

Wall mounted air-to-air heat pumps Air Conditioning Technical Data FTXA-DC



FTXA20D2V1BC
FTXA25D2V1BC
FTXA35D2V1BC
FTXA42D2V1BC
FTXA50D2V1BC

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FTXA-DC

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1 Features

1 - 1 FTXA-DC

Where comfort meets style

1

- › A compact and functional unit featuring a colourful fabric-style front panel paired with a white body, designed to complement a wide range of interiors
- › Voice command via Amazon Alexa or Google Assistant to control main functions such as set point, operation mode, fan speed, etc
- › 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
- › The Coanda effect optimises the airflow for a comfortable climate. By using specially designed flaps, a more focused airflow allows a better temperature distribution throughout the whole room
- › The intelligent thermal sensor determines the current room temperature and distributes air evenly throughout the room before switching to an airflow pattern that directs warm or cool air to areas that need it
- › Whisper quiet in operation: the operating of the unit can hardly be heard. The sound pressure level goes down to 19dBA!
- › 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
- › Onecta app: control your indoor from any location with an app, via your local network or internet.
- › Seasonal efficiency values up to A+++ in cooling and heating



								
Coanda effect - heating	Coanda effect - cooling	Intelligent thermal sensor	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	Outdoor unit silent operation	3-D air flow	Vertical auto swing	Horizontal auto swing	Auto fan speed	Fan speed steps

1 Features

1 - 1 FTXA-DC



Dry programme



Silver allergen removal and air purifying filter



Flash Streamer



Practically inaudible



Titanium apatite deodorising filter



Air filter



Weekly timer



Infrared remote control



Wired remote control



Centralised control



Auto-restart



Self diagnosis



Multi model application

2 Specifications

2 - 1 Specifications

Technical specifications				FTXA20DC	FTXA25DC	FTXA35DC	FTXA42DC	FTXA50DC	
Power input	Cooling	Nom.	kW	0.020	0.022	0.023	0.028	0.030	
	Heating	Nom.	kW	0.020		0.220	0.036	0.039	
Casing	Colour			Casing: White, Panel: Colourful fabric					
Dimensions	Unit	Height	mm	295					
		Width	mm	798					
		Depth	mm	189					
	Packed unit	Height	mm	305					
		Width	mm	875					
		Depth	mm	406					
Weight	Unit			kg					
	Packed unit			kg					
Packing	Weight			kg					
Heat exchanger	Length			mm					
	Rows	Quantity			2				
		Fin pitch			mm				
	Face area			m ²					
	Stages	Quantity			18				
		Passes	Quantity			3.385			
	Tube type			ø5 Hi-XB					
	Tube material			Copper					
	Tube diameter			mm					
	Fin	Type			Multi slit fin				
		Quantity			2				
	Heat exchanger 2	Length			mm				
		Rows	Quantity			1			
Fin pitch					mm				
Face area				m ²					
Stages		Quantity			4				
		Type			Cross flow fan				
Fan	Quantity			1					
	Air flow rate	Cooling	High	m ³ /min	11.0	11.5	11.9	13.1	13.5
				cfm	388	406	420	463	477
			Medium	m ³ /min	8.2	8.6		9.8	10.4
		cfm	290	304		346	367		
		Low	m ³ /min	6.1		7.2	7.6		
			cfm	215		254	268		
	Fan	Air flow rate	Cooling	Silent operation	m ³ /min	4.6			5.2
					cfm	162			184
		Heating	High	m ³ /min	10.9	11.1	11.5	14.6	15.1
cfm				385	392	406	516	533	
Medium	m ³ /min	8.7	9.0		10.5	11.1			
	cfm	307	318		371	392			
Low	m ³ /min	6.4		7.7	8.2				
	cfm	226		272	290				
Silent operation	m ³ /min	4.5		5.2	5.7				
	cfm	159		184	201				
Fan motor	Quantity			1					
	Model			MM9G21V28VA					
Speed	Cooling	High	rpm	1,100	1,140	1,180	1,210	1,240	
			rpm	870	900		980	1,020	
		Low	rpm	690		780	820		
			Silent operation			570	620		
	Heating	High	rpm	1,090	1,110	1,140	1,310	1,350	
			rpm	920	940		1,070	1,190	
		Low	rpm	740		850	930		
			Silent operation			590	640	680	
	Sound power level	Cooling			57			60	
	Sound pressure level	Cooling	High	dBA	39	40	41	45	46
dBA				32	33		37	39	
Low			dBA	25		29	31		
			Silent operation			19	21	24	
Heating		High	dBA	39	40	41	45	46	
			dBA	32	33		37	42	
		Low	dBA	25		29	33		
			Silent operation			19	21	24	
Refrigerant		Type			R-32				
		GWP			675.0				
Piping connections	Liquid	OD	mm	6.35					
		Gas	OD	mm	9.50		12.7		
	Drain			18					
	Heat insulation			Both liquid and gas pipes					

2 Specifications

2 - 1 Specifications

Technical specifications			FTXA20DC	FTXA25DC	FTXA35DC	FTXA42DC	FTXA50DC
Air filter	Type		Removable / washable				
	Quantity	pc	2				
Air direction control			Right, Left, Horizontal, Downward				
Temperature control			Microcomputer control				
Control systems	Infrared remote control		ARC466A94				
	Wired remote control		BRC073A1				

Standard accessories: Installation manual;Quantity: 1;

Standard accessories: Screw cover;Quantity: 2;

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

Standard accessories: General safety precautions;Quantity: 1;

Standard accessories: Operation manual;Quantity: 1;

Standard accessories: Air filter;Quantity: 2;

Standard accessories: Infrared remote control;Quantity: 1;

Standard accessories: Remote controller mounting plate;Quantity: 1;

Standard accessories: Screw bag;Quantity: 1;

