

Air Conditioning
Technical Data
**FLXS-B, FLXS-
B9**



- > FLXS25BAVMB
- > FLXS50BAVMB
- > FLXS60BAVMB
- > FLXS35BAVMB9

TABLE OF CONTENTS

FLXS-B, FLXS-B9

1	Features	2
	FLXS-B	2
	FLXS-B9	3
2	Specifications	4
	Technical Specifications	4
	Electrical Specifications	5
3	Options	6
4	Dimensional drawings	7
	Dimensional Drawings Ceiling Mounted Installation	7
	Dimensional Drawings Floor Mounted Installation	8
5	Centre of gravity	9
6	Piping diagrams	10
7	Wiring diagrams	11
	Wiring Diagrams - Single Phase	11
8	Sound data	12
	Sound Pressure Spectrum - Cooling	12
	Sound Pressure Spectrum - Heating	13

1 Features

1 - 1 FLXS-B

- Can fit on either ceiling or lower wall; its low height enables the unit to fit beneath a window
- Home leave operation maintains the indoor temperature at your specified comfort level during absence, thus saving energy
- Night set mode saves energy by preventing overcooling or overheating during night time
- Vertical auto swing moves the discharge flaps up and down for efficient air and temperature distribution throughout the room
- Whisper quiet operation: down to 28dBA sound pressure level
- Online controller: control your indoor from any location with an app, via your local network or internet



Home leave operation



Fan only



Powerful mode



Auto cooling-heating changeover



Whisper quiet



Indoor unit silent operation



Vertical auto swing



Auto fan speed



Fan speed steps



Dry programme



Photocatalytic deodorising air purification filter



24 hour timer



Infrared remote control



Online controller via app



Auto-restart



Self diagnosis



Multi model application



VRV for residential application

1 Features

1 - 2 FLXS-B9

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VRV for residential application

2 Specifications

2-1 Technical Specifications					FLXS25B		FLXS50B		FLXS60B		FLXS35B9				
Power input - 50Hz	Cooling		Nom.		kW		0.070		0.096		0.098		0.078 (1) / 0.078 (2) / 0.078 (3)		
	Heating		Nom.		kW		0.074		0.096				0.078 (1) / 0.078 (2) / 0.078 (3)		
Casing	Colour					Almond white									
Dimensions	Unit		Height/Width/Depth		mm		490/1,050/200								
	Packed unit		Height/Width/Depth		mm		566/1,100/280								
Weight	Unit				kg		16		17				16		
	Packed unit				kg		22		24				22		
Heat exchanger	Length				mm		840								
	Rows		Quantity			2		3				2			
	Fin pitch				mm		1.75		1.5				1.75		
	Stages		Quantity			8		10				8			
	Tube type				ø7 Hi-XA							ø7 Hi-XD			
	Fin		Type			ML fin (Multi louver)									
Air filter	Type					Removable / washable / mildew proof									
Fan	Type					Sirocco fan									
	Quantity					1						-			
	Air flow rate	Cooling	High	m³/min		7.6		11.4		12.0		8.6			
				cfm		-						304			
			Low	m³/min		6.0		8.5		9.3		6.6			
				cfm		-						233			
			Silent operation	m³/min		5.2		7.5		8.3		5.6			
				cfm		-						198			
			Nom.	cfm		-						368			
				m³/min		7.6		11.4		10.7		7.6			
			Heating	High	m³/min		9.2		12.1		12.8				
					cfm		-						452		
				Low	m³/min		7.4		7.5		8.4		8.0		
					cfm		-						282		
		Silent operation		m³/min		6.6		6.8		7.5		7.2			
				cfm		-						254			
		Nom.	cfm		-						367				
			m³/min		8.3		9.8		10.6		10.4				
Fan motor	Quantity					1						-			
	Model					KFP-220-34-4A						KFD-220-34-4A			
	Speed	Steps				5 + silent, + auto									
		Cooling	High/ Medium/ Low/ Silent operation	rpm	820/740/660/580		1,380/1,240/1,100/1,000				920/820/720/620				
					880/790/700/620		1,320/1,130/940/860				1,200/980/760/680				
Output		High		W		34									
Sound power level	Cooling				dBA		51		60			53			
	Heating				dBA		51		-		59				
Sound pressure level	Cooling		High/Low/Silent operation			dBA		37/31/28		47/39/36		48/41/39		38/32/29	
	Heating		High/Low/Silent operation			dBA		37/31/29		46/35/33		47/37/34		46/33/30	
Control systems	Infrared remote control					ARC433B67									
Refrigerant	Type					R-410A									

2 Specifications

2-1 Technical Specifications			FLXS25B	FLXS50B	FLXS60B	FLXS35B9
Piping connections	Liquid	OD	6.35			
	Gas	OD	9.52	12.7		9.5
	Drain		18			
	Heat insulation		Both liquid and gas pipes			
Temperature control			Microcomputer control			
Air direction control			Left, right, up and downwards			Right, Left, Horizontal, Downward

Standard Accessories : Installation and operation manual; Quantity : 1;
Standard Accessories : Infrared remote control; Quantity : 1;
Standard Accessories : Batteries; Quantity : 2;
Standard Accessories : Remote control holder; Quantity : 1;
Standard Accessories : Air purification filter; Quantity : 1;
Standard Accessories : Heat insulation tube (refrigerant pipe); Quantity : 1;
Standard Accessories : Mounting plate; Quantity : 1;
Standard Accessories : Side cover; Quantity : 2;
Standard Accessories : Binding band; Quantity : 4;
Standard Accessories : Photocatalytic deodorizing filter; Quantity : 1;
Standard Accessories : Extension auxiliary pipe; Quantity : 2;
Standard Accessories : Installation manual; Quantity : 1;
Standard Accessories : Operation manual; Quantity : 1;
Standard Accessories : AAA dry-cell batteries; Quantity : 2;

