

Wall mounted unit  
Air Conditioning  
Technical Data  
FTXJ-AW9



FTXJ20A2V1BW9  
FTXJ25A2V1BW9  
FTXJ35A2V1BW9  
FTXJ42A2V1BW9  
FTXJ50A2V1BW9



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# FTXJ-AW9

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# 1 Features

## 1 - 1 FTXJ-AW9

- › Remarkable blend of iconic design and engineering excellence with an elegant finish in matt crystal white
- › 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!



 Coanda effect - heating	 Coanda effect - cooling	 Intelligent thermal sensor	 Heat boost	 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
 Dry programme	 Silver allergen removal and air purifying filter	 Flash Streamer	 Practically inaudible	 Titanium apatite deodorising filter	 Air filter	 Weekly timer	 Wired remote control	 Auto-restart
 Self diagnosis	 Multi model application							

## 2 Specifications

### 2 - 1 Specifications

Technical specifications				FTXJ20AW9	FTXJ25AW9	FTXJ35AW9	FTXJ42AW9	FTXJ50AW9		
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			White						
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		kg	3						
Heat exchanger	Length		mm	622						
	Rows	Quantity		2						
		Fin pitch		mm	1.4					
	Face area		m <sup>2</sup>	0.214						
	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	614					
Rows		Quantity		1						
		Fin pitch		mm	1.4					
Face area		m <sup>2</sup>	0.068		0.047					
Stages		Quantity		6		4				
	Quantity		mm	1						
Heat exchanger 3	Length		mm	614						
	Rows	Quantity		1						
		Fin pitch		mm	1.4					
	Stages	Quantity		4						
Type		Cross flow fan								
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	5.2			
			cfm	162		184	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	620		
		Heating	High	rpm	1,090	1,110	1,140	1,310	1,350	
				rpm	920	940		1,070	1,190	
		Medium	rpm	740		850	930			
			rpm	590		640	680			
		Low	rpm	590		640	680			
			rpm	590		640	680			
	Output		Rated	W		24				
	Sound power level	Cooling		dB(A)		57			60	
Sound pressure level	Cooling	High	dB(A)	39	40	41	45	46		
			dB(A)	32	33		37	39		
		Silent operation	dB(A)	25		29	31			
			dB(A)	19		21	24			
	Heating	High	dB(A)	39	40	41	45	46		
			dB(A)	32	33		37	42		
		Silent operation	dB(A)	25		29	33			
			dB(A)	19		21	24			
	Refrigerant	Type		R-32						
		GWP		675						

## 2 Specifications

### 2 - 1 Specifications

2

Technical specifications				FTXJ20AW9	FTXJ25AW9	FTXJ35AW9	FTXJ42AW9	FTXJ50AW9
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			ARC488A1W				
	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				FTXJ20AW9	FTXJ25AW9	FTXJ35AW9	FTXJ42AW9	FTXJ50AW9
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

# 3 Options

## 3 - 1 Options

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Option kit	Product name	Remark	Application models			
			New Perfera	New floor stand	Emura 3	Zeta S
Wired remote control	BRC079A1	(2)(3)	(2)(3)	(2)(3)	(2)(3)	
Extension cord for wired remote control (1.3m)	BRCW901A3					
Extension cord for wired remote control (1.8m)	BRCW901A8					
Intelligent Hubset Controller	DCS301A51	(2)(3)	(2)(3)	(2)(3)	(2)(3)	
Wiring adaptor (normal open contact - normal open pulse contacts)	KRP413B15	(2)(3)(5)	(2)(3)(5)	(2)(3)(5)	(2)(3)(5)	
Wiring adaptor (normal open contact - normal open pulse contacts)	KRP413B15	(2)(3)	(2)(3)	(2)(3)	(2)(3)	
Interface adaptor for DII-NET	KRP413B25	(2)(3)	(2)(3)	(2)(3)	(2)(3)	
Central remote control	DCS302CA1	(2)(3)	(2)(3)	(2)(3)	(2)(3)	
Linkset ON/OFF controller	DCS301BA1	(2)(3)	(2)(3)	(2)(3)	(2)(3)	
Schedule timer	DEF101BA1	(2)(3)	(2)(3)	(2)(3)	(4)	
Intelligent Touch Manager	DCS402A1	(2)(3)	(2)(3)	(2)(3)	(2)(3)	
Modbus interface	ENR82A71	(2)(3)	(2)(3)	(2)(3)	(2)(3)	
Modbus gateway	RTD-RA	(2)(3)	(2)(3)	(2)(3)	(2)(3)	
KNX interface	KLIC-DD	(2)(3)	(2)(3)	(2)(3)	(2)(3)	
Titanium aquatic deodorising filter without frame	KAF979A6	(1)	(1)	(1)	(1)	
Silver particle filter (3g 5in) with frame	KAF979A4	(1)	(1)	(1)	(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.
  - Obsolete option.
  - Production of this option finished, replaced by new option KRP413BB15.

