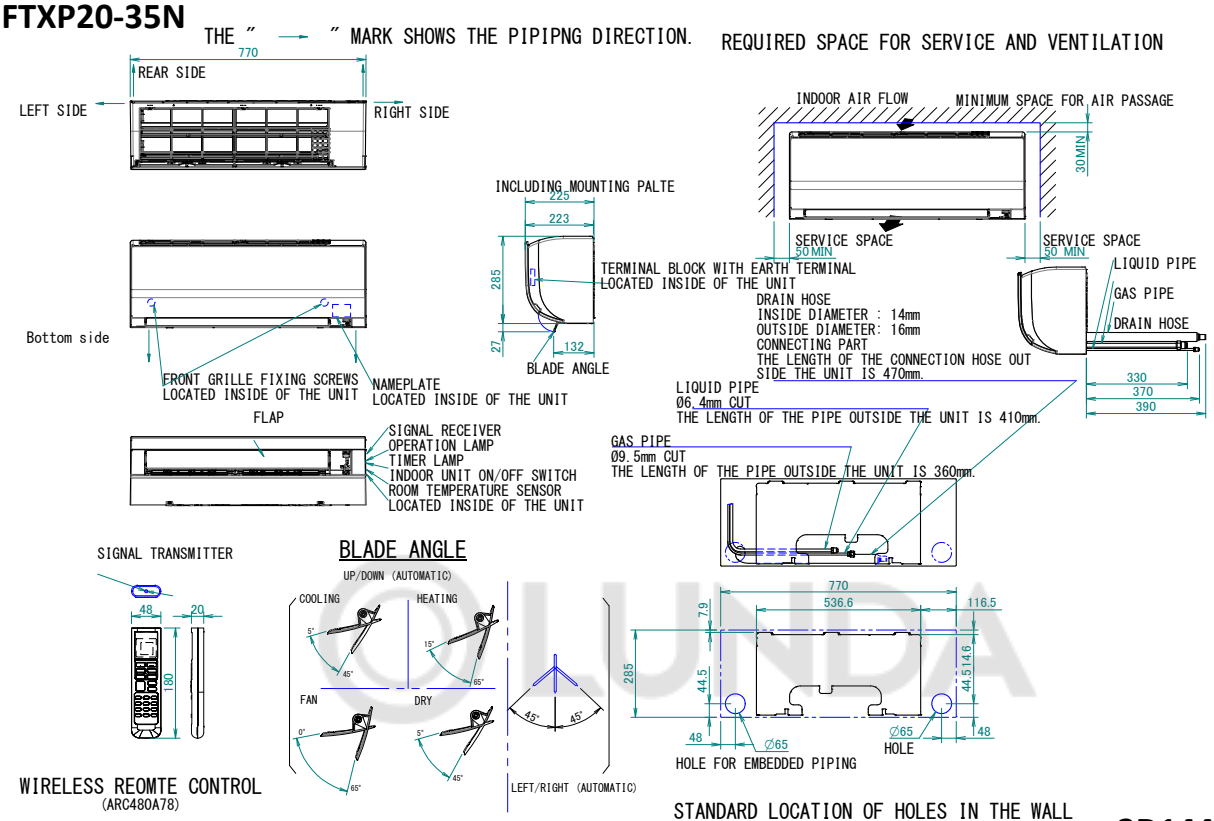
1. R32 models

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4 Dimensional drawings

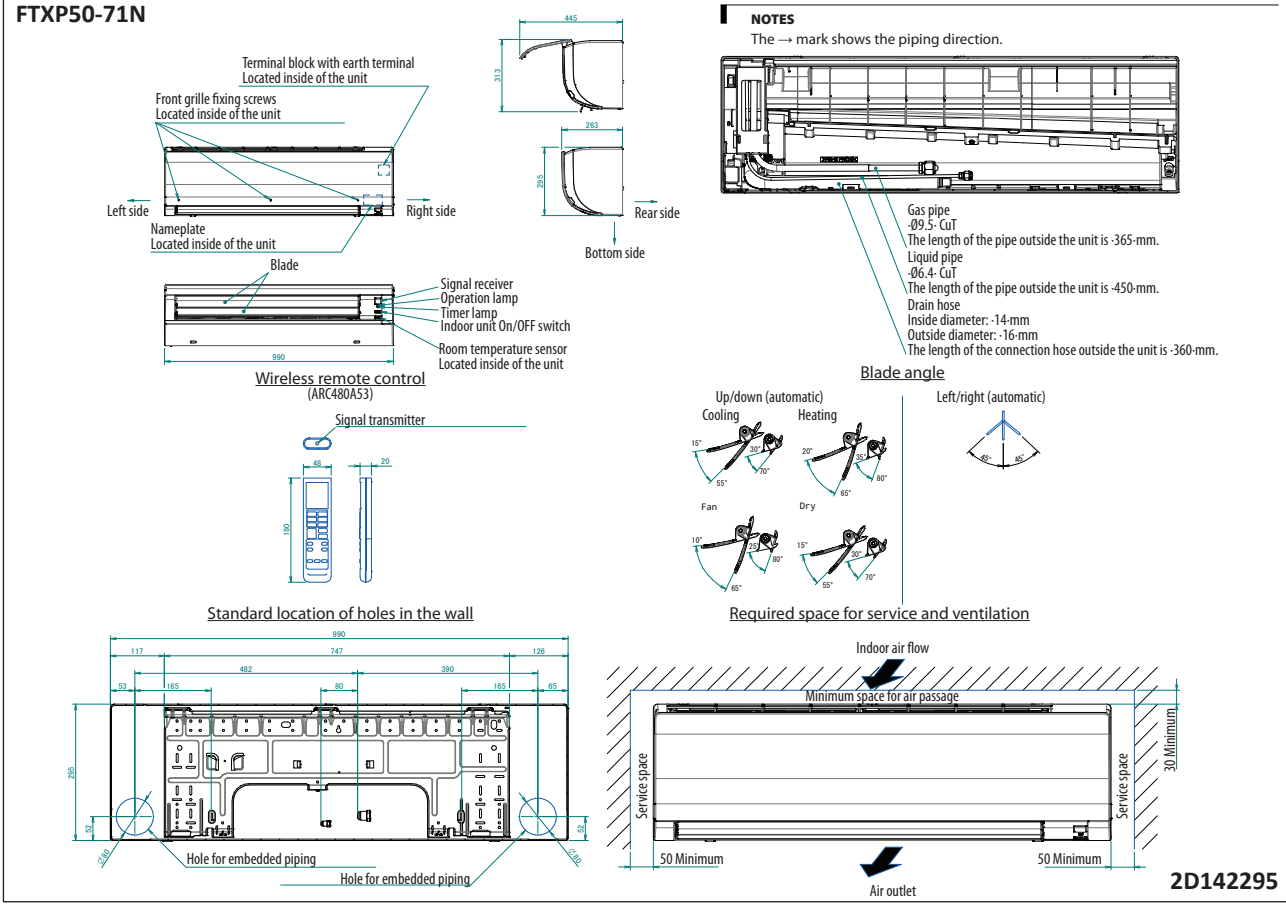
4 - 1 Dimensional Drawings

ATXP-N
FTXP20-35N



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FTXP50-71N

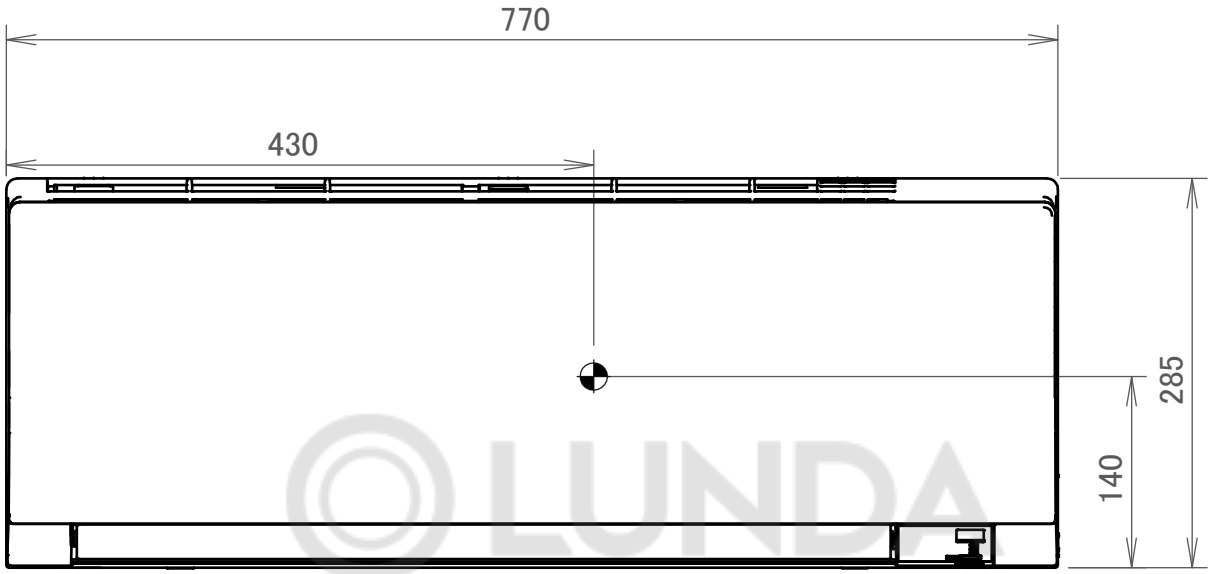


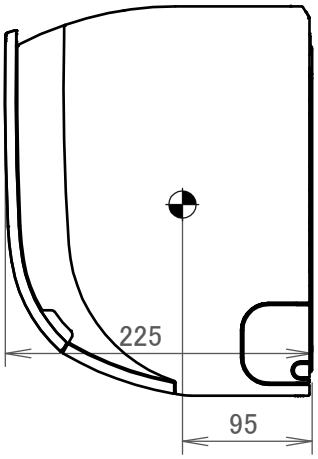
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5 Centre of gravity

