

## technical data

FLKS/ FLXS-B



Flexi Type, Inverter Controlled Unit

air conditioning systems

# Split Sky Air

## 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 N.V. 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.

Daikin Europe N.V. participates in the Eurovent Certification Programme for Air Conditioners (AC), Liquid Chilling Packages (LCP) and Fan Coil Units (FC); the certified data of certified models are listed in the Eurovent Directory.

Specifications are subject to change without prior notice.

#### DAIKIN EUROPE N.V.

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<sup>\*</sup> For capacity tables, please refer to part II: outdoor units

#### **Features**





- Lightweight but sturdy design
- Can fit on either ceiling or lower wall. Its low height enables it to fit beneath a window
- Consumes up to 30% less energy than non-inverter units
- The home leave operation saves energy during absence.
- Powerful mode can be selected for rapid cooling or heating.
- Automatic air flow director ensures uniform air flow and temperature distribution
- Air purification filter
  - deodorises the air
  - helps to prevent bacterial and viral propagation
- Photocatalytic deodorising air filter:
  - powerful decomposes cigarette and pet odours
  - removes house dust and pollen
  - deactivates bacteria and viruses
- Washable grille
- Indoor / outdoor unit silent operation:

Silent buttons on the remote control lower the operating sound of the indoor and/or outdoor unit by 3dB(A) each. Remark: Only applicable in combination with DC-inverter outdoor units!

- Night quiet mode automatically reduces the operating sound of the outdoor unit by 3dB(A) at night. (multi outdoors in cooling
- Up to 4 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 outdoor unit can easily be mounted on a roof, a terrace or placed against an outside wall.
- Outdoor units are fitted with a swing compressor, renowned for its low noise and energy efficiency.
- 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 regulated from a single centralised control
- Purpose designed holder provided for your remote control

























































NO	NOMINAL CAPACITY and NOMINAL INPUT										
For	For indoor units only:										
IND	INDOOR UNITS				FLKS25BVMB	FLKS35BVMB	FLKS50BVMB	FLKS60BVMB			
NON	1INAL INPUT	Cooling	nominal	kW	0.074	0.078	0.096	0.098			

INDOOR UNITS				FLKS25BVMB	FLKS35BVMB	FLKS50BVMB	FLKS60BVMB
OUTDOOR UNITS - PAIR APPLICATION			RKS25DVMB	RKS35DVMB	RKS50BVMB9	Multi appl. only	
NOMINAL CAPACITY (2-3)	Cooling (1)	min.~nom.~max.	kW	1.30~2.50~3.00	1.4~3.5~3.8	0.90~4.90~5.30	
Nominal input	Cooling	min.~nom.~max.	kW	0.30~0.78~0.96	0.30~1.16~1.27	0.45~1.72~1.95	For more information, please
EER	EER			3.21	3.02	2.85	refer to our Multi Model
ENERGY LABEL	Cooling			A	В	С	catalogue or contact your local dealer.
ANNUAL ENERGY CONSUMPTION	Cooling		kWh	390	580	860	
OUTDOOR UNITS - MULTI APPLICATION				2MKS40/3MKS50	)/4MKS58,75,90D	4MKS58,75,90D	4MKS75,90D
				For more information, see chapter MKS-D			

INDOOR UNITS	FLKS50BVMB			
OUTDOOR UNITS - PA	RS50BVMB			
NOMINAL CAPACITY (2-3)	Cooling (1)	min.~nom.~max.	kW	4.90 (nom.)
Nominal input	Cooling	min.~nom.~max.	kW	1.72 (nom.)
EER				2.85
ENERGY LABEL	Cooling			С
ANNUAL ENERGY CONSUMPTION	Cooling		kWh	860
OUTDOOR UNITS - MI	ULTI APPLICA	TION		-
				-