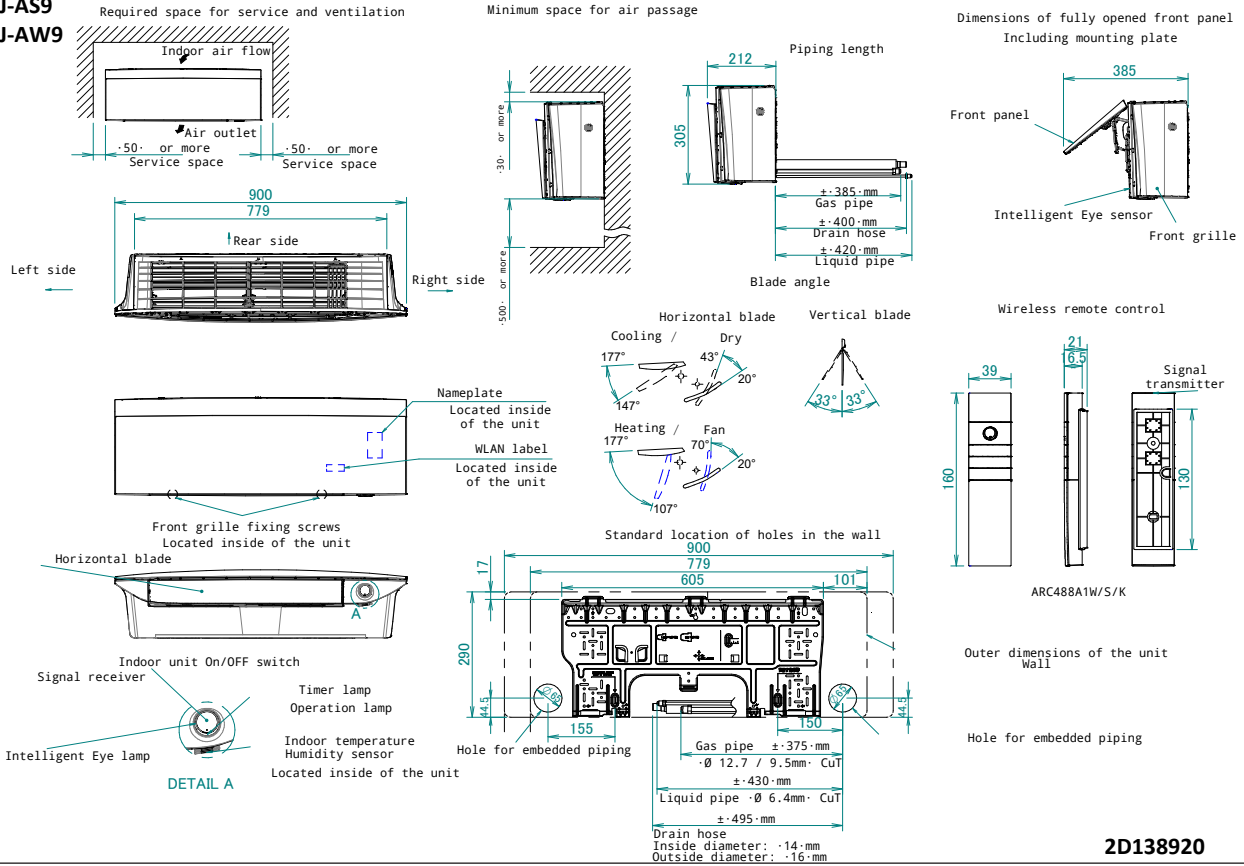
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# 4 Dimensional drawings

