

DAIKIN



TECHNICAL DATA

Split-Sky Air

FLX-H/J



**Flexi Type
Inverter Controlled Unit**

Split Sky Air



ISO14001 assures an effective environmental management system in order to help protect human health and the environment from the potential impact of our activities, products and services and to assist in maintaining and improving the quality of the environment



Daikin units comply with the European regulations that guarantee the safety of the product.



Daikin Europe NV is approved by LRQA for its Quality Management System in accordance with the ISO9001 standard. ISO9001 pertains to quality assurance regarding design, development, manufacturing as well as to services related to the product.



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TABLE OF CONTENTS

FLX-H/J

1	Features	2
2	Specifications	3
	Nominal capacity, capacity steps and nominal input	
	Technical specifications	
	Electrical specifications	
3	Dimensional drawings	5
4	Piping diagrams	7
5	Wiring diagrams	8
6	Sound level	9
	Sound level data	
	Sound pressure spectrum	
7	Accessories	12
	Standard accessories	
	Optional accessories	
8	Control systems	13
9	Centre of gravity	15
10	Installation	16

For capacity tables, please refer to part II: Outdoor units

1 Features



- Lightweight but sturdy design
- Can fit on either ceiling or lower wall. Its low height enables it to fit beneath a window
- Extremely quiet in operation both indoors and outdoors
- A "silent" button on the remote control lowers the operation sound of the outdoor unit by 3dB(A).
- The home leave operation saves energy during absence.
- Powerful mode can be selected for rapid cooling or heating
- Automatic air flow director ensures uniform airflow and temperature distribution
- Air purification filter
 - deodorises the air
 - helps to prevent bacterial and viral propagation
- Up to 7 indoor units can be connected to 1 Multi outdoor unit. All indoor units are individually controllable with remote control and do not need to be installed in the same room. They operate simultaneously within the same cooling or heating mode.
- The remote control has a 24 hour timer
- The indoor model also has a start/stop button mounted on the front panel
- Up to 5 indoor units can be operated from a single centralised control
- Purpose-designed holder provided for your remote control

1



FLX50,60J



2 Specifications

NOMINAL CAPACITY and NOMINAL INPUT						
For indoor units only:						
INDOOR UNITS			FLX25HV1NB	FLX35HV1NB	FLX50JV1B	FLX60JV1B
NOMINAL INPUT	Cooling	kW	0.07	0.078	0.096	0.098
	Heating	kW	0.074	0.078	0.096	0.096

For combination indoor units + outdoor units:							
INDOOR UNITS			FLX25HV1NB	FLX35HV1NB	FLX50JV1B	FLX60JV1B	
OUTDOOR UNITS			-	-	RXD50JV1B	RXD60JV1B	
NOMINAL CAPACITY (3)	Cooling (1)	min.~nom.~max. kW	For capacities and power input in multi model application, see chapter MX-H and RMX-J			0.9~4.7~5.3	0.9~5.7~6.5
	Heating (2)	min.~nom.~max. kW				0.9~6.1~7.5	0.9~6.7~8.0
NOMINAL INPUT	Cooling	min.~nom.~max. kW				0.45~1.47~1.95	0.45~1.99~2.67
	Heating	min.~nom.~max. kW				0.45~1.82~2.63	0.45~2.0~3.3

TECHNICAL SPECIFICATIONS							
For indoor units only:							
INDOOR UNITS			FLX25HV1NB	FLX35HV1NB	FLX50JV1B	FLX60JV1B	
DIMENSIONS	Unit	H	mm	490	490	490	490
		W	mm	1,050	1,050	1,050	1,050
		D	mm	200	200	200	200
WEIGHT	Unit		kg	16	16	17	17
MATERIAL	Unit			-	-	-	-
COLOUR	Unit			Almond white			
SOUND LEVEL	Sound pressure (cooling/heating) (4)	high	dBA	37/37	38/39	47/46	48/47
		medium	dBA	34/34	35/36	43/41	45/42
		low	dBA	31/31	32/33	39/35	41/37
	Sound power (cooling/heating) (5)		dBA	-	-	63/62	64/63
FAN	Air flow rate (cooling/heating)	high	m ³ /min	7.6/9.2	8.7/10.0	11.4/12.1	12.0/12.8
		medium	m ³ /min	6.8/8.3	7.7/9.0	9.9/9.8	10.6/10.6
		low	m ³ /min	6.0/7.4	6.6/8.0	8.5/7.5	9.3/8.4
	Speed (cooling/heating)	steps		5 steps and auto			
		high	rpm	820/880	920/940	1,320/1,260	1,380/1,320
		medium	rpm	740/790	820/850	1,170/1,060	1,240/1,130
	Type			Sirocco fan			
Qty x model			1 x KFP-220-34-4A	1 x KFP-220-34-4A	1 x KFP-220-34-4A	1 x KFP-220-34-4A	
Qty x motor output	W		1 x 34	1 x 34	1 x 34	1 x 34	
HEAT EXCHANGER	Type		φ7 Hi-XA tube				
	Rows x stages x fin pitch	mm	2 x 8 x 1.75	2 x 8 x 1.75	3 x 10 x 1.5	3 x 10 x 1.5	
	Face area	m ²	-	-	-	-	
AIR FILTER			Removable/washable/mildew proof				
AIR DIRECTION CONTROL			Right, left, horizontal and downward				
TEMPERATURE CONTROL			Microcomputer control				
PIPING CONNECTIONS	liquid	mm	φ6.4	φ6.4	φ6.4	φ6.4	
	gas	mm	φ9.5	φ12.7	φ12.7	φ15.9	
	Drain	mm	φ18	φ18	φ18	φ18	
INSULATION MATERIAL	Heat insulation		Both liquid and gas pipes				