<b>TECHNICAL SPEC</b>	IFICATIONS							
For indoor units only	<i>/</i> :							
INDOOR UNITS				FLKS25BVMB	FLKS35BVMB	FLKS50BVMB	FLKS60BVMB	
DIMENSIONS	Unit	Н	mm		490			
		W	mm		1,0	50		
		D	mm	200				
WEIGHT	Unit		kg	1	6	1	7	
COLOUR	Unit				Almono	d white		
Sound Level	Sound pressure (cooling) (4)	high	dB(A)	37	38	47	48	
		low	dB(A)	31	32	39	41	
		super low	dB(A)	28	29	36	39	
	Sound power (cooling) (5) dB(A		dB(A)	53	54	63	64	
FAN	Air flow rate (cooling)	high	m³/min	7.6	8.6	11.4	12.0	
		low	m³/min	6.0	6.6	8.5	9.3	
		super low	m³/min	5.2	5.6	7.5	8.3	
	Speed	steps			5 steps, sile	nt and auto		
		high	rpm	820	920	1,380	1,380	
		medium	rpm	740	820	1,240	1,240	
		low	rpm	660	720	1,100	1,100	
		super low	rpm	580	620	1,000	1,000	
	Туре			Sirocco fan				
	Motor output		W	34				
HEAT EXCHANGER	Туре				ML fin - ∅ 8	BHi - XA tube		
	Rows x stages x fin pitch		mm	2 x 24 x 1.5	2 x 24 x 1.5	1 x 32 x 1.6	-	
AIR FILTER					Removable/washa	able/mildew proof		
Temperature control					Microcomp	uter control		
PIPING CONNECTIONS		liquid	mm			6.4		
	gas		mm	Φ 9.5 Φ 12.7			12.7	
		drain	mm	·		18.0		
Insulation Material	Heat insulation tape			Both liquid and gas pipes				
For outdoor units	Pair application				See chapter RK	'S-D/R and RS-R		

For outdoor units	Pair application	See chapter RKS-D/B and RS-B
	Multi application	See chapter MKS-D





ELECTRICAL SPECIFICATIONS										
For indoor units only				FLKS25BVMB	FLKS35BVMB	FLKS50BVMB	FLKS60BVMB			
CURRENT	Nominal running current	cooling	A	0.34	0.36	0.45	0.45			
	Maximum running current	cooling	A		-	_				

For combinatio	n indoor units + outdoor unit	s:		FLKS25BVMB	FLKSS35BVMB	FLKS50BVMB	FLKS60BVMB	
				RKS25DVMB	RKS35DVMB	RKS50BVMB9	Multi appl. only	
CURRENT	Nominal running current	Nominal running current cooling A		4.3	5.3	7.6	-	
	Maximum running current	cooling	A		See chapter RKS-D/B: electrical data			
	Starting current	cooling	A	See Chapter KNS-D/b. electrical data				

For combination	For combination indoor units + outdoor units:									
				RS50BVMB						
CURRENT	Nominal running current	cooling	А	7.6						
	Maximum running current	cooling	Α	See chapter RS-B: electrical						
	Starting current	cooling	Α	data						

For combination	on indoor units + outdoor unit	is:		FLKS25BVMB	FLKS35BVMB	FLKS50BVMB	FLKS60BVMB	
				2MKS40/3MKS50	)/4MKS58,75,90D	4MKS58,75,90D	4MKS75,90D	
CURRENT	Nominal running current	cooling	A		See chapter MKS-D: electrical data			
	Maximum running current	cooling	A					
	Starting current	cooling	А					

For indoor units only:			FLKS25BVMB	FLKS35BVMB	FLKS50BVMB	FLKS60BVMB
POWER SUPPLY			VM	VM	VM	VM
NOMINAL DISTRIBUTION SYSTEM	Phase		1~	1~	1~	1~
VOLTAGE	Frequency	Hz	50	50	50	50
	Voltage	V	230	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.
- 2 Capacities are net, including a deduction for cooling (an addition for heating) for indoor fan motor heat.
- 3 Units should be selected on nominal capacity. Maximum capacity is limited to peak periods.
- The sound pressure level is measured via a microphone at a certain distance from the unit. For measuring conditions: please refer to item 6 of this chapter.
- 5 The sound power level is an absolute value indicating the "power" which a sound source generates.
- 6 Energy label: scale from A (most efficient) to G (less efficient).
- 7 Annual energy consumption: based on average use of 500 running hours per year at full load (= nominal conditions)