Electrical specifications				FTXA20DC	FTXA25DC	FTXA35DC	FTXA42DC	FTXA50DC
Power supply	Name			V1				
	Phase			1~				
	Frequency	Hz		50				
	Voltage	V		220-240				
Current	Nominal running current (RLA) - 50Hz	Heating	A	0.3	0.4		0.5	0.6
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	A	0.3	0.4		0.5	0.6

3 Options

3 - 1 Options

3

 CTXA-DC / CTXA-DG / CTXA-DL / CTXA-DP / CTXA-DY
 FTXA-DC / FTXA-DG / FTXA-DL / FTXA-DP / FTXA-DY

Option kit	Product name	Remark	Applicable models						
			Class	Casing	Factory	D/Cc			
			15	20	25	35	42	50	30
			CTXA15D2V1B(G/P/L/C/Y)	FTXA20D2V1B(G/P/L/C/Y)	FTXA25D2V1B(G/P/L/C/Y)	FTXA35D2V1B(G/P/L/C/Y)	FTXA42D2V1B(G/P/L/C/Y)	FTXA50D2V1B(G/P/L/C/Y)	FTXA30D2V1B(G/P/L/Y)
Wired remote control	BRC073A1	(2) (3)	✓	✓	✓	✓	✓	✓	✓
Extension cord for wired remote control (-3 m)	BRCW901A03		✓	✓	✓	✓	✓	✓	✓
Extension cord for wired remote control (-8 m)	BRCW901A08		✓	✓	✓	✓	✓	✓	✓
Intelligent Tablet Controller	DCC601A51	(2) (3)	✓	✓	✓	✓	✓	✓	✓
Wiring adaptor (normal open contact - normal open pulse contact)	KRP413AB15	(2) (3)	✓	✓	✓	✓	✓	✓	✓
Interface adaptor for DIII-NET	KRP9288B25	(2) (3)	✓	✓	✓	✓	✓	✓	✓
Central remote control	DCS302CA51	(2) (3)	✓	✓	✓	✓	✓	✓	✓
Unified ON/OFF controller	DCS301BA51	(2) (3)	✓	✓	✓	✓	✓	✓	✓
Schedule timer	DST301BA51	(2) (3)	✓	✓	✓	✓	✓	✓	✓
Intelligent Touch Manager	DCM601A5A	(2) (3)	✓	✓	✓	✓	✓	✓	✓
Modbus- interface	EKM8DXA7V1	(2) (3)	✓	✓	✓	✓	✓	✓	✓
Modbus gateway	RTD-RA	(2) (3)	✓	✓	✓	✓	✓	✓	✓
KNX- interface	KLIC-DD	(2) (3)	✓	✓	✓	✓	✓	✓	✓
Titanium apatite deodorising filter without frame	KAF970A46	(1)	✓	✓	✓	✓	✓	✓	✓
Conversion wire harness	EKRS21		✓	✓	✓	✓	✓	✓	✓

Notes

- Standard accessory
- This option features a(n) -S21- connector. To connect this option to the indoor unit, therefore conversion wire harness -EKRS21- 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.

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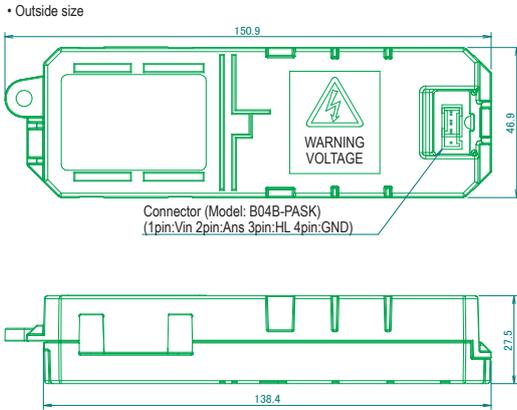
4 Dimensional drawings

4 - 1 Dimensional Drawings

CTXA-DC / CXTA-DG / CXTA-DL / CXTA-DP / CXTA-DY
FTXA-DC / FTXA-DG / FTXA-DL / FTXA-DP / FTXA-DY

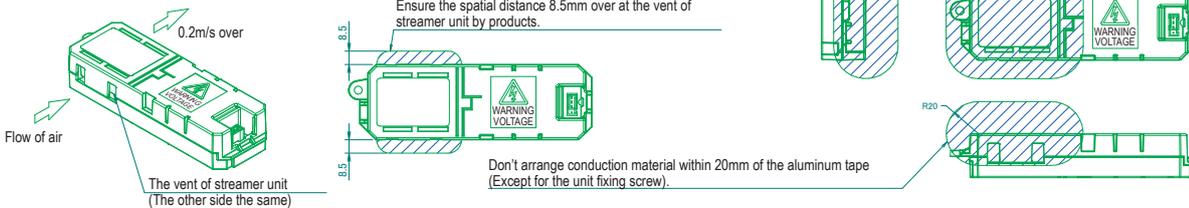
• Main specifications

Items	Contents		
Outside	Outside size	150.9×46.9×27.5mm	
	Weight	100g	
Material of resin	Material	ABS	
	Flame retardance	UL94-5VA	
	Tracking index	Over CT1600V	
Applicable laws	Electrical Appliance and Material Safety Act IEC60335-1(4th), IEC60335-2-65(4th)		
Ambient conditions	Storage temperature	-25~70 (Non-Energization)	
	Operating ambient temperature	-10~60 (Energization)	
Basic specifications	Operating ambient humidity	5~95%RH (No dew deposit)	
	Input voltage	14V±5%	
	Maximum output voltage	6.5±0.5kV	
	Rating output voltage	5.0±0.5kV	
	Rating output current	Hi	55.5μA±10%
		Lo	10μA±10%
	ON/OFF	Inputted voltage into Vin (ON/OFF)	
	Hi ↔ Lo Switching	Inputted 5V into HL (Loe tap)	
	Current monitor	Yes	
	Detectable over current	Yes	
Detectable low voltage	Under 3kV		
Generation amount of Ozone	4.26ml/hr (Hi 14±2; 50±10%RH)		
Method of mounting	Fixing by the right and left hook Fixing by the screw section		