## 4 - 1 Dimensional Drawings

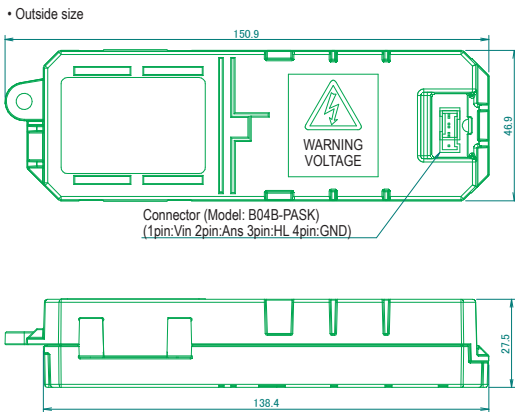
4

FTXJ-AB9  
FTXJ-AS9  
FTXJ-AW9



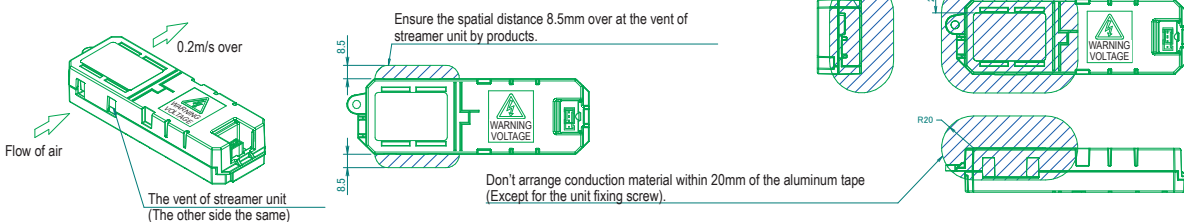
2D138920

FTXJ-AB9  
FTXJ-AS9  
FTXJ-AW9



• 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

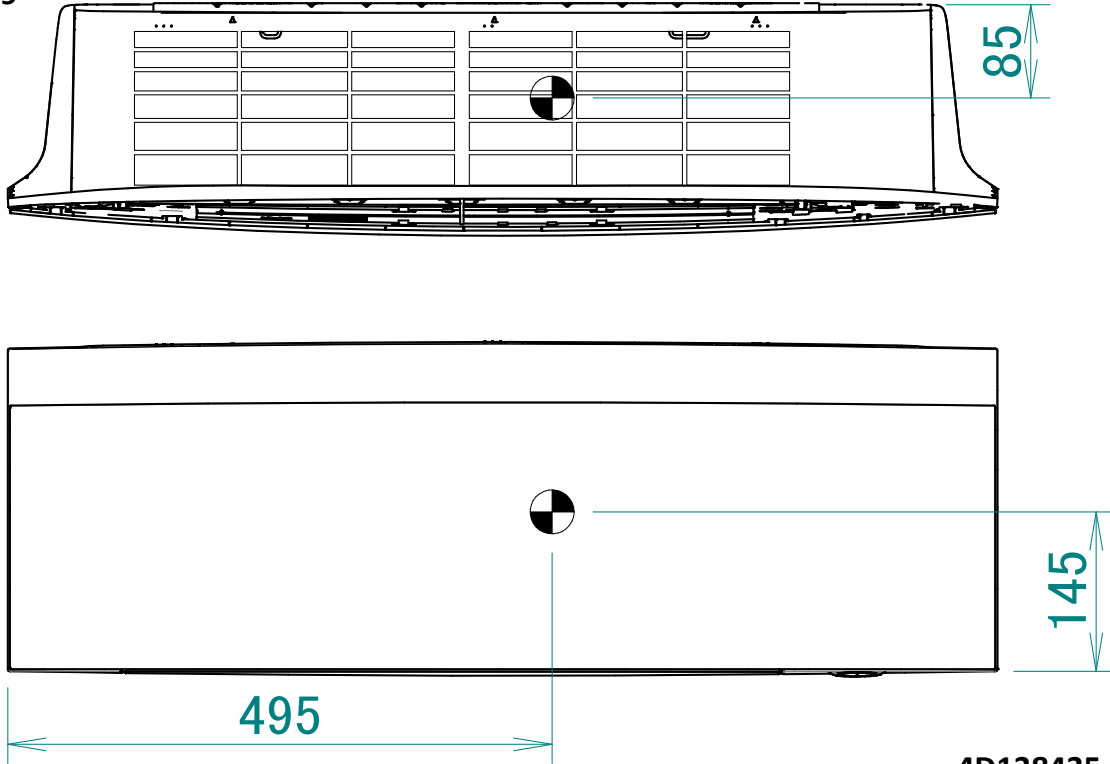
• Main specifications

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		

# 5 Centre of gravity

## 5 - 1 Centre of Gravity

FTXJ-AB9  
FTXJ-AS9  
FTXJ-AW9



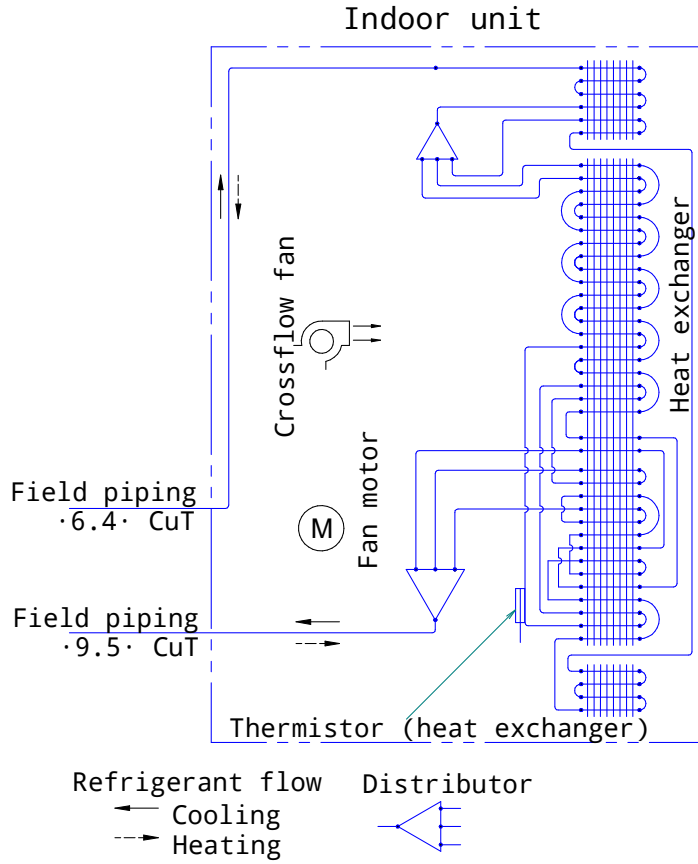
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# 6 Piping diagrams

## 6 - 1 Piping Diagrams

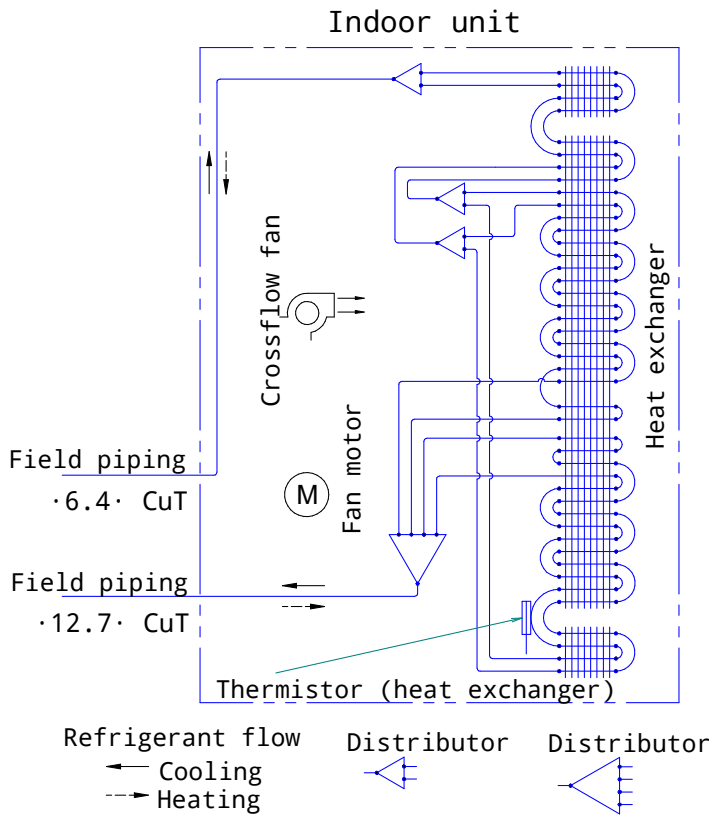
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FTXJ20-35AB9  
FTXJ20-35AS9  
FTXJ20-35AW9



