



Wall mounted unit  
Air Conditioning  
Technical Data  
FTXJ-AB9



FTXJ20A2V1BB9  
FTXJ25A2V1BB9  
FTXJ35A2V1BB9  
FTXJ42A2V1BB9  
FTXJ50A2V1BB9



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# FTXJ-AB9

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# 1 Features




























## 1 - 1 FTXJ-AB9

### Design that speaks for itself

1

- › Remarkable blend of iconic design and engineering excellence with an elegant finish in matt black
- › 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
- › Heat boost quickly heats up your home when starting up your air conditioner. Set temperature is reached 14% faster than a regular air conditioner (pair only)
- › 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
- › Voice command via Amazon Alexa or Google Assistant to control main functions such as set point, operation mode, fan speed, etc
- › Onecta app: control your indoor from any location with an app, via your local network or internet.
- › Whisper quiet in operation: the operating of the unit can hardly be heard. The sound pressure level goes down to 19dBA!



- |   |  |   |   |   |   |  |  |   |
|---|--|---|---|---|---|--|--|---|
| <br>Coanda effect<br>- heating | <br>Coanda effect<br>- cooling                                | <br>Intelligent<br>thermal sensor          | <br>Heat boost                         | <br>Onecta app                                   | <br>Econo mode             | <br>Energy<br>saving during<br>standby mode | <br>Night set<br>mode       | <br>Fan only           |
| <br>Comfort mode               | <br>Powerful<br>mode  | <br>Auto cooling-<br>heating<br>changeover | <br>Indoor<br>unit silent<br>operation | <br>3-D air flow                                 | <br>Vertical auto<br>swing | <br>Horizontal<br>auto swing                | <br>Auto fan<br>speed       | <br>Fan speed<br>steps |
| <br>Dry<br>programme           | <br>Silver allergen<br>removal and<br>air purifying<br>filter | <br>Flash Streamer                         | <br>Practically<br>inaudible           | <br>Titanium<br>apatite<br>deodorising<br>filter | <br>Air filter             | <br>Weekly timer                            | <br>Wired remote<br>control | <br>Auto-restart       |

# 1 Features

1 - 1 FTXJ-AB9



Self diagnosis



Multi model application

## 2 Specifications

### 2 - 1 Specifications

Technical specifications				FTXJ20AB9	FTXJ25AB9	FTXJ35AB9	FTXJ42AB9	FTXJ50AB9	
Power input	Cooling	Nom.	kW	0.02	0.022	0.024	0.028	0.031	
	Heating	Nom.	kW	0.021	0.022	0.024	0.036	0.039	
Casing	Colour			Black					
Dimensions	Unit	Height	mm	305					
		Width	mm	900					
		Depth	mm	212					
	Packed unit	Height	mm	345					
		Width	mm	1,010					
		Depth	mm	395					
Weight	Unit			12					
	Packed unit			15					
Packing	Weight			3					
Heat exchanger	Length			622					
	Rows	Quantity		2					
		Fin pitch		mm					
	Face area			m <sup>2</sup>					
	Stages	Quantity		18					
		Passes		Quantity		2.556		3.385	
	Tube type			ø5 Hi-XB					
	Fin Type			ML fin (Multi louver)					
	Heat exchanger 2	Quantity			1				
		Length			mm				
Rows		Quantity		1					
		Fin pitch		mm					
Face area			0.068		0.047				
Stages		Quantity		6		4			
Heat exchanger 3	Quantity			1					
	Length			mm					
	Rows	Quantity		1					
		Fin pitch		mm					
	Stages		Quantity		4				
Fan	Type			Cross flow fan					
	Air flow rate	Cooling	High	m <sup>3</sup> /min	11	11.4	11.8	13	13.5
cfm				388	403	417	459	477	
			Medium	m <sup>3</sup> /min	8.4	8.6	9.5	10.4	
				cfm	297	304	335	367	
Fan	Air flow rate	Cooling	Low	m <sup>3</sup> /min	6		7.2	7.6	
				cfm	212		254	268	
				Silent operation	m <sup>3</sup> /min	4.6		5.2	
					cfm	162		184	
		Heating	High	m <sup>3</sup> /min	11.1	11.3	11.7	14.4	15
				cfm	392	399	413	509	530
			Medium	m <sup>3</sup> /min	8.7	9	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	4.6		5.2	5.7	
				cfm	162		184	201	
Fan motor	Model			MM9G21V28VA					
	Speed	Steps		5 + silent, + auto					
Cooling		High	rpm	1,060	1,100	1,140	1,210	1,240	
	rpm		860	880	980	1,020			
	Low	rpm	670		780	820			
		rpm	570		620	680			
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			
		rpm	590		640	680			
Output	Rated		W		24				
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		
			dBA	19		21	24		
	Heating	High	dBA	39	40	41	45	46	
			dBA	32	33	37	42		
		Low	dBA	25		29	33		
			dBA	19		21	24		
	Refrigerant	Type			R-32				
		GWP			675				

## 2 Specifications

### 2 - 1 Specifications

Technical specifications				FTXJ20AB9	FTXJ25AB9	FTXJ35AB9	FTXJ42AB9	FTXJ50AB9
Piping connections	Liquid	OD	mm	6.35				
	Gas	OD	mm	9.5			12.7	
	Drain			18				
Piping connections	Heat insulation			Both liquid and gas pipes				
Air filter	Type			Removable / washable				
	Quantity			2				
Air direction control				Right, Left, Horizontal, Downward				
Temperature control				Microcomputer control				
Control systems	Infrared remote control			ARC488A1K				
	Wired remote control			BRC073A1				

Standard accessories: Installation manual;Quantity: 1;

Standard accessories: Wireless remote control;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: Titanium apatite deodorizing filter;Quantity: 1;

Standard accessories: Silver particle filter;Quantity: 1;

Standard accessories: Remote control holder;Quantity: 1;

Standard accessories: Screw bag;Quantity: 1;

Electrical specifications				FTXJ20AB9	FTXJ25AB9	FTXJ35AB9	FTXJ42AB9	FTXJ50AB9
Power supply	Name			V1				
	Phase			1~				
	Frequency			50				
	Voltage			220-240				
Current	Nominal running current (RLA) - 50Hz	Heating	A	0.3			0.4	
		Quantity			3			
Wiring connections - 50Hz	For power supply	Remark		3 for power supply, 4 for interunit wiring (Earth wire included)				

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



# 4 Dimensional drawings

## 4 - 1 Dimensional Drawings

**FTXJ-AB9**  
**FTXJ-AS9**  
**FTXJ-AW9**

**2D138920**

**FTXJ-AB9**  
**FTXJ-AS9**  
**FTXJ-AW9**

• Outside size

Connector (Model: B04B-PASK)  
(1pin:Vin 2pin:Ans 3pin:HL 4pin:GND)

• 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.