NOMINAL CAPACITY and NOMINAL INPUT										
For indoor units only:										
INDOOR UNITS				FLXS25BVMB	FLXS35BVMB	FLXS50BVMB	FLXS60BVMB			
NOMINAL INPUT	Cooling	nominal	kW	0.32	0.078	0.096	0.098			
	Heating	nominal	kW	0.34	0.078	0.096	0.096			

INDOOR UNITS		FLXS25BVMB FLXS35BVMB			FLXS35BVMB	FLXS50BVMB	FLXS60BVMB
OUTDOOR UNITS - PAIR APPLICATION				RXS25DVMB	RXS35DVMB	RXS50BVMB	Multi appl. only
NOMINAL CAPACITY (3-4)	Cooling (1)	min.~nom.~max.	kW	1.3~2.5~3.0	1.4~3.5~3.8	0.90~4.90~5.30	
	Heating (2)	min.~nom.~max.	kW	1.3~3.4~4.5	1.4~4.0~5.0	0.90~6.10~7.50	
NOMINAL INPUT	Cooling	min.~nom.~max.	kW	0.30~0.78~0.96	0.30~1.16~1.27	0.45~1.72~1.95	
	Heating	min.~nom.~max.	kW	0.29~0.995~1.50	0.31~1.245~1.86	0.31~1.82~3.54	For more information, please
EER	Cooling			3.21	3.02	2.85	refer to our Multi Model
COP	Heating			3.42	3.21	3.35	catalogue or contact your loca
ENERGY LABEL	Cooling			A	В	С	dealer.
	Heating			В	C	С	
Annual Energy Consumption	Cooling		kWh	390	580	860	
OUTDOOR UNITS - MULTI APPLICATION				2MXS40/2MXS52/3I	MXS52/4MXS68,80D	2MXS52/3MXS52/ 4MXS68,80D	4MXS68,80D
					For more information	n, see chapter MXS-D	





TECHNICAL SPEC	CIFICATIONS							
For indoor units only	y:							
INDOOR UNITS				FLXS25BVMB	FLXS35BVMB	FLXS50BVMB	FLXS60BVMB	
DIMENSIONS	Unit	Н	mm	490 1,050				
		W	mm					
		D	mm		20	00		
WEIGHT	Unit		kg	1	16	1	7	
COLOUR	Unit				Almono	d white		
Sound Level	Sound pressure	high	dB(A)	37/37	38/39	47/46	48/47	
	(cooling/heating) (5)	low	dB(A)	31/31	32/33	39/35	41/37	
		super low	dB(A)	28/29	29/30	36/33	39/34	
	Sound power (cooling/heating) (6)	high	dB(A)	53/*	54/*	63/*	64/*	
AN	Air flow rate (cooling/heating)	high	m³/min	7.6/9.2	8.6/9.8	11.4/12.1	12.0/12.8	
		low	m³/min	6.0/7.4	6.6/8.0	8.5/7.5	9.3/8.4	
		super low	m³/min	5.2/6.6	5.6/7.2	7.5/6.8	8.3/7.5	
	Speed (cooling/heating)	steps		5 steps, silent and auto				
		high	rpm	820/880	920/940	1,380/1,320	1,380/1,320	
		medium	rpm	740/790	820/850	1,240/1,130	1,240/1,130	
		low	rpm	660/700	720/760	1,100/940	1,100/940	
		super low	rpm	580/620	620/680	1,000/860	1,000/860	
	Туре			Sirocco fan				
	Motor output		W	34				
HEAT EXCHANGER	Туре				ML fin, ∅	7Hi-HA tube		
	Rows x stages x fin pitch		mm	2 x 24 x 1.5	2 x 24 x 1.5	3 x 10 x 1.5	3 x 10 x 1.5	
AIR FILTER					Removable/washa	able/mildew proof		
TEMPERATURE CONTROL					Microcomp	uter control		
PIPING CONNECTIONS		liquid	mm		Φ	6.4		
		gas	mm	φ	9.5	Φ	12.7	
	drain mm		mm	Ø 18.0				
nsulation Material	Heat insulation tape				Both liquid a	nd gas pipes		
or outdoor units	Pair application			See chapter RXS-D/B				
	Multi application				See chapte	r MXS-D		