• Outside size

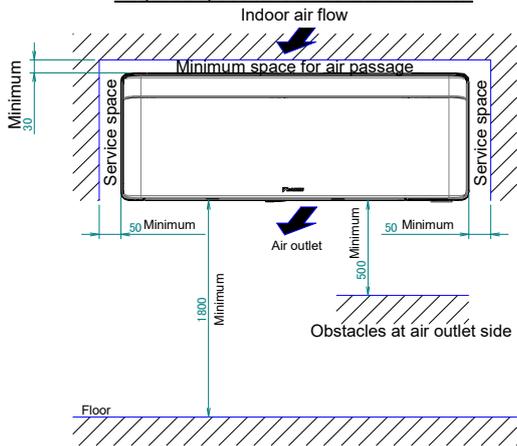
• Method of mounting
Don't blockage the vent of streamer unit.
Ensure the exit wind speed 0.2m/sec of the vent.
Ensure the spatial distance 8.5mm over at the vent of streamer unit.



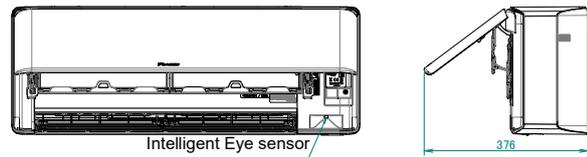
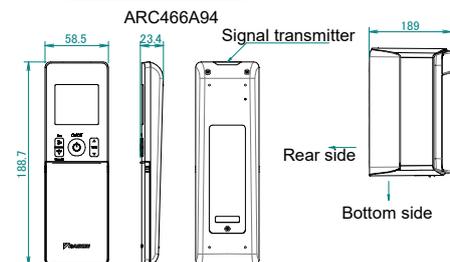
3D095530G

CTXA-DC / CXTA-DG / CXTA-DL / CXTA-DP / CXTA-DY
FTXA-DC / FTXA-DG / FTXA-DL / FTXA-DP / FTXA-DY

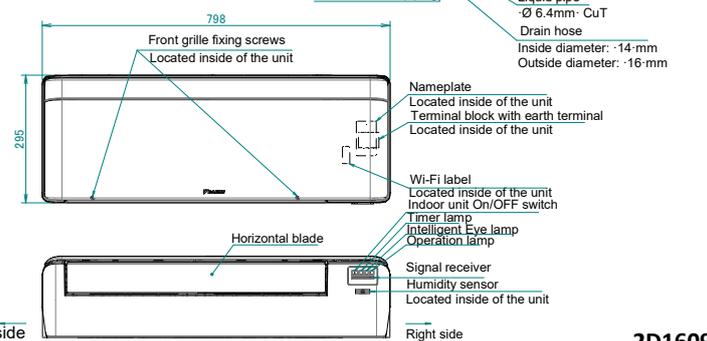
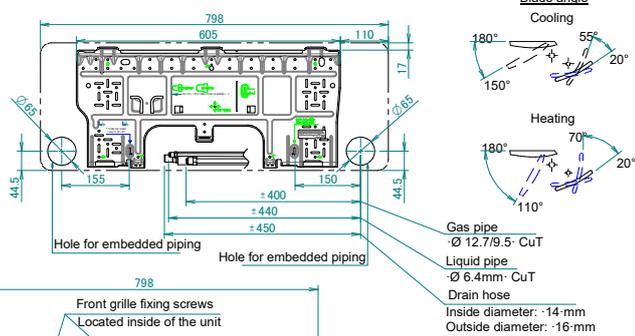
Required space for service and ventilation



