

Air Conditioning
Technical Data

FTX-GV, FTX-J3



- > FTX50GV1B
- > FTX60GV1B
- > FTX71GV1B
- > FTX20J3V1B
- > FTX25J3V1B
- > FTX35J3V1B

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FTX-GV, FTX-J3

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1 Features

1 - 1 FTX-GV

- Online controller (optional): control your indoor unit from any location via smartphone, laptop, pc, tablet or touch screen
- 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
- Indoor unit silent operation: "silent" button on the remote control lowers the operation sound of the indoor unit by 3dBA
- Outdoor unit silent operation: "silent" button on the remote control lowers the operation sound of the outdoor unit by 3dBA to ensure a quiet environment for the neighbourhood.
- Home leave operation maintains the indoor temperature at your specified comfort level during absence, thus saving energy
- Dry programme allows humidity levels to be reduced without variations in room temperature
- Movement sensor saves power consumption in unoccupied rooms: when the room is empty, the unit switches to economy mode after 20 minutes and restarts when a person enters the room.
- Night set mode saves energy by preventing overcooling or overheating during night time



Movement sensor



Home leave operation



Night set mode



Fan only



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



Titanium apatite photocatalytic air purification filter



24 hour timer



Infrared remote control



Auto-restart



Self diagnosis

1 Features

1 - 2 FTX-J3

- 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
- ECONO mode decreases power consumption so that other appliances that need large power consumption can be used
- Outdoor unit silent operation: "silent" button on the remote control lowers the operation sound of the outdoor unit by 3dBA to ensure a quiet environment for the neighbourhood.
- Comfort mode guarantees draught free operation by preventing that warm or cold air is directly blown on to the body
- Titanium apatite photocatalytic air purification filter removes airborne microscopic particles, powerfully decomposes odours and helps to prevent the propagation of bacteria, viruses, microbes to ensure a steady supply of clean air
- Home leave operation maintains the indoor temperature at your specified comfort level during absence, thus saving energy
- Online controller: control your indoor from any location with an app, via your local network or internet
- Vertical auto swing moves the discharge flaps up and down for efficient air and temperature distribution throughout the room
- Indoor unit silent operation: "silent" button on the remote control lowers the operation sound of the indoor unit by 3dBA
- Powerful mode can be selected for rapid heating or cooling; after the powerful mode is turned off, the unit returns to the preset mode.
- Night set mode saves energy by preventing overcooling or overheating during night time
- Up to 2 indoor units can be connected to 1 multi outdoor unit; all indoor units are individually controllable and do not need to be installed in the same room or at the same time. They operate simultaneously within the same heating or cooling mode.

1



Econo mode



Night set mode



Fan only



Comfort mode



Powerful mode



Auto cooling-
heating
changeover



Indoor unit
silent operation



Vertical auto
swing



Auto fan speed



Fan speed
steps



Dry programme



Titanium apatite
photocatalytic
air purification
filter



24 hour timer



Infrared remote
control



Wired remote
control



Online
controller via
app



Auto-restart



Self diagnosis

2 Specifications

2-1 Technical Specifications					FTX50GV	FTX60GV	FTX71GV	FTX20J3	FTX25J3	FTX35J3			
Power input	Cooling		Nom.		kW	0.034	0.040 (1) / 0.040 (2) / 0.040 (3)	0.045 (1) / 0.045 (2) / 0.045 (3)	-				
	Heating		Nom.		kW	0.036	0.045 (1) / 0.045 (2) / 0.045 (3)	0.060 (1) / 0.060 (2) / 0.06 (3)	-				
Power input - 50Hz	Cooling		Nom.		kW	-			0.030				
	Heating		Nom.		kW	-			0.040				
Casing	Colour					White							
Dimensions	Unit		Height/Width/ Depth		mm	290/1,050/238			283/770/198				
	Packed unit		Height/Width/ Depth		mm	337/1,147/366		366/1,147/337	266/846/345				
Weight	Unit				kg	12			7				
	Packed unit				kg	17			11				
Packing	Weight				kg	-			4				
Heat exchanger	Length				mm	863			610				
	Rows		Quantity			2							
	Fin pitch				mm	1.4							
	Stages		Quantity			16			14				
	Tube type				ø7 Hi-XD			ø7 Hi-XA					
	Fin		Type			ML fin (Multi louver)							
	Air filter					Type					Removable / washable / mildew proof		
Fan	Type					Cross flow fan							
	Air flow rate	Cooling	High	m³/min	14.7	16.2	17.4	9.1	9.2	9.3			
				cfm	519	572	614	321	325	328			
			Low	m³/min	10.3	11.4	11.6	5.9	6.0	6.1			
				cfm	364	403	410	208	212	215			
			Silent operati on	m³/min	9.5	10.2	10.6	4.7	4.8	4.9			
				cfm	335	360	374	166	169	173			
		Heating	High	cfm	519	572	516	261	268	272			
				m³/min	14.7	16.2	14.6	7.4	7.6	7.7			
			Low	m³/min	16.1	17.4	19.7	9.4	9.7	10.1			
				cfm	568	614	696	331	342	356			
			Silent operati on	m³/min	11.5	12.7	14.3	6.3		6.7			
				cfm	406	448	505	222		235			
			Nom.	m³/min	10.2	11.4	12.7	5.5		5.7			
				cfm	360	403	448	194		201			
			Nom.		cfm	491	533	597	276	283	295		
			Nom.		m³/min	13.9	15.1	16.9	7.8	8.0	8.4		
			Fan motor	Model				ARW30W8P43DK		D43F-31	MM6C02J2VA		
				Speed	Steps			5 + silent, + auto					
Cooling	High/ Mediu m/Low/ Silent operati on	rpm			1,240/1,080/ 930/860	1,330/1,170/ 1,010/920	1,410/1,220/ 1,040/950	1,210/990/780/ 630	1,250/1,030/ 820/630	1,300/1,070/ 850/680			
					1,270/1,110/ 960/870	1,360/1,200/ 1,040/950	1,520/1,330/ 1,150/1,040	1,260/1,090/ 920/820	1,300/1,110/ 920/820	1,340/1,150/ 960/850			
Heating	High/ Mediu m/Low/ Silent operati on	rpm			1,240/1,080/ 930/860	1,330/1,170/ 1,010/920	1,410/1,220/ 1,040/950	1,210/990/780/ 630	1,250/1,030/ 820/630	1,300/1,070/ 850/680			
					1,270/1,110/ 960/870	1,360/1,200/ 1,040/950	1,520/1,330/ 1,150/1,040	1,260/1,090/ 920/820	1,300/1,110/ 920/820	1,340/1,150/ 960/850			
Output	High		W	43			-						
	Rated		W	-			16						
Sound power level	Cooling				dBA	59	60	63	55		58		
	Heating				dBA	58	59	62	55		58		

2 Specifications

2-1 Technical Specifications				FTX50GV	FTX60GV	FTX71GV	FTX20J3	FTX25J3	FTX35J3
Sound pressure level	Cooling	High/Low/Silent operation	dBA	43/34/31	45/36/33	46/37/34	39/25/22	40/26/22	41/27/23
	Heating	High/Low/Silent operation	dBA	42/33/30	44/35/32	46/37/34	39/28/25	40/28/25	41/29/26
Control systems	Infrared remote control			ARC433B70			ARC433A87		
Refrigerant	Type			R-410A					
Piping connections	Liquid	OD		6.35					
	Gas	OD		12.7		15.9	9.5		
	Drain			18					
	Heat insulation			Both liquid and gas pipes					
Temperature control				Microcomputer control					
Air direction control				Right, Left, Horizontal, Downward					

Standard Accessories : Titanium apatite photocatalytic air purification filter; Quantity : 2;