For outdoor units	Pair application	See chapter RXS-D/B
	Multi application	See chapter MXS-D





2

ELECTRICAL	ELECTRICAL SPECIFICATIONS										
For indoor unit	s only:		FLXS25BVMB	FLXS35BVMB	FLXS50BVMB	FLXS60BVMB					
CURRENT Nominal running current cooling/heating A		0.32/0.34	0.36/0.36	0.45/0.45	0.45/0.43						
	Maximum running current	cooling/heating A			_						

For combination	For combination indoor units + outdoor units:				FLXS35BVMB	FLXS50BVMB	FLXS60BVMB
				RXS25DVMB	RXS35DVMB	RXS50BVMB	Multi appl. only
CURRENT	Nominal running current	cooling/heating	А	0.32/0.34	0.36/0.36	7.6/8.0	-
	Maximum running current	cooling/heating	Α		Con chanter DVC I	VPL plactrical data	
	Starting current	cooling/heating	Α		see chapter RAS-t	D/B: electrical data	

For combinatio	For combination indoor units + outdoor units:				FLXS35BVMB	FLXS50BVMB	FLXS60BVMB	
				2MXS40/2MXS52/3I	MXS52/4MXS68,80D	3MXS52/4MXS68,80D	4MXS68,80D	
CURRENT	Nominal running current	cooling/heating	A		·			
	Maximum running current	cooling/heating	Α		See chapter MXS-D: electrical data			
	Starting current	cooling/heating	А					

For indoor units only:		FLXS25BVMB	FLXS35BVMB	FLXS50BVMB	FLXS60BVMB	
POWER SUPPLY	POWER SUPPLY		VM	VM	VM	VM
NOMINAL DISTRIBUTION SYSTEM	Phase		1~	1~	1~	1~
VOLTAGE	Frequency	Hz	50	50	50	50
	Voltage	٧	230	230	230	230