For outdoor units	Pair application	-	See chapter RX(D)-J
	Multi model application	See chapter MX-H and RMX-J	



2 Specifications

ELECTRICAL SPECIFICATIONS							
For indoor units only:				FLX25HV1NB	FLX35HV1NB	FLX50JV1B	FLX60JV1B
CURRENT	Nominal running current	cooling	A	0.32	0.36	0.43	0.45
		heating	A	0.34	0.36	0.42	0.43

For combination indoor units + outdoor units:				FLX25HV1NB	FLX35HV1NB	FLX50JV1B	FLX60JV1B	
				-	-	RXD50JV1B	RXD60JV1B	
CURRENT	Nominal running current	cooling	A	For multi model application only			6.4	8.7
		heating	A				8.0	8.7
	Maximum running current	cooling	A				-	-
		heating	A				-	-

For indoor units only:				FLX25HV1NB	FLX35HV1NB	FLX50JV1B	FLX60JV1B
POWER SUPPLY				V1	V1	V1	V1
NOMINAL DISTRIBUTION SYSTEM VOLTAGE	Phase			1~	1~	1~	1~
	Frequency		Hz	50	50	50	50
	Voltage			V	230	230	230

NOTES

- Nominal cooling capacities are based on: indoor temperature 27°CDB/19°CWB * outdoor temperature 35°CDB * refrigerant piping length: 7.5m * level difference: 0m.
- Nominal heating capacities are based on: indoor temperature: 20°CDB* outdoor temperature: 7°CDB/6°CWB * refrigerant piping length: 7.5m * level difference: 0m
- Capacities are net, including a deduction for cooling (an addition for heating) for indoor fan motor heat.
- The sound pressure level is measured via a microphone at 1m distance from the unit. For measuring conditions, please refer to item 6 of this chapter.
- The sound power level is an absolute value indicating the "power" which a sound source generates.



3 Dimensional drawings

FLX25-35H unit (mm)

Floor level installation
The mark (→) shows piping direction

Required space (for performance and maintenance)

Air flow (indoor)

200MIN (space for maintenance)

200MIN (space for maintenance)

50MIN (space for performance)

- Liquid pipe (6.4CuT)
- Gas pipe (A CuT)
- Drain hose (ID ϕ 14 - OD ϕ 18)

	A
FLX25	ϕ 9.5
FLX35	ϕ 12.9

Wall hole for refrigerant piping ϕ 80 hole

Wall hole for embedded piping ϕ 80 hole

Location of wall holes

3D024733

Labels: 1030, 50, Right, Rear, flap, 1050, 200, 490, Name plate, Suction grille, Terminal strip with earth terminal, Under, Operation switch, Signal receiver, Cleaning indicator lamp, Timer indicator lamp, Operation indicator lamp, Room temp. thermistor, Signal transmitter, 58, 18, 163, Up/down (automatic) Cooling, Blade angle, Dry, Right/left (manual), 4.0°, 2.0°, 4.0°, 2.0°, 9.5°, 6.5°, 4.5°, 4.5°, 5.5, 4.0, 1050, 800, 490, 255, 162, 5.5, 4.0, 50MIN (space for maintenance)

(FLX-ARC423A7, ARC423A9)
Infrared remote control

3

FLX25-35H unit (mm)

Ceiling suspended installation
The mark (→) shows piping direction

Required service space (ceiling suspended) (for performance and maintenance)

Air flow (indoor)

200MIN (space for maintenance)

200MIN (space for performance)

- Liquid pipe (6.4CuT)
- Gas pipe (A CuT)

	A
FLX25	ϕ 9.5
FLX35	ϕ 12.7

Wall hole for refrigerant piping ϕ 80 hole

ϕ 40 drain hose hole
- Drain hose (ID ϕ 14 - OD ϕ 18)

Standard locations of wall holes

Location of suspension bolts

3D024734

Labels: 1030, 50, Right, Rear, flap, 1050, 200, 490, Name plate, Suction grille, Terminal strip with earth terminal, Under, Operation switch, Signal receiver, Cleaning indicator lamp, Timer indicator lamp, Operation indicator lamp, Room temp. thermistor, Signal transmitter, 58, 18, 163, Up/down (automatic) Cooling, Blade angle, Dry, Heating, Right/left (manual), 4.0°, 2.0°, 4.0°, 2.0°, 9.5°, 6.5°, 4.5°, 4.5°, 5.5, 4.0, 1050, 980, 490, 138, 230, 5.5, 4.0, 50 min (space for maintenance)