2-2 Electrical Specifications				FLXS25B	FLXS50B	FLXS60B	FLXS35B9
Power supply	Name			VM			
	Phase			1~			
	Frequency		Hz	50/60			50
	Voltage		V	220-240/220-230			220-240
Voltage range	Min.		%	-10			-
	Max.		%	10			-
Current	Nominal running current (RLA) - 50Hz	Cooling	A	0.33 (1) / 0.32 (2) / 0.31 (3)	0.48 (1) / 0.45 (2) / 0.43 (3)	0.47 (2)	0.38 (1) / 0.36 (2) / 0.35 (3)
		Heating	A	0.36 (1) / 0.34 (2) / 0.33 (3)	0.47 (1) / 0.45 (2) / 0.44 (3)	0.45 (2)	0.38 (1) / 0.36 (2) / 0.35 (3)
Wiring connections - 50Hz	For power supply	Quantity		3			
		Remark		4 for interunit wiring (earth wire included)			
Power supply intake				Outdoor unit only			-

Notes

- (1) 220V
(2) 230V
(3) 240V

Sound values are measured in an anechoic room.

Sound pressure level is a relative value, depending on the distance and acoustic environment. For more details, please refer to the sound level drawings.

The sound power level is an absolute value indicating the power which a sound source generates.

When connected with multi-system outdoor unit, refer to the specifications of the multi outdoor unit to be connected.

Options

3 - 1 Options

FLXS-B9
FLXS-B

Option kit	Product name	Remark	Applicable models														Class	Using	Factory
			FLXS-B9	FLXS-B	FLXS-B9	FLXS-B	FLXS-B9	FLXS-B	FLXS-B9	FLXS-B	FLXS-B9	FLXS-B	FLXS-B9	FLXS-B	FLXS-B9	FLXS-B			
Wired remote control	RP037341		2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
Wired remote control	RP037342		2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
Extension cord for wired remote control (3m)	RP037343		2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
Extension cord for wired remote control (5m)	RP037344		2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
Interface adaptor for wired remote control	RP037345		2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
Interface adaptor for wired remote control	RP037346		2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
Interface adaptor for wired remote control	RP037347		2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
Interface adaptor for wired remote control	RP037348		2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
Centralised control board (up to 5 rooms)	RP037349		2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
Wiring adaptor (normal open contact - normal open pulse contact)	RP037350		2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
Wi-Fi adaptor for smartphones	RP037351	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
Wi-Fi adaptor for smartphones	RP037352		2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
Wi-Fi adaptor for smartphones	RP037353		2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
Wi-Fi adaptor for smartphones	RP037354		2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
Interface adaptor for DTH-Net	RP037355		2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
Central remote control	RP037356		2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
Unified ON/OFF controller	RP037357		2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
Schedule timer	RP037358		2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
Titanium apatite photocatalytic air-purifying filter without frame	RP037359	3	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
Titanium apatite photocatalytic air-purifying filter without frame	RP037360		2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
Titanium apatite photocatalytic air-purifying filter with frame	RP037361	3	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
Titanium apatite photocatalytic air-purifying filter without frame	RP037362		2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
Photocatalytic deodorising and air-purifying filter without frame	RP037363		2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
Photocatalytic deodorising filter with frame	RP037364		2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
Photocatalytic deodorising filter without frame	RP037365		2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
Air-purifying filter with frame	RP037366		2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
Photocatalytic deodorising and air-purifying filter with frame	RP037367		2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
Anti-theft protection for remote control	RP037368		2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
Anti-theft protection for remote control	RP037369		2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
Anti-theft protection for remote control	RP037370		2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
Anti-theft protection for remote control	RP037371		2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
Installation frame for floor-standing units	RP037372		2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2

Notes

- R410A models
- Editable data for this drawing are available in the GDE (E-BOM) system.

Legend

- Three-dimensional knitted fabric (42x275mm) + activated charcoal net
- Three-dimensional knitted fabric (42x255mm) + activated charcoal net
- Corrugated fiberboard (42x275mm)
- Without connection cable
- Three-dimensional knitted fabric (24x115 + 42x255mm) + activated charcoal net

3D095247D

4 Dimensional drawings

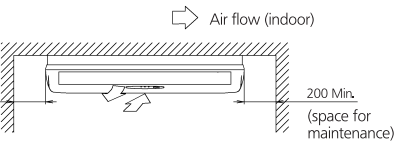
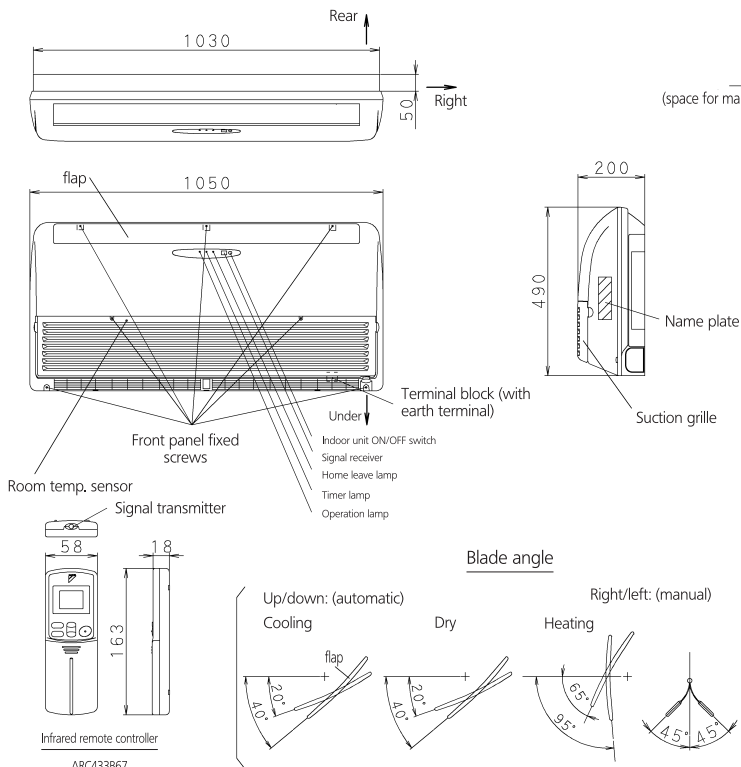
4 - 1 Dimensional Drawings Ceiling Mounted Installation

