



# Wall mounted unit Air Conditioning Technical Data FTXA-CW



FTXA20C2V1BW  
FTXA25C2V1BW  
FTXA35C2V1BW  
FTXA42C2V1BW  
FTXA50C2V1BW



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# FTXA-CW

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# 1 Features

## 1 - 1 FTXA-CW

### Where innovation meets creativity

1

- › A compact and functional design suitable for all interiors in a matt crystal white finish
- › 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
- › 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
- › Whisper quiet in operation: the operating of the unit can hardly be heard. The sound pressure level goes down to 19dBA!
- › Onecta app: control your indoor from any location with an app, via your local network or internet.
- › 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
- › Seasonal efficiency values up to A+++ in cooling and heating



Coanda effect  
- cooling



Coanda effect  
- heating



Intelligent  
thermal sensor



Onecta app



Econo mode



Energy  
saving during  
standby mode



Night set  
mode



Fan only



Comfort mode

# 1 Features

## 1 - 1 FTXA-CW



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



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				FTXA20CW	FTXA25CW	FTXA35CW	FTXA42CW	FTXA50CW	
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			White					
Dimensions	Unit	Height	mm	295					
		Width	mm	798					
		Depth	mm	189					
	Packed unit	Height	mm	305					
		Width	mm	875					
		Depth	mm	406					
Weight	Unit			11.5					
	Packed unit			14					
Packing	Weight			2.5					
Heat exchanger	Length			622					
	Rows	Quantity		2					
		Fin pitch			1.40				
	Face area			0.214					
	Stages	Quantity		18					
		Passes	Quantity		3.000				
	Tube type			ø5 Hi-XB					
	Tube material			Copper					
	Tube diameter			5					
	Fin	Type		ML fin (Multi louver)					
		Quantity			2				
	Heat exchanger 2	Length			614				
		Rows	Quantity		1				
			Fin pitch			1.40			
Face area			0.047						
Stages		Quantity		4					
	Type			Cross flow fan					
Fan	Quantity			1					
	Air flow rate	Cooling	High	m <sup>3</sup> /min	11.0	11.5	11.9	13.1	13.5
				cfm	388	406	420	463	477
			Medium	m <sup>3</sup> /min	8.2	8.6		9.8	10.4
		cfm	290	304		346	367		
		Low	m <sup>3</sup> /min	6.1			7.2	7.6	
			cfm	215			254	268	
	Heating	High	m <sup>3</sup> /min	10.9	11.1	11.5	14.6	15.1	
			cfm	385	392	406	516	533	
		Medium	m <sup>3</sup> /min	8.7	9.0		10.5	11.1	
cfm			307	318		371	392		
Low	m <sup>3</sup> /min	6.4			7.7	8.2			
	cfm	226			272	290			
Silent operation	m <sup>3</sup> /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	rpm	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	rpm	590			640	680
	Sound power level	Cooling		dBA	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	dBA	19			21	24
Heating		High	dBA	39	40	41	45	46	
			dBA	32	33		37	42	
		Low	dBA	25			29	33	
			Silent operation	dBA	19			21	24
Refrigerant		Type			R-32				
		GWP			675.0				
Piping connections	Liquid	OD	mm	6.35					
		Gas	OD	mm	9.50			12.70	
	Drain			18					
	Heat insulation			Both liquid and gas pipes					

## 2 Specifications

### 2 - 1 Specifications

Technical specifications			FTXA20CW	FTXA25CW	FTXA35CW	FTXA42CW	FTXA50CW
Air filter	Type		Removable / washable				
	Quantity	pc	2				
Air direction control			Right, Left, Horizontal, Downward				
Temperature control			Microcomputer control				
Control systems	Infrared remote control		ARC466A85				
	Wired remote control		BRC073A1				

Standard accessories: Installation manual;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;

Standard accessories: Screw cover;Quantity: 2;

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

Standard accessories: General safety precautions;Quantity: 1;

Electrical specifications				FTXA20CW	FTXA25CW	FTXA35CW	FTXA42CW	FTXA50CW
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
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

# 3 Options

## 3 - 1 Options

3

FTXA-CB  
FTXA-CS  
FTXA-CW

Option kit	Product name	Remark	Applicable models							Class	Casing	Factory
			CTXA15CZV1BB, CTXA15CZV1BS	FTXA20CZV1BW, FTXA20CZV1BB, FTXA20CZV1BS	FTXA25CZV1BW, FTXA25CZV1BB, FTXA25CZV1BS	FTXA35CZV1BW, FTXA35CZV1BB, FTXA35CZV1BS	FTXA42CZV1BW, FTXA42CZV1BB, FTXA42CZV1BS	FTXA50CZV1BW, FTXA50CZV1BB, FTXA50CZV1BS	FTXA30CZV1BW, FTXA30CZV1BB			
Wired remote control	BRC073A1	(2)(3)	✓	✓	✓	✓	✓	✓	15	Stylish	Stylish midlife improvement	
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)	KRP413AB1S	(2)(3)	✓	✓	✓	✓	✓	✓				
Interface adaptor for DIII-NET	KRP928BB2S	(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	EKM6DXA7V1	(2)(3)	✓	✓	✓	✓	✓	✓				
Modbus gateway	RTD-RA	(2)(3)	✓	✓	✓	✓	✓	✓				
KNX- interface	KLIC-DD	(2)(3)	✓	✓	✓	✓	✓	✓				
Titanium apatite deodorising filter without frame	KAF970A46	(1)	✓	✓	✓	✓	✓	✓				
Silver particle filter (Ag-ion) with frame	KAF057A41	(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.