Wireless remote control



Standard location of holes in the wall



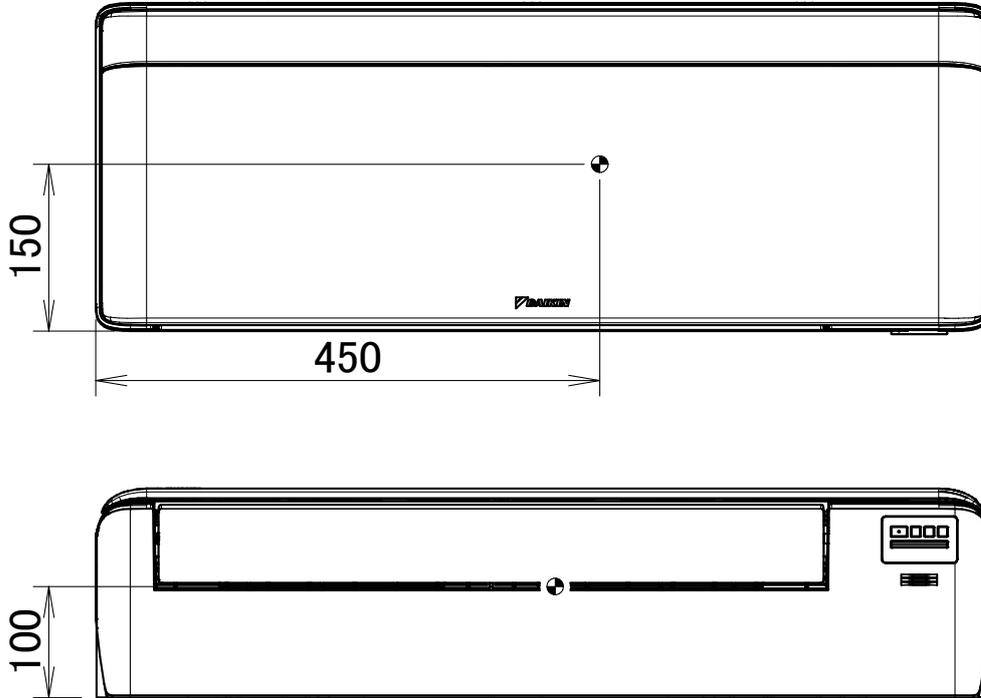
2D160904

5 Centre of gravity

5 - 1 Centre of Gravity

CTXA-DC / CXTA-DG / CXTA-DL / CXTA-DP / CXTA-DY
FTXA-DC / FTXA-DG / FTXA-DL / FTXA-DP / FTXA-DY

5



4D147660

6 Piping diagrams

6 - 1 Piping Diagrams

CTXA-DC / CXTA-DG / CXTA-DL / CXTA-DP / CXTA-DY
 FTXA-DC / FTXA-DG / FTXA-DL / FTXA-DP / FTXA-DY

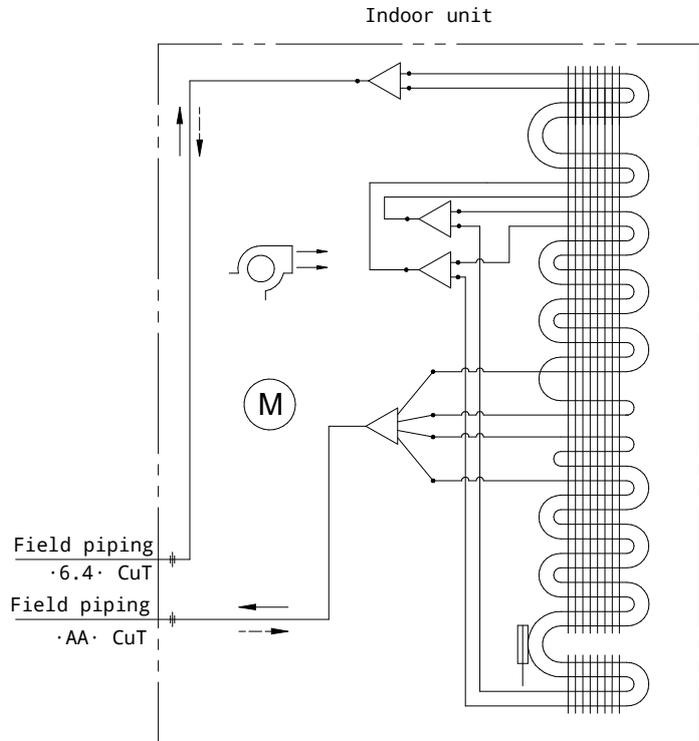
Legend

-  Fan motor
-  Thermistor
-  Heat exchanger
-  Crossflow fan
-  Distributor
-  Screw connection

Refrigerant flow

-  Cooling
-  Heating

AA	Class
9.5	15~42
12.7	50



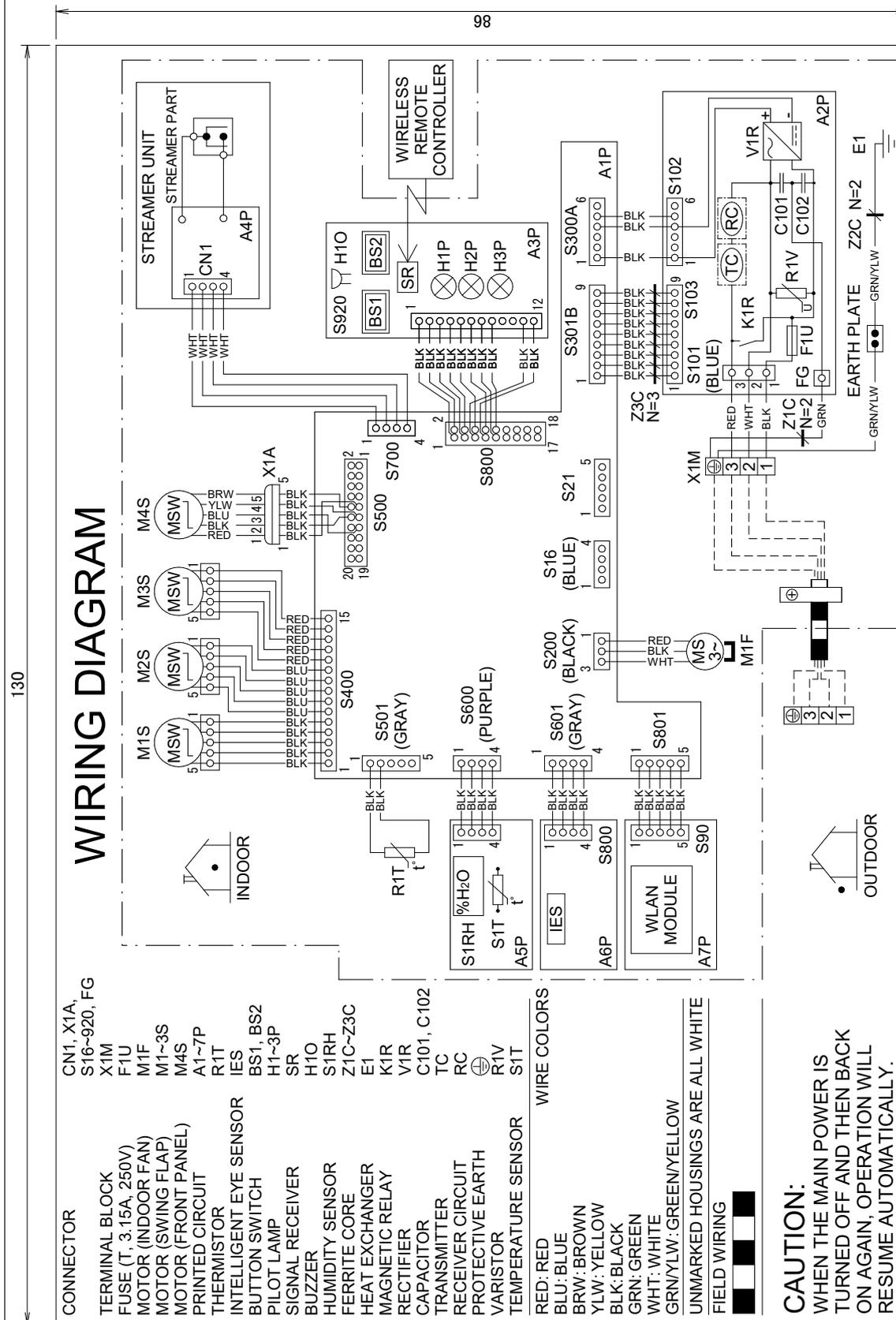
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7 Wiring diagrams