FLXS25-35B(9)

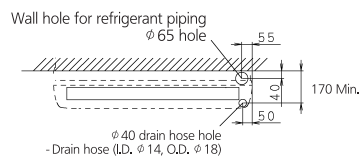
Ceiling suspended installation

The mark (→) shows piping direction

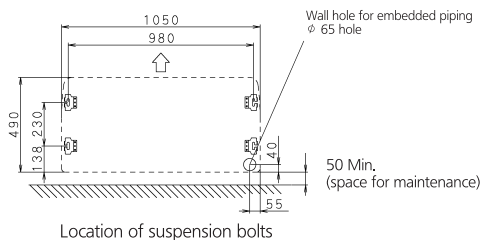
Required space (Ceiling suspended)
(for performance and maintenance)



- Liquid pipe (6.4 CuT)
- Gas pipe (φ 9.5 CuT)



Standard locations of wall holes



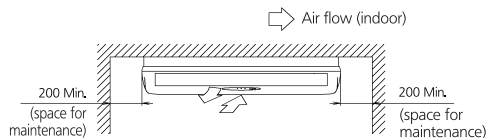
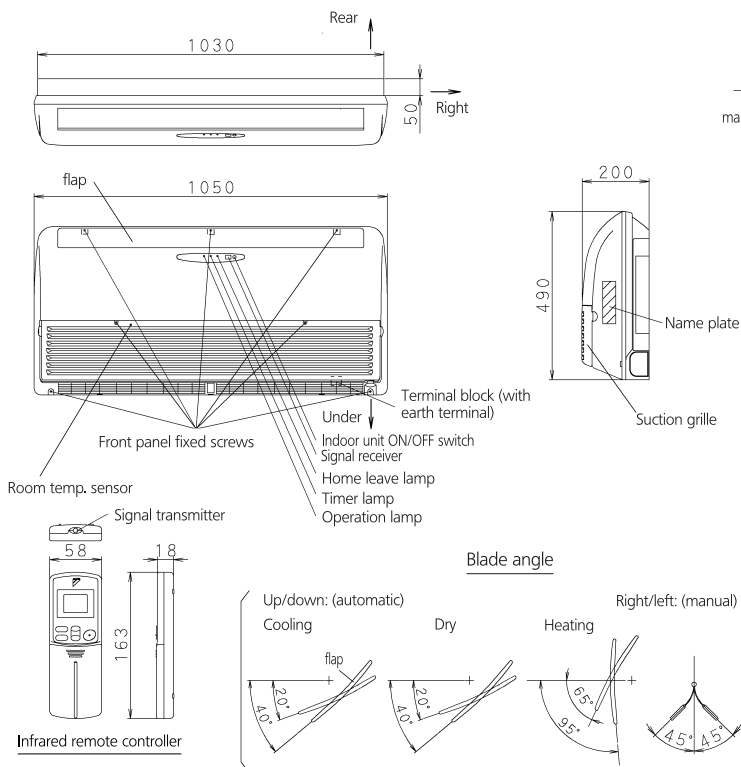
3D033694G

FLXS50-60B

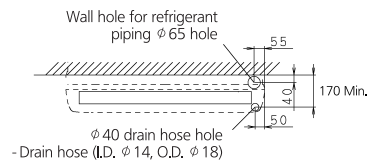
Ceiling suspended installation

The mark (→) shows piping direction

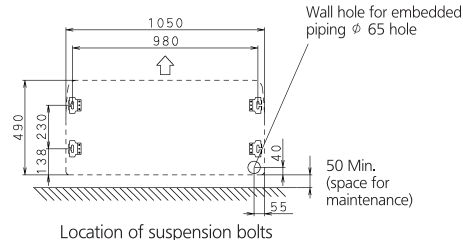
Required space (Ceiling suspended)
(for performance and maintenance)



- Liquid pipe (φ 6.4CuT)
- Gas pipe (φ 12.7 CuT)