(FLX-ARC423A7, ARC423A9)
Infrared remote control

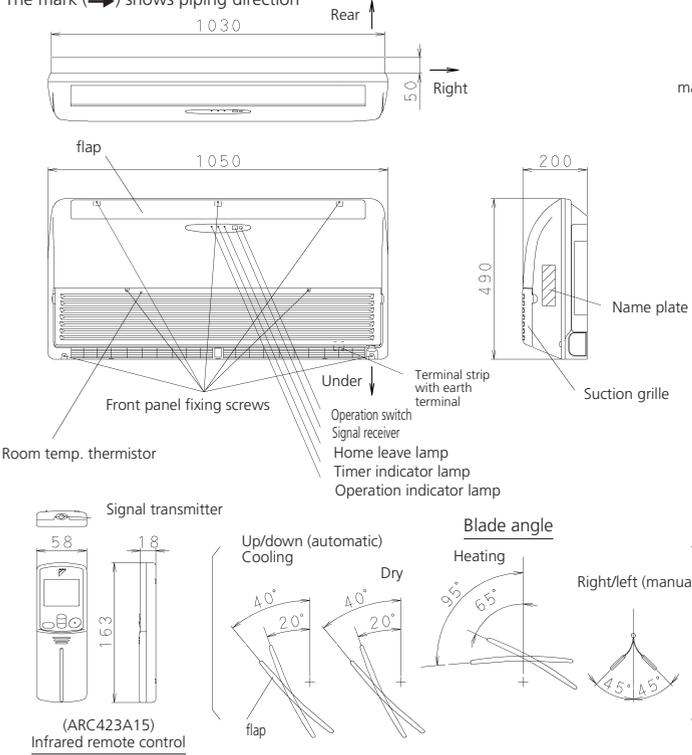


3 Dimensional drawings

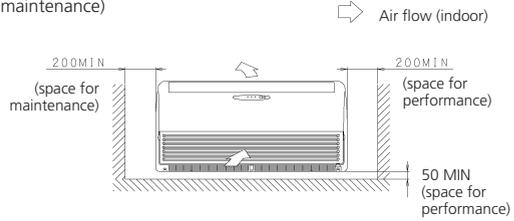
FLX50-60J

Floor level installation

The mark (→) shows piping direction



Required space
(for performance and maintenance)

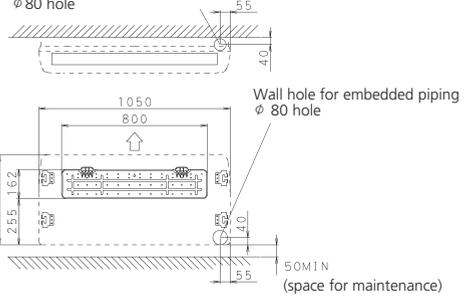


unit (mm)

- Liquid pipe (6.4CuT)
- Gas pipe (A CuT)
- Drain hose (ID ϕ 14 - OD ϕ 18)

	A
FLX50-	12.7
FLX60-	15.9

Wall hole for refrigerant piping ϕ 80 hole



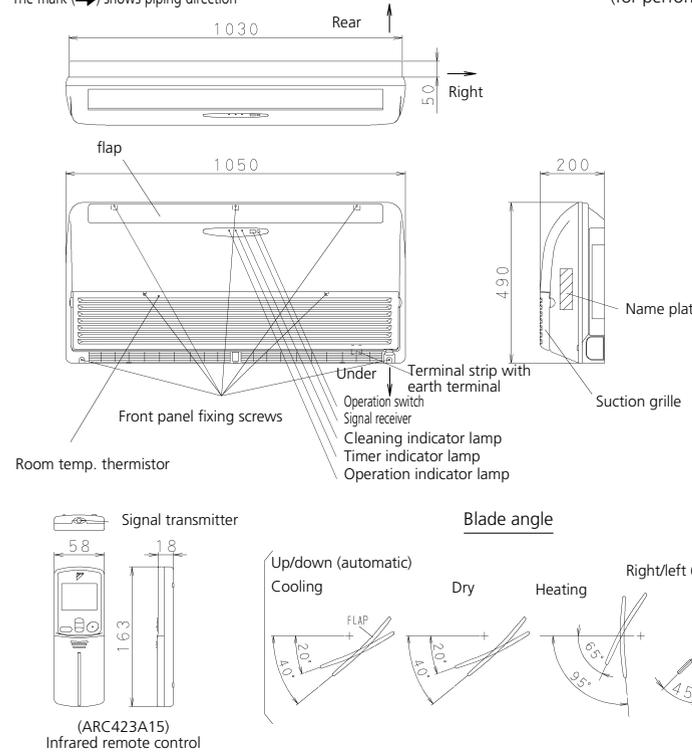
Location of wall holes

3D024831

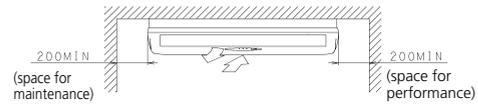
FLX50-60J

Ceiling suspended installation

The mark (→) shows piping direction



Required service space (ceiling suspended)
(for performance and maintenance)

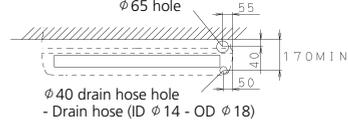


unit (mm)

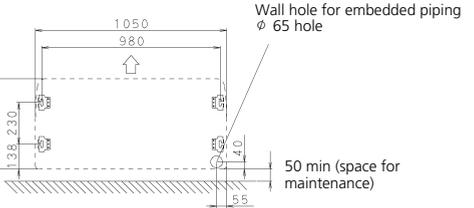
- Liquid pipe (6.4CuT)
- Gas pipe (A CuT)