Standard Accessories : Operation manual; Quantity : 1;

Standard Accessories : Installation manual; Quantity : 1;

Standard Accessories : Wireless remote control; Quantity : 1;

Standard Accessories : Batteries; Quantity : 2;

Standard Accessories : Remote control holder; Quantity : 1;

Standard Accessories : Mounting plate; Quantity : 1;

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

Standard Accessories : Indoor unit fixing screws (M4 x 12L); Quantity : 2;

Standard Accessories : Infrared remote control; Quantity : 1;

Standard Accessories : AA dry-cell batteries; Quantity : 2;

2-2 Electrical Specifications				FTX50GV	FTX60GV	FTX71GV	FTX20J3	FTX25J3	FTX35J3
Power supply	Name			V1					
	Phase			1~					
	Frequency		Hz	50					
	Voltage		V	220-240					
Current	Nominal running current (RLA) - 50Hz	Cooling	A	0.16 (1) / 0.15 (2) / 0.15 (3)	0.19 (1) / 0.18 (2) / 0.17 (3)	0.21 (1) / 0.20 (2) / 0.19 (3)	0.14		
		Heating	A	0.17 (1) / 0.16 (2) / 0.16 (3)	0.21 (1) / 0.20 (2) / 0.19 (3)	0.28 (1) / 0.27 (2) / 0.26 (3)	0.18		
Wiring connections - 50Hz	For power supply	Quantity		-		3	-		
		Remark		3 for power supply, 4 for interunit wiring (Earth wire included)			-		

Notes

(1) 220V

(2) 230V

(3) 240V

SL: The silent fan level of the air flow rate setting

3 Options

3 - 1 Options

3

FTX-GV

Indoor Units - Control systems

		FTX-GV
Wired remote control		BRC944 (3) BRC073 (3)
Cord for wired remote control	3m	BRCW901A03
	8m	BRCW901A08
Wiring adapter normal open contact / normal open pulse contact		KRP413A1S (1)
Centralised control board	Up to 5 rooms	KRC72 (2)
Anti-theft protection for remote control		KKF917AA4
Interface adapter for DIII-net		KRP928A2S
Online controller		BRP069A42
Modbus gateway		RTD-RA
KNX gateway		KLIC-DD

- (1) Wiring adapter supplied by Daikin. Time clock and other devices: to be purchased locally.
 (2) Wiring adapter is also required for each indoor unit.
 (3) Cord for wired remote control BRCW901A03 or BRCW901A08 required.

FTX-J3

Indoor Units - Control systems

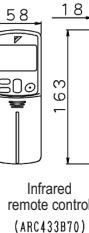
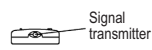
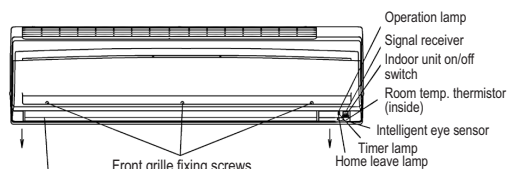
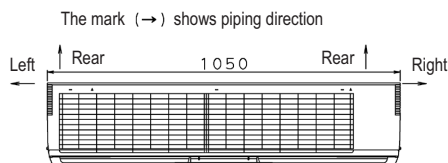
		FTX-J3
Wired remote control		BRC944 (1) (2) BRC073 (1) (2)
Cord for wired remote control	3m	BRCW901A03
	8m	BRCW901A08
Anti-theft protection for remote control		KKF917AA4
Interface adapter for wired remote control		KRP980A1
Interface adapter for DIII-net		KRP928A2S (2)
Online controller		BRP069A43
Modbus gateway		RTD-RA (2)
KNX gateway		KLIC-DD (2)

- (1) Cord for wired remote control BRCW901A03 or BRCW901A08 required.
 (2) Interface adapter KRP980A1, KRP067A41 or KRP980B2 required.

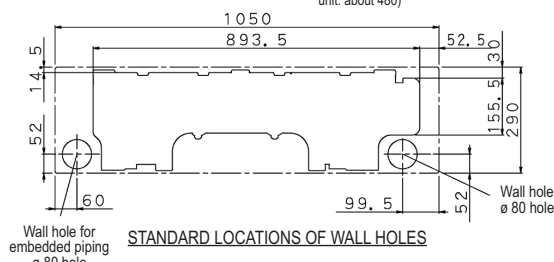
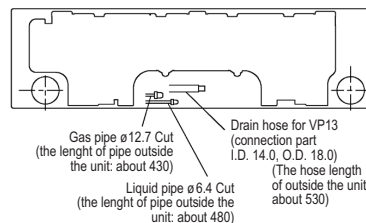
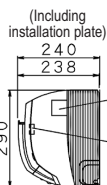
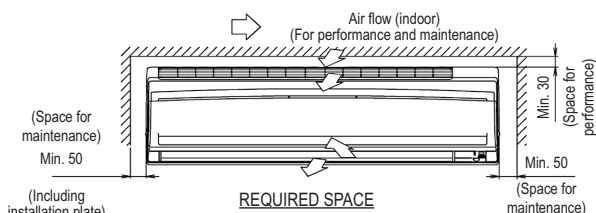
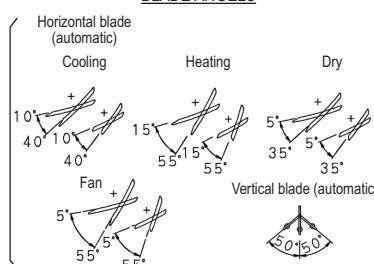
4 Dimensional drawings

4 - 1 Dimensional Drawings

FTX50-60GV



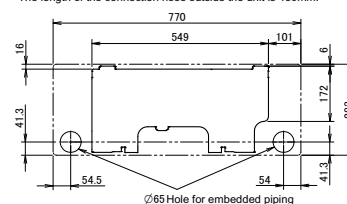
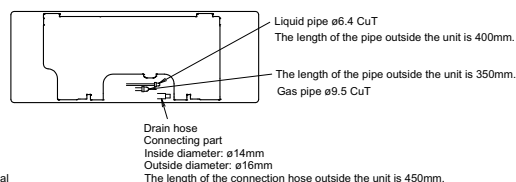
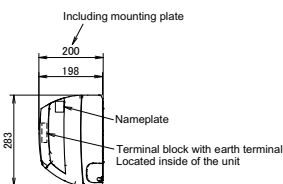
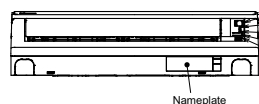
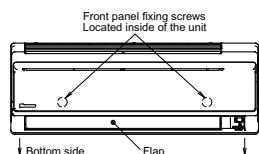
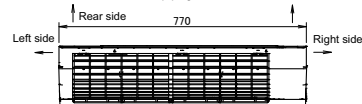
BLADE ANGLES



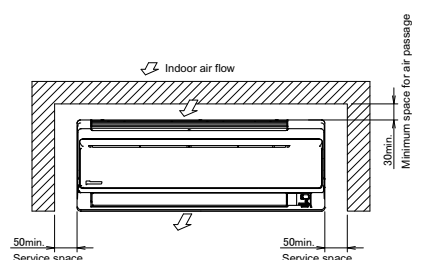
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FTX-J3

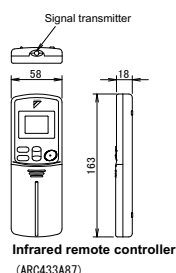
The → mark shows the piping direction.