Standard locations of wall holes



3D050610B

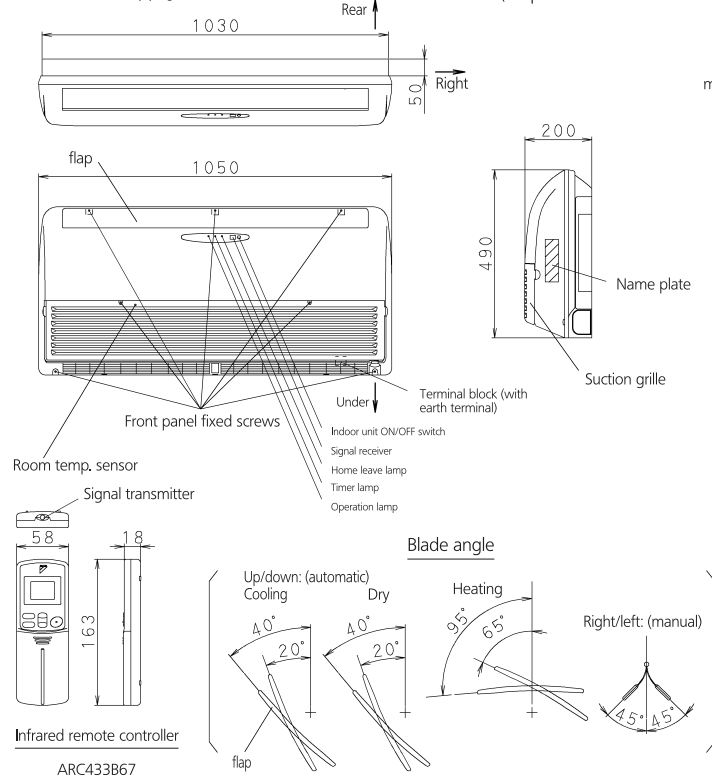
4 Dimensional drawings

4 - 2 Dimensional Drawings Floor Mounted Installation

FLXS25-35B(9)

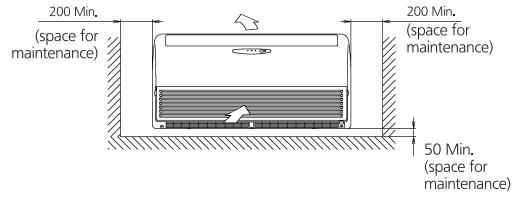
Floor level installation

The mark (→) shows piping direction

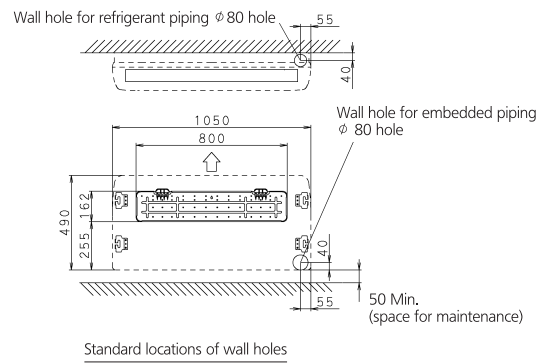


Required space
(for performance and maintenance)

→ Air flow (indoor)



- Liquid pipe (φ 6.4 CuT)
- Gas pipe (φ 9.5 CuT)
- Drain hose (I.D. φ 14, O.D. φ 18)

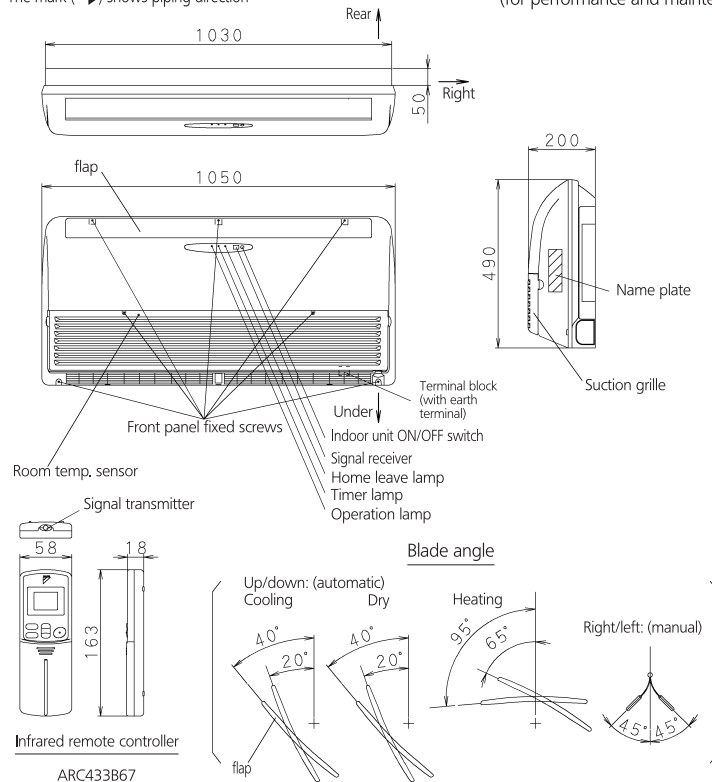


3D033695H

FLXS50-60B

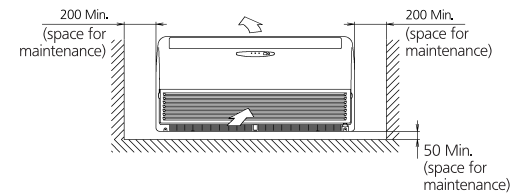
Floor level installation

The mark (→) shows piping direction

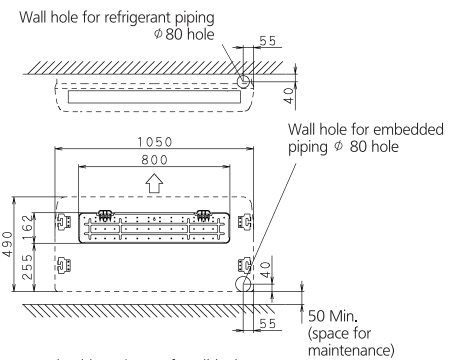


Required space
(for performance and maintenance)

→ Air flow (indoor)