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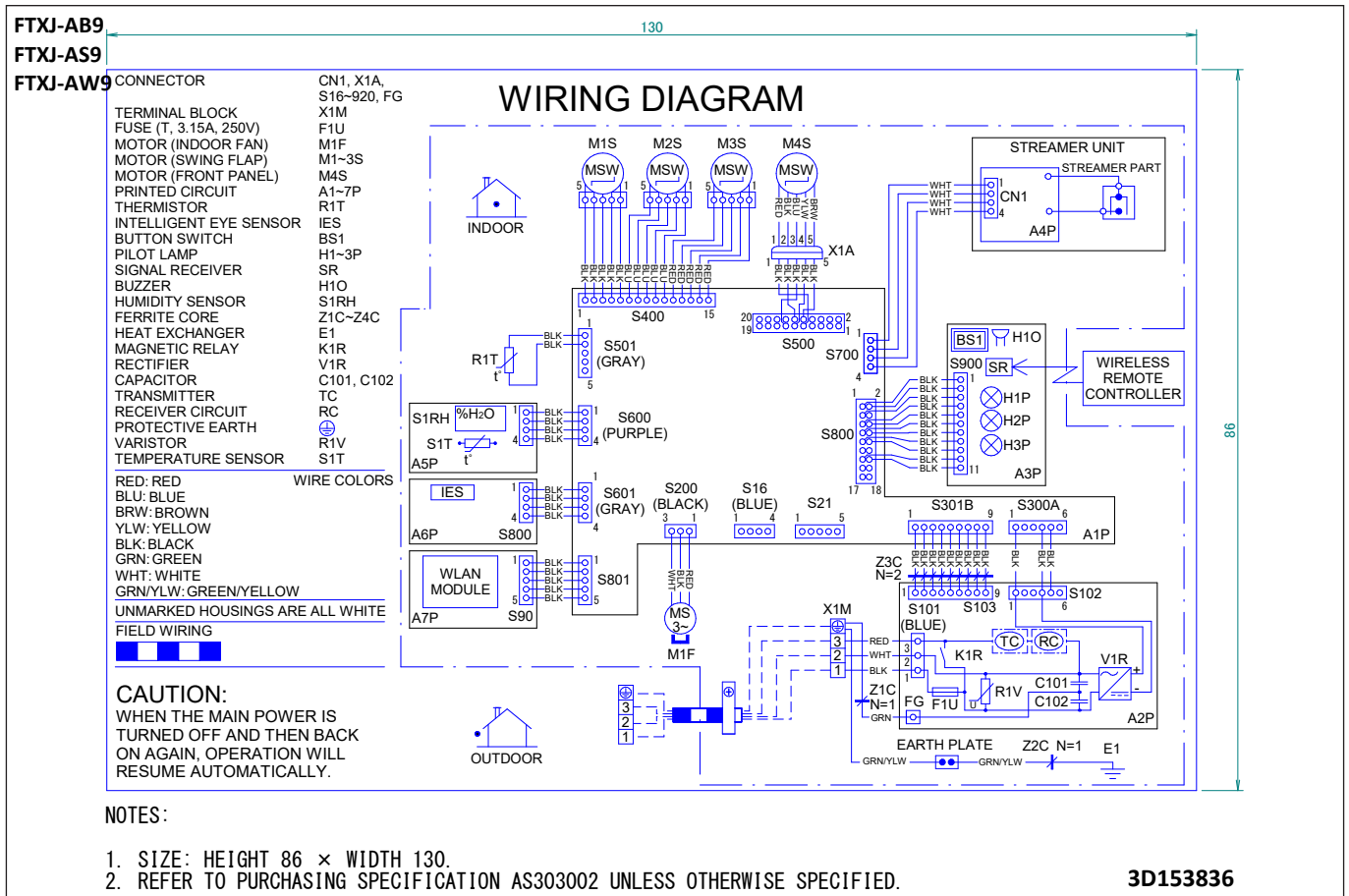
FTXJ42-50AB9  
FTXJ42-50AS9  
FTXJ42-50AW9



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# 7 Wiring diagrams

## 7 - 1 Wiring Diagrams - Three Phase



# 8 Sound data

## 8 - 1 Sound Power Spectrum

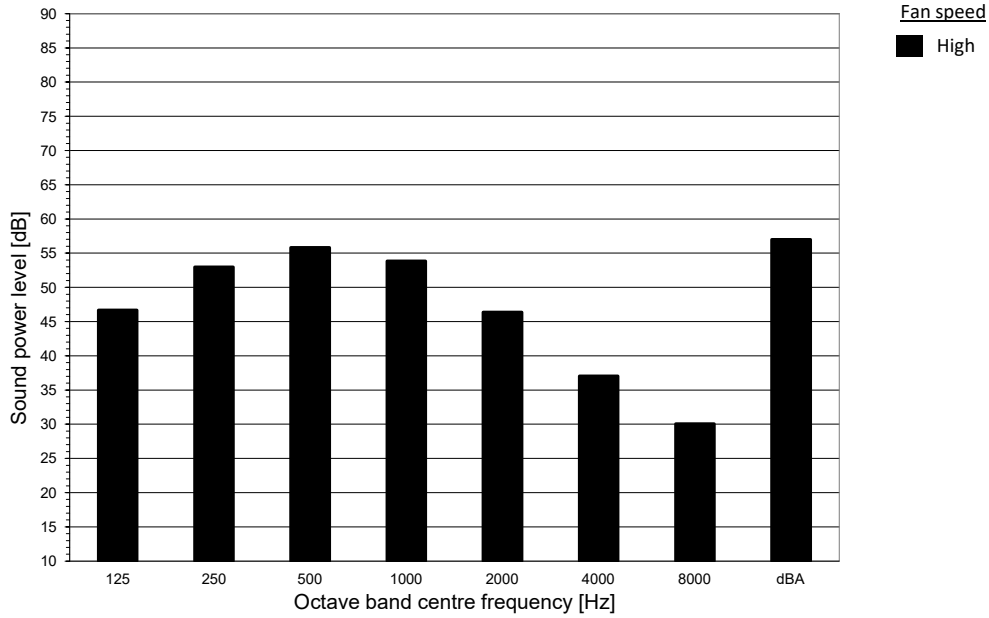
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FTXJ20AB9