Ensure the spatial distance 8.5mm over at the vent of streamer unit by products.

Don't arrange conduction material within 20mm of the aluminum tape (Except for the unit fixing screw).

• 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)	
	Operating ambient humidity	5~95%RH (No dew deposit)	
Basic specifications	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	4.26m/hr (Hi 14±2; 50±10%RH)		
Method of mounting	Fixing by the right and left hook		
	Fixing by the screw section		

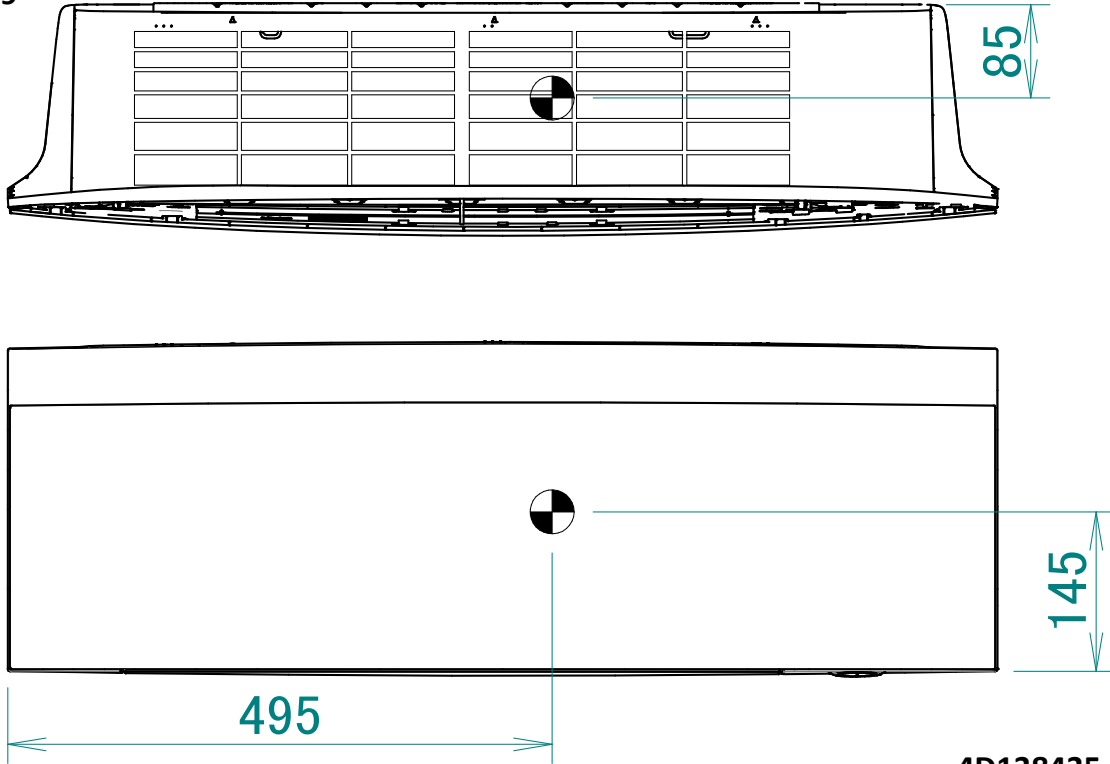
**3D095530G**

# 5 Centre of gravity

## 5 - 1 Centre of Gravity

5

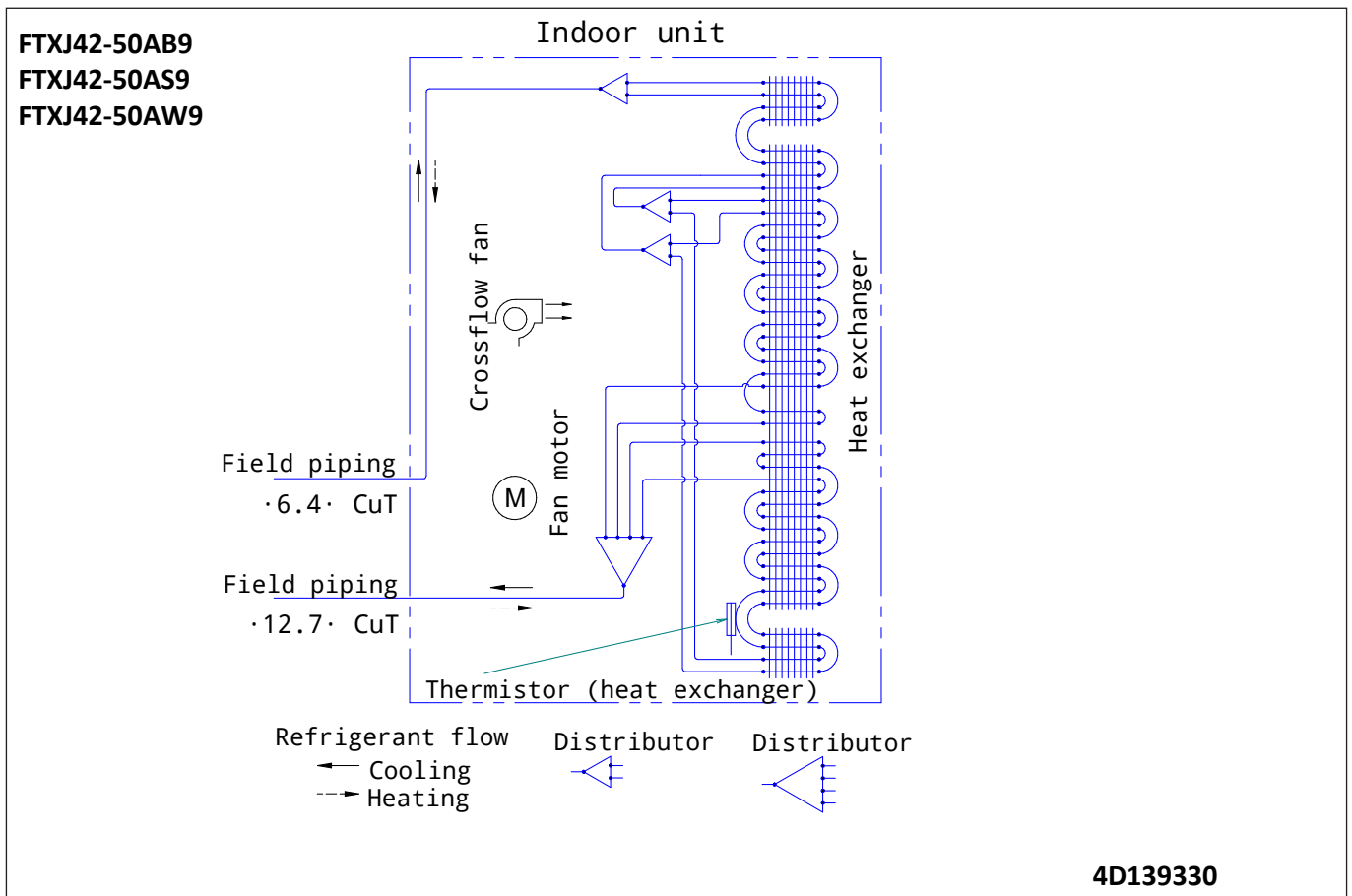
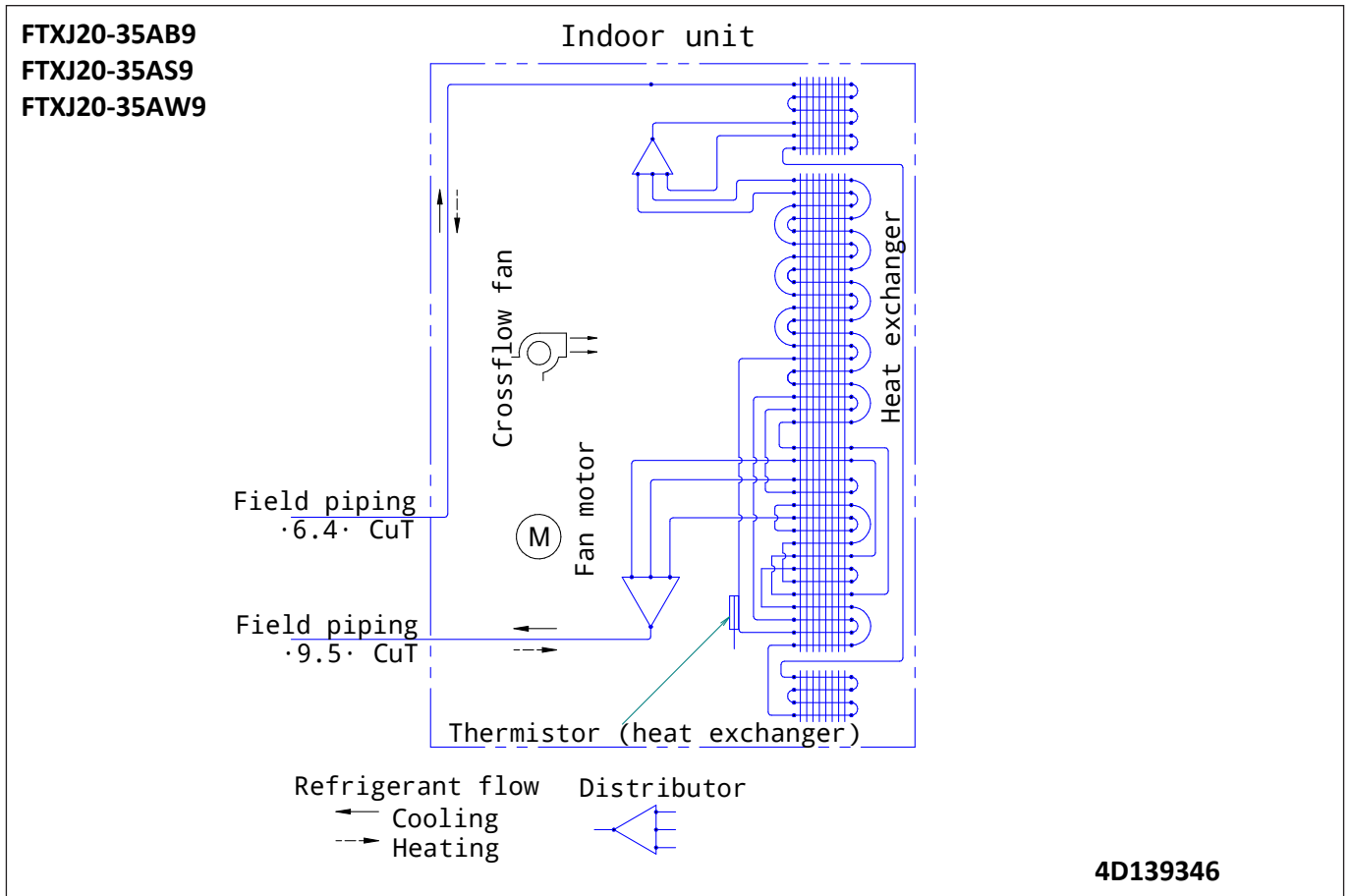
FTXJ-AB9  
FTXJ-AS9  
FTXJ-AW9