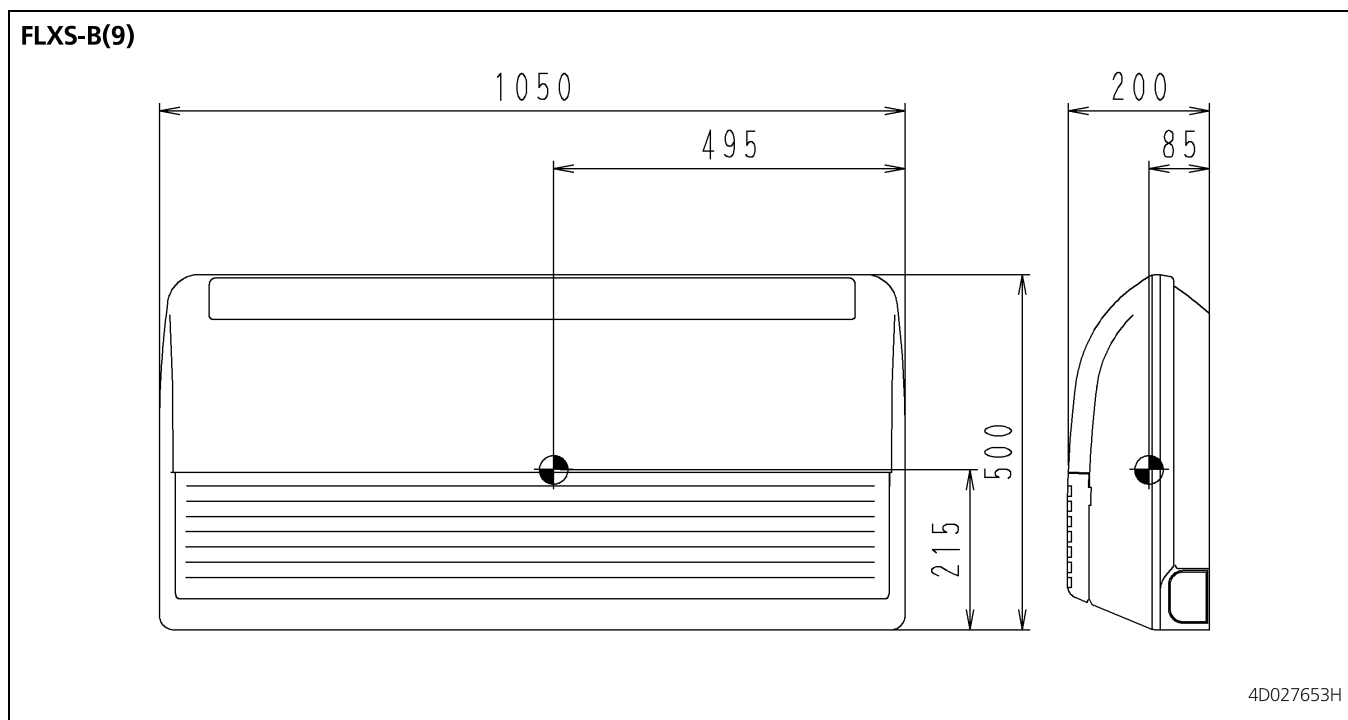
- Liquid pipe (φ 6.4 CuT)
- Gas pipe (φ 12.7 CuT)
- Drain hose (I.D. φ 14, O.D. φ 18)