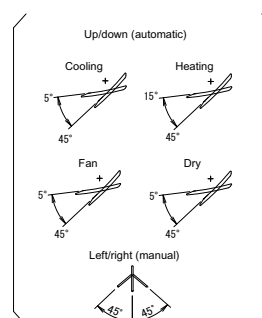
Standard location of holes in the wall



Required space for service and ventilation



Infrared remote controller (ARC433A87)

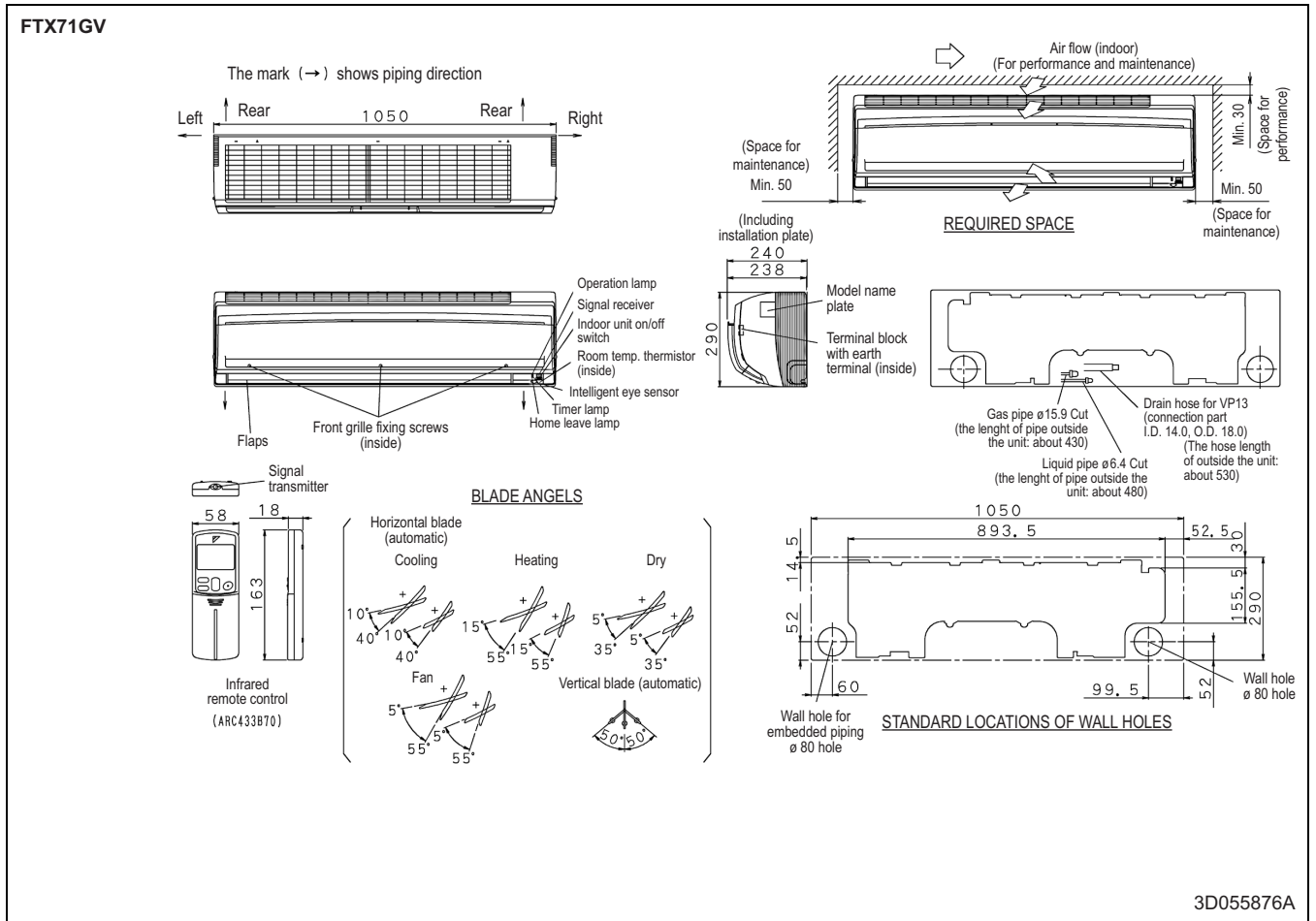


Blade angle

3D092217

4 Dimensional drawings

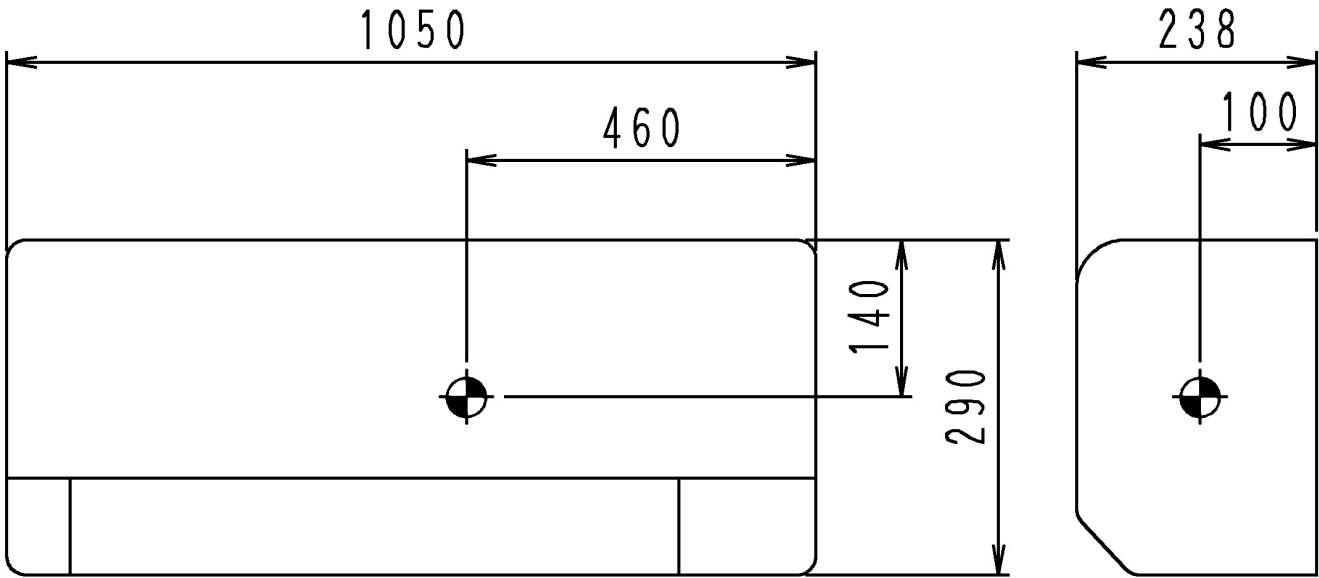
4 - 1 Dimensional Drawings



5 Centre of gravity