4D138435

# 6 Piping diagrams

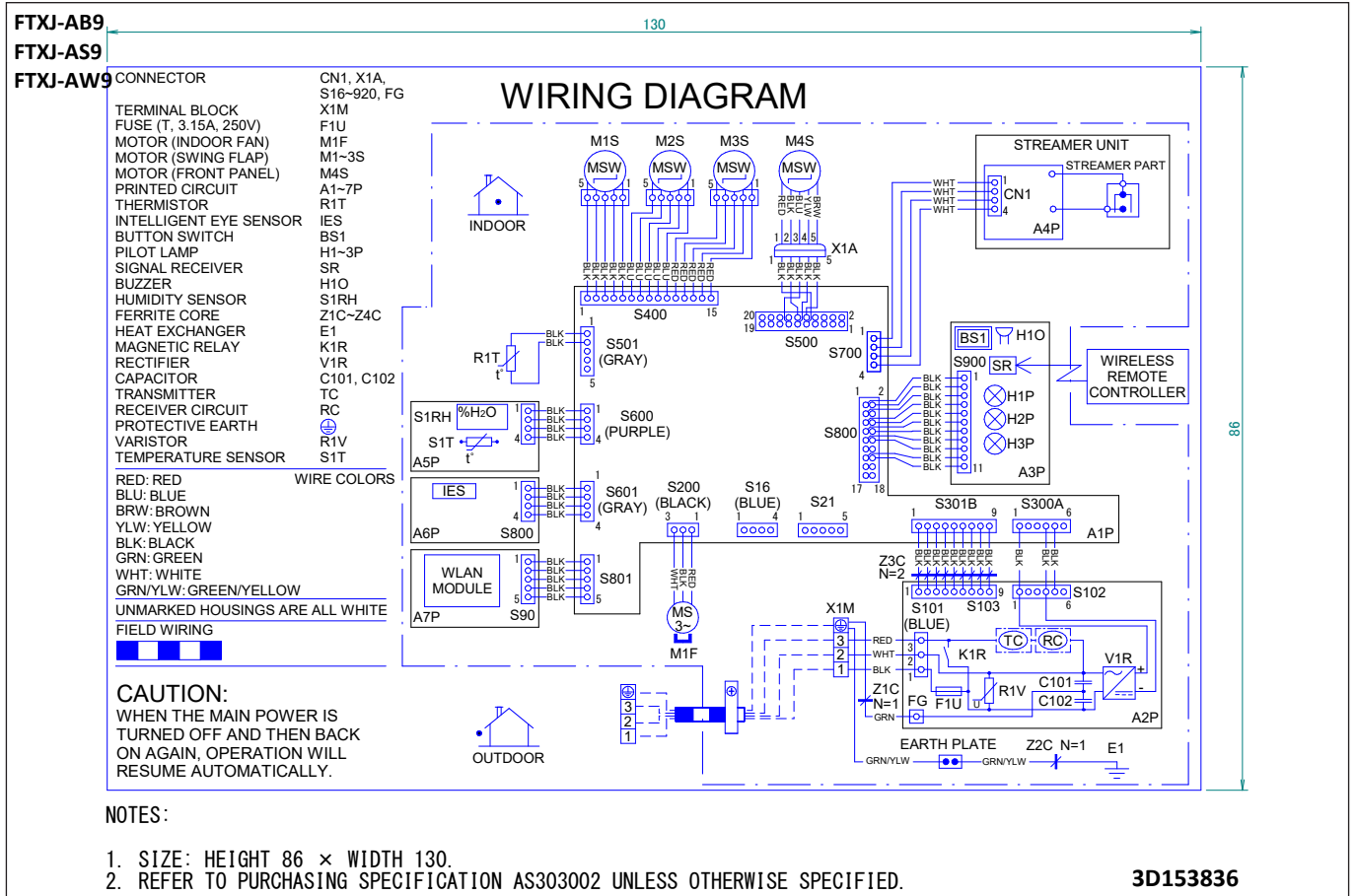
## 6 - 1 Piping Diagrams



# 7 Wiring diagrams