3D050615B

5 Centre of gravity

5 - 1 Centre of Gravity

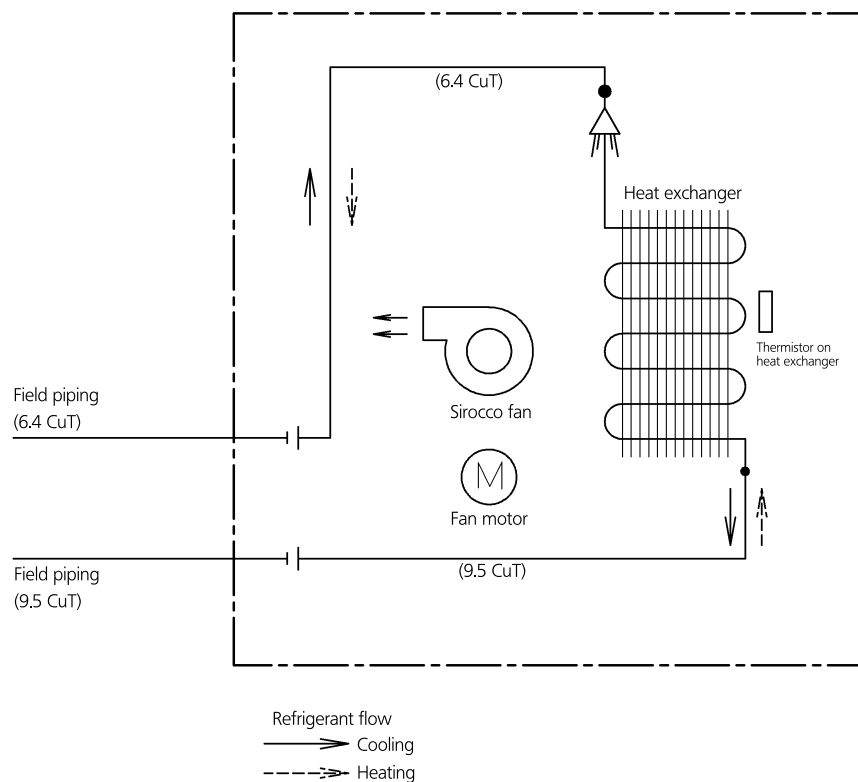


6 Piping diagrams

6 - 1 Piping Diagrams

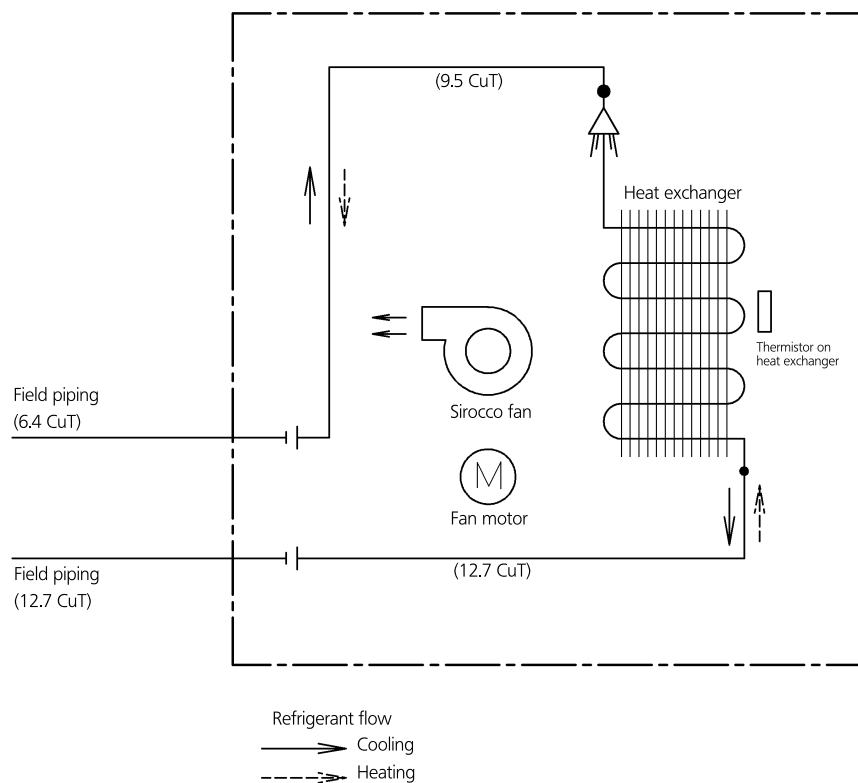
6

FLXS25-35B(9)



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FLXS50-60B

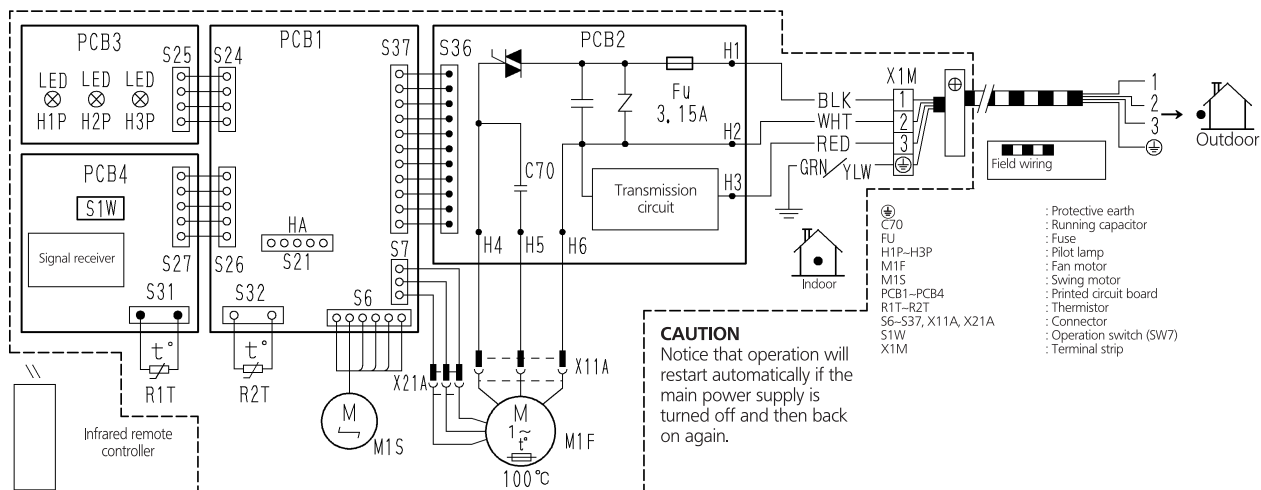


4D048724B

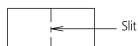
7 Wiring diagrams

7 - 1 Wiring Diagrams - Single Phase

FLXS-B(9)



- Notes
- 1 Size: length 50 x width 125.
 - 2 Nameplate material: wood free tack paper.
 - 3 Coat the reverse side with pressure sensitive adhesive.
 - 4 Refer to purchasing specification AS303002, unless otherwise specified.
 - 5 This drawing was drawn on CAD system.
 - 6 Make a slit on separate liner in vertical direction.



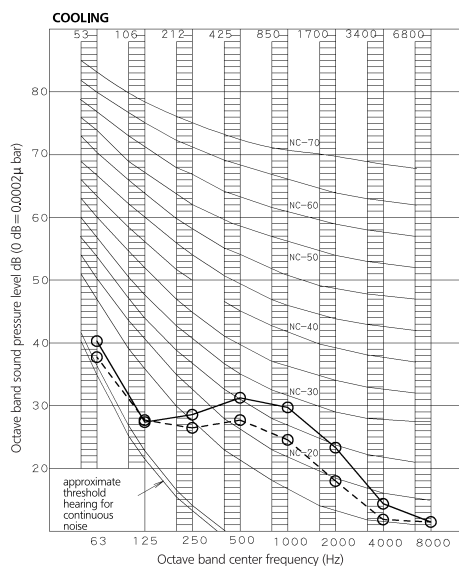
3D033909G

8 Sound data

8 - 1 Sound Pressure Spectrum - Cooling

8

FLXS25B

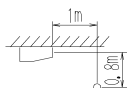


NOTES

1 Overall (dB)

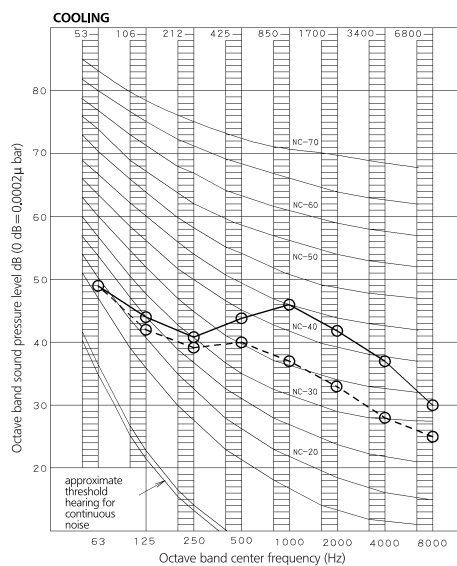
Scale	50Hz 230V (H) (H)	50Hz 230V (L) (L)
A	37	31