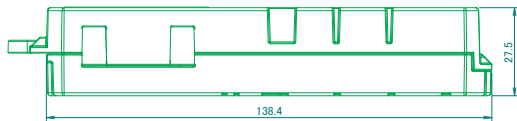
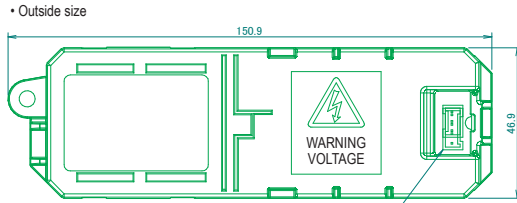
4D147525



# 4 Dimensional drawings

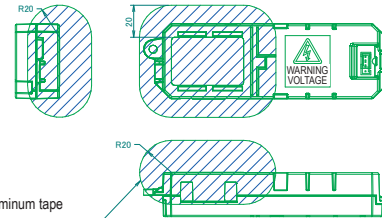
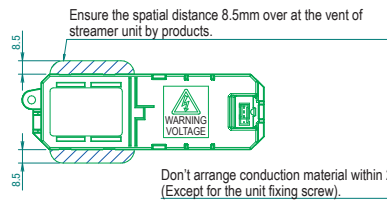
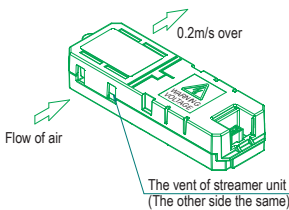
## 4 - 1 Dimensional Drawings

FTXA-CB / FTXA-CS / FTXA-CW  
CTXA-CB / CTXA-CS / CTXA-CW



• 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.



• 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 CTI600V	
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	