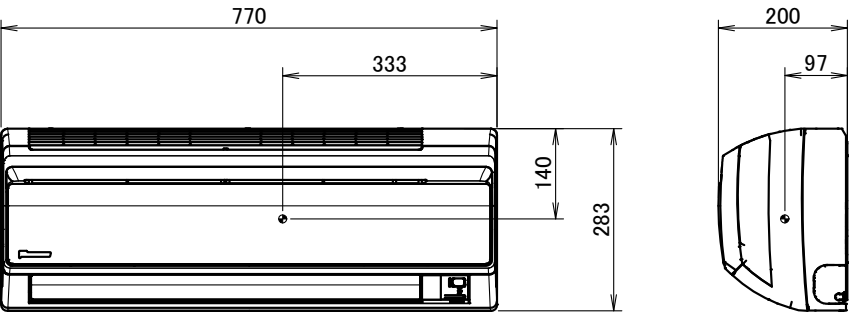
5 - 1 Centre of Gravity

FTX50-71GV



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FTX-J3

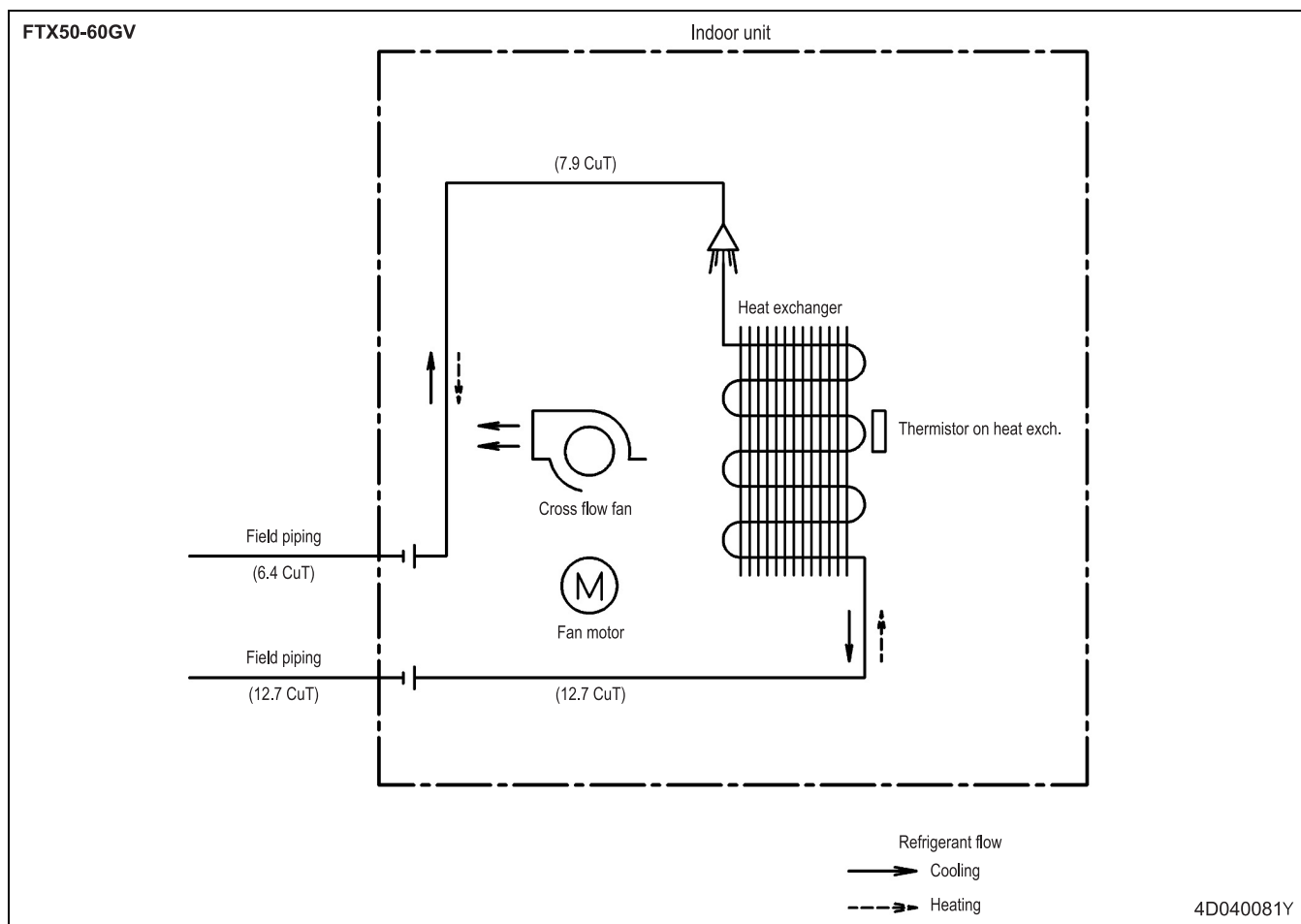


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6 Piping diagrams

6 - 1 Piping Diagrams

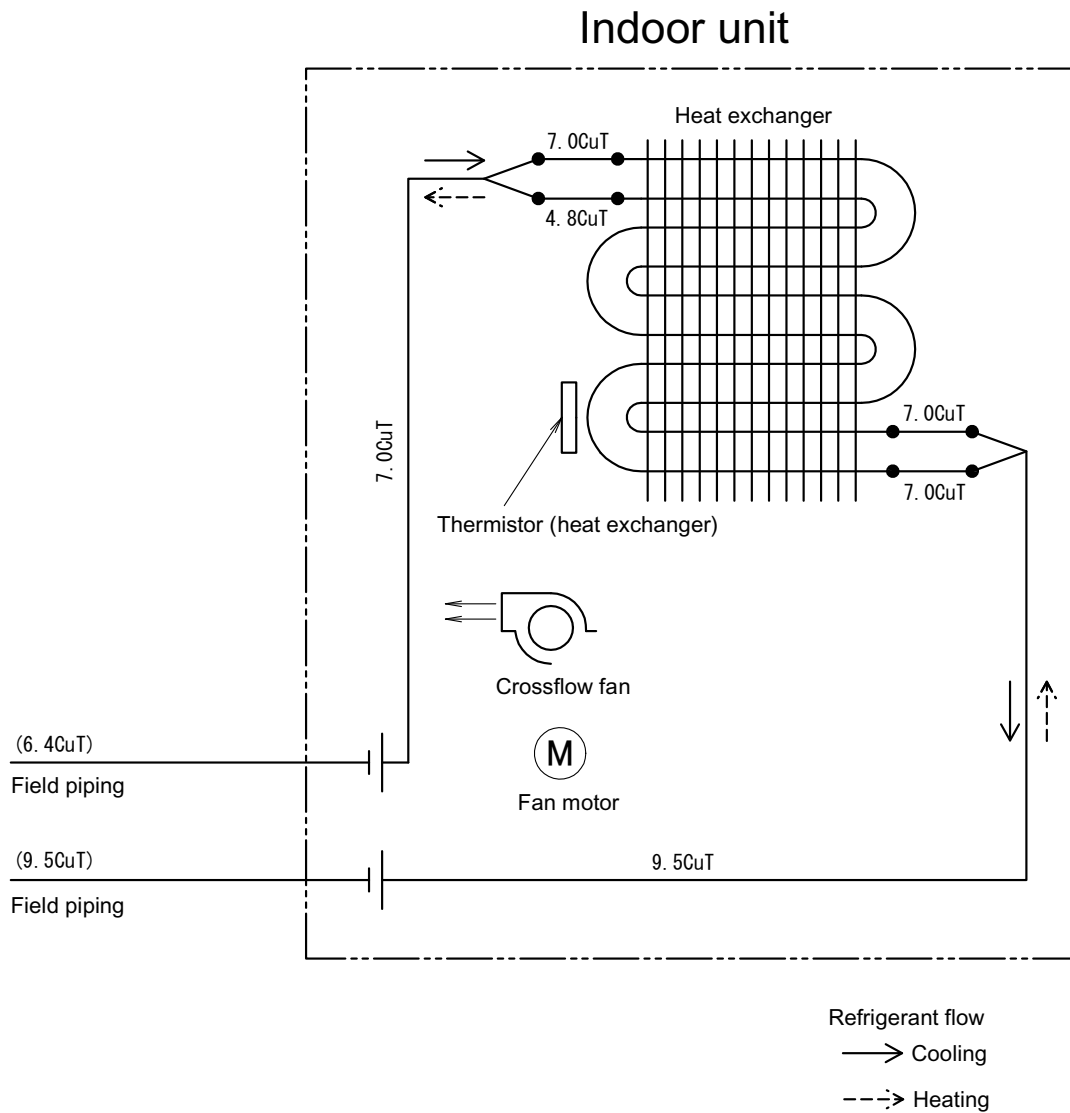
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6 Piping diagrams