- (B.G.N is already rectified)
- Measuring place: Measure in anechoic room
 - Operation noise differs with operation and ambient conditions.
 - Operating conditions: Power source 230V 50Hz
JIS Standard
 - Standard external static pressure
○—○ 50 Hz 230V (H)
○—○ 50 Hz 230V (L)
Cooling
 - Location of microphone
JISC9612
The operation noise measuring method is in accordance with JISC9612



3D035245C

FLXS50B

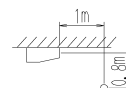


NOTES

1 Overall (dB)

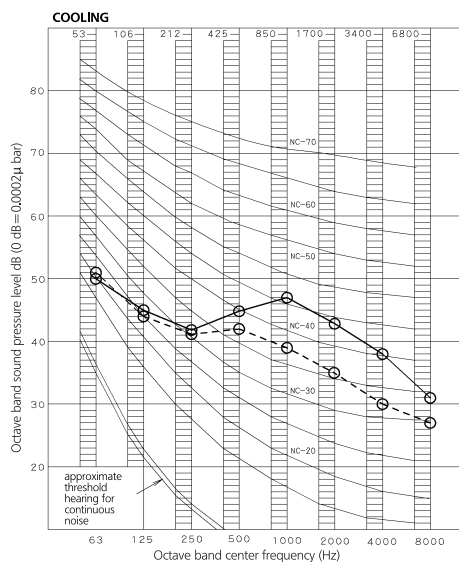
Scale	50Hz 230V (H) (H)	50Hz 230V (L) (L)
A	47	39

- (B.G.N is already rectified)
- Measuring place: Measure in anechoic room
 - Operation noise differs with operation and ambient conditions.
 - Operating conditions: Power source 230V 50Hz
JIS Standard
 - Standard external static pressure
○—○ 50 Hz 230V (H)
○—○ 50 Hz 230V (L)
Cooling
 - Location of microphone
JISC9612
The operation noise measuring method is in accordance with JISC9612



3D035247D

FLXS60B

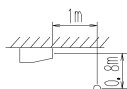


NOTES

1 Overall (dB)

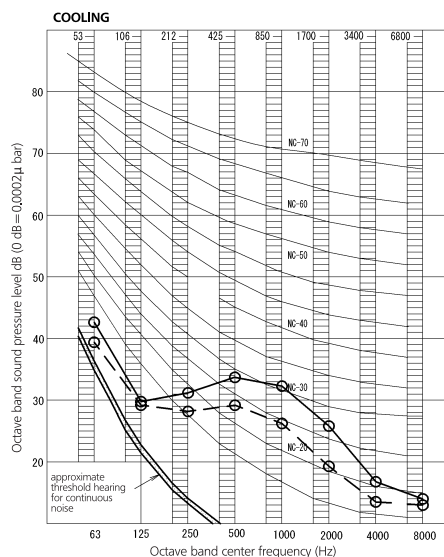
Scale	50Hz 230V (H) (H)	50Hz 230V (L) (L)
A	48	41

- (B.G.N is already rectified)
- Measuring place: Measure in anechoic room
 - Operation noise differs with operation and ambient conditions.
 - Operating conditions: Power source 230V 50Hz
JIS Standard
 - Standard external static pressure
○—○ 50 Hz 230V (H)
○—○ 50 Hz 230V (L)
Cooling
 - Location of microphone
JISC9612
The operation noise measuring method is in accordance with JISC9612



3D035248D

FLXS35B9

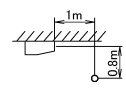


NOTES

1 Overall (dB)

Scale	50Hz 230V (H) (H)	50Hz 230V (L) (L)
A	38	32

- (B.G.N is already rectified)
- Measuring place: Measure in anechoic room
 - Operation noise differs with operation and ambient conditions.
 - Operating conditions: Power source 230V 50Hz
JIS Standard
 - Standard external static pressure
○—○ 50 Hz 230V (H)
○—○ 50 Hz 230V (L)
Cooling
 - Location of microphone
JISC9612
The operation noise measuring method is in accordance with JISC9612