5 - 1 Centre of Gravity

FTXP20-35N



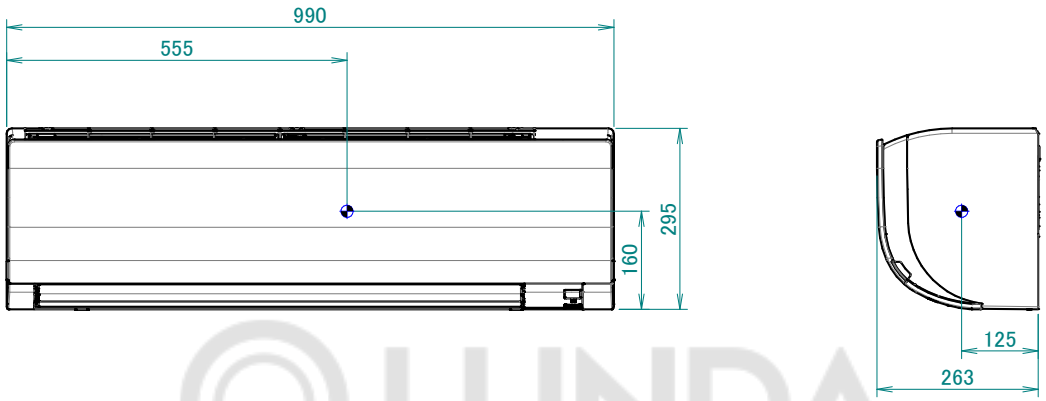


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5 Centre of gravity

5 - 1 Centre of Gravity

FTXP50-71N



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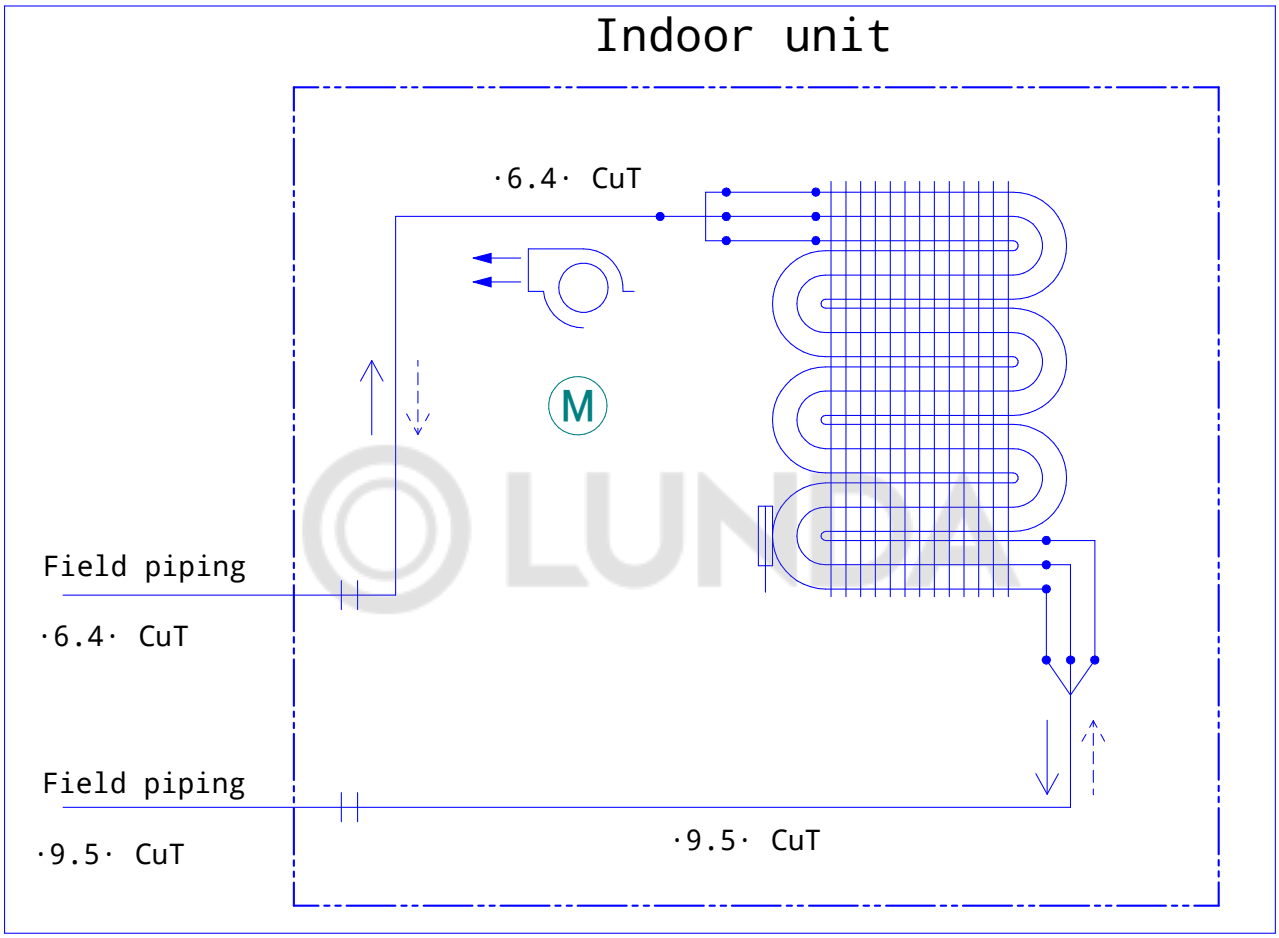
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6 Piping diagrams

6 - 1 Piping Diagrams

6

FTXP20-25N



Refrigerant flow

Cooling

Heating

Crossflow fan

M Fan motor

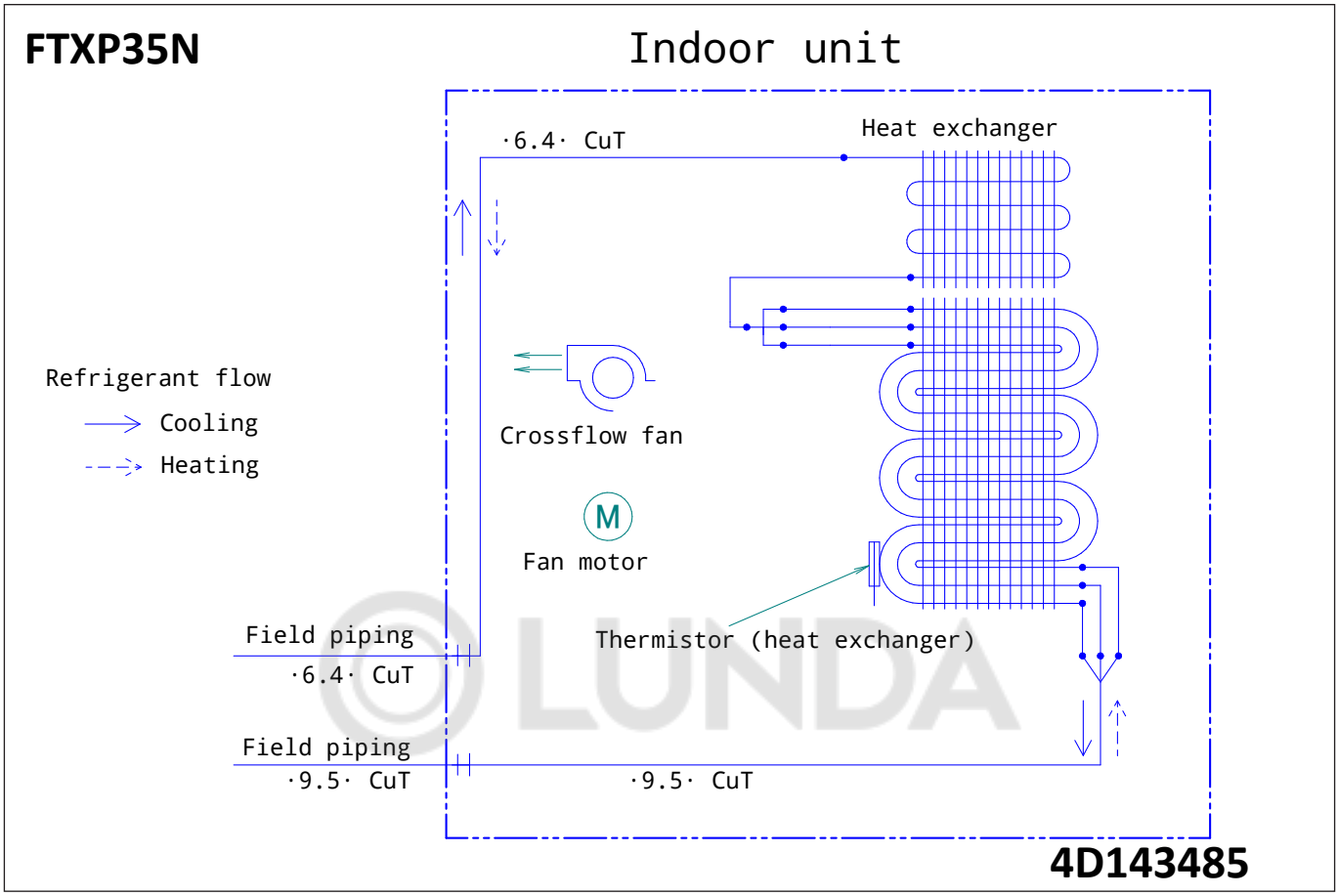
Thermistor (heat exchanger)