	A
FLX50-	12.7
FLX60-	15.9

Wall hole for refrigerant ϕ 65 hole



Standard locations of wall holes

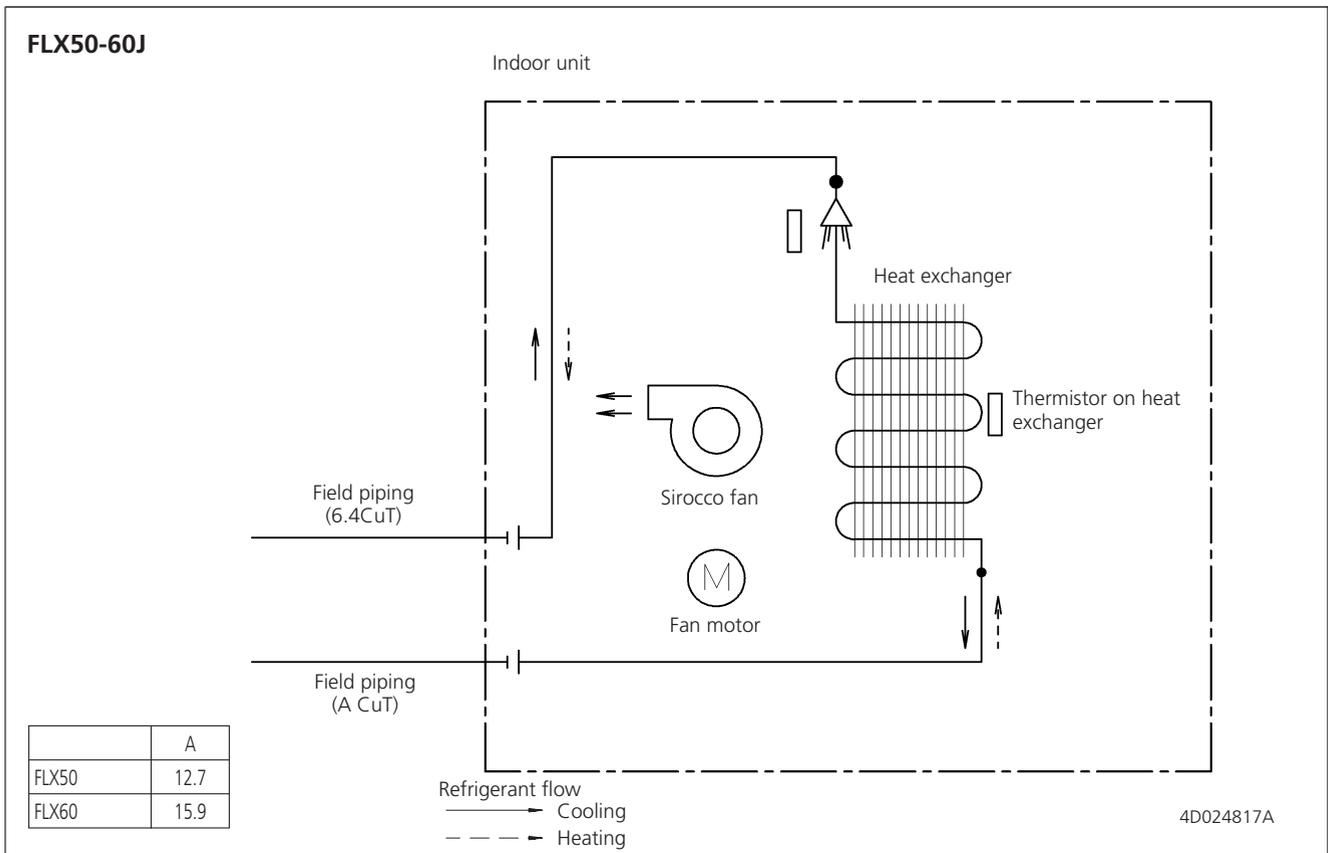
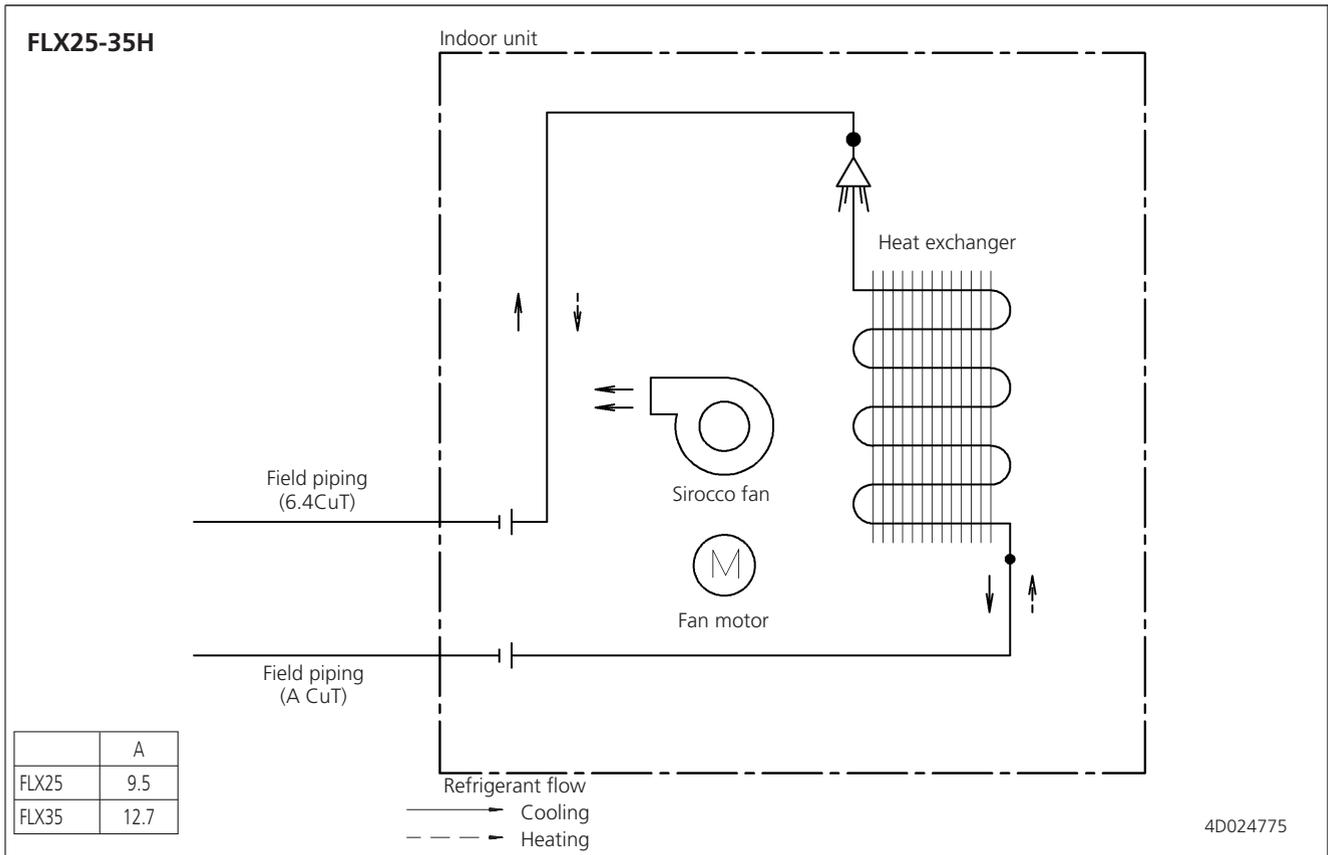