6 - 1 Piping Diagrams

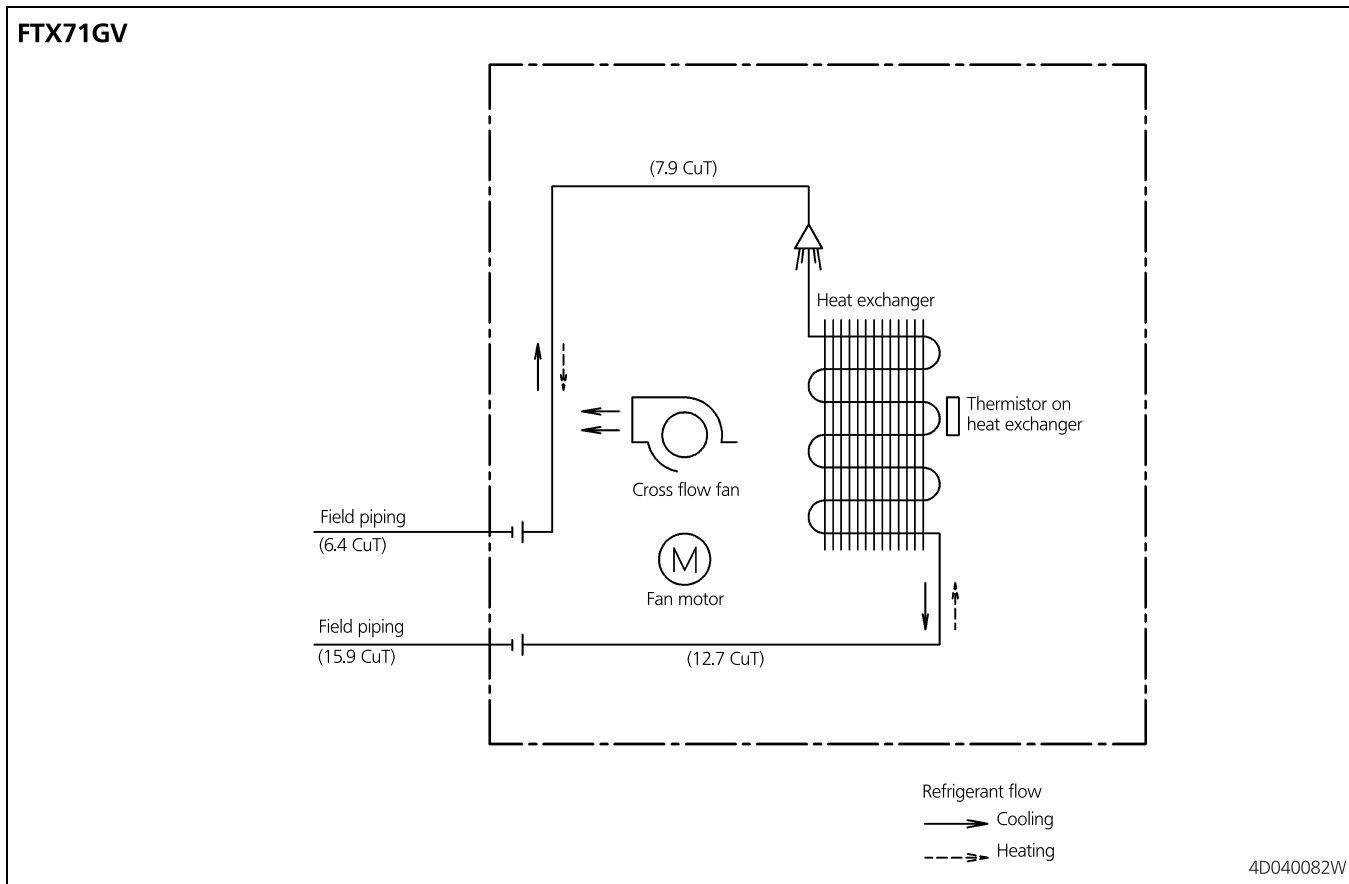
FTX-J3



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6 Piping diagrams

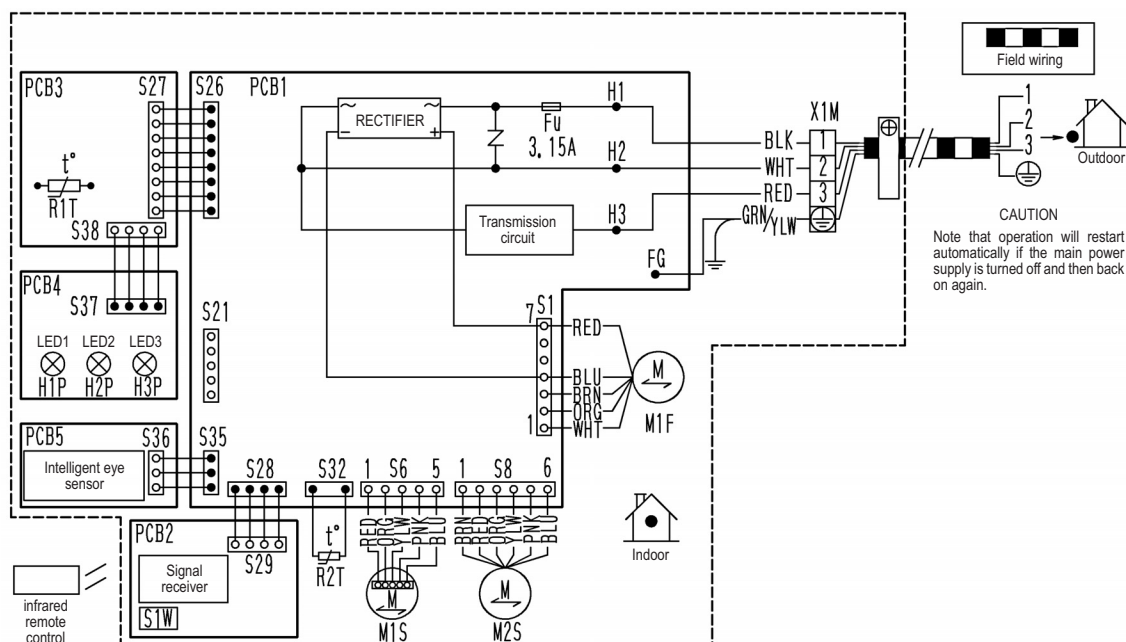
6 - 1 Piping Diagrams



7 Wiring diagrams

7 - 1 Wiring Diagrams - Single Phase

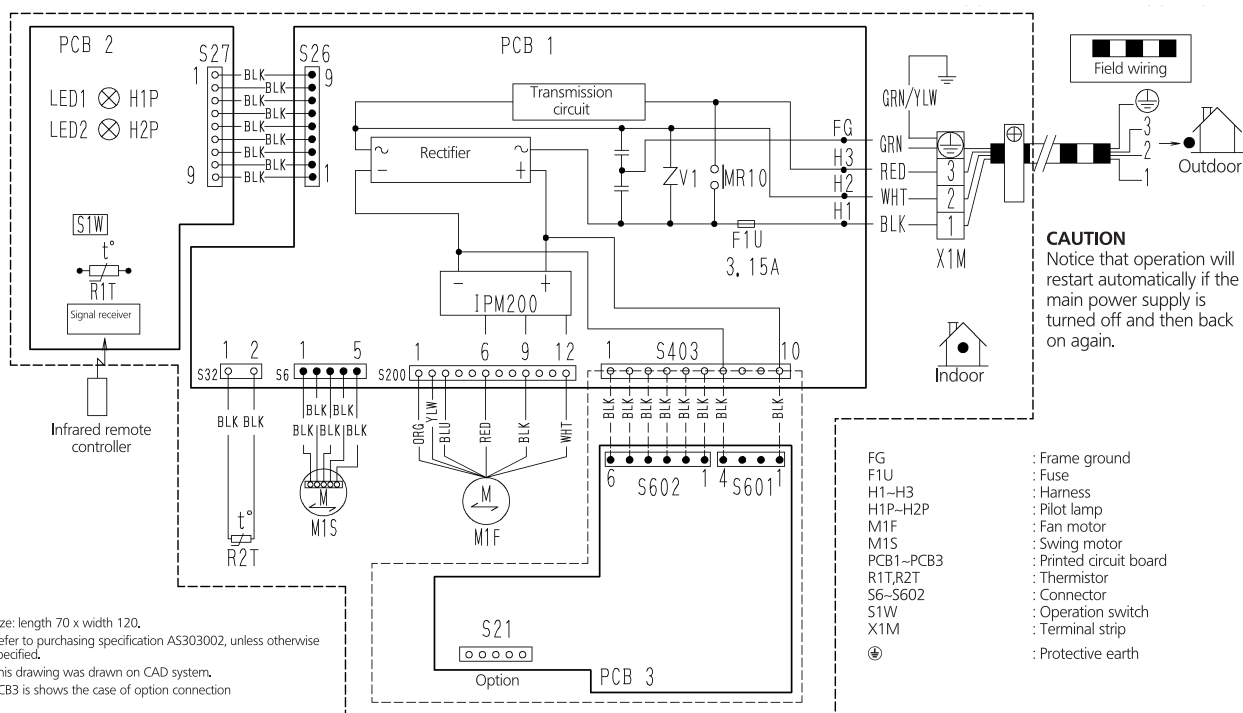
FTX50-71GV



FG	Frame ground	PCB1~PCB5	Printed circuit board
FU	Fuse	R1T,R2T	Thermistor
H1~H3	Harness	S1~S38	Connector
H1P~H3P	Pilot lamp	S1W	Operation switch
M1F	Fan motor	X1M	Terminal strip
M1S, M2S	Swing motor	⊕	Protective earth

3D038530U

FTX-J3



- Notes
- 1 Size: length 70 x width 120.
 - 2 Refer to purchasing specification AS303002, unless otherwise specified.
 - 3 This drawing was drawn on CAD system.
 - 4 PCB3 shows the case of option connection

FG	: Frame ground
FU	: Fuse
H1~H3	: Harness
H1P~H2P	: Pilot lamp
M1F	: Fan motor
M1S	: Swing motor
PCB1~PCB3	: Printed circuit board
R1T,R2T	: Thermistor
S6~S602	: Connector
S1W	: Operation switch
X1M	: Terminal strip
⊕	: Protective earth

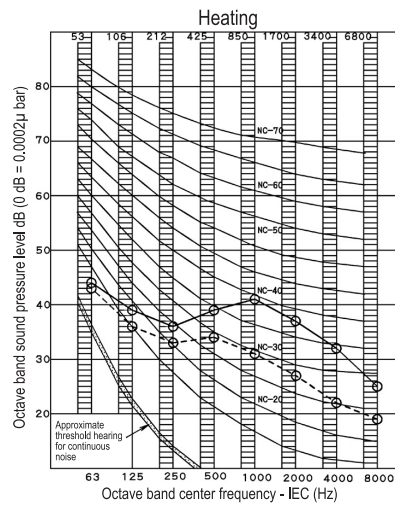
