



# technical data

**FVKS/ FVXS-B**



**Floor Standing, 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.

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## FVKS/FVXS-B

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\* For capacity tables, please refer to part II: outdoor units



# 1 Features

1

- Lightweight and compact
- Can be used as floor standing or lower wall application. As a floor standing model, it can be semi-recessed or fully recessed without capacity loss.
- A double horizontal air flow director ensures uniform air flow and temperature distribution
- The home leave operation saves energy during absence.
- Air purification filter:
  - deodorises the air
  - helps to prevent bacterial and viral propagation
- The photocatalytic deodorising air filter:
  - powerfully decomposes cigarette and pet odours
  - removes house dust and pollen
  - deactivates bacteria and viruses
- Powerful mode can be selected for rapid cooling or heating.
- Washable front panel
- 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.
- Night quiet mode automatically reduces the operating sound of the outdoor unit by 3dB(A) at night. (multi outdoors in cooling mode only)
- 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 be installed on a roof or terrace or placed against an outside wall
- Outdoor units are fitted with a swing compressor, renowned for its low noise and energy efficiency.
- Up to 5 indoor units can be regulated from a single centralised control
- The remote control has a 24 hour timer
- The indoor unit also has a start/stop button mounted on the front panel
- Purpose designed holder provided for your remote control



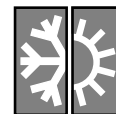


## 2 Specifications

2

NOMINAL CAPACITY and NOMINAL INPUT							
<b>For indoor units only:</b>							
INDOOR UNITS				FVK25BVMB	FVK35BVMB	FVK50BVMB	
NOMINAL INPUT	Cooling	nominal	kW	0.032	0.032	0.055	
<b>For combination indoor + outdoor units (air cooled):</b>							
INDOOR UNITS				FVK25BVMB	FVK35BVMB	FVK50BVMB	FVK50BVMB
OUTDOOR UNITS - PAIR APPLICATION				RKS25DVMB	RKS35DVMB	RKS50BVMB9	RS50BVMB
NOMINAL CAPACITY (2-3)	Cooling (1)	min.~nom.~max.	kW	~ ~2.50~ ~	~ ~3.50~ ~	0.90~4.80~5.30	4.80 (nom.)
NOMINAL INPUT	Cooling	min.~nom.~max.	kW	~ ~0.70~ ~	~ ~1.09~ ~	0.45~1.70~2.35	1.70 (nom.)
EER				3.57	3.21	2.82	2.82
ENERGY LABEL	Cooling			A	A	C	C
ANNUAL ENERGY CONSUMPTION	Cooling		kWh	350	545	850	850
OUTDOOR UNITS - MULTI APPLICATION				3MKS50/4MKS58,75,90D		4MKS58,75,90D	
				For more information, see chapter MKS-D			

TECHNICAL SPECIFICATIONS								
<b>For indoor units only:</b>								
INDOOR UNITS				FVK25BVMB	FVK35BVMB	FVK50BVMB		
DIMENSIONS	Unit	H	mm	600				
		W	mm	650				
		D	mm	195				
WEIGHT	Unit		kg					
COLOUR	Unit	Almond white						
SOUND LEVEL	Sound pressure (cooling) (4)	high	dB(A)	38	39	44		
		low	dB(A)	26	27	36		
		super low	dB(A)	23	24	33		
	Sound power (cooling) (5)		dB(A)	54	55	56		
FAN	Air flow rate (cooling)	high	m <sup>3</sup> /min	8.1	8.3	10.8		
		low	m <sup>3</sup> /min	4.3	4.3	7.7		
		super low	m <sup>3</sup> /min	3.4	3.4	6.7		
	Speed Upper/Lower	steps	5 steps, silent and auto					
		high	rpm	1,100/1,180	1,120/1,200	1,290/1,380		
		medium	rpm	900/960	930/990	1,140/1,220		
		low	rpm	700/740	740/780	990/1,060		
	super low	rpm	600/630	640/670	890/950			
Type	Cross flow fan							
Motor output	W							
HEAT EXCHANGER	Type	Slit fin, $\phi$ 7 tube						
	Rows x stages x fin pitch	mm	2 x 20 x 1.3	2 x 20 x 1.3	2 x 20 x 1.3			
AIR FILTER	Removable/washable/mildew proof							
TEMPERATURE CONTROL	Microprocessor control							
PIPING CONNECTIONS	liquid	mm	$\phi$ 6.4					
	gas	mm	$\phi$ 9.5			$\phi$ 12.7		
	drain	mm	$\phi$ 18.0			$\phi$ 20.0		
INSULATION MATERIAL	Heat insulation tape	Both liquid and gas pipes						
<b>For outdoor units</b>	Pair application	See chapter RKS-D/B and RS-B						
	Multi application	See chapter MKS-D						