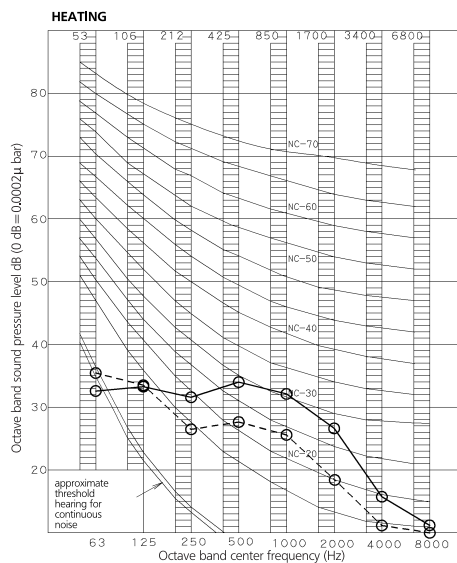


3D085863C

8 Sound data

8 - 2 Sound Pressure Spectrum - Heating

FLXS25B

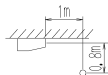


NOTES

1 Overall (dB)

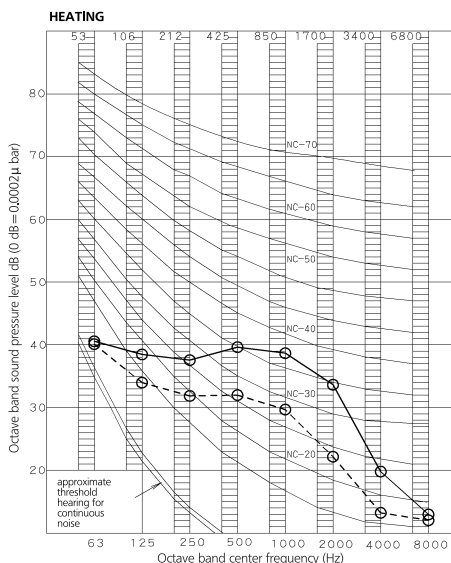
Scale	50Hz 230V (H) (H)	50Hz 230V (L) (L)
A	37	31

- (B.G.N is already rectified)
- Measuring place: Measure in anechoic room
 - Operation noise differs with operation and ambient conditions.
 - Operating conditions: Power source 230V 50Hz
JIS Standard
 - Standard external static pressure
○—○ 50 Hz 230V (H)
○—○ 50 Hz 230V (L)
Heating
 - Location of microphone
JISC9612
The operation noise measuring method is in accordance with JISC9612



3D035245C

FLXS50B

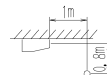


NOTES

1 Overall (dB)

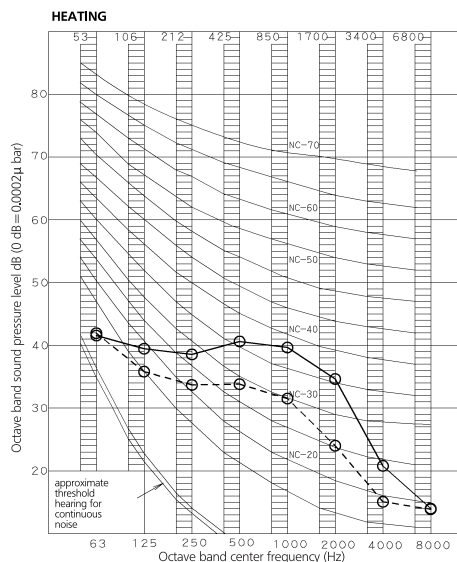
Scale	50Hz 230V (H) (H)	50Hz 230V (L) (L)
A	46	35

- (B.G.N is already rectified)
- Measuring place: Measure in anechoic room
 - Operation noise differs with operation and ambient conditions.
 - Operating conditions: Power source 230V 50Hz
JIS Standard
 - Standard external static pressure
○—○ 50 Hz 230V (H)
○—○ 50 Hz 230V (L)
Heating
 - Location of microphone
JISC9612
The operation noise measuring method is in accordance with JISC9612



3D035247D

FLXS60B

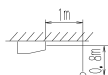


NOTES

1 Overall (dB)

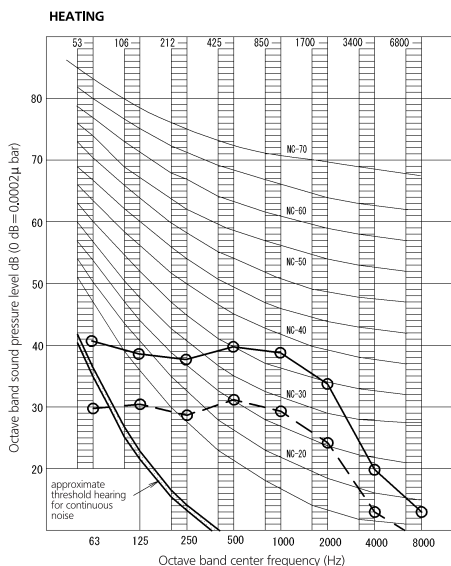
Scale	50Hz 230V (H) (H)	50Hz 230V (L) (L)
A	47	37

- (B.G.N is already rectified)
- Measuring place: Measure in anechoic room
 - Operation noise differs with operation and ambient conditions.
 - Operating conditions: Power source 230V 50Hz
JIS Standard
 - Standard external static pressure
○—○ 50 Hz 230V (H)
○—○ 50 Hz 230V (L)
Heating
 - Location of microphone
JISC9612
The operation noise measuring method is in accordance with JISC9612



3D035248D

FLXS35B9

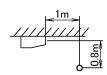


NOTES

1 Overall (dB)

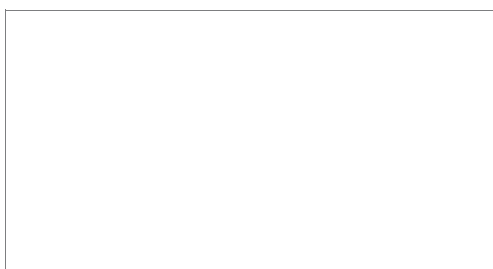
Scale	50Hz 230V (H) (H)	50Hz 230V (L) (L)
A	46	33

- (B.G.N is already rectified)
- Measuring place: Measure in anechoic room
 - Operation noise differs with operation and ambient conditions.
 - Operating conditions: Power source 230V 50Hz
JIS Standard
 - Standard external static pressure
○—○ 50 Hz 230V (H)
○—○ 50 Hz 230V (L)
Heating
 - Location of microphone
JISC9612
The operation noise measuring method is in accordance with JISC9612



3D085863C

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