FTXJ20AS9

FTXJ20AW9

Cooling mode



**Notes**

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

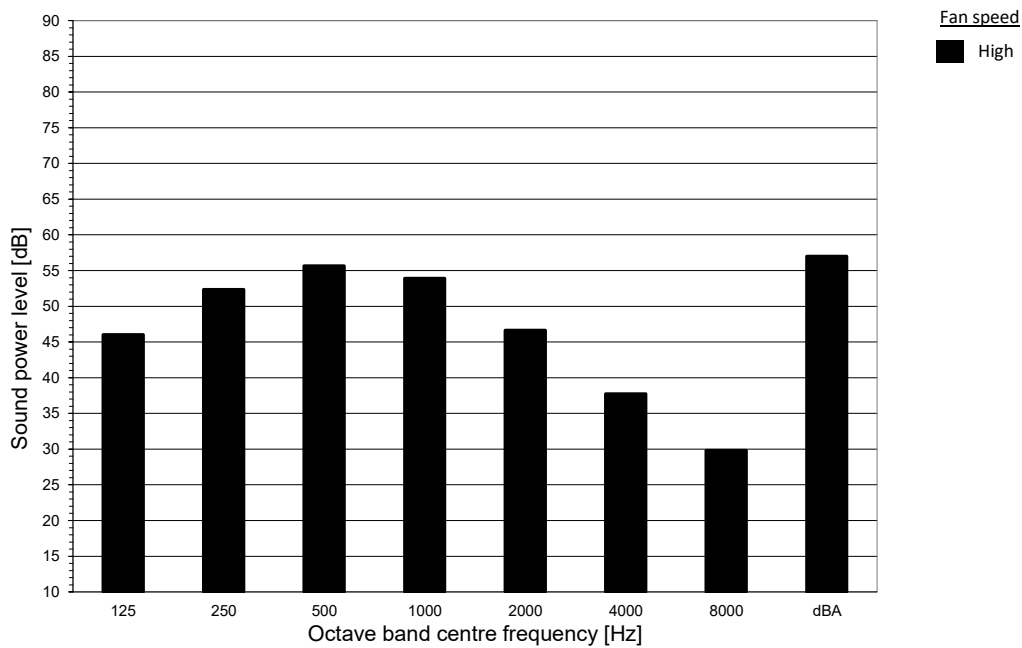
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FTXJ25AB9