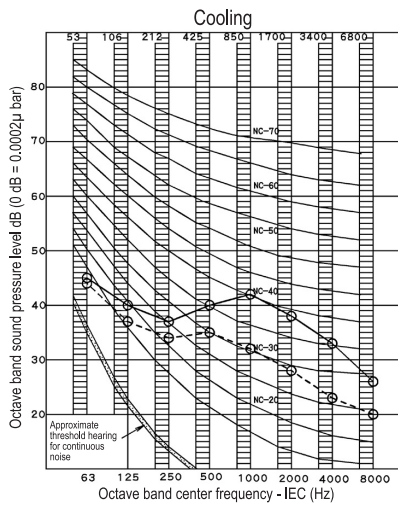
3D058454F

8 Sound data

8 - 1 Sound Pressure Spectrum

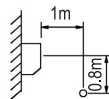
8

FTX50GV



NOTES

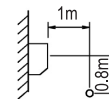
- Over All (dB):
(B,G,N is already rectified)
- Measuring place: measure in anechoic room.
- Operation noise differs with operation and ambient conditions.
- Location of microphone.
JISC9612
The operation noise measuring method is in accordance with JISC9612



Scale	50Hz 220-240V	
	H	L
A	43	34

NOTES

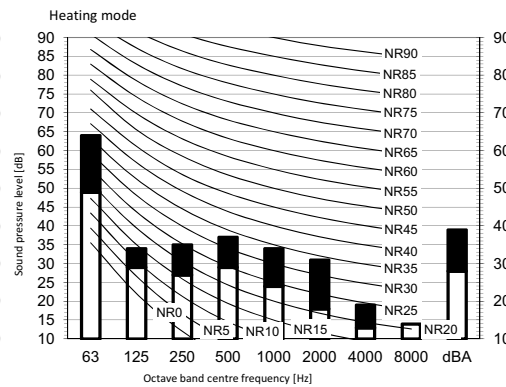
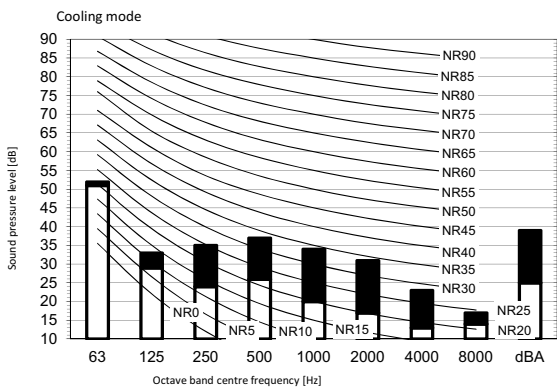
- Over All (dB):
(B,G,N is already rectified)
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- Operation noise differs with operation and ambient conditions.
- Location of microphone.
JISC9612
The operation noise measuring method is in accordance with JISC9612



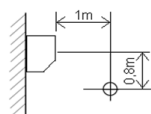
Scale	50Hz 220-240V	
	H	L
A	42	33

3D050979C

FTX20J3 / GV



Legend
dBA = A-weighted sound pressure level (A scale according to IEC).
A Scale
B High-tap
C Low-tap
Location of microphone