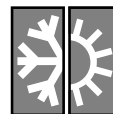
## 2 Specifications

2

ELECTRICAL SPECIFICATIONS							
<b>For indoor units only:</b>							
				<b>FVKS25BVMB</b>	<b>FVKS35BVMB</b>	<b>FVKS50BVMB</b>	
CURRENT	Nominal running current	cooling	A	0.14	0.14	0.14	
	Maximum running current	cooling	A		-		
<b>For combination indoor units + outdoor units:</b>							
				<b>FVKS25BVMB</b>	<b>FVKS35BVMB</b>	<b>FVKS50BVMB</b>	<b>FVKS50BVMB</b>
				<b>RKS25DVMB</b>	<b>RKS35DVMB</b>	<b>RKS50BVMB9</b>	<b>RS50BVMB</b>
CURRENT	Nominal running current	cooling	A	-	-	7.5	7.5
	Maximum running current	cooling	A	See chapter RKS-D/B: electrical data			See chapter RS-B: electrical data
	Starting current	cooling	A				
<b>For combination indoor units + outdoor units:</b>							
				<b>FVKS25BVMB</b>	<b>FVKS35BVMB</b>	<b>FVKS50BVMB</b>	
				<b>3MKS50/4MKS58,75,90D</b>		<b>4MKS58,75,90D</b>	
CURRENT	Nominal running current	cooling	A	See chapter MKS-D: electrical data			
	Maximum running current	cooling	A				
	Starting current	cooling	A				
<b>For indoor units only:</b>							
POWER SUPPLY				VM	VM	VM	
NOMINAL DISTRIBUTION SYSTEM VOLTAGE	Phase			1~	1~	1~	
	Frequency		Hz	50	50	50	
	Voltage		V	230	230	230	

### NOTES

- 1 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.
- 4 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)

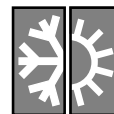


## 2 Specifications

2

NOMINAL CAPACITY and NOMINAL INPUT						
For indoor units only:						
INDOOR UNITS				FVXS25BVMB	FVXS35BVMB	FVXS50BVMB
NOMINAL INPUT	Cooling	nominal	kW	0.032	0.032	0.055
	Heating	nominal	kW	0.032	0.032	0.070
For combination indoor + outdoor units (air cooled):						
INDOOR UNITS				FVXS25BVMB	FVXS35BVMB	FVXS50BVMB
OUTDOOR UNITS - PAIR APPLICATION				RXS25DVMB	RXS35DVMB	RXS50BVMB
NOMINAL CAPACITY (3-4)	Cooling (1)	min.~nom.~max.	kW	~2.50~	~3.50~	0.90~4.80~5.30
	Heating (2)	min.~nom.~max.	kW	~3.40~	~4.50~	0.90~6.00~7.70
NOMINAL INPUT	Cooling	min.~nom.~max.	kW	~0.70~	~1.09~	0.45~1.70~2.35
	Heating	min.~nom.~max.	kW	~0.90~	~1.32~	0.31~1.87~2.60
EER	Cooling			3.57	3.21	2.82
COP	Heating			3.78	3.41	3.21
ENERGY LABEL	Cooling			A	A	C
	Heating			A	B	C
ANNUAL ENERGY CONSUMPTION	Cooling		kWh	350	545	850
OUTDOOR UNITS - MULTI APPLICATION				3MXS52/4MXS68,80D		
For more information, see chapter MXS-D						