7-1 Wiring Diagrams - Single Phase

7

CTXA-DC / CXTA-DG / CXTA-DL / CXTA-DP / CXTA-DY
FTXA-DC / FTXA-DG / FTXA-DL / FTXA-DP / FTXA-DY



WIRING DIAGRAM

- CONNECTOR**
 CN1, X1A, S16~920, FG, X1M, F1U, M1F, M1~3S, M4S, A1~7P, R1T, IES, BS1, BS2, H1~3P, SR, H10, S1RH, Z1C~Z3C, E1, K1R, V1R, C101, C102, RC, RC, ⚡, R1V, S1T, TEMPERATURE SENSOR
- WIRE COLORS**
 RED: RED
 BLU: BLUE
 BRW: BROWN
 YLW: YELLOW
 BLK: BLACK
 GRN: GREEN
 WHT: WHITE
 GRN/YLW: GREEN/YELLOW
 UNMARKED HOUSINGS ARE ALL WHITE
- FIELD WIRING**

CAUTION:
 WHEN THE MAIN POWER IS TURNED OFF AND THEN BACK ON AGAIN, OPERATION WILL RESUME AUTOMATICALLY.

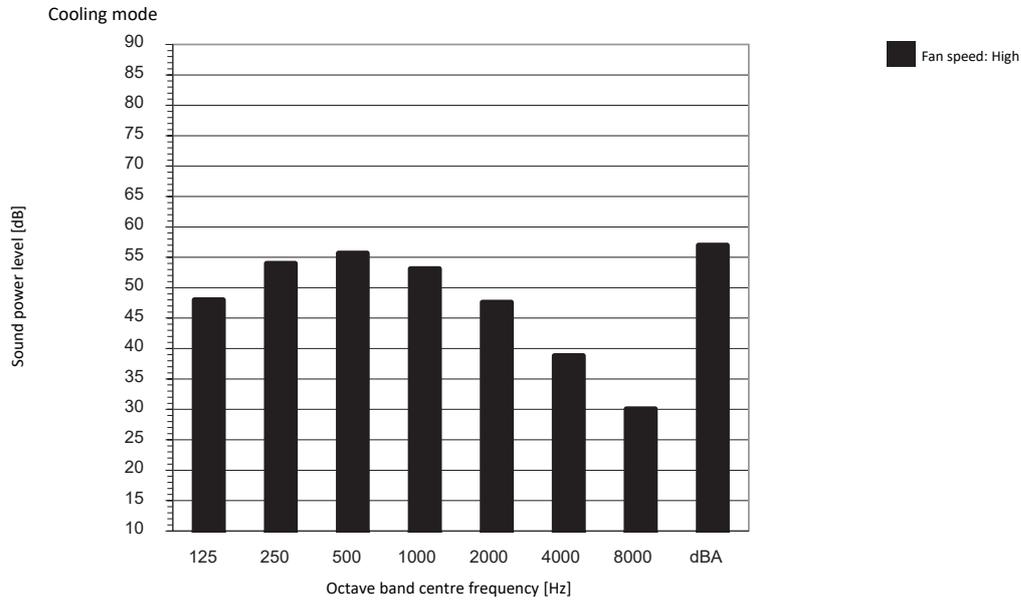
- NOTES:**
1. SIZE: HEIGHT 86 x WIDTH 130
 2. REFER TO PURCHASING SPECIFICATION AS030002 UNLESS OTHERWISE SPECIFIED.