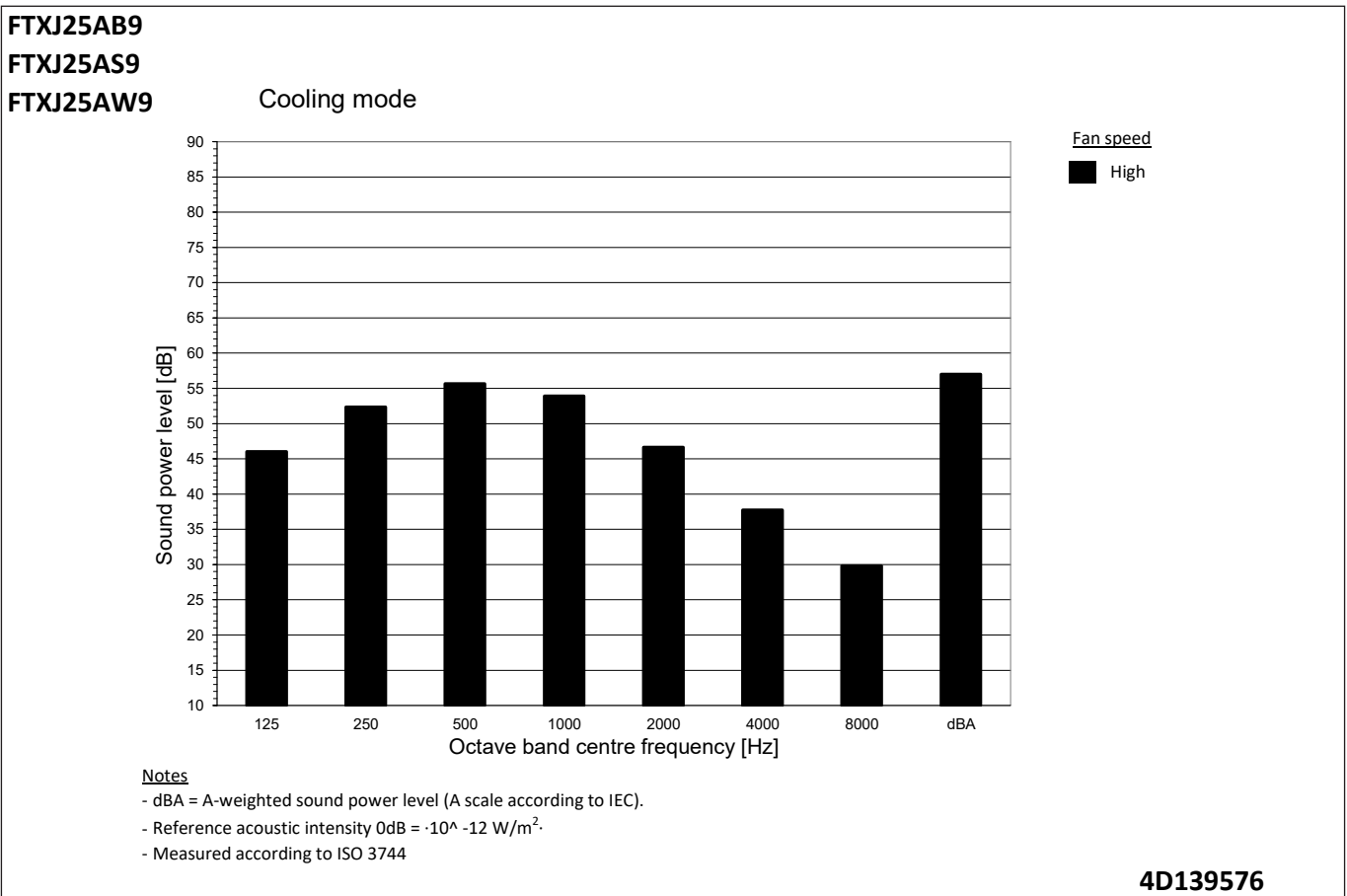
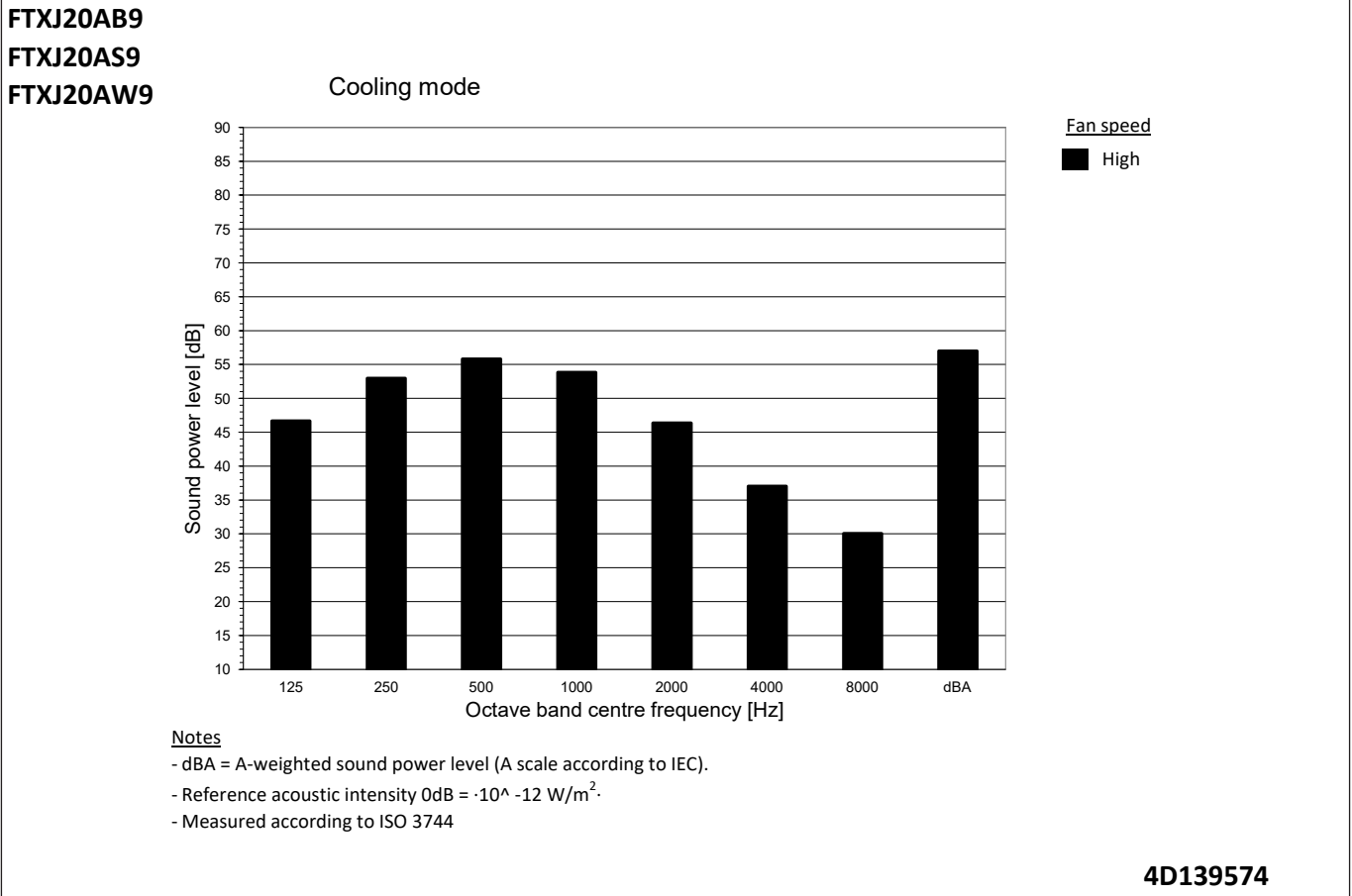
## 7 - 1 Wiring Diagrams - Three Phase