Heat exchanger

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6 Piping diagrams

6 - 1 Piping Diagrams



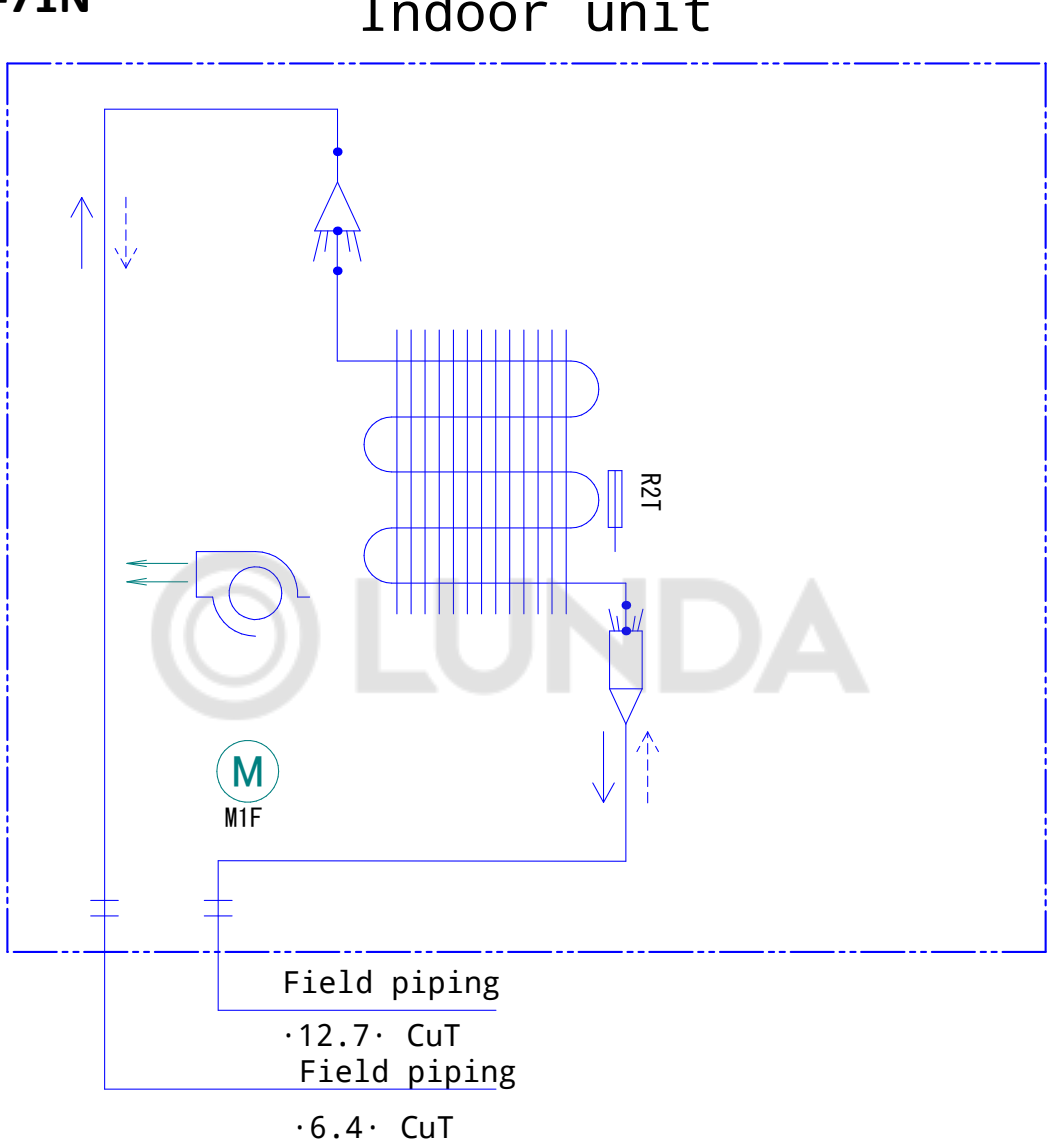
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6 Piping diagrams

6 - 1 Piping Diagrams

6

FTXP50-71N



Refrigerant flow

Cooling

Heating

Legend

M Fan motor

Distributor

Heat exchanger

Crossflow fan

Thermistor (heat exchanger)