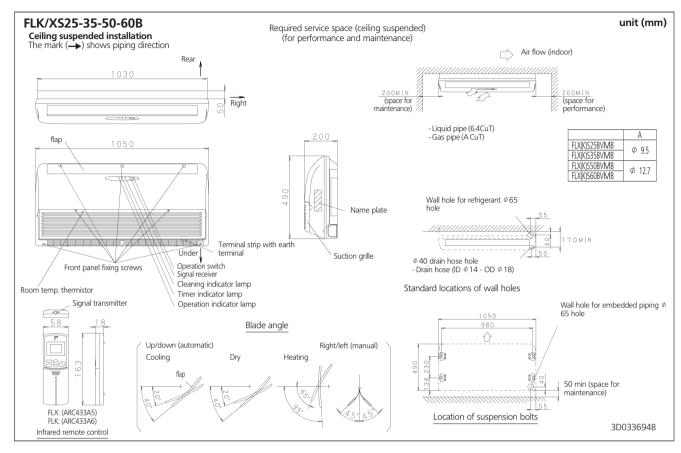
#### NOTES

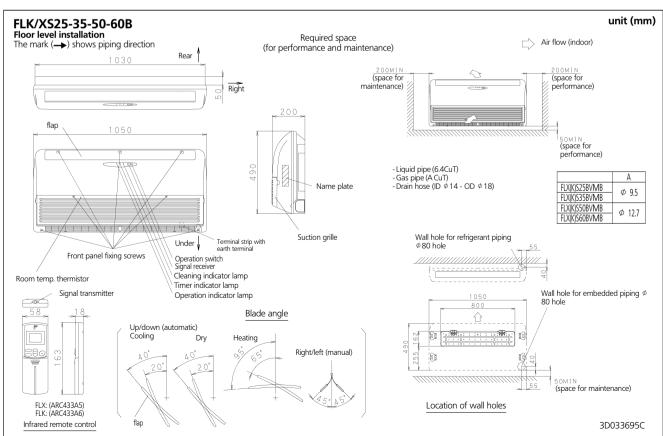
- Nominal cooling capacities are based on: indoor temperature 27°CDB/19°CWB \* outdoor temperature 35°CDB \* refrigerant piping length: 7.5m \* level difference: 0m.
- Nominal heating capacities are based on: indoor temperature: 20°CDB \* outdoor temperature: 7°CDB/6°CWB \* refrigerant piping length: 7.5m \* level difference 0m.
- 3 Capacities are net, including a deduction for cooling (an addition for heating) for indoor fan motor heat.
- 4 Units should be selected on nominal capacity. Maximum capacity is limited to peak periods.
- The sound pressure level is measured via a microphone at a certain distance from the unit. For measuring conditions: please refer to item 6 of this chapter.
- 6 The sound power level is an absolute value indicating the "power" which a sound source generates.
- 7 Energy label: scale from A (most efficient) to G (less efficient).
- 8 Annual energy consumption: based on average use of 500 running hours per year at full load (= nominal conditions)

## 3 Dimensional drawings





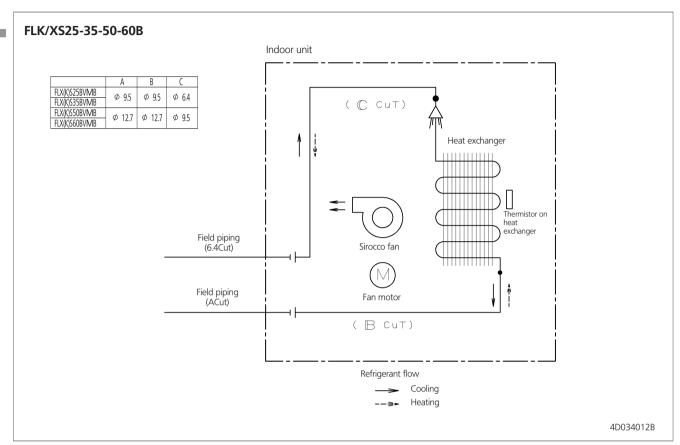




## 4 Piping diagrams



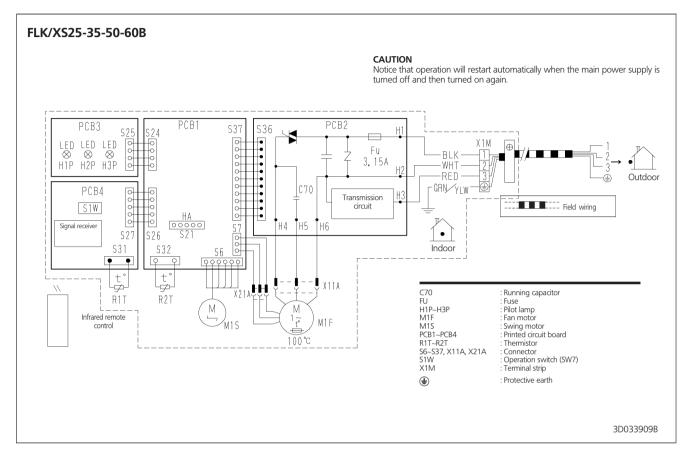




## 5 Wiring diagrams







## 6-1 Sound level data





#### 6

#### **Cooling only**

6-1

			Sound pressure level		
Model		230V, 50Hz		Sound power level	
IVIOUEI		Cooling		Measuring location	(Cooling)
	Н	L	SL		
FLKS25B	37	31	28	Location of microphone	53
FLKS35B	38	32	29	] + 1m -	54
FLKS50B	47	39	36		63
FLKS60B	48	41	39		64