7



# 8 Sound data

## 8 - 1 Sound Power Spectrum



# 8 Sound data

## 8 - 1 Sound Power Spectrum

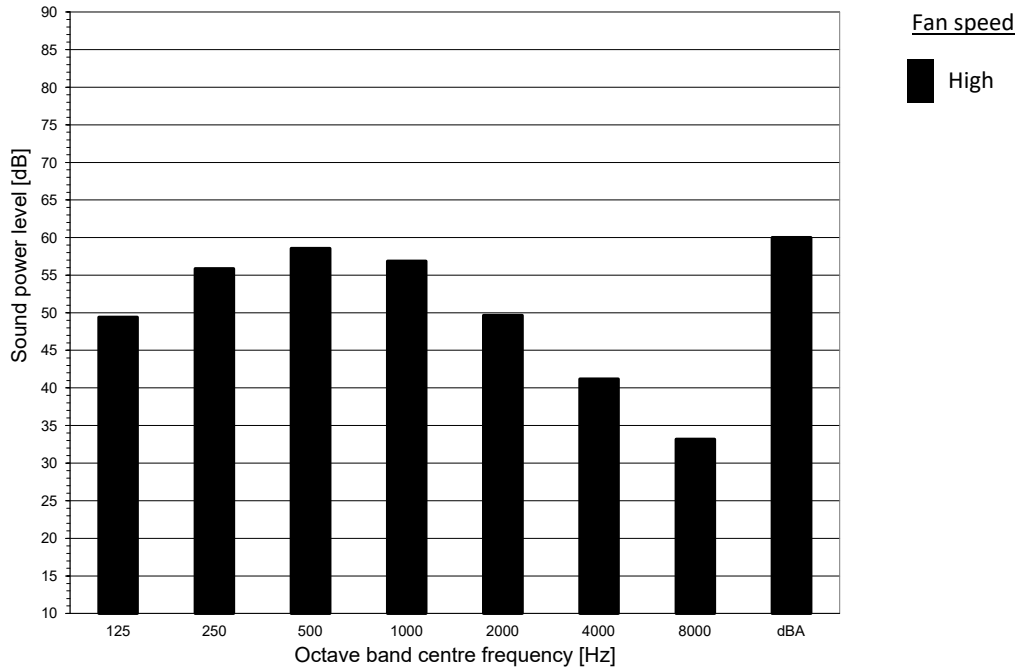
8

FTXJ35AB9

FTXJ35AS9

FTXJ35AW9

Cooling mode



**Notes**

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

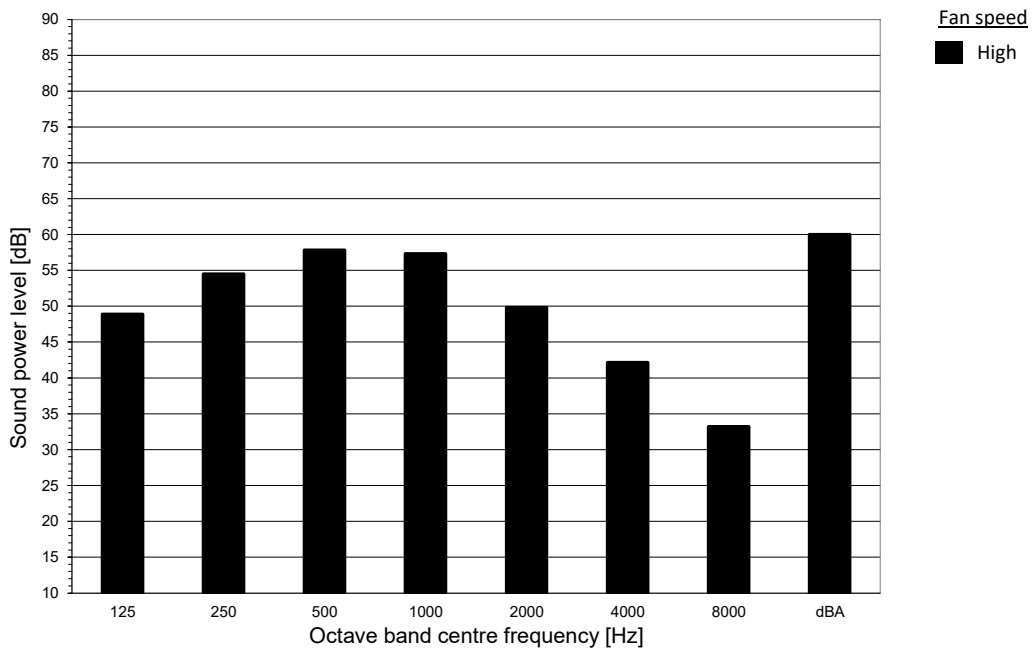
4D139577

FTXJ42AB9

FTXJ42AS9

FTXJ42AW9

Cooling mode



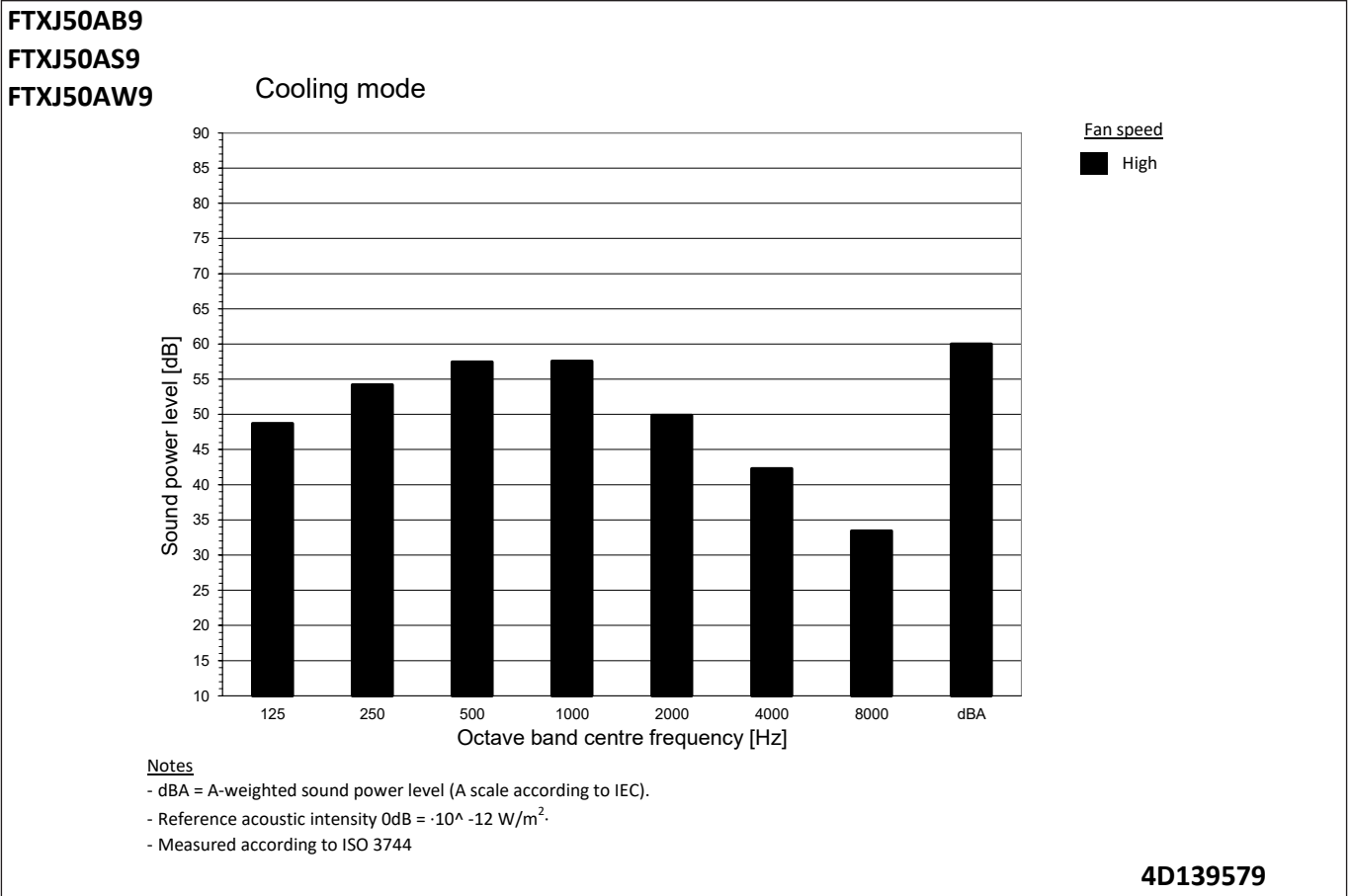
**Notes**

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

4D139578

# 8 Sound data

## 8 - 1 Sound Power Spectrum

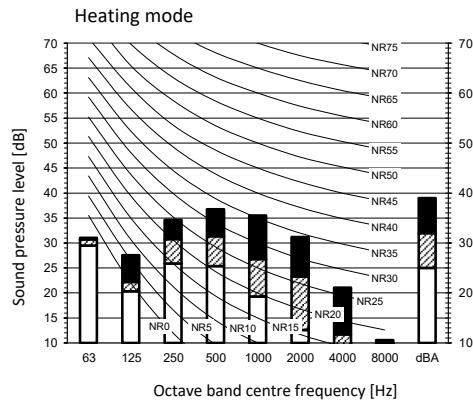
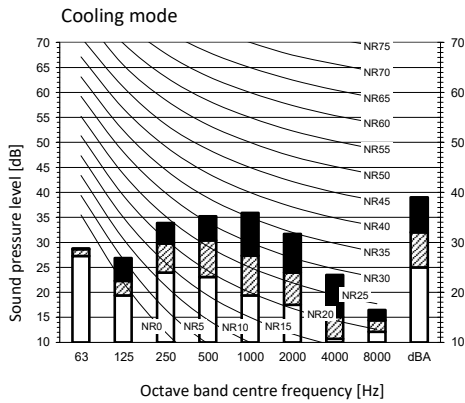


# 8 Sound data

## 8 - 2 Sound Pressure Spectrum

8