3D145108

8 Sound data

8 - 1 Sound Power Spectrum

CTXA20DC / CTXA20DG / CTXA20DL / CTXA20DP / CTXA20DY
 FTXA20DC / FTXA20DG / FTXA20DL / FTXA20DP / FTXA20DY

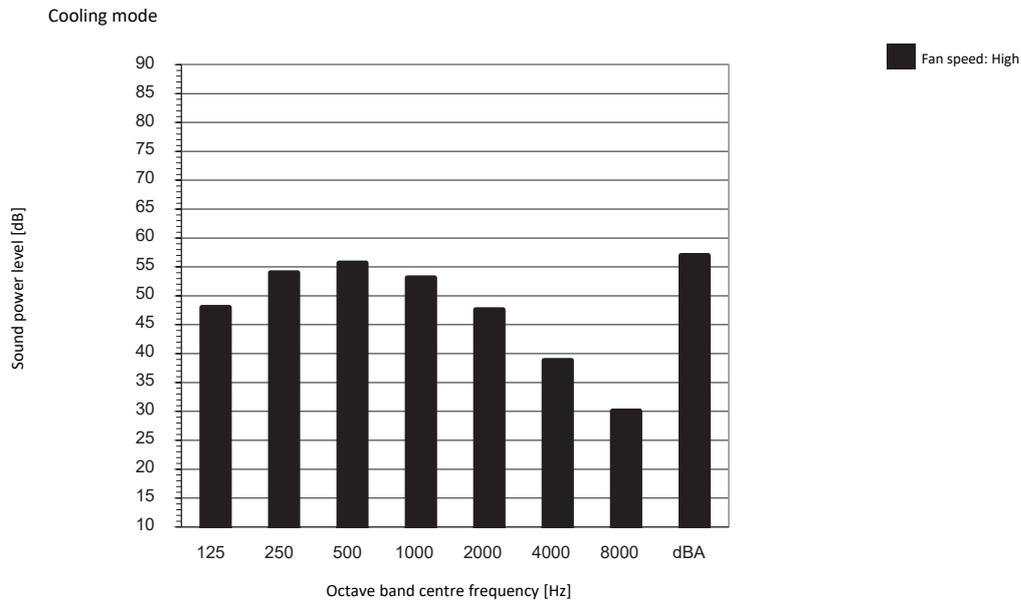


Notes

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

3D115037B

FTXA25DC / FTXA25DG / FTXA25DL / FTXA25DP / FTXA25DY



Notes

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

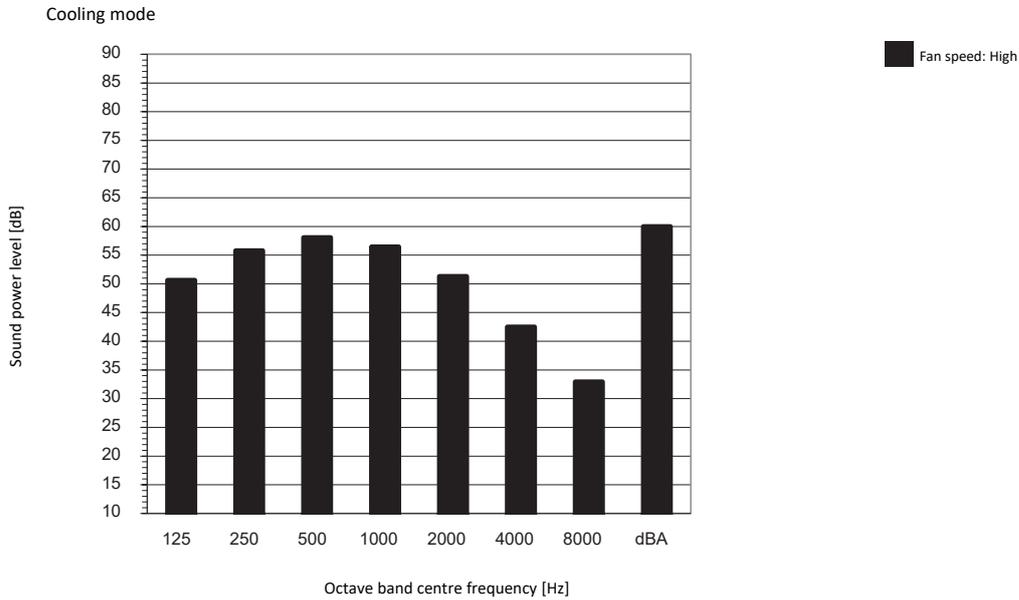
3D115038B

8 Sound data

8 - 1 Sound Power Spectrum

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FTXA35DC / FTXA35DG / FTXA35DL / FTXA35DP / FTXA35DY