#### **Heat pump**

Model		230V, 50Hz			Sound power level		
IVIOUEI		Cooling/Heating		Measuring location	Sound power level (Cooling/Heating)		
	Н	L	SL				
FLXS25B	37/37	31/31	28/29	Location of microphone	53/*		
FLXS35B	38/39	32/33	29/30	] <del>  1m  </del>	54/*		
FLXS50B	47/46	39/35	36/33		63/*		
FLXS60B	48/47	41/37	39/34		64/63		

<sup>\*</sup> Sound power levels were not available at time of publication

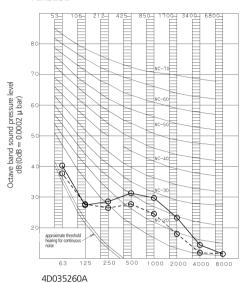
## 6–1 Sound pressure spectrum





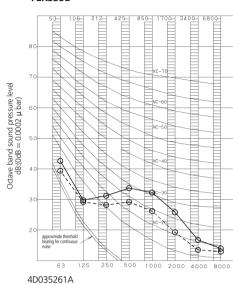
#### **Cooling only**

FLKS25B



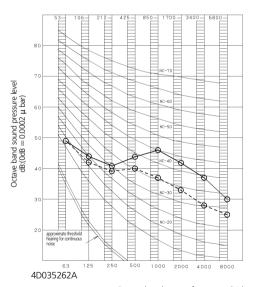
Octave band center frequency (Hz)

#### FLKS35B



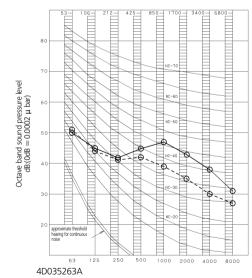
Octave band center frequency (Hz)

#### FLKS50B



Octave band center frequency (Hz)

#### FLKS60B



Octave band center frequency (Hz)

#### NOTE

Operation noise differs with operation and ambient conditions.

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O--O 50/60Hz 220-240/220-230V(H) O--O 50/60Hz 220-240/220-230V(L)

## 6–1 Sound pressure spectrum



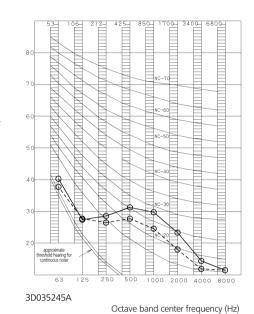


#### 6

#### **Heat pump**

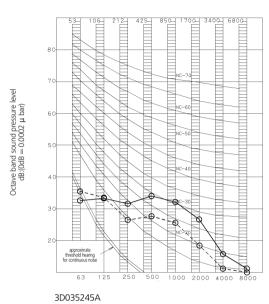
6-1

#### FLXS25B (Cooling)



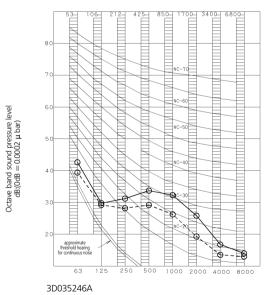
. .

#### FLXS25B (Heating)



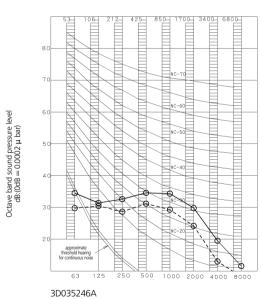
Octave band center frequency (Hz)

#### FLXS35B (Cooling)



Octave band center frequency (Hz)

#### FLXS35B (Heating)



Octave band center frequency (Hz)

#### Legend

O-O 50/60Hz 220-240/220-230V(H)

**O---O** 50/60Hz 220-240/220-230V(L)

#### NOTES

- Operation sound is measured in an anechoic chamber.
- 2 Operation sound differs with operation and ambient conditions.