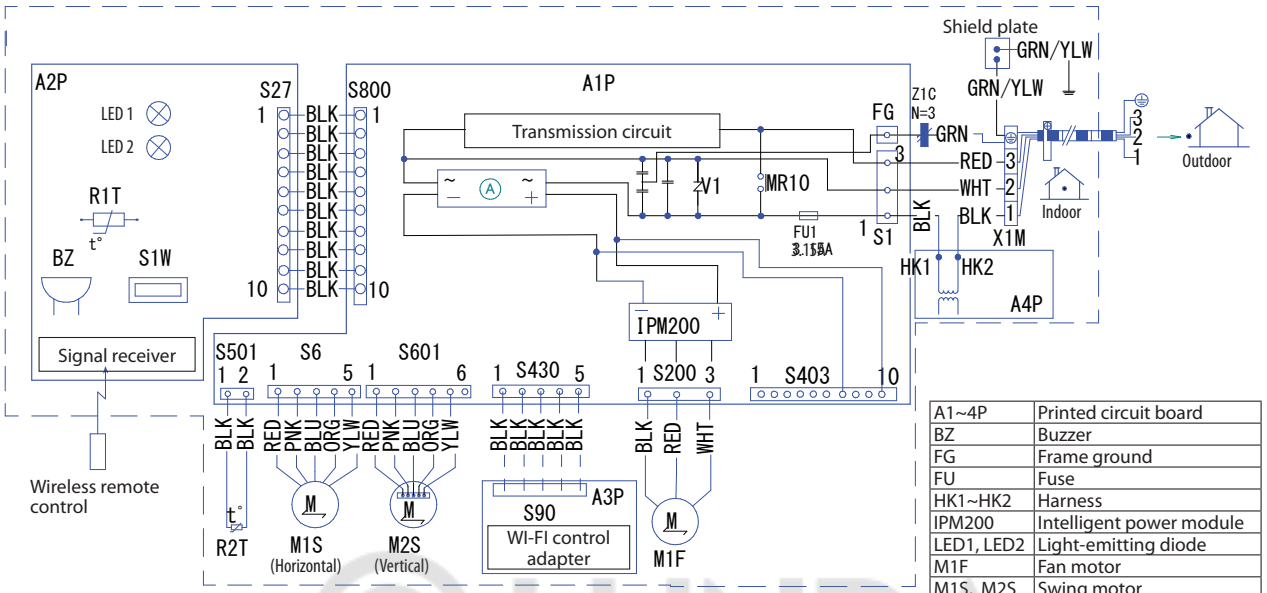
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7 Wiring diagrams

7 - 1 Wiring Diagrams - Three Phase

FTXP20-35N

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.

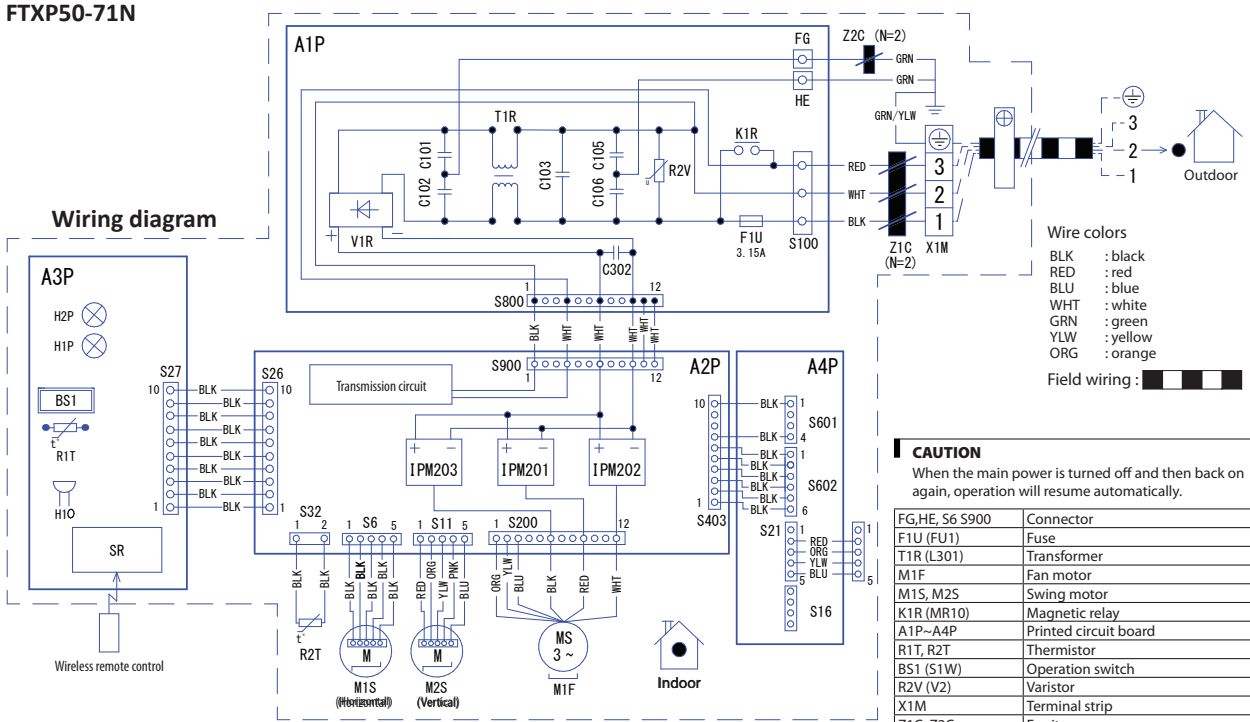
NOTES

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

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FTXP50-71N

Wiring diagram



Wire colors

BLK : black
RED : red
BLU : blue
WHT : white
GRN : green
YLW : yellow
ORG : orange

Field wiring :

CAUTION

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

FG,HE, S6 S900	Connector
F1U (FU1)	Fuse
T1R (L301)	Transformer
M1F	Fan motor
M1S, M2S	Swing motor
K1R (MR10)	Magnetic relay
A1P~A4P	Printed circuit board
R1T, R2T	Thermistor
BS1 (S1W)	Operation switch
R2V (V2)	Varistor
X1M	Terminal strip
Z1C, Z2C	Ferrite core
IPM201~203	Intelligent power module
H1P, H2P (LED 1~2)	Pilot lamp
⏚	Protective earth
V1R (DB301)	Diode bridge
H1O (BZ)	Buzzer
C101~302	Capacitor
SR (WLU)	Signal receiver

NOTES

1. Size: length 86 X width 130.
2. Refer to purchasing specification AS303002, unless otherwise specified.

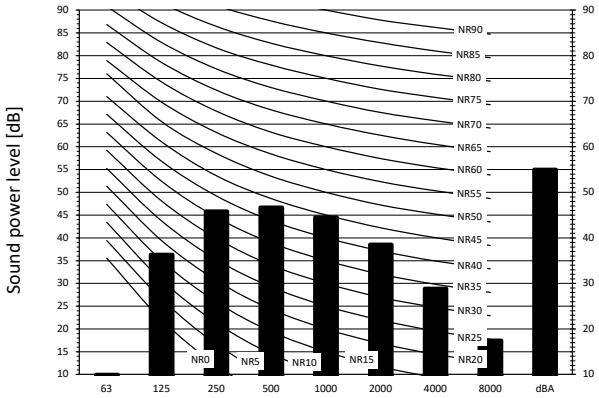
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8 Sound data