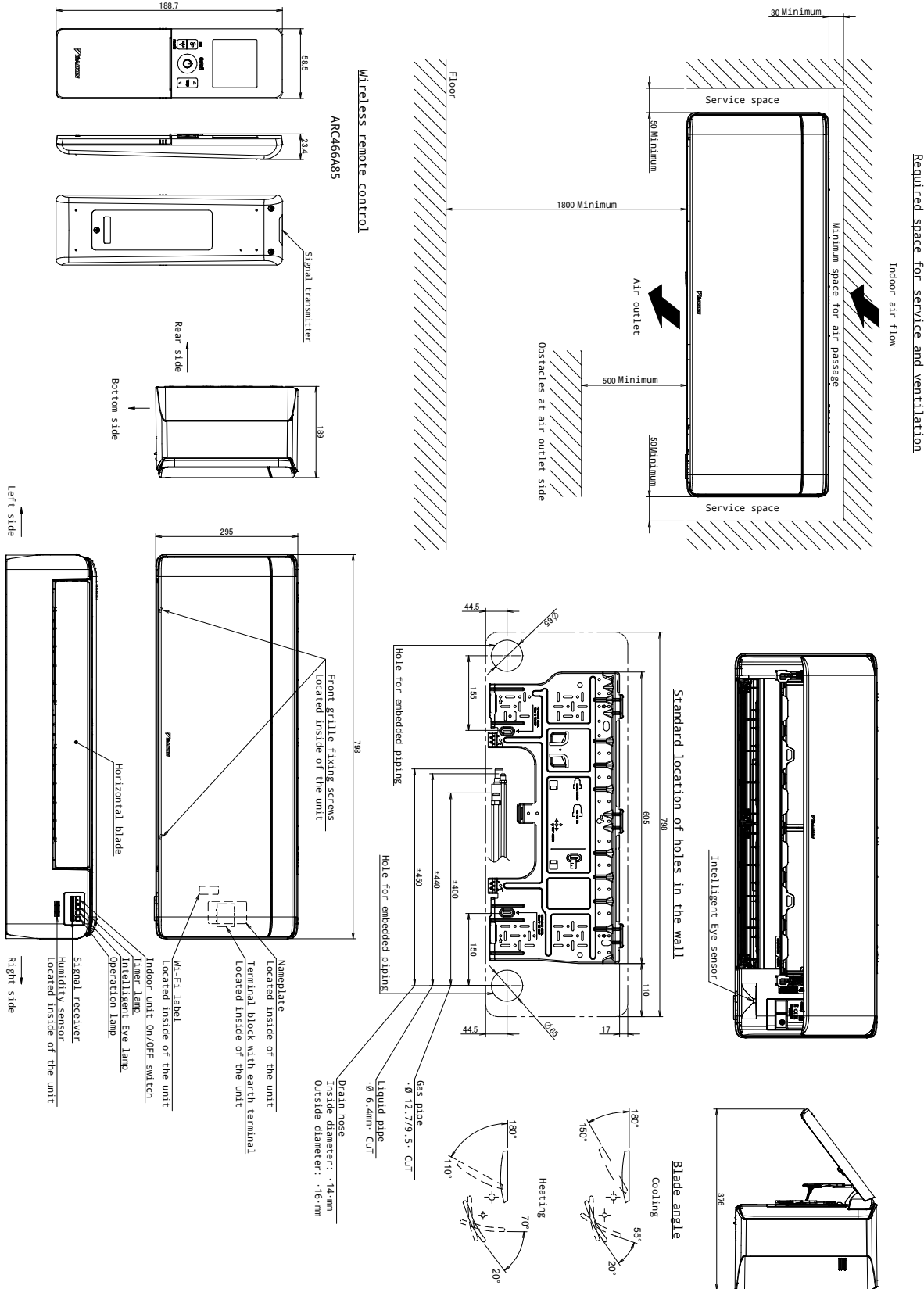
3D095530G

# 4 Dimensional drawings

## 4 - 1 Dimensional Drawings

4

FTXA-CB  
FTXA-CS  
FTXA-CW

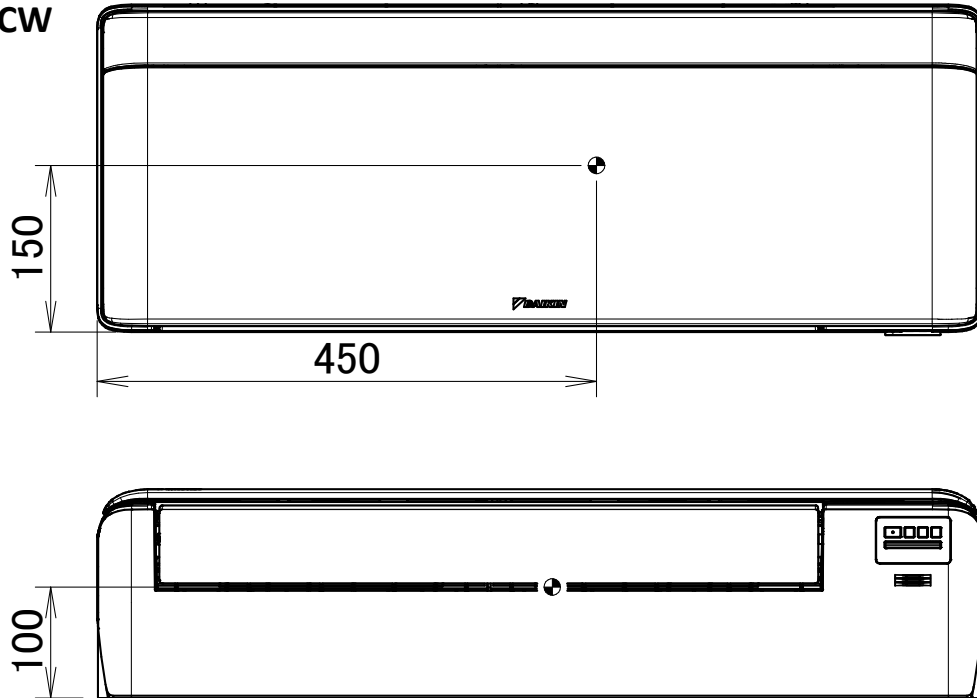


2D147597

# 5 Centre of gravity

## 5 - 1 Centre of Gravity

FTXA-CB  
FTXA-CS  
FTXA-CW



4D147660