Cooling Total dB		
A	B	C
dBA	39	25

Heating Total dB		
A	B	B
dBA	39	28

Notes

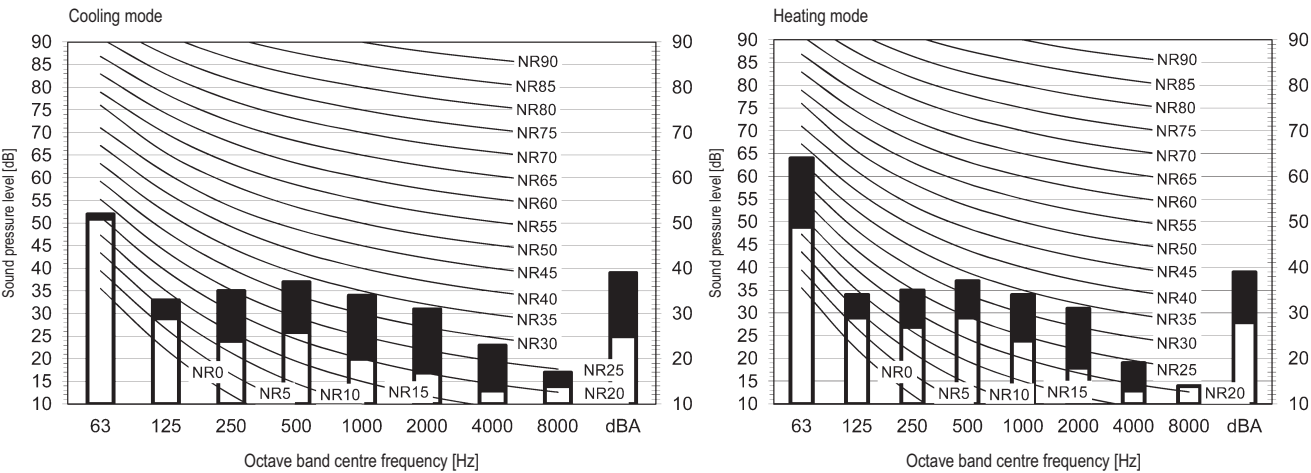
- Operating conditions: power source 220-240 V/220 V 50/60 Hz; JIS standard
- Background noise already taken into account.
- Operating noise varies depending on operation and ambient conditions.
- The operation noise measuring method is in accordance with JISC9612.
- Measuring location: anechoic chamber

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8 Sound data

8 - 1 Sound Pressure Spectrum

FTX20J3



LEGEND

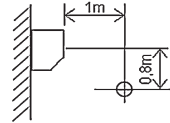
dBA = A-weighted sound pressure level (A scale according to IEC)

A Scale

B High-tap

C Low-tap

Location of microphone



Cooling		
Total dB		
A	B	C
dBA	39	25

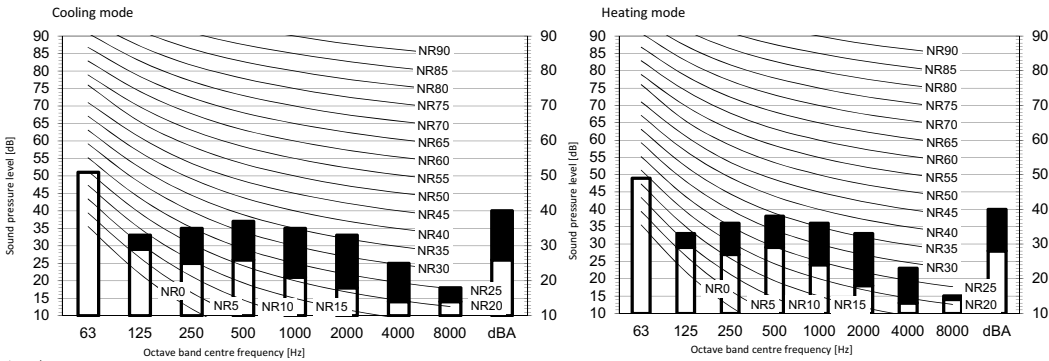
Heating		
Total dB		
A	B	C
dBA	39	28

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.

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FTX25J3 / GV



Legend

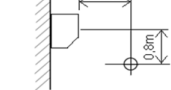
dBA = A-weighted sound pressure level (A scale according to IEC).

A Scale

B High-tap

C Low-tap

Location of microphone



Cooling		
Total dB		
A	B	C
dBA	40	25

Heating		
Total dB		
A	B	B
dBA	40	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

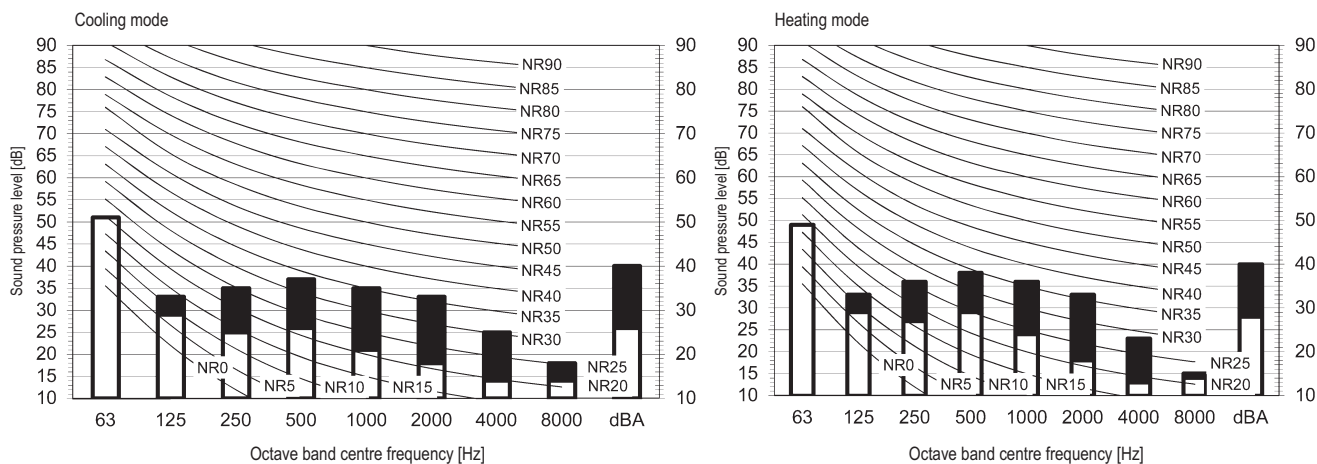
3D092112A

8 Sound data

8 - 1 Sound Pressure Spectrum

8

FTX25J3



LEGEND

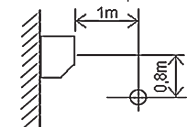
dBA = A-weighted sound pressure level (A scale according to IEC)

A Scale

B High-tap

C Low-tap

Location of microphone



Cooling Total dB

A	B	C
dBA	40	26

Heating Total dB

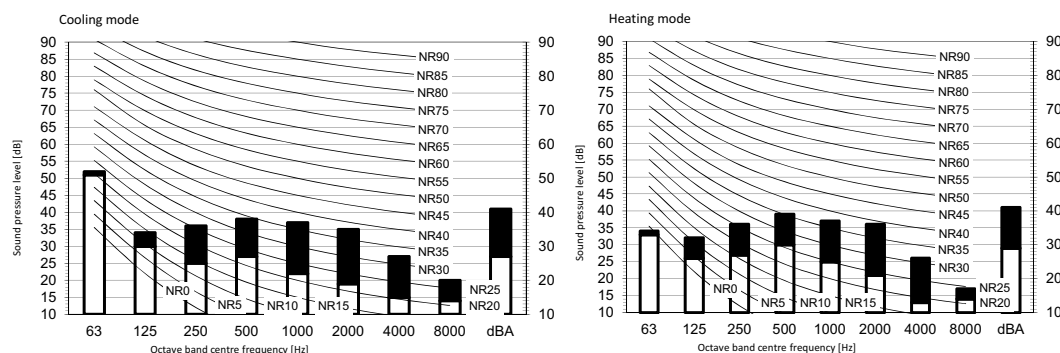
A	B	C
dBA	40	28

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.

3D092112A

FTX35J3 / GV



Legend

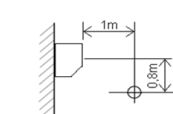
dBA = A-weighted sound pressure level (A scale according to IEC).