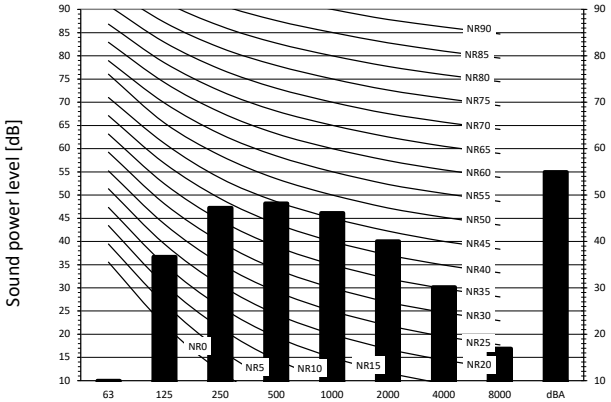
8 - 1 Sound Power Spectrum

FTXP20-25N

Cooling mode



Heating mode



Fan speed: High

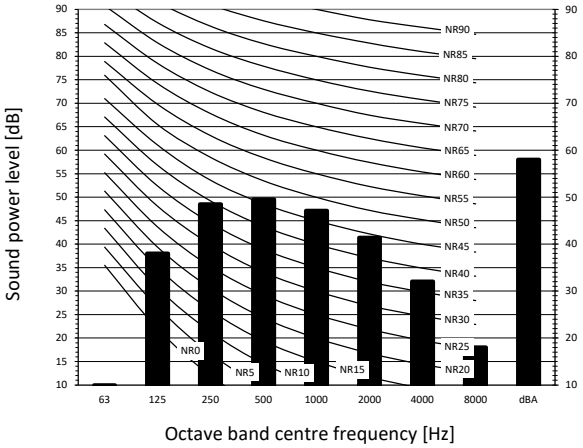
Notes

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

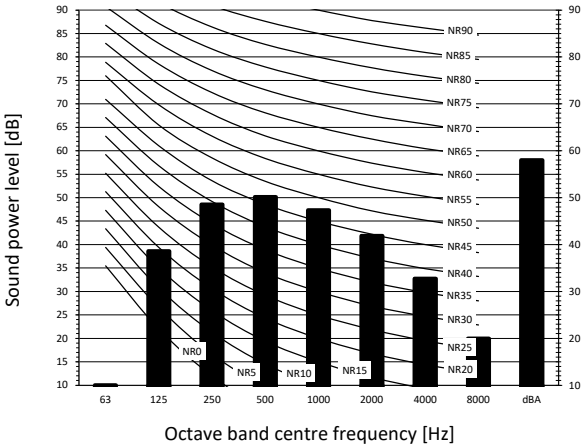
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FTXP35N

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

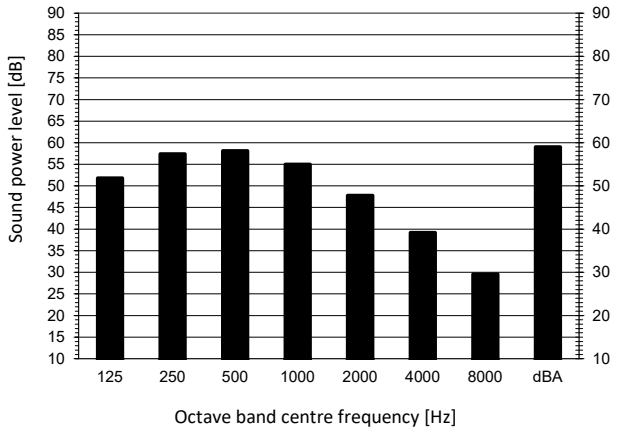
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8 Sound data

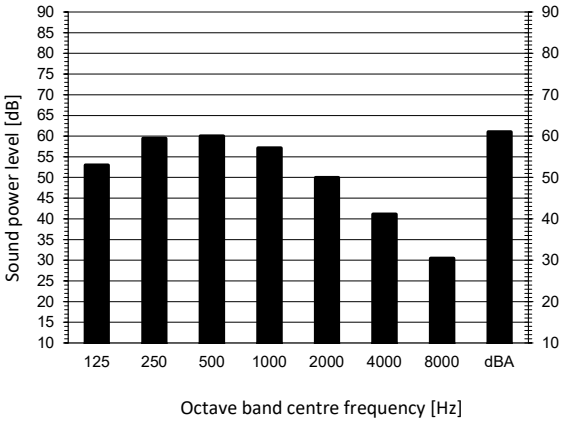
8 - 1 Sound Power Spectrum

FTXP50N

Cooling mode



Heating mode



Fan speed: High

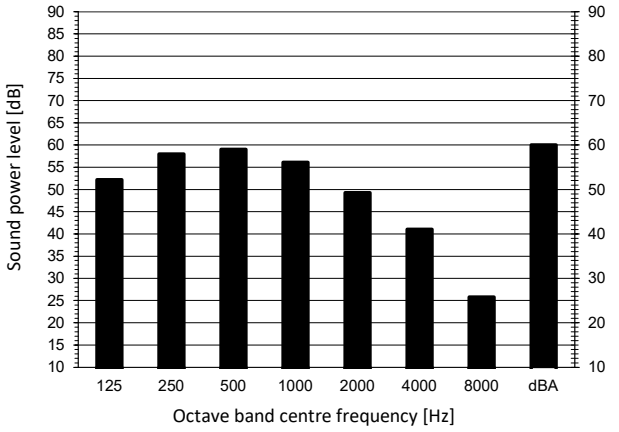
Notes

1. dBA = A-weighted sound power level (A scale according to IEC).
2. Reference acoustic power 0 dB = ·10E-6·µW
3. Measured according to ISO 3744

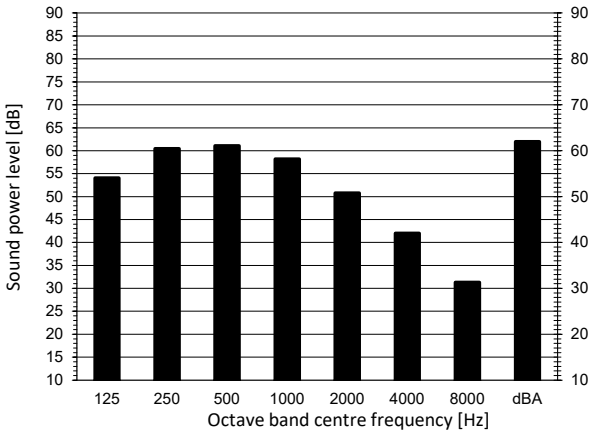
4D142738

FTXP60N

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 = ·10E-6·µW
3. Measured according to ISO 3744