TECHNICAL SPECIFICATIONS							
For indoor units only:							
INDOOR UNITS				FVXS25BVMB	FVXS35BVMB	FVXS50BVMB	
DIMENSIONS	Unit	H	mm	600			
		W	mm	650			
		D	mm	195			
WEIGHT	Unit		kg	13			
COLOUR	Unit	Almond white					
SOUND LEVEL	Sound pressure (cooling/heating) (5)	high	dB(A)	38/38	39/39	44/45	
		low	dB(A)	26/26	27/29	36/36	
		super low	dB(A)	23/23	24/26	33/33	
	Sound power (cool/heat) (6)	high	dB(A)	54/*	55/*	56/57	
low		dB(A)	54/*	55/*	56/57		
FAN	Air flow rate (cool/heat)	high	m <sup>3</sup> /min	8.1/9.2	8.3/9.2	10.8/13.2	
		low	m <sup>3</sup> /min	4.3/4.8	4.3/5.0	7.7/9.4	
		super low	m <sup>3</sup> /min	3.4/3.5	3.4/3.6	6.7/8.3	
	Speed (cooling/heating) Upper/Lower	steps		5 steps, silent and auto			
		high	rpm	1,100/1,180-1,120/1,200	1,120/1,200-1,160/1,240	1,290/1,380-1,390/1,510	
		medium	rpm	900/960-930/1,020	930/990-960/1,040	1,140/1,220-1,220/1,330	
		low	rpm	700/740-740/840	740/780-760/840	990/1,060-1,050/1,150	
super low	rpm	600/630-640/700	640/670-660/720	890/950-950/1,040			
Type		Cross flow fan					
Motor output		W					
HEAT EXCHANGER	Type	Microprocessor control					
	Rows x stages x fin pitch	mm	2 x 20 x 1.3	2 x 20 x 1.3	2 x 20 x 1.3		
AIR FILTER	Removable/washable/mildew proof						
TEMPERATURE CONTROL	Microcomputer control						
PIPING CONNECTIONS	liquid	mm	Φ6.4				
	gas	mm	Φ9.5			Φ12.7	
	drain	mm	Φ18.0			Φ20.0	
INSULATION MATERIAL	Heat insulation tape		Both liquid and gas pipes				
For outdoor units	Pair application	See chapter RXS-D/B					
	Multi application	See chapter MXS-D					



## 2 Specifications

2

<b>ELECTRICAL SPECIFICATIONS</b>				<b>FVXS25BVMB</b>	<b>FVXS35BVMB</b>	<b>FVXS50BVMB</b>
<b>For indoor units only:</b>						
CURRENT	Nominal running current	cooling/heating	A	0.14/0.14	0.14/0.14	0.26/0.32
	Maximum running current	cooling/heating	A		—	
<b>For combination indoor + outdoor units (air cooled):</b>				<b>FVXS25BVMB</b>	<b>FVXS35BVMB</b>	<b>FVXS50BVMB</b>
				<b>RXS25DVMB</b>	<b>RXS35DVMB</b>	<b>RXS50BVMB</b>
CURRENT	Nominal running current	cooling/heating	A	—	—	7.5/8.2
	Maximum running current	cooling/heating	A	See chapter RXS-D/B: electrical data		
	Starting current	cooling/heating	A			
<b>For combination indoor + outdoor units (air cooled):</b>				<b>FVXS25BVMB</b>	<b>FVXS35BVMB</b>	<b>FVXS50BVMB</b>
				<b>2MXS52/3MXS52/4MXS68,80D</b>		
CURRENT	Nominal running current	cooling	A	See chapter MXS-D: electrical data		
	Maximum running current	cooling	A			
	Starting current	cooling	A			
<b>For indoor units only:</b>				<b>FVXS25BVMB</b>	<b>FVXS35BVMB</b>	<b>FVXS50BVMB</b>
POWER SUPPLY				VM	VM	VM
NOMINAL DISTRIBUTION SYSTEM VOLTAGE	Phase			1~	1~	1~
	Frequency		Hz	50	50	50
	Voltage		V	230	230	230