FTXJ25AS9

FTXJ25AW9

Cooling mode



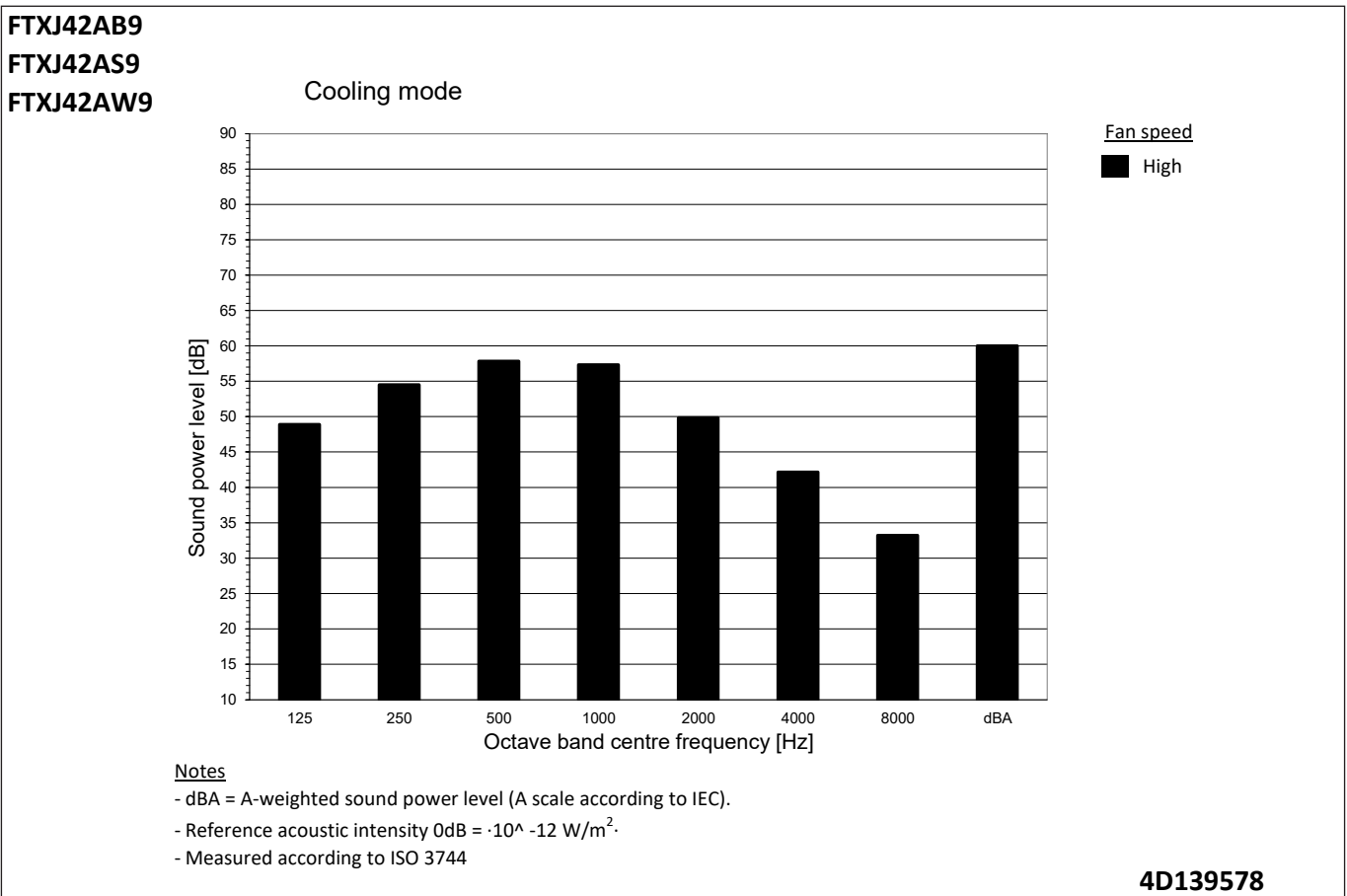
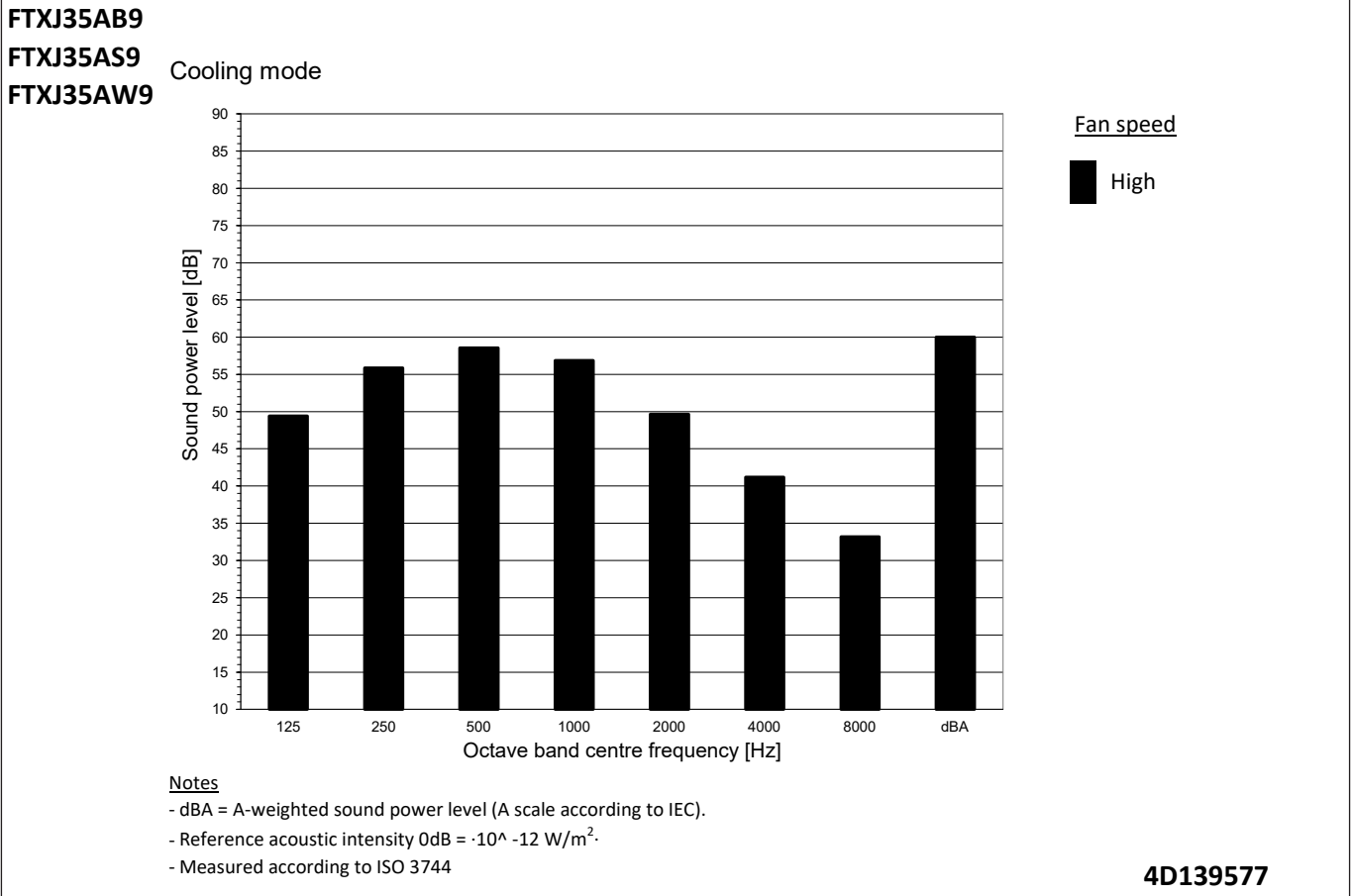
**Notes**