**FTXJ20AB9**  
**FTXJ20AS9**  
**FTXJ20AW9**



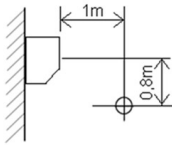
**Legend**

dBA = A-weighted sound pressure level (A scale ac)

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

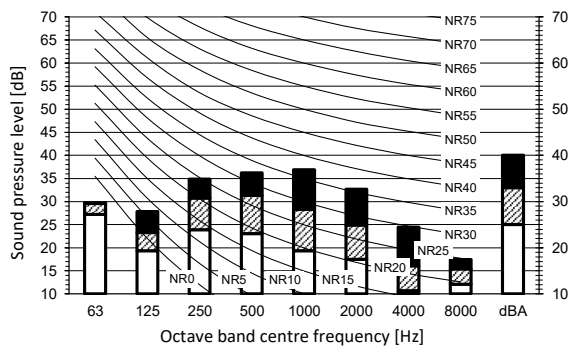
**Notes**

1. Operating conditions: power source 220-240 V/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

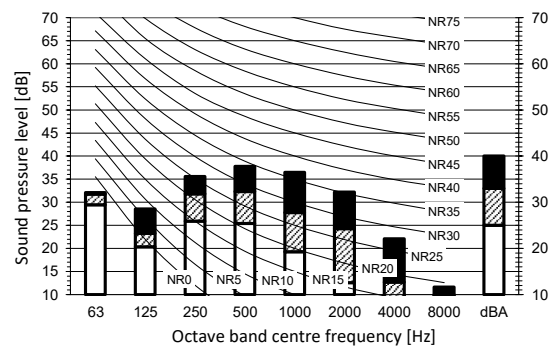
**4D139656**

**FTXJ25AB9**  
**FTXJ25AS9**  
**FTXJ25AW9**

Cooling mode



Heating mode



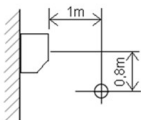
**Legend**

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/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