Location of suspension bolts

3D024830



4 Piping diagrams

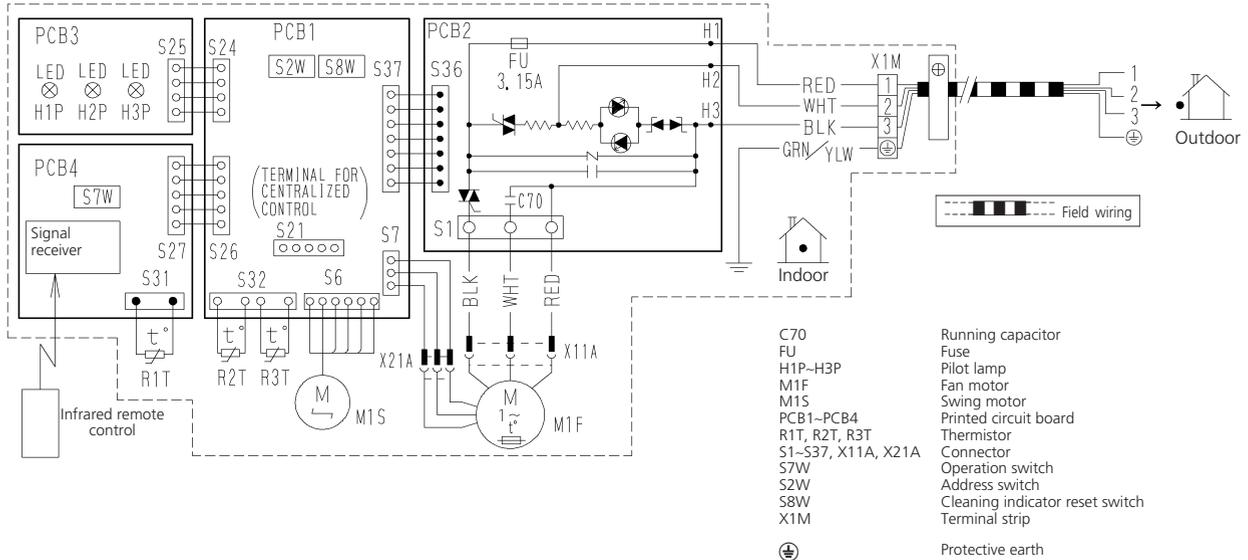




5 Wiring diagrams

FLX25-35H

Notice that operation will restart automatically when the main power supply is turned off and then turned on again.

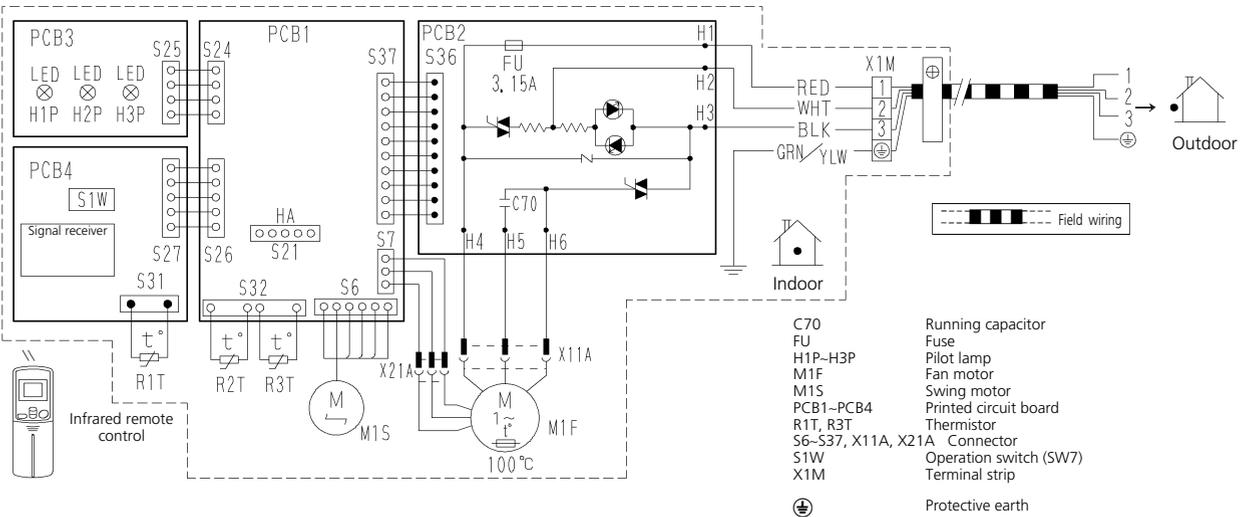


- C70 Running capacitor
- FU Fuse
- H1P-H3P Pilot lamp
- M1F Fan motor
- M1S Swing motor
- PCB1-PCB4 Printed circuit board
- R1T, R2T, R3T Thermistor
- S1-S37, X11A, X21A Connector
- S7W Operation switch
- S2W Address switch
- S8W Cleaning indicator reset switch
- X1M Terminal strip
- ⊕ Protective earth

3D024310

FLX50-60J

Notice that operation will restart automatically when the main power supply is turned off and then turned on again.