### NOTES

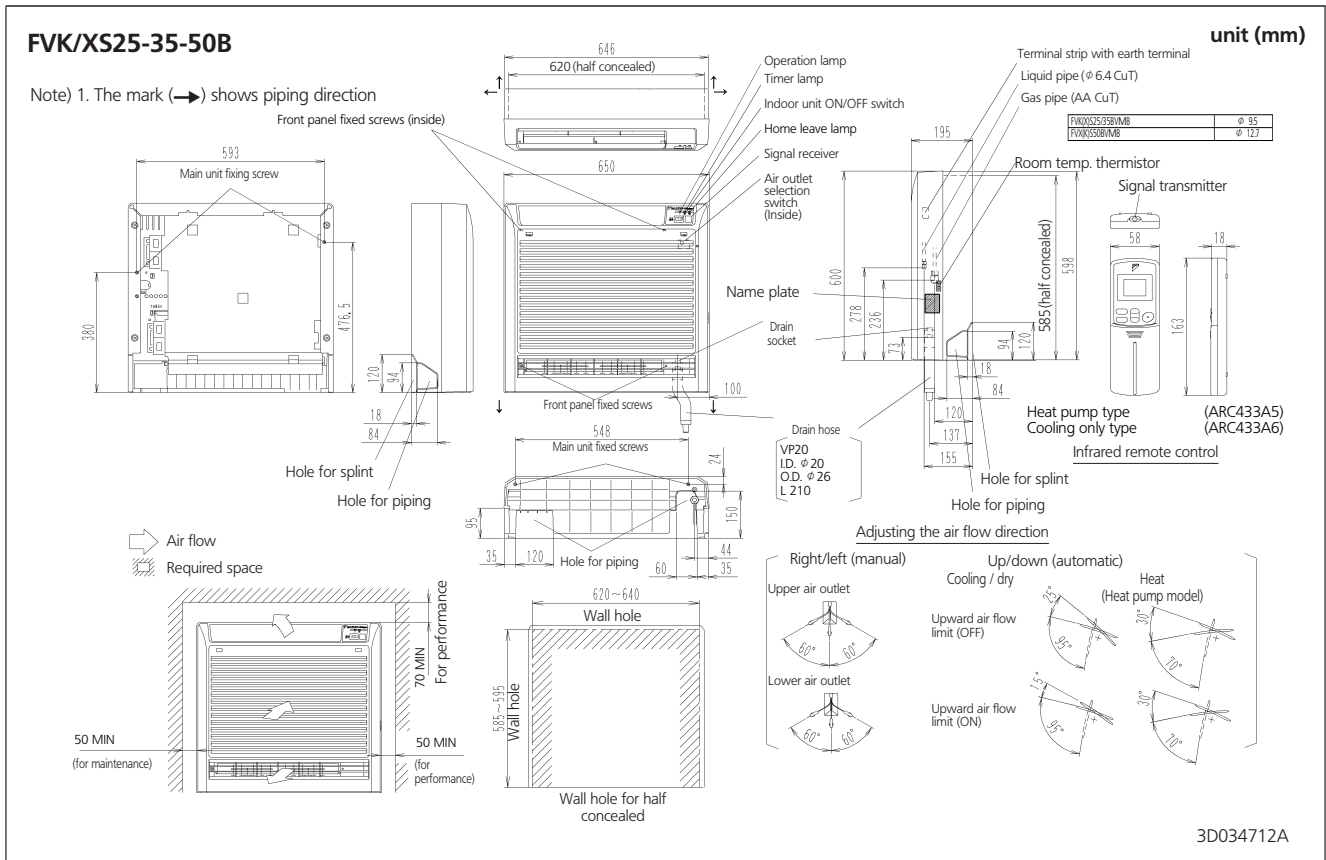
- 1 Nominal cooling capacities are based on: indoor temperature 27°CDB/19°CWB \* outdoor temperature 35°CDB \* refrigerant piping length: 7.5m \* level difference: 0m.
- 2 Nominal heating capacities are based on: indoor temperature 20°CDB \* outdoor temperature 7°CDB/6°CWB \* refrigerant piping length 7.5m (horizontal) \* 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.
- 5 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