# 6 Piping diagrams

## 6 - 1 Piping Diagrams



6

**FTXA-CB**  
**FTXA-CS**  
**FTXA-CW**

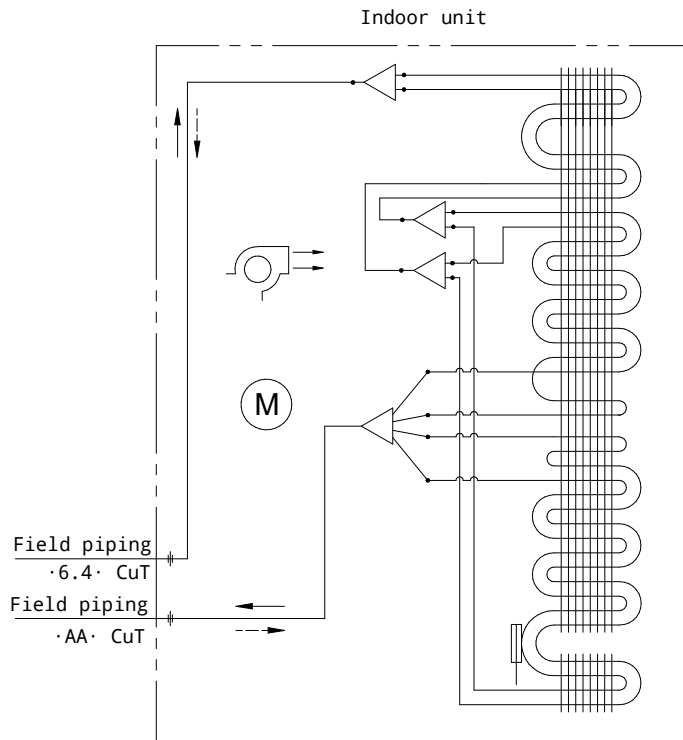
Legend

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

Refrigerant flow

-  Cooling
-  Heating

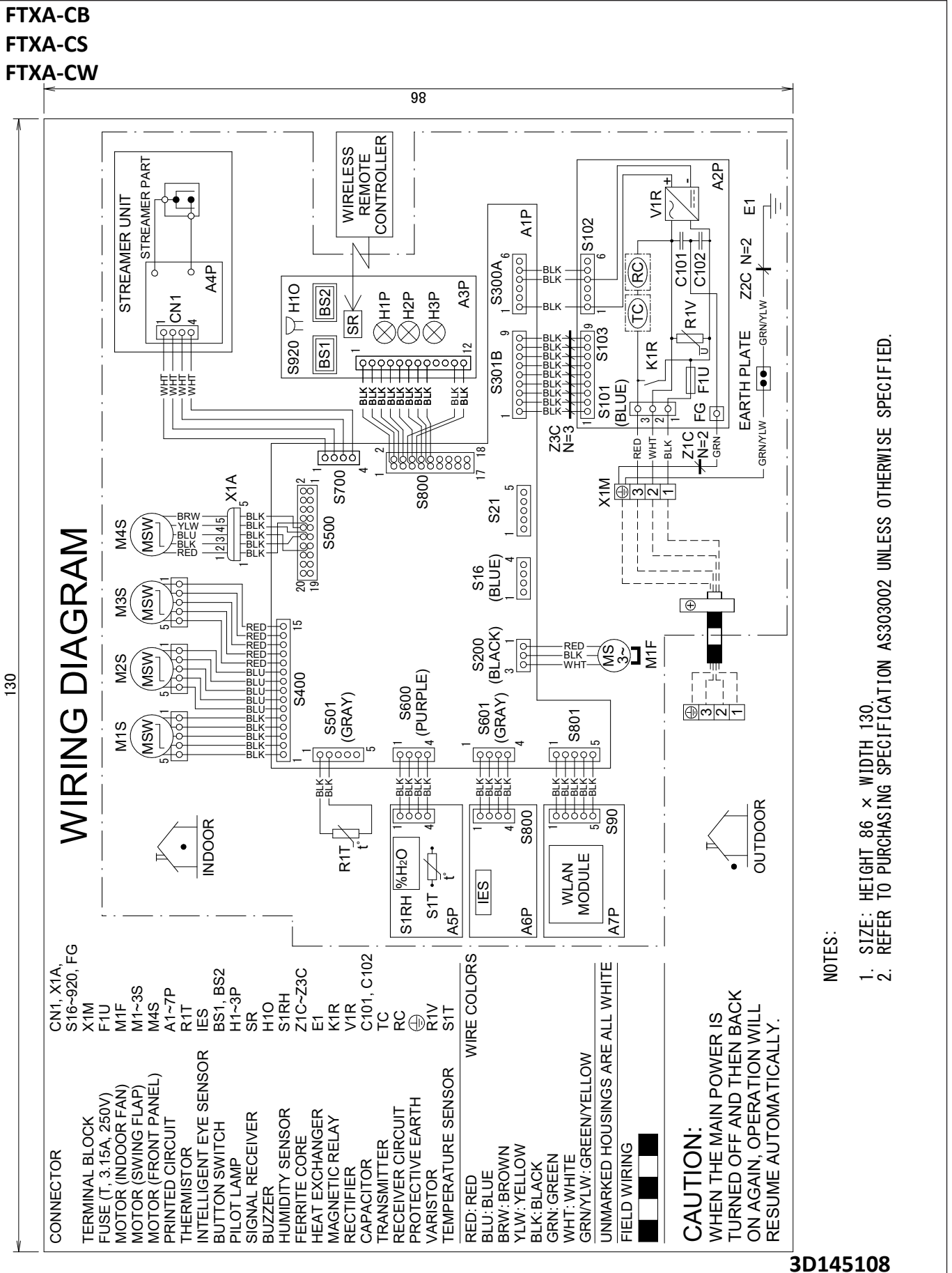
AA	Class