- C70 Running capacitor
- FU Fuse
- H1P-H3P Pilot lamp
- M1F Fan motor
- M1S Swing motor
- PCB1-PCB4 Printed circuit board
- R1T, R3T Thermistor
- S6-S37, X11A, X21A Connector
- S1W Operation switch (SW7)
- X1M Terminal strip
- ⊕ Protective earth

3D025029



6 Sound level

6-1 Sound level data

Heat pump

Model	Sound pressure level			Measuring location	Sound power level (H) (cooling/heating)
	230V				
	50Hz				
	H (cooling/heating)	M (cooling/heating)	L (cooling/heating)		
FLX25HV1NB	37/37	34/34	31/31		-
FLX35HV1NB	38/39	35/36	32/33		-
FLX50JV1B	47/46	43/41	39/35		63/62
FLX60JV1B	48/47	45/42	41/37		64/63



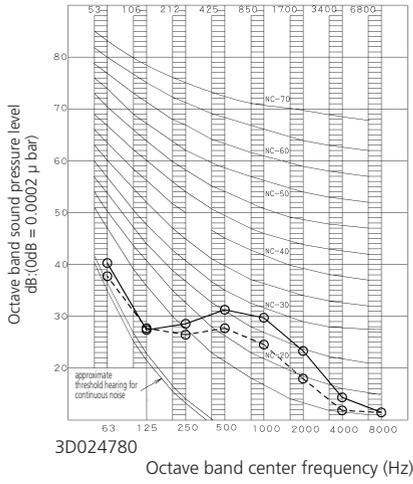
6 Sound level

6-2 Sound pressure spectrum

6

6-2

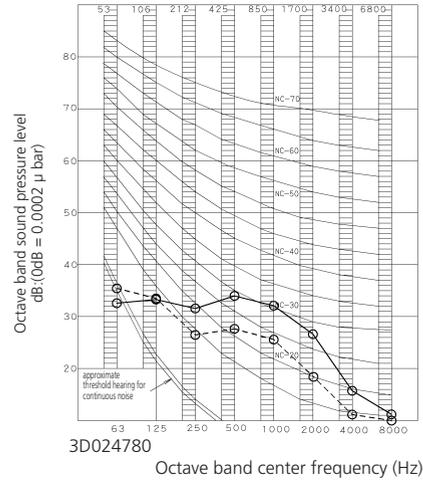
FLX25HV1NB (Cooling)



3D024780

Octave band center frequency (Hz)

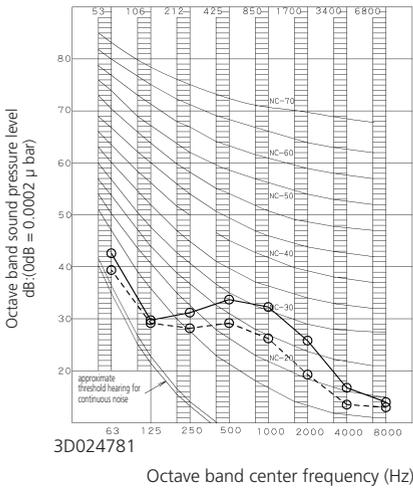
FLX25HV1NB (Heating)



3D024780

Octave band center frequency (Hz)

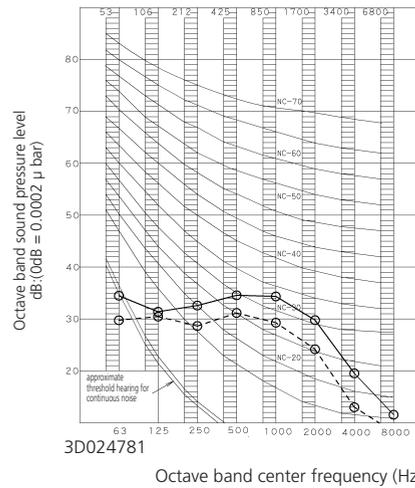
FLX35HV1NB (Cooling)



3D024781

Octave band center frequency (Hz)

FLX35HV1NB (Heating)



3D024781

Octave band center frequency (Hz)

Notes

1. Operation sound is measured in an anechoic chamber.
2. Data is valid at nominal conditions.
3. Operation sound level differs with operation and ambient conditions.

Legend

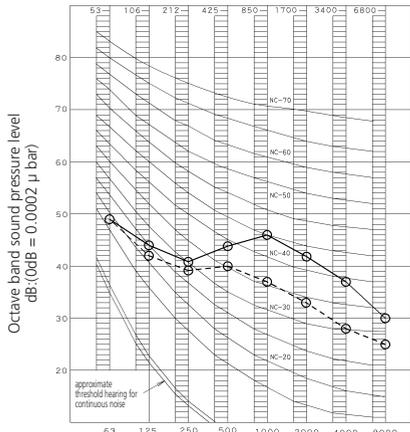
- 220V
- -○ 240V



6 Sound level

6-2 Sound pressure spectrum

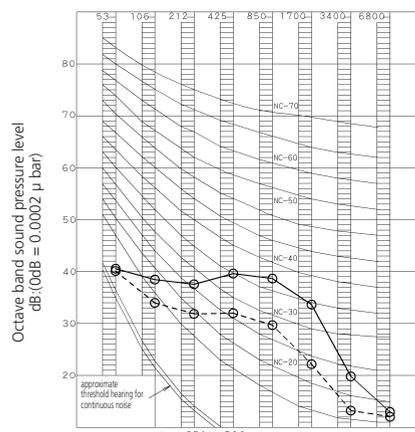
FLX50JV1B (Cooling)



3D027667

Octave band center frequency (Hz)

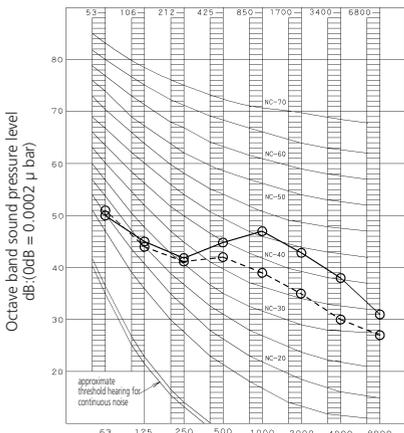
FLX50JV1B (Heating)