**4D139657**

# 8 Sound data

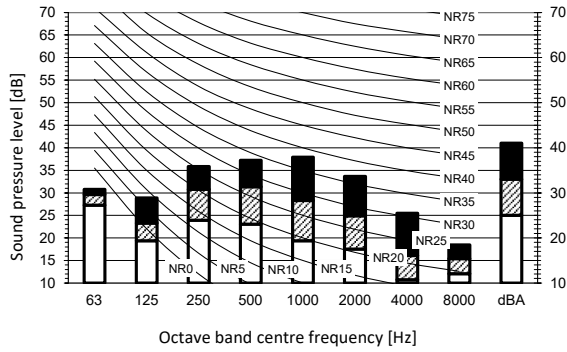
## 8 - 2 Sound Pressure Spectrum

**FTXJ35AB9**

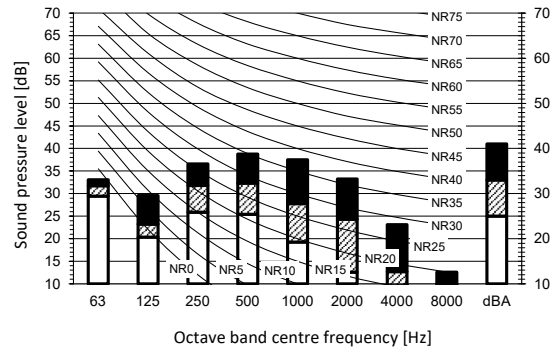
**FTXJ35AS9**

**FTXJ35AW9**

Cooling mode



Heating mode



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

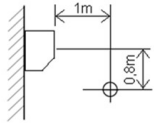
Cooling Total dB

	A	B	C	D
dBA	41	33	25	

Heating Total dB

	A	B	C	D
dBA	41	33	25	

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

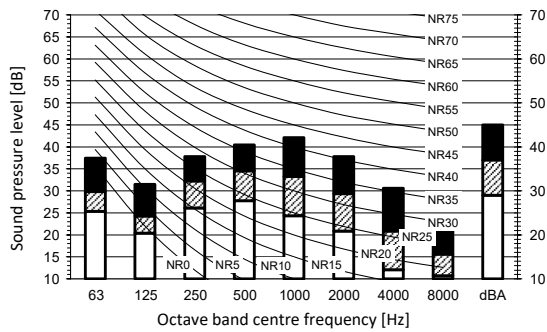
**4D139658**

**FTXJ42AB9**

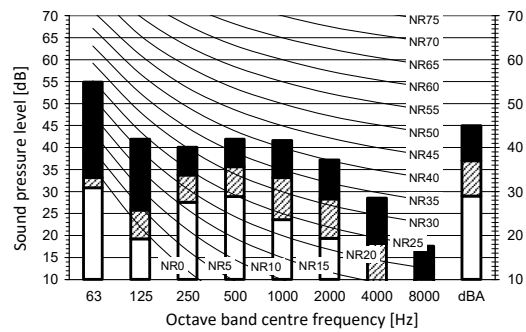
**FTXJ42AS9**

**FTXJ42AW9**

Cooling mode



Heating mode



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

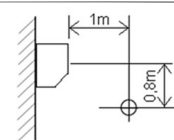
Cooling Total dB

	A	B	C	D
dBA	45	37	29	

Heating Total dB

	A	B	C	D
dBA	45	37	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

**4D139659**

# 8 Sound data

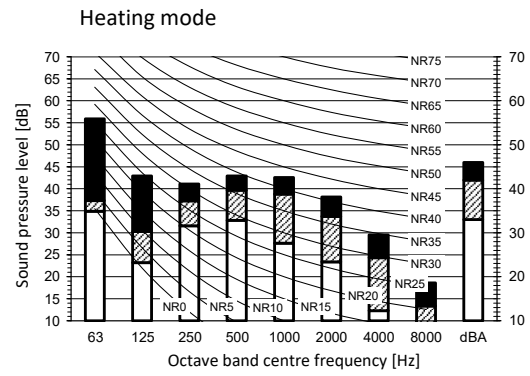
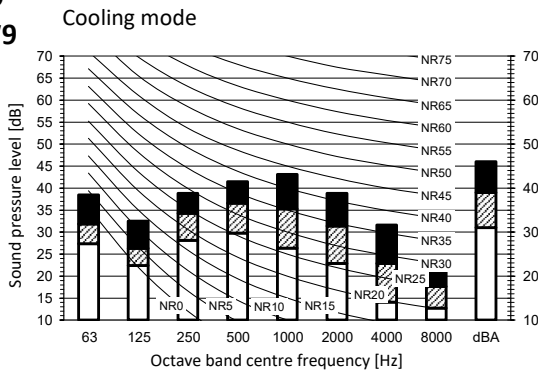
## 8 - 2 Sound Pressure Spectrum

8

FTXJ50AB9

FTXJ50AS9

FTXJ50AW9



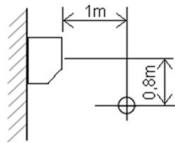
**Legend**

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

Total dB			
A	B	C	D
dBA	46	42	33

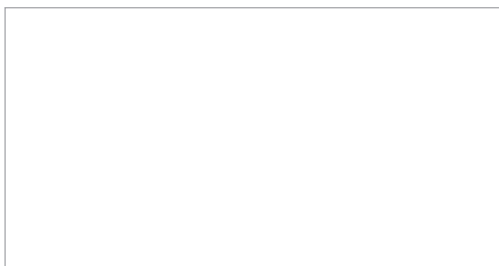
**Notes**

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

4D139660

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