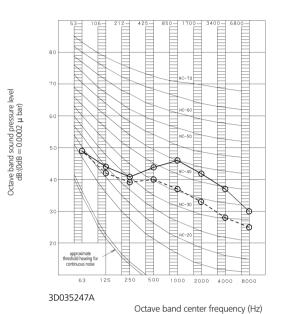
## 6–1 Sound pressure spectrum



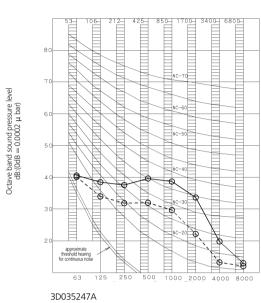


#### **Heat pump**

#### FLXS50B (Cooling)

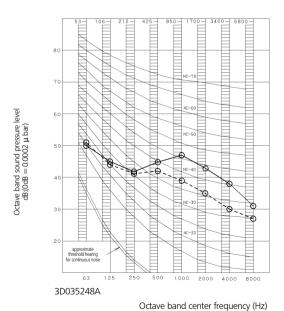


#### FLXS50B (Heating)

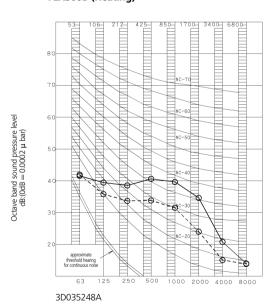


Octave band center frequency (Hz)

#### FLXS60B (Cooling)



#### FLXS60B (Heating)



Octave band center frequency (Hz)

#### Legend

O--O 50/60Hz 220-240/220-230V(H)
O--O 50/60Hz 220-240/220-230V(L)

#### NOTES

- Operation sound is measured in an anechoic chamber.
- Operation sound differs with operation and ambient conditions.

### **Accessories**

#### 7-1 Standard accessories





#### FLK/XS-B

Mounting plate	1	© AAA dry-cell batteries	2	N Heat insulation tube (Extension auxiliary pipe)	1
® Photocatalytic deodorising filter	1	① Side cover	2	P Heat insulation tube (Refrigerant pipe)	1
C Air purifying filter	1	© Operation manual	1	① Binding band	4
① Infrared remote control	1	① Installation manual	1		
© Remote control holder	1	M Extension auxiliary pipe	2		

The extension auxiliary pipe (ii) N is not included for FLXS25, FLXS35, FLKS25 and FLKS35

#### 7-2 Optional accessories

#### FLK/XS-B

Option name		25 35 50				
Marin and a second and a second and a second as the second and a second as the second	Normal open contact	KRP413A1S				
Wiring adapter for time clock / remote control (1)	Normal open pulse contact		KRP4	13A1S		
Centralised control board	1 up to 5 rooms (2)		KR	C72		
Central remote control			DCS3	02C51		
Unified ON/OFF control		DCS301B51				
Schedule timer		DST301B51				
Interface adapter (3)			KRP9	28A2S		
Photocatalytic deodorising filter, with frame			KAZ9	17A41		
Photocatalytic deodorising filter, without frame		KAZ917A42				
Air purification filter with frame		KAF925B41				
Air purification filter without frame		KAF925B42				
Anti-theft protection for remote control		KKF917A4				

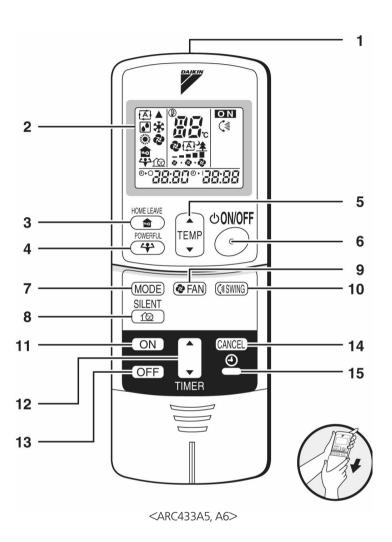
(1) Wiring adapter is also required for each indoor unit.(2) Wiring adapter supplied by Daikin. Time clock and other devices: field supply.(3) For DIII-NET adapter