3D027667

Octave band center frequency (Hz)

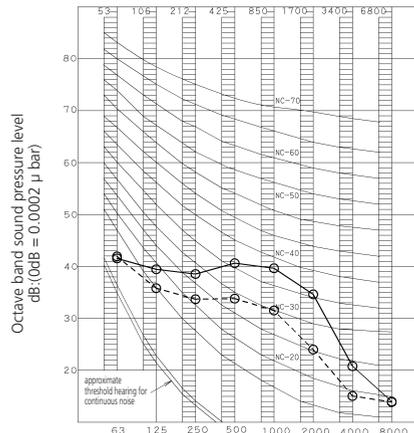
FLX60JV1B (Cooling)



3D027668

Octave band center frequency (Hz)

FLX60JV1B (Heating)



3D027668

Octave band center frequency (Hz)

Notes

1. Operation sound is measured in an anechoic chamber.
2. Data is valid at nominal conditions.
3. Operation sound level differs with operation and ambient conditions.

Legend

- 220V
- -○ 240V



7 Accessories

7-1 Standard accessories

Mounting plate	1 pc.	Fixing screw for remote control holder M3 x 20L	2 pcs.	Extension auxiliary pipe	1 pc.
Mounting plate fixing screw M4 x 25L	10 pcs.	Alkaline dry batteries	1 Set	Heat insulation tube (Refrigerant pipe)	1 pc.
Air purification filter	1 Set	Side cover	2 pcs.	Binding band	4 pcs.
Infrared remote control	1 pc.	Operation manual	1 Set	Drain socket	1 pc.
Remote control holder	1 pc.	Installation manual	1 Set		

7

7-1

7-2 Optional accessories

FLX25-35H

	Option name		Kit name
1	Centralised control board-up to 5 rooms ※1		KRC72
2	Wiring adaptor for time clock/remote control ※2	Normal open pulse contact	KRP413A1S
3	Interface Adaptor for Room Air Conditioner Series (DIII-NET)		KRP928A1S
4	Air purification filter with frame		KAF918A41
5	Air purification filter without frame		KAF918A42
6	Anti-theft protection for wireless remote control		KKF917A4

3D024785

FLX50-60J

	Option name		Kit name
1	Centralised control board-up to 5 rooms ※1		KRC72
2	Wiring adaptor for time clock/remote control ※2	(normal open pulse contact/normal open contact)	KRP413A1S
3	Central remote control		DCS302B51
4	Unified ON/OFF control		DCS301B51
5	Schedule timer		DST301B51
6	Interface Adaptor for Room Air Conditioner Series		KRP928A1S
7	Air purification filter with frame		KAF918A41
8	Air purification filter without frame		KAF918A42
9	The remote controller loss prevention with the chain		KKF917A4

NOTES

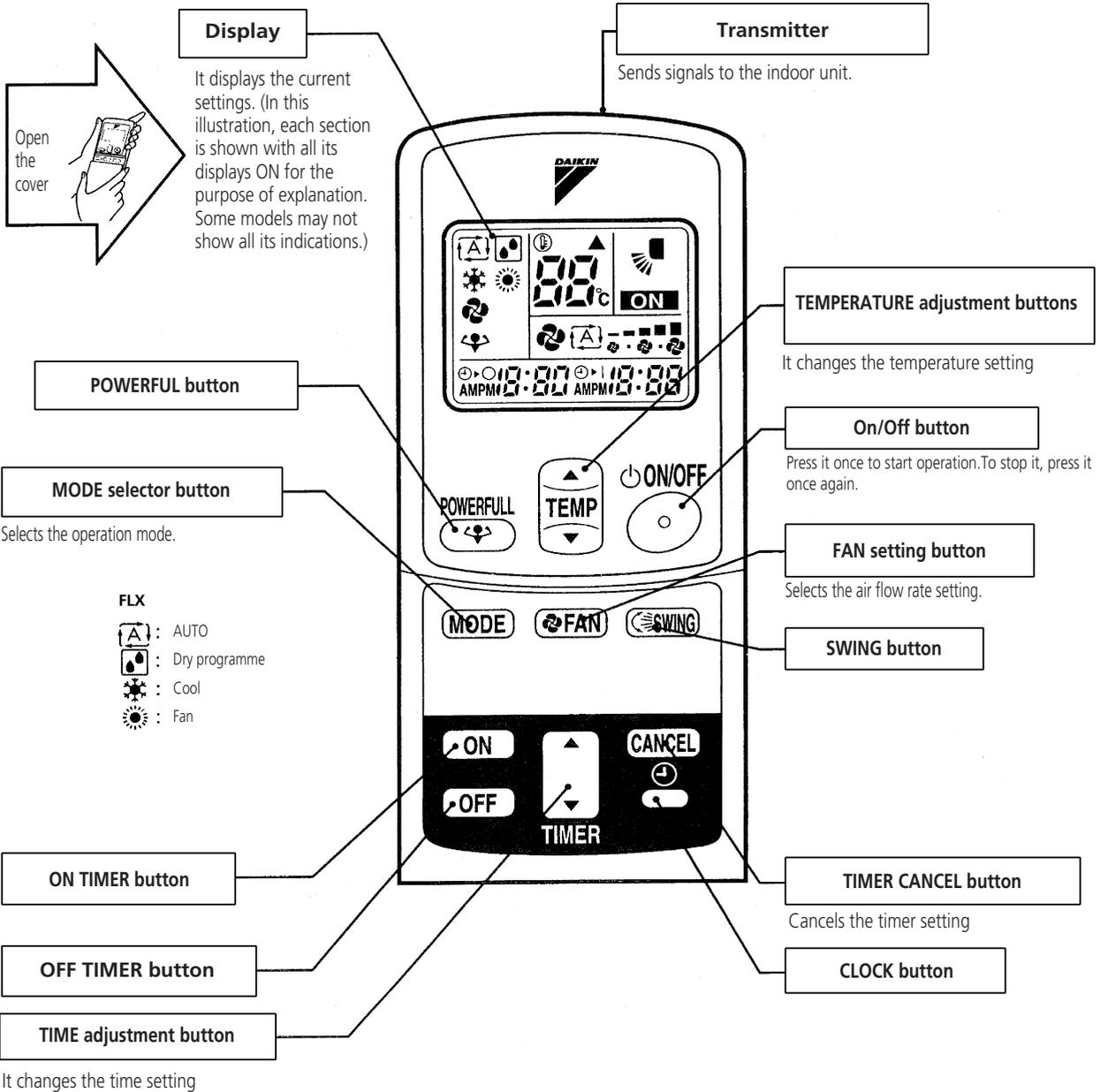
- ※1 Wiring adapter is also required for each indoor unit.
- ※2 Wiring adapter supplied by Daikin. Time clock and other devices: field supply.