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

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# 8 Sound data

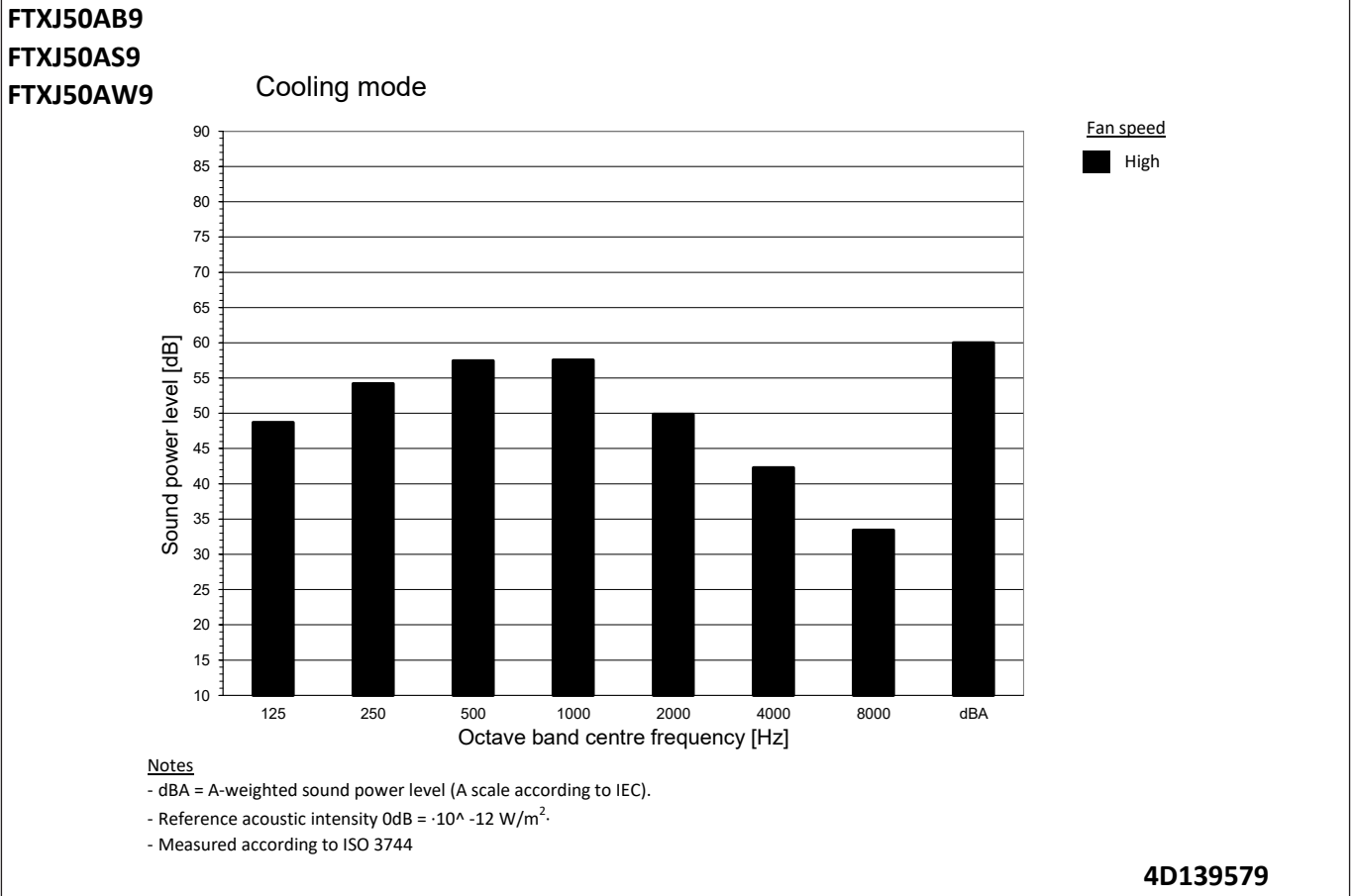
## 8 - 1 Sound Power Spectrum



# 8 Sound data

## 8 - 1 Sound Power Spectrum

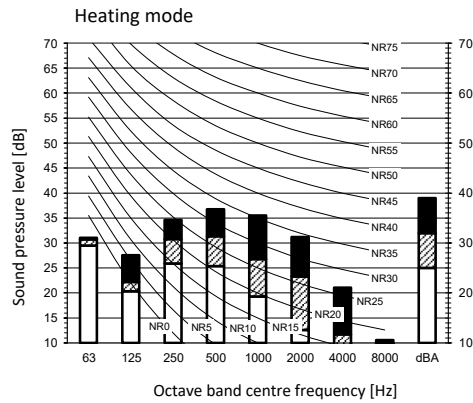
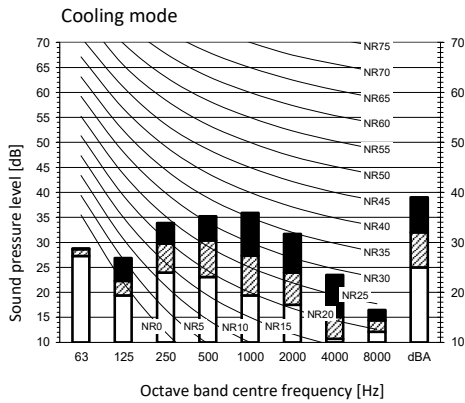
8