## ※

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### 8–1 Infrared remote control

FLK/XS-B



- 1 Signal transmitter:
  - $\bullet$   $\ensuremath{\bar{\text{l}}}\xspace$  sends signals to the indoor unit.
- 2 Display:
  - It displays the current settings. (In this illustration, each section is shown with all its displays ON for the purpose of explanation.)
- HOME LEAVE button:

for HOME LEAVE operation

- 4 POWERFUL button:
  - for POWERFUL operation
- 5 TEMPERATURE adjustment buttons:
  - It changes the temperature setting
- 6 ON/OFF button:
  - Press this button once to start operation. Press once again to stop it.
- 7 MODE selector button:
  - It selects the operation mode (Auto ♠ / Dry ♠ / Cool ‡ / Heat ☀ / Fan ♣)

- 8 **OUTDOOR UNIT SILENT button:** SILENT operation
- 9 FAN setting button:
  - It selects the air flow rate setting.
- 10 SWING button
- 11 ON TIMER button
- 12 **OFF TIMER button**
- 3 TIMER setting button:
  - It changes the time setting
- 4 **TIMER CANCEL button:** It cancels the timer setting.
- 15 **CLOCK button**

8

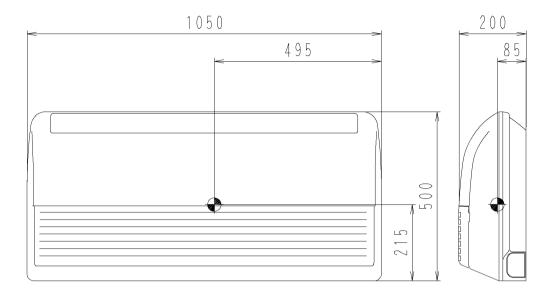
8-1

## 9 Center of gravity





g FLK/XS-B

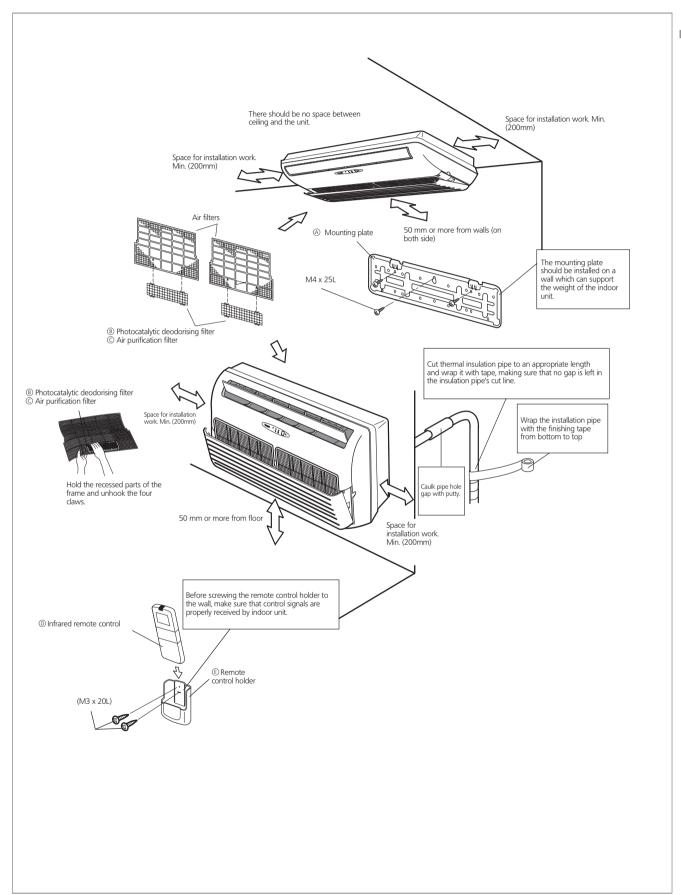


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## 10 Installation







## 10 Installation





#### 10 Ceiling mounting