8 Control systems

Function of remote control

FLX25-35H





8 Control systems

Function of remote control

FLX50-60J



Open the cover

Display

It displays the current settings. (In this illustration, each section is shown with all its displays ON for the purpose of explanation. Some models may not show all its indications.)

POWERFUL button

MODE selector button

Selects the operation mode.

FLX

AUTO

Dry programme

Cool

Fan

HOME LEAVE button

ON TIMER button

OFF TIMER button

TIME adjustment button

It changes the time setting

Transmitter

Sends signals to the indoor unit.

TEMPERATURE adjustment buttons

It changes the temperature setting

On/Off button

Press it once to start operation. To stop it, press it once again.

FAN setting button

Selects the air flow rate setting.

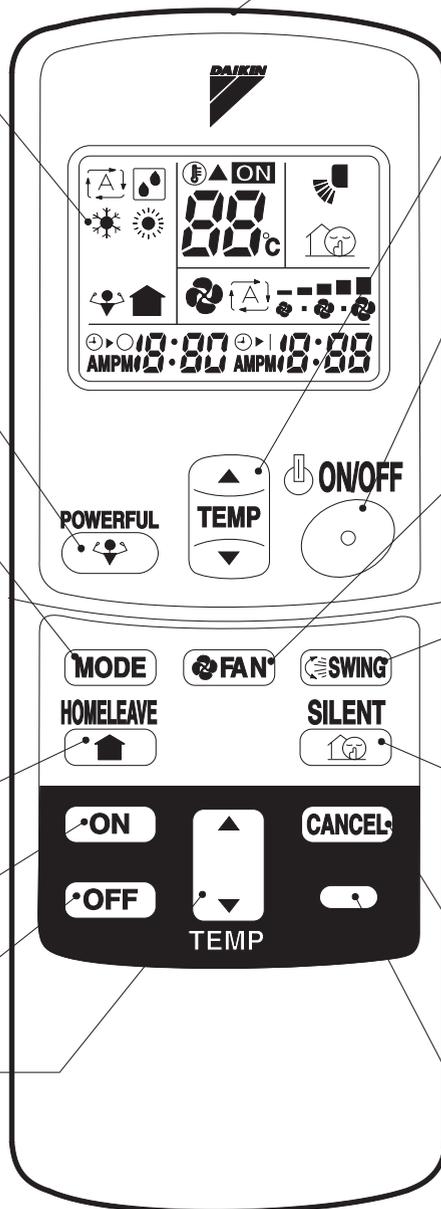
SWING button

OUTDOOR UNIT SILENT button

TIMER CANCEL button

Cancels the timer setting

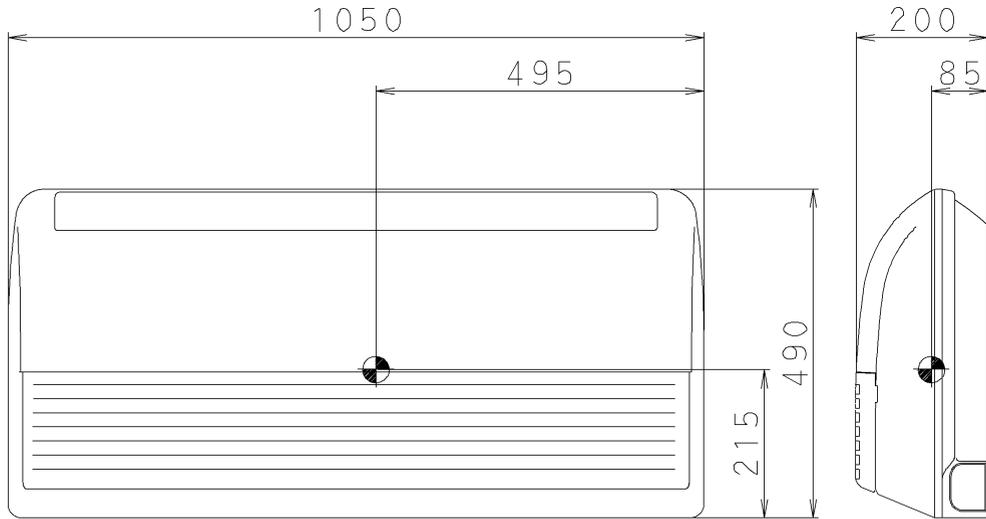
CLOCK button



<ARC423A15>



9 Centre of gravity



4D027653



10 Installation

10