# 8 Sound data

## 8 - 2 Sound Pressure Spectrum

**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

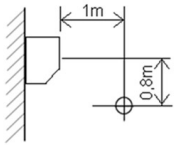
Cooling Total dB

A	B	C	D
dBA	39	32	25

Heating Total dB

A	B	C	D
dBA	39	32	25

Location of microphone



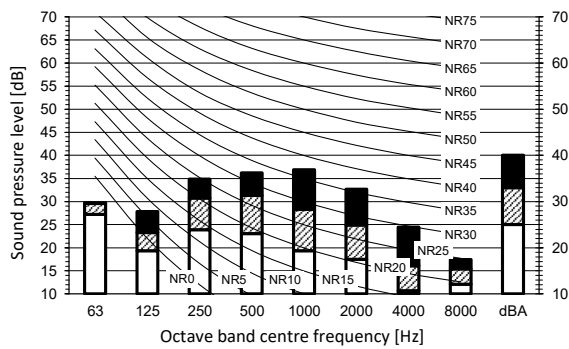
**Notes**

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

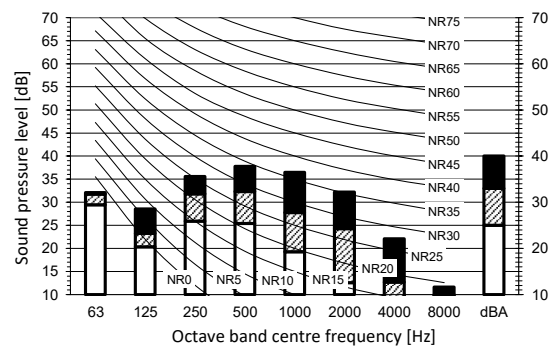
**4D139656**

**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

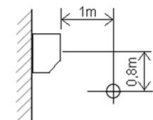
Cooling Total dB

A	B	C	D
dBA	40	33	25

Heating Total dB

A	B	C	D
dBA	40	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

**4D139657**

# 8 Sound data

## 8 - 2 Sound Pressure Spectrum

8

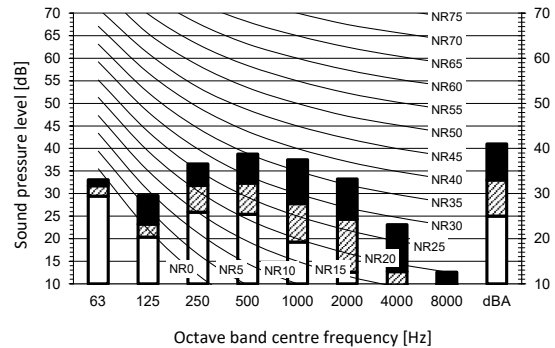
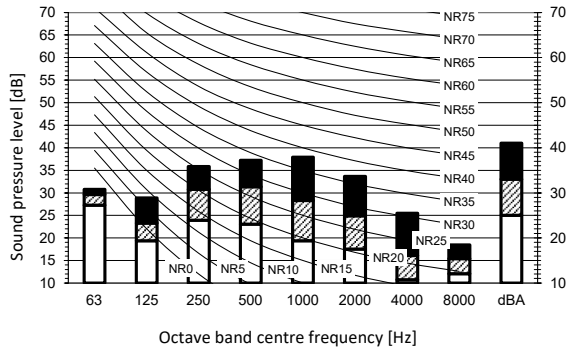
FTXJ35AB9

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

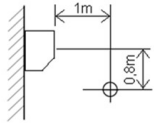
Cooling Total dB

	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

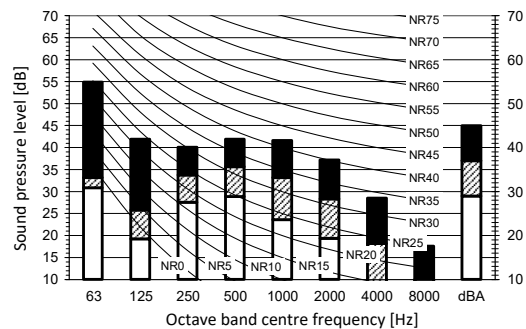
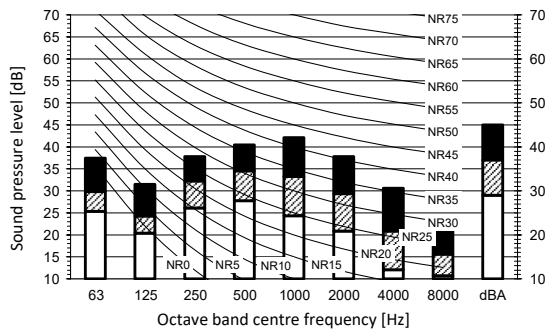
FTXJ42AB9

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

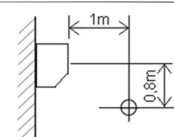
Cooling Total dB

	A	B	C	D
dBA	45	37	29	

Heating Total dB

	A	B	C	D
dBA	45	37	29	

Location of microphone



Notes

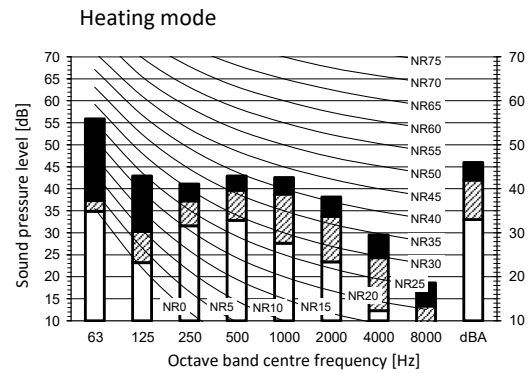
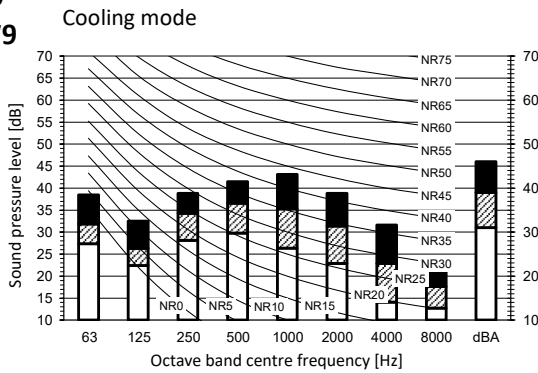
1. Operating conditions: power source 220-240 V/220 V 50/60 Hz; JIS standard
2. Background noise already taken into account.
3. Operating noise varies depending on operation and ambient conditions.
4. The operation noise measuring method is in accordance with JISC9612.
5. Measuring location: anechoic chamber

4D139659

# 8 Sound data

## 8 - 2 Sound Pressure Spectrum

FTXJ50AB9  
FTXJ50AS9  
FTXJ50AW9



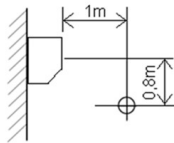
**Legend**

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

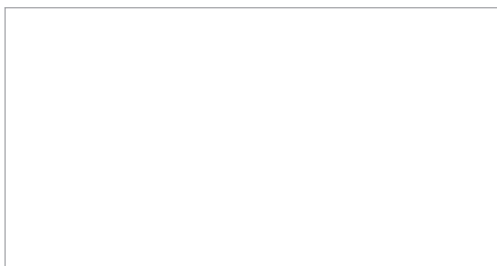
**Notes**

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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