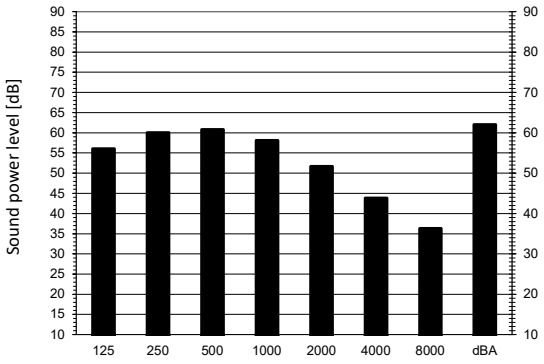
4D142739

8 Sound data

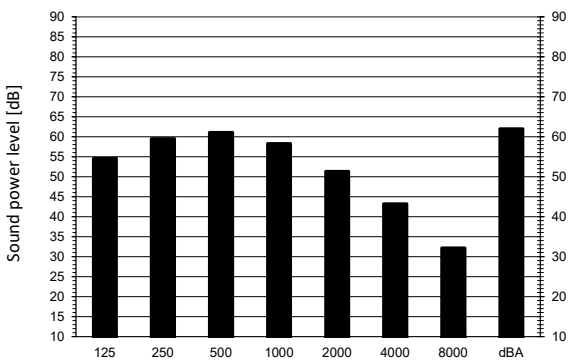
8 - 1 Sound Power Spectrum

FTXP71N

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 = ·10E-6·µW
3. Measured according to ISO 3744