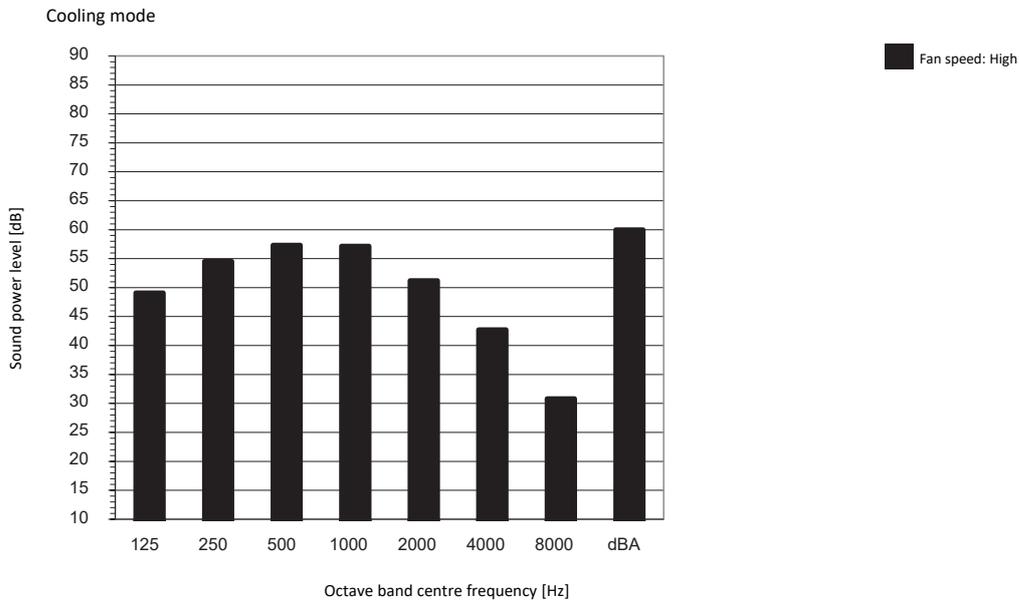


Notes

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

3D115039B

FTXA42DC / FTXA42DG / FTXA42DL / FTXA42DP / FTXA42DY



Notes

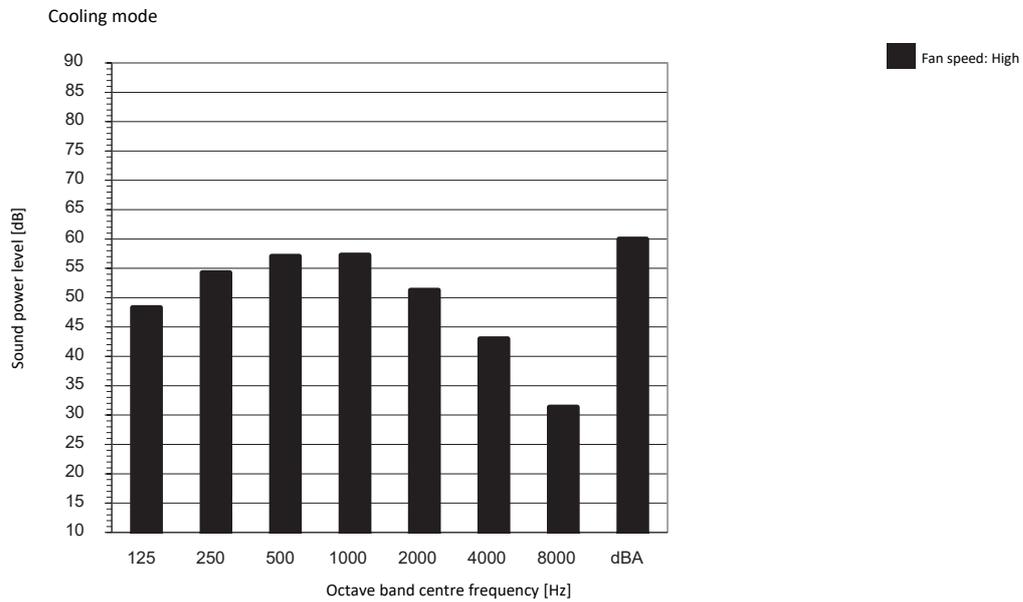
1. dBA = A-weighted sound power level (A scale according to IEC).
2. Reference acoustic intensity $0\text{dB} = 10^{-12} \text{ W/m}^2$
3. Measured according to ISO 3744

3D115040B

8 Sound data

8 - 1 Sound Power Spectrum

FTXA50DC / FTXA50DG / FTXA50DL / FTXA50DP / FTXA50DY



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

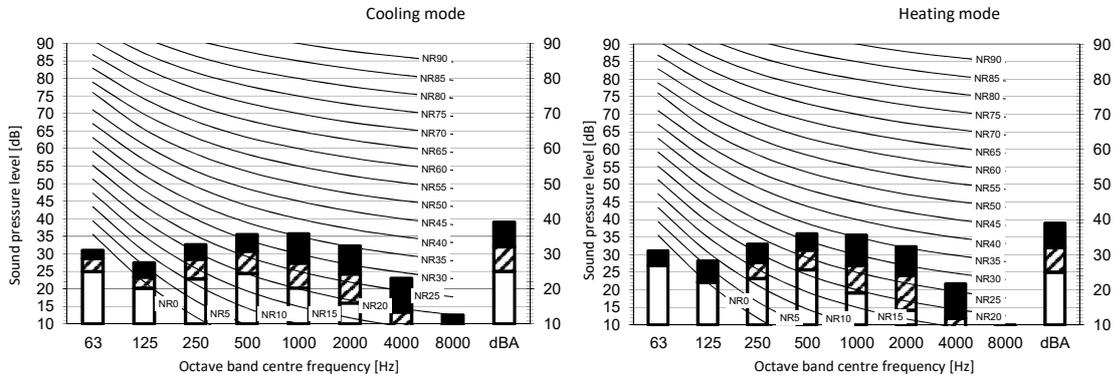
3D115041B

8 Sound data

8 - 2 Sound Pressure Spectrum

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FTXA20DC / FTXA20DG / FTXA20DL FTXA20DP / FTXA20DY



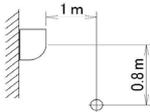
Legend

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	39	32	25		

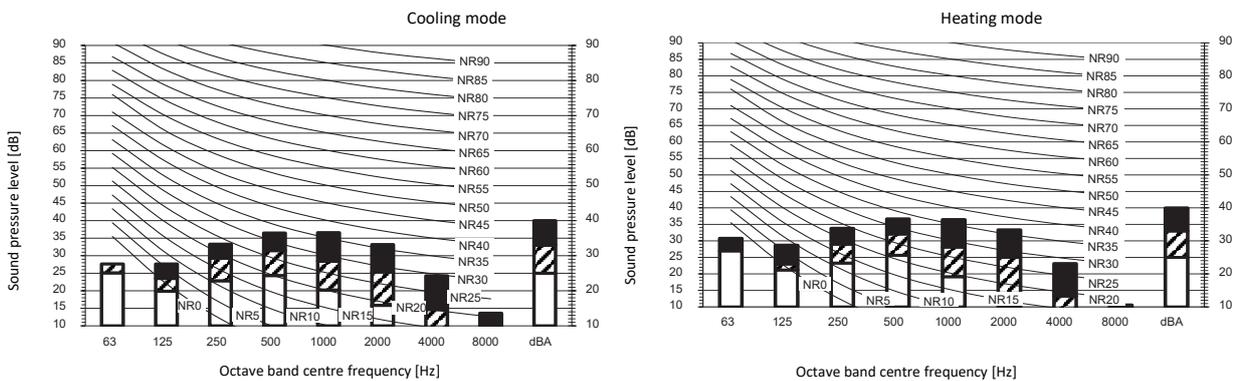
Heating		Total dB			
A	B	C	D		
dBA	39	32	25		