9.5	15-42
12.7	50



**3D147549**

# 7 Wiring diagrams

## 7-1 Wiring Diagrams - Three Phase

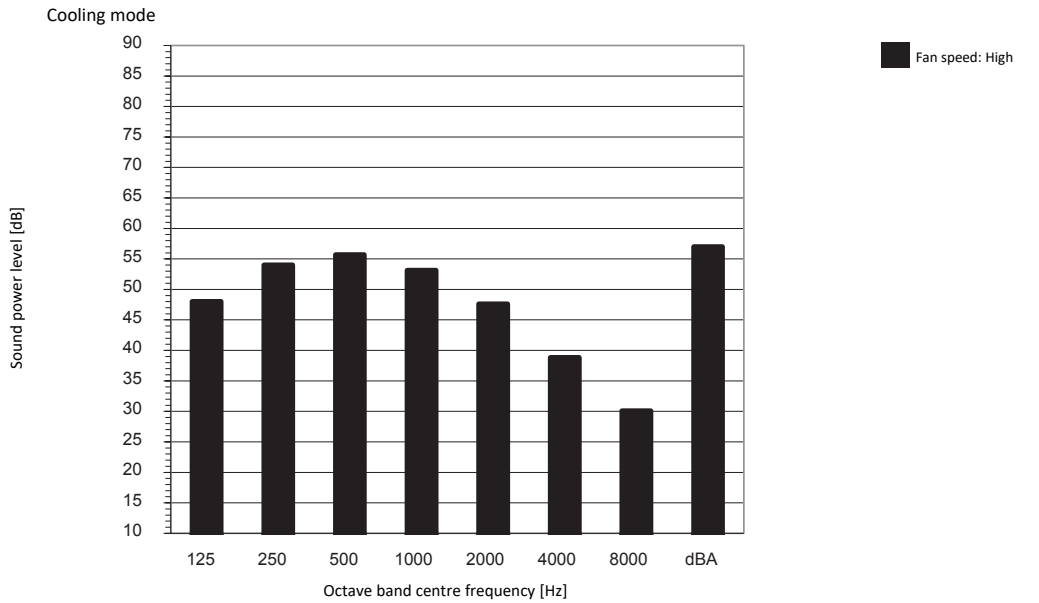


# 8 Sound data

## 8 - 1 Sound Power Spectrum

8

FTXA20CB  
FTXA20CS  
FTXA20CW

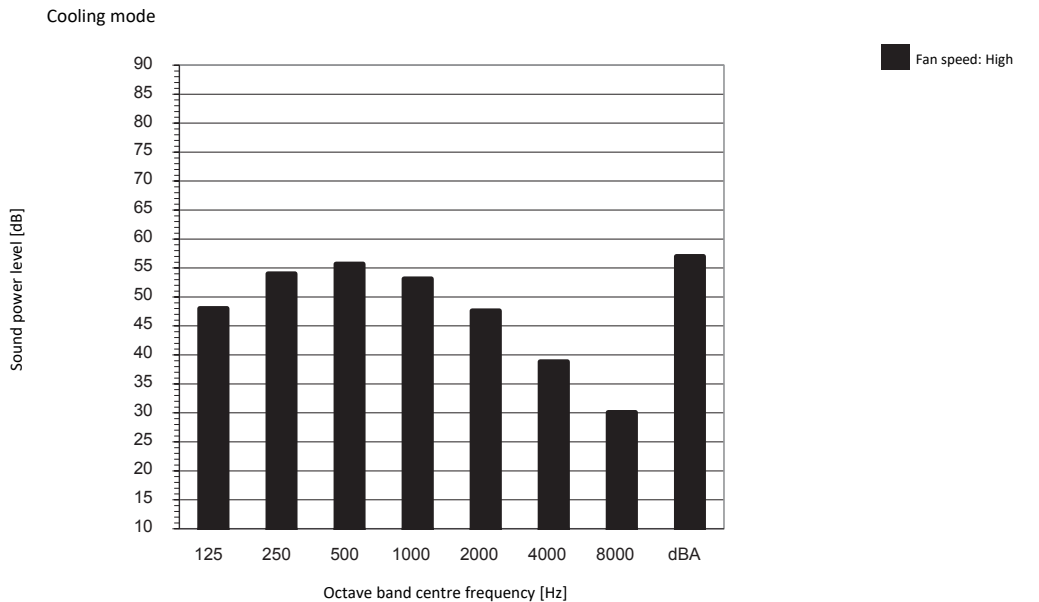


Notes

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