LUNDA

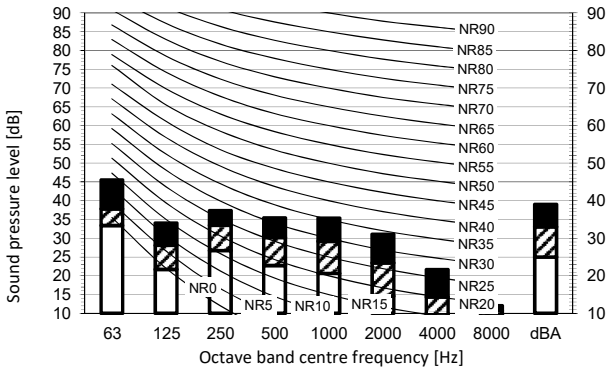
4D142749

8 Sound data

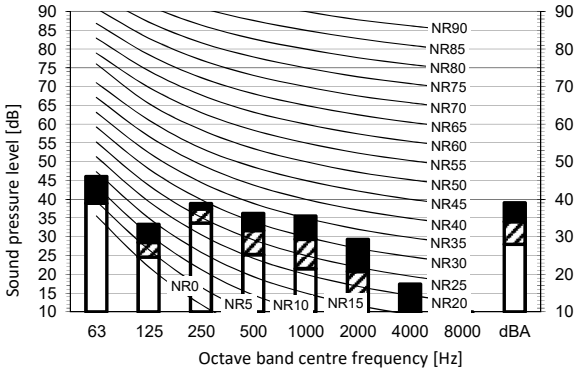
8 - 2 Sound Pressure Spectrum

FTXP20N

Cooling mode



Heating mode

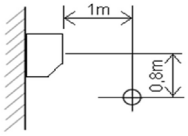


Legend

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

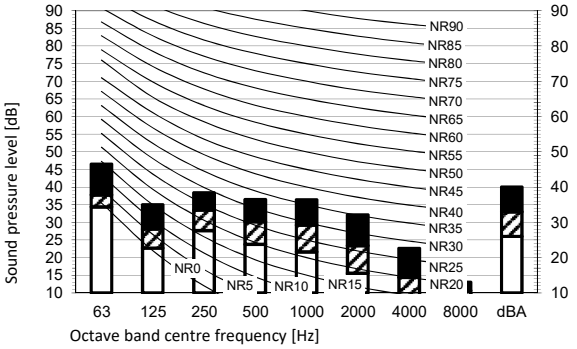
Notes

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

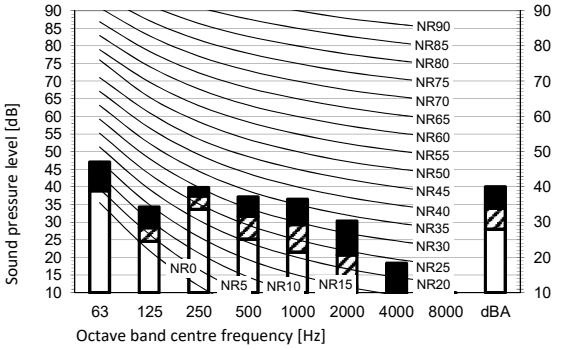
3D121480

FTXP25N

Cooling mode



Heating mode

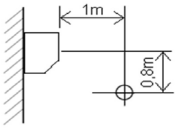


Legend

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

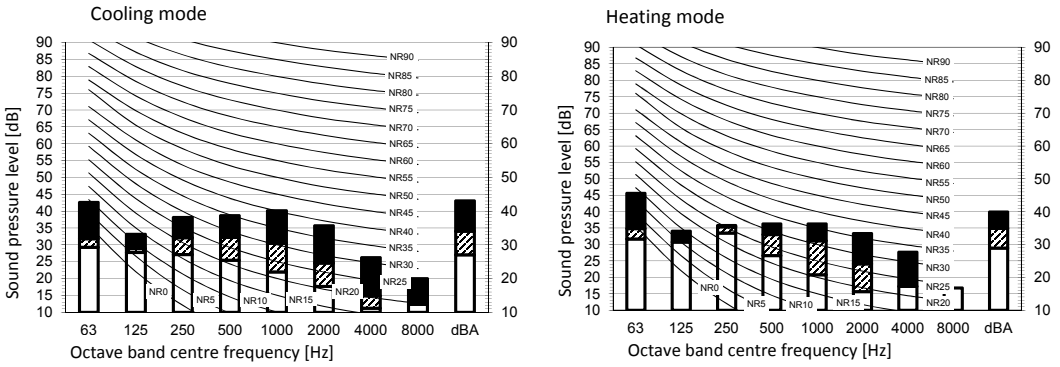
3D121481

8 Sound data

8 - 2 Sound Pressure Spectrum

8

FTXP35N



Legend

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

A Scale Fan speed
B High
C Medium
D Low

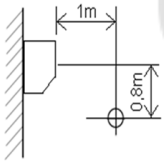
Cooling Total dB

A	B	C	D
dBA	43	34	27

Heating Total dB

A	B	C	D
dBA	40	35	29

Location of microphone

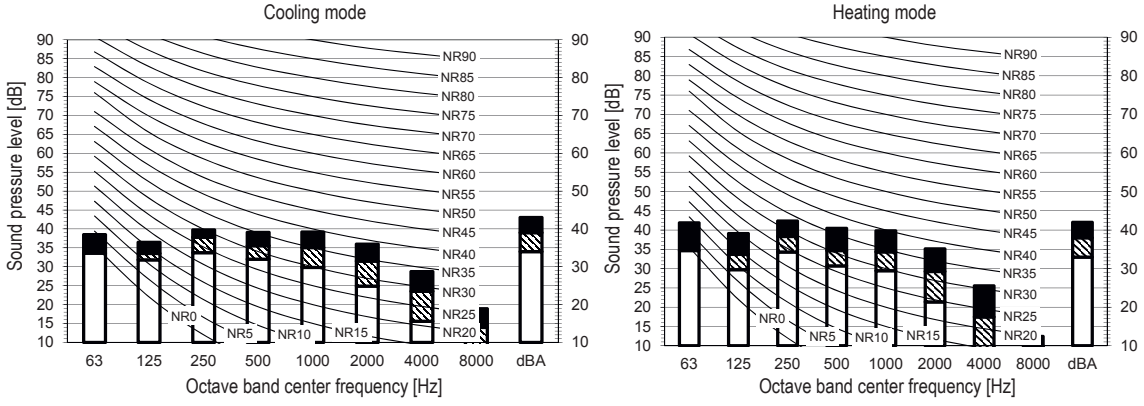


Notes

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

3D108791A

FTXP50N

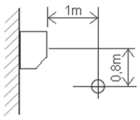


LEGEND