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

3D114919C

FTXA25DC / FTXA25DG / FTXA25DL FTXA25DP / FTXA25DY



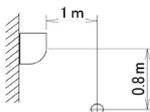
Legend

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	40	33	25		

Heating		Total dB			
A	B	C	D		
dBA	40	33	25		

Notes

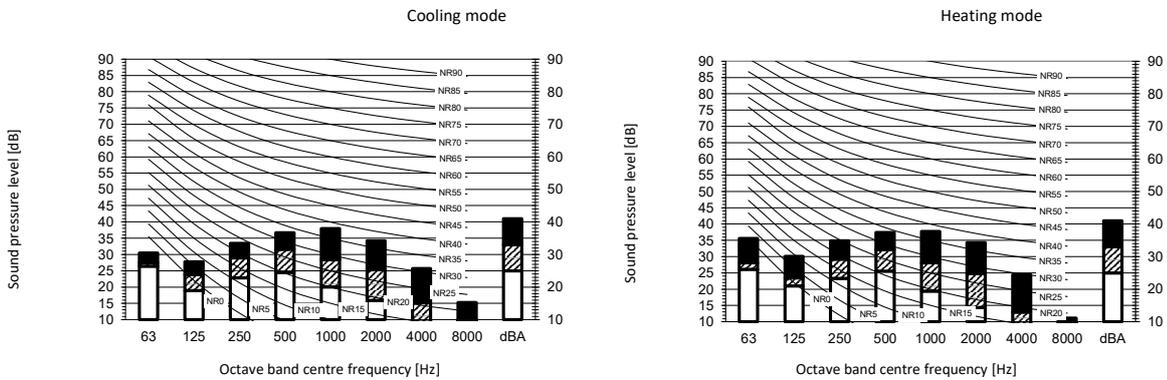
1. Operating conditions: power source 220-240 V 50 Hz; JIS standard
2. Background noise already taken into account.
3. Operating noise varies depending on operation and ambient conditions.
4. The operation noise measuring method is in accordance with JISC9612.
5. Measuring location: anechoic chamber

3D114920C

8 Sound data

8 - 2 Sound Pressure Spectrum

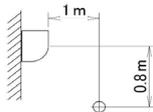
FTXA35DC / FTXA35DG / FTXA35DL FTXA35DP / FTXA35DY



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



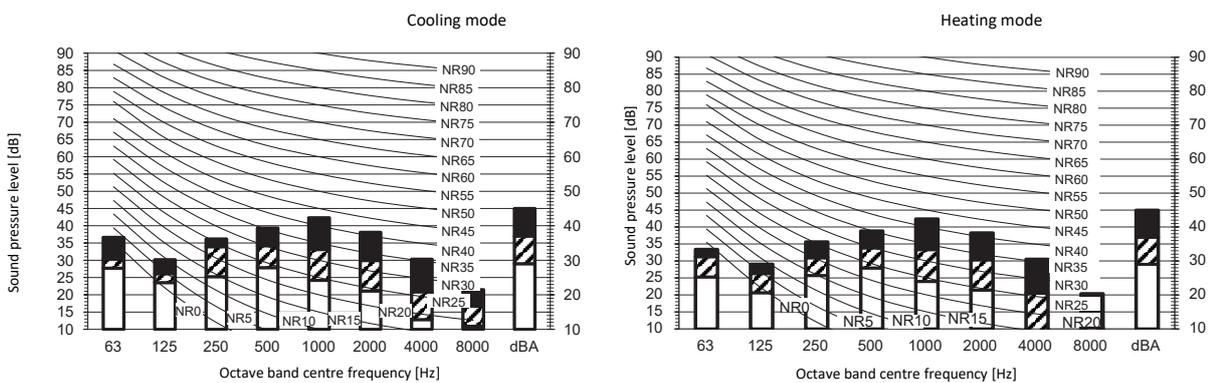
Cooling				Heating			
Total dBA				Total dB			
A	B	C	D	A	B	C	D
dBA	41	33	25	dBA	41	33	25

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

3D114921C

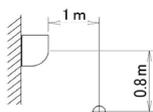
FTXA42DC / FTXA42DG / FTXA42DL FTXA42DP / FTXA42DY



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				Heating			
Total dBA				Total dB			
A	B	C	D	A	B	C	D
dBA	45	37	29	dBA	45	37	29

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

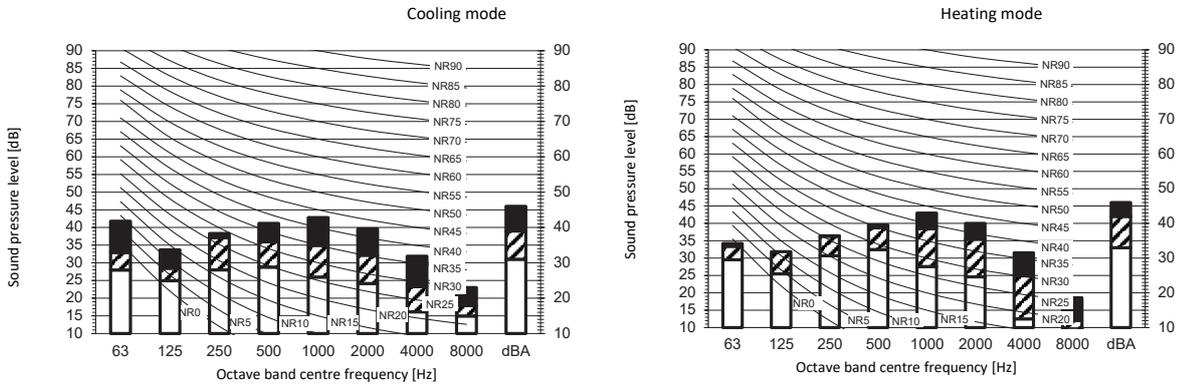
3D114922C

8 Sound data

8 - 2 Sound Pressure Spectrum

8

**FTXA50DC / FTXA50DG / FTXA50DL
FTXA50DP / FTXA50DY**



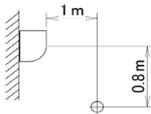
Legend

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	39	31

Heating Total dB

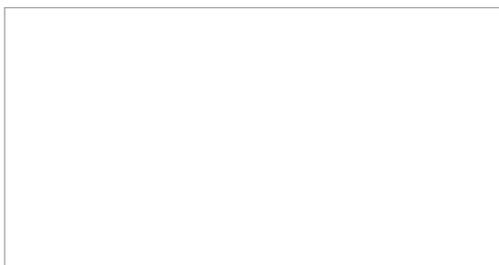
A	B	C	D
dBA	46	42	33

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

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Daikin Europe N.V. Naamloze Vennootschap · Zandvoordestraat 300 · 8400 Oostende · Belgium · www.daikin.eu · BE 0412 120 336 · RPR Oostende (Responsible Editor)



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