3D115037B

FTXA25CB  
FTXA25CS  
FTXA25CW



Notes

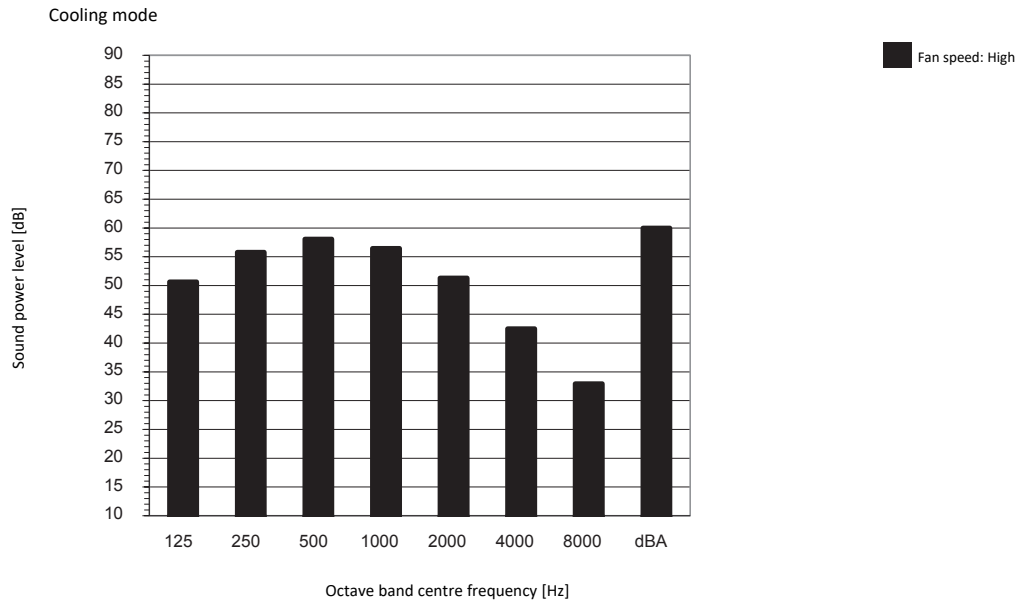
1. dBA = A-weighted sound power level (A scale according to IEC).
2. Reference acoustic intensity  $0\text{dB} = 10^{-12} \text{ W/m}^2$
3. Measured according to ISO 3744