A Scale

B High-tap

C Low-tap

Location of microphone



Cooling Total dB

A	B	C
dBA	41	27

Heating Total dB

A	B	C
dBA	41	29

Notes

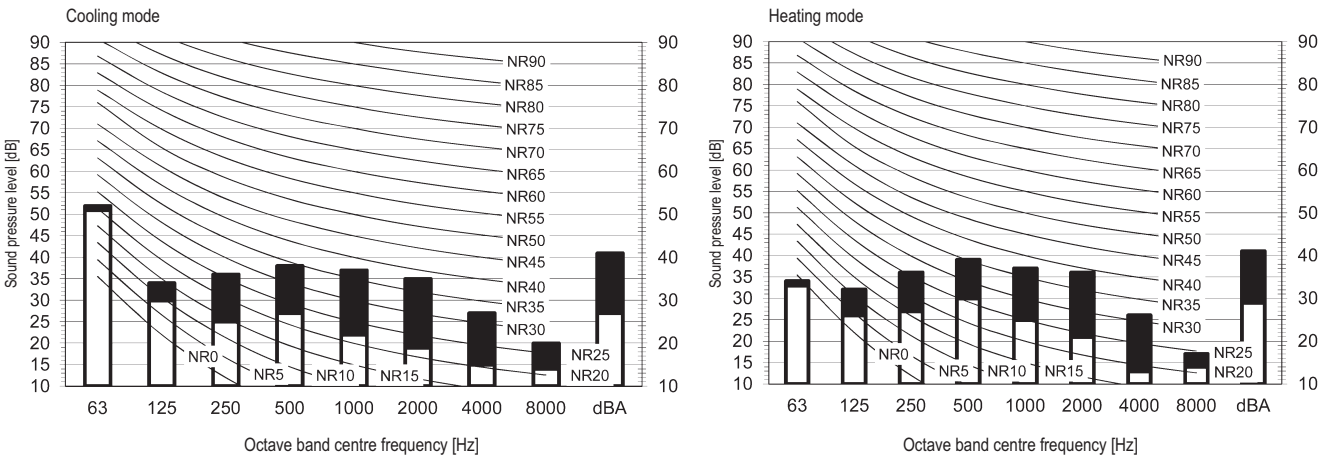
1. Operating conditions: power source 220-240 V/220 V 50/60 Hz; JIS standard.
2. Background noise already taken into account.
3. Operating noise varies depending on operation and ambient conditions.
4. The operation noise measuring method is in accordance with JISC9612.
5. Measuring location: anechoic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

3D092113A

8 Sound data

8 - 1 Sound Pressure Spectrum

FTX35J3



LEGEND

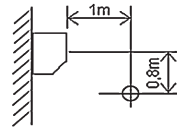
dBA = A-weighted sound pressure level (A scale according to IEC)

A Scale

B High-tap

C Low-tap

Location of microphone



Cooling		
Total dB		
A	B	C
dBA	41	27

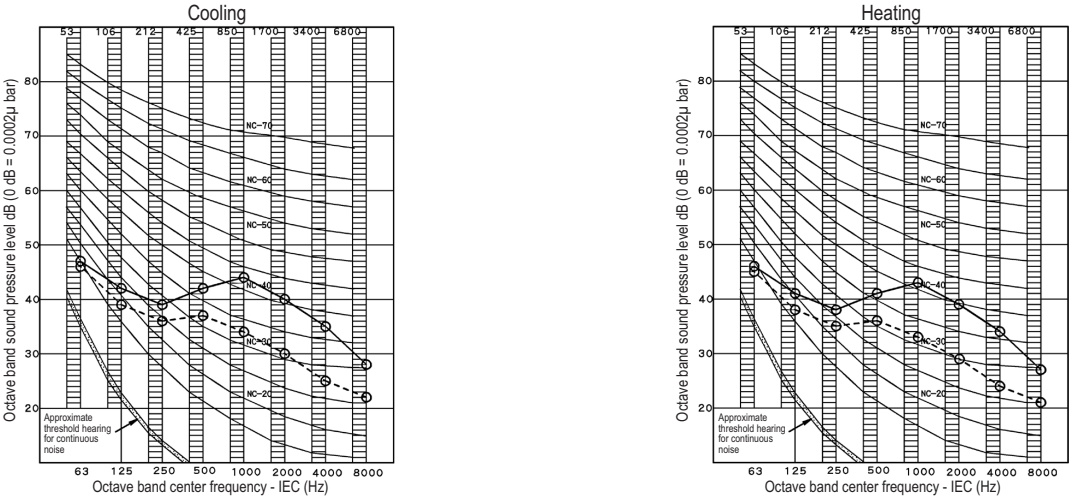
Heating		
Total dB		
A	B	C
dBA	41	29

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.

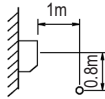
3D092113A

FTX60GV



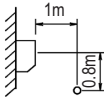
NOTES

- 1 Over All (dB):
(B,G,N is already rectified)
- 2 Measuring place: measure in anechoic room.
- 3 Operation noise differs with operation and ambient conditions.
- 4 Location of microphone.
JISC9612
The operation noise measuring method is in accordance with JISC9612



NOTES

- 1 Over All (dB):
(B,G,N is already rectified)
- 2 Measuring place: measure in anechoic room.
- 3 Operation noise differs with operation and ambient conditions.
- 4 Location of microphone.
JISC9612
The operation noise measuring method is in accordance with JISC9612



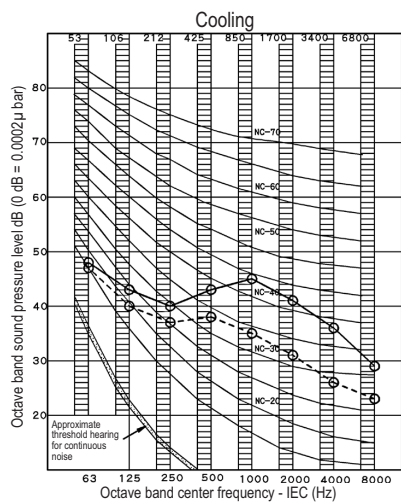
3D051227E

8 Sound data

8 - 1 Sound Pressure Spectrum

8

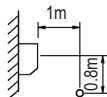
FTX71GV



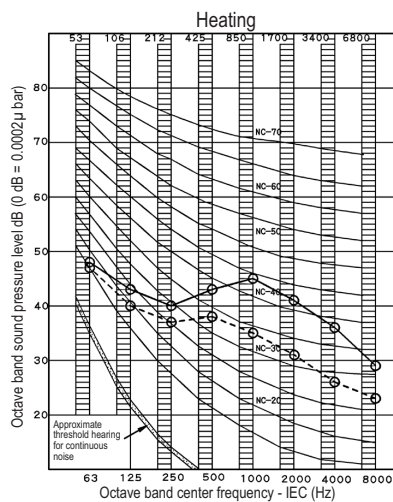
3D051225D

NOTES

- 1 Over All (dB):
(B,G,N is already rectified)
- 2 Measuring place: measure in anechoic room.
- 3 Operation noise differs with operation and ambient conditions.
- 4 Location of microphone.
JISC9612
The operation noise measuring method is in accordance with JISC9612



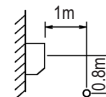
Scale	50Hz 220-240V	
	H	L
A	46	37



3D051225D

NOTES

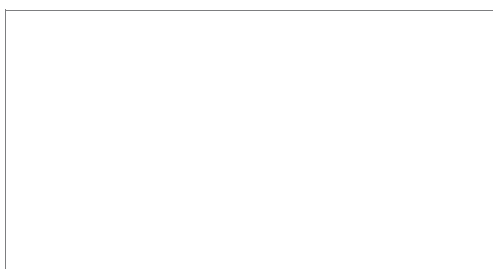
- 1 Over All (dB):
(B,G,N is already rectified)
- 2 Measuring place: measure in anechoic room.
- 3 Operation noise differs with operation and ambient conditions.
- 4 Location of microphone.
JISC9612
The operation noise measuring method is in accordance with JISC9612



Scale	50Hz 220-240V	
	H	L
A	46	37

3D051225D

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