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	43	39	34

Heating Total dB

A	B	C	D
dBA	42	38	33

NOTES

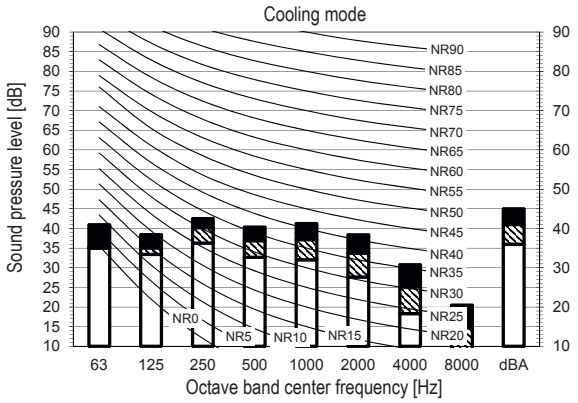
1. Operating conditions: power source 220-240·V ·50·Hz; JIS standard
2. Background noise already taken into account.
3. Operating noise varies depending on operation and ambient conditions.
4. The operation noise measuring method is in accordance with JISC9612.
5. Measuring location: anechoic chamber

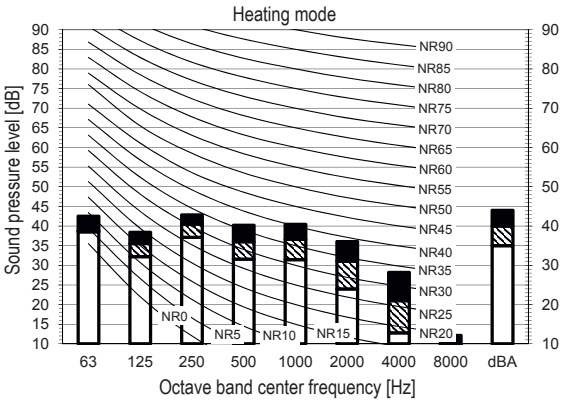
3D108792B

8 Sound data

8 - 2 Sound Pressure Spectrum

FTXP60N



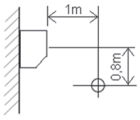


LEGEND

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	41	36

Heating Total dB

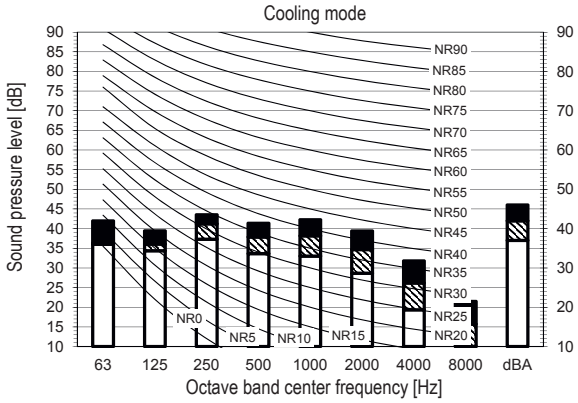
A	B	C	D
dBA	44	40	35

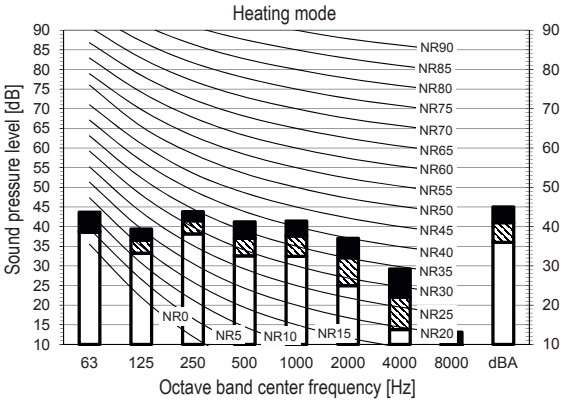
NOTES

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

3D115179A

FTXP71N



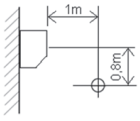


LEGEND

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 50 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

3D115180A

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EEDEN23A 02/2023

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