3D115038B

# 8 Sound data

## 8 - 1 Sound Power Spectrum

FTXA35CB  
FTXA35CS  
FTXA35CW

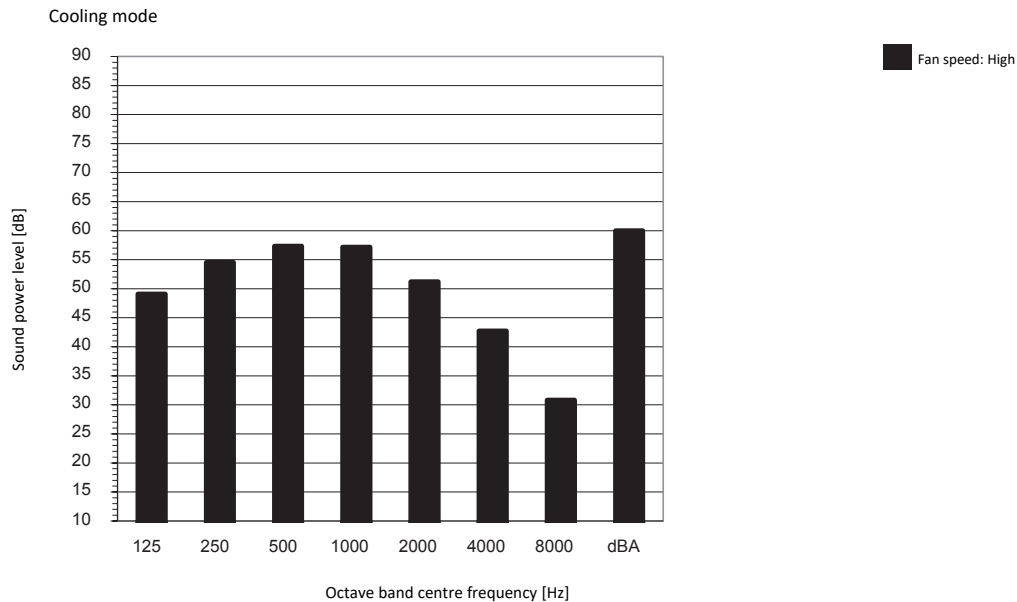


Notes

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

3D115039B

FTXA42CB  
FTXA42CS  
FTXA42CW



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

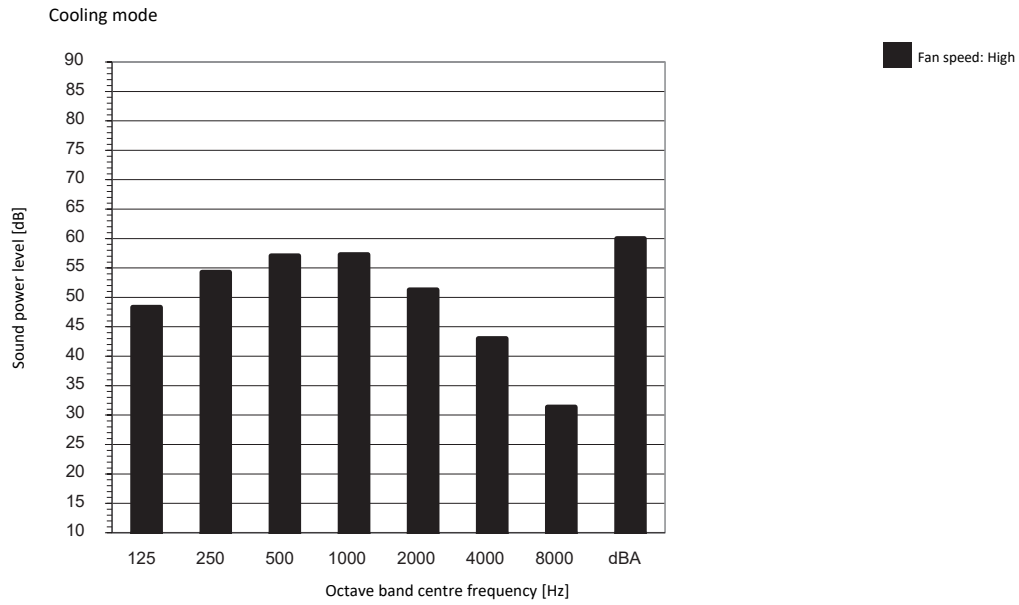
3D115040B

# 8 Sound data

## 8 - 1 Sound Power Spectrum

8

FTXA50CB  
FTXA50CS  
FTXA50CW



Notes

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

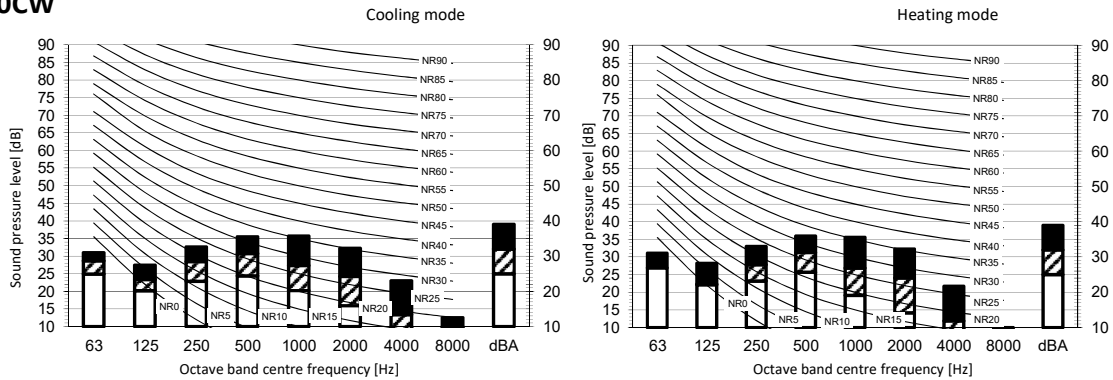
3D115041B



# 8 Sound data

## 8 - 2 Sound Pressure Spectrum

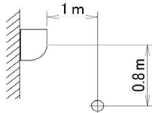
**FTXA20CB**  
**FTXA20CS**  
**FTXA20CW**



**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



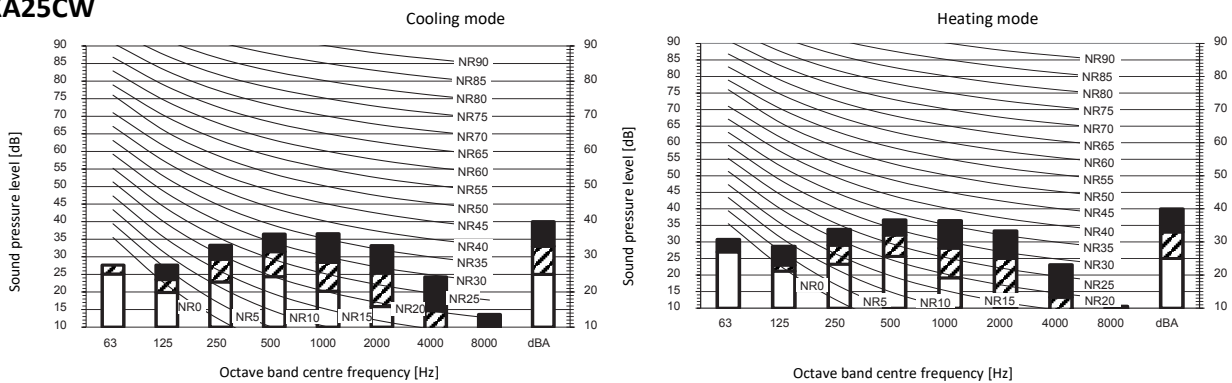
Cooling				Heating			
Total dB				Total dB			
A	B	C	D	A	B	C	D
dBA	39	32	25	dBA	39	32	25

**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**

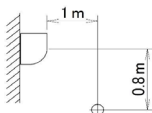
**FTXA25CB**  
**FTXA25CS**  
**FTXA25CW**



**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 dB				Total dB			
A	B	C	D	A	B	C	D
dBA	40	33	25	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

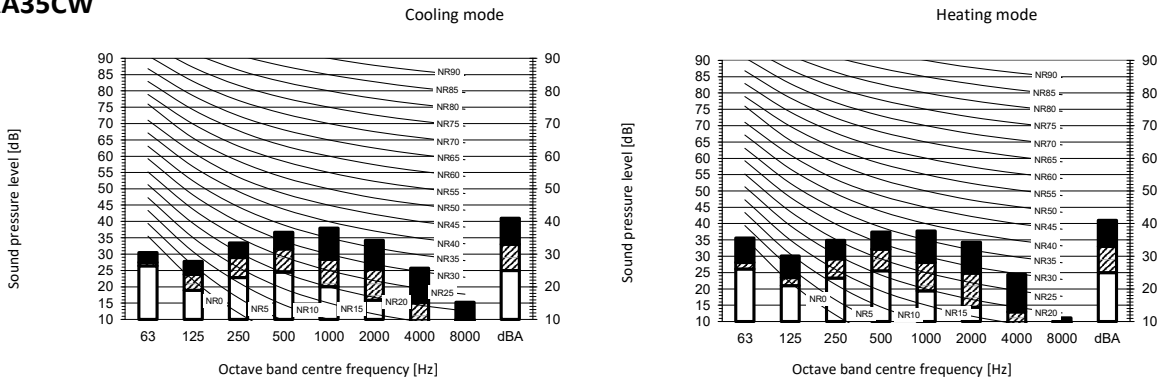
**3D114920C**

# 8 Sound data

## 8 - 2 Sound Pressure Spectrum

8

**FTXA35CB**  
**FTXA35CS**  
**FTXA35CW**



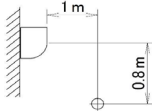
**Legend**

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	41	33	25		

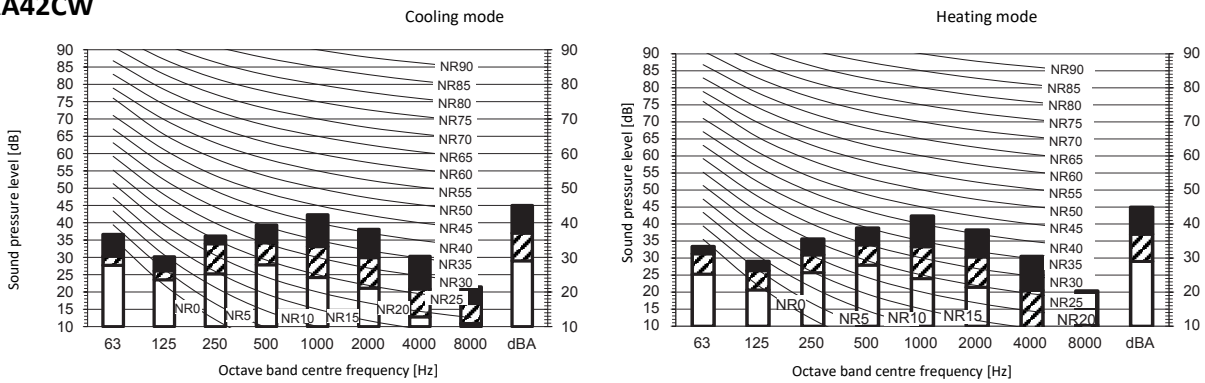
Heating		Total dB			
A	B	C	D		
dBA	41	33	25		

**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**

**FTXA42CB**  
**FTXA42CS**  
**FTXA42CW**



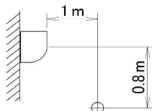
**Legend**

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	37	29		

Heating		Total dB			
A	B	C	D		
dBA	45	37	29		

**Notes**

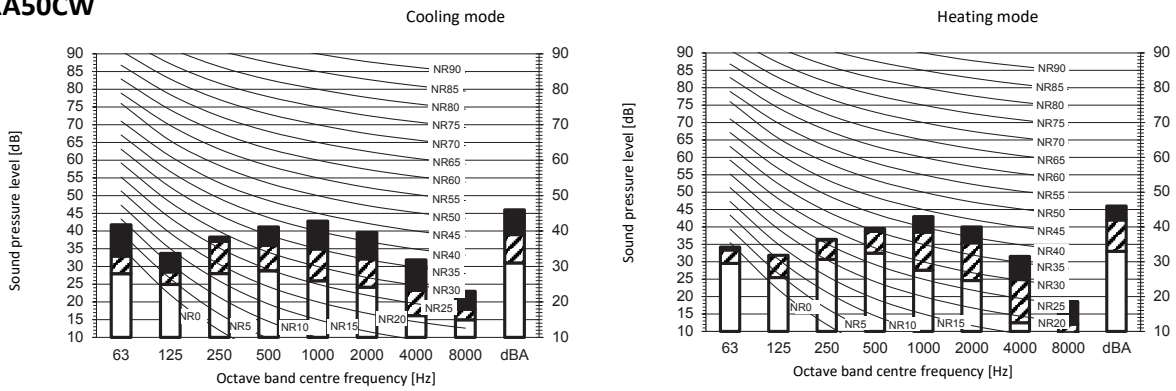
1. Operating conditions: power source 220-240 V 50 Hz; JIS standard
2. Background noise already taken into account.
3. Operating noise varies depending on operation and ambient conditions.
4. The operation noise measuring method is in accordance with JISC9612.
5. Measuring location: anechoic chamber

**3D114922C**

# 8 Sound data

## 8 - 2 Sound Pressure Spectrum

**FTXA50CB**  
**FTXA50CS**  
**FTXA50CW**



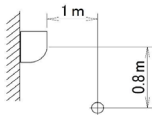
**Legend**

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



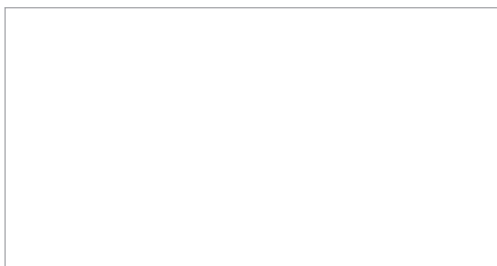
Cooling				Total dB
A	B	C	D	
dBA	46	39	31	

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

**3D114923D**



EEDEN23



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