3

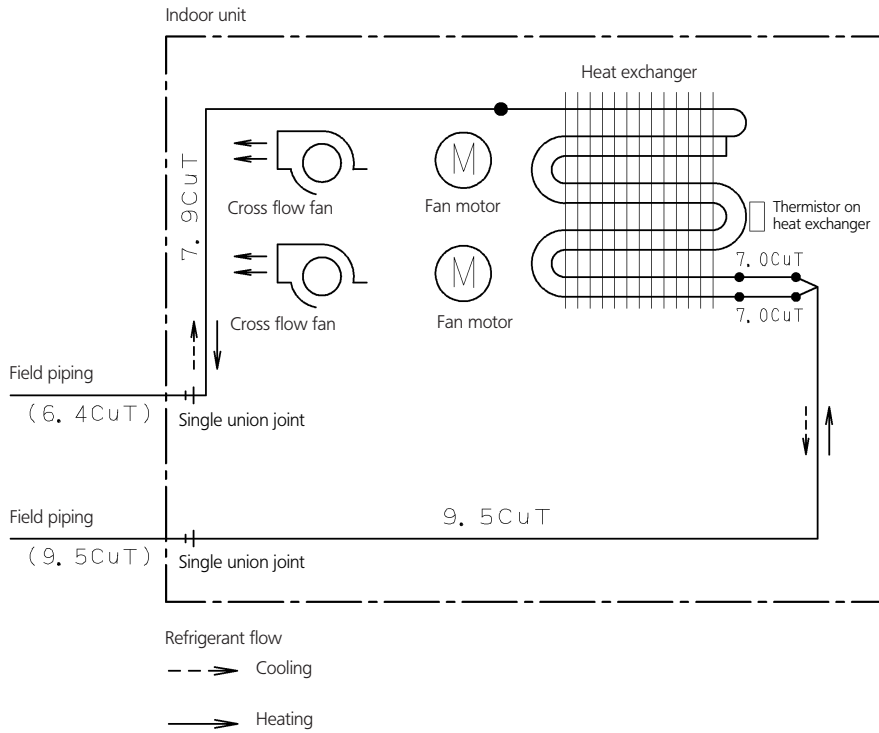




# 4 Piping diagrams

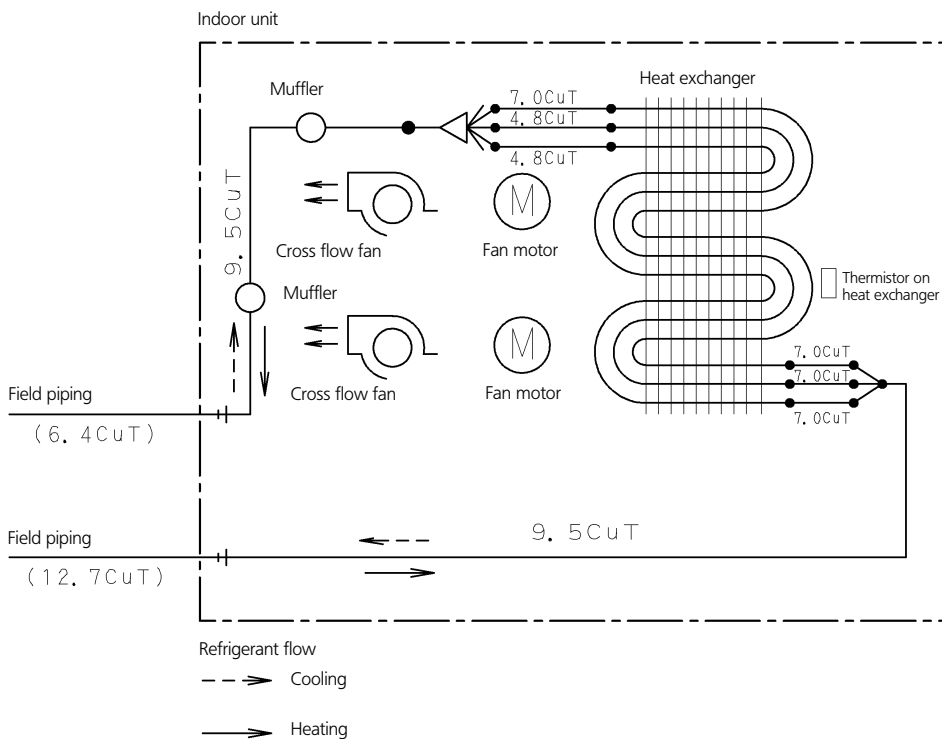
4

## FVK/XS25-35B



4D034714A

## FVK/XS50B



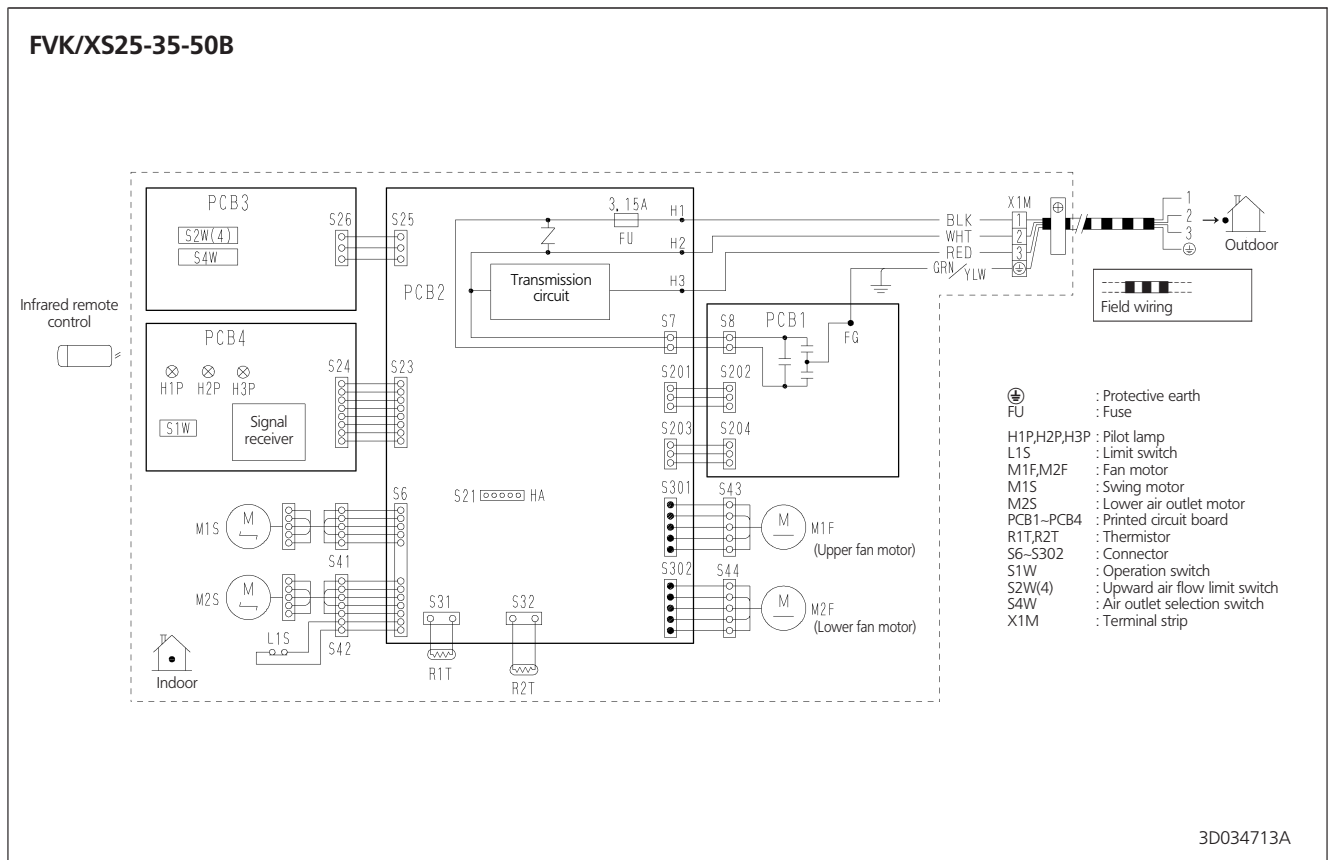
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8



# 5 Wiring diagrams

5





# 6 Sound level

## 6-1 Sound level data

### 6 Cooling only

6-1

Model	Sound pressure level			Measuring location	Sound power level cooling
	230V, 50Hz				
	Cooling				
	H	L	SL		
FVKS25B	38	26	23	Location of microphone 	54
FVKS35B	39	27	24		55
FVKS50B	44	36	33		56

### Heat pump

Model	Sound pressure level			Measuring location	Sound power level (cooling/heating)
	230V, 50Hz				
	Cooling/Heating				
	H	L	SL		
FVXS25B	38/38	26/26	23/23	Location of microphone 	54/*
FVXS35B	39/39	27/29	24/26		55/*
FVXS50B	44/45	36/36	33/33		56/57

\* Sound power levels were not available at time of publication



# 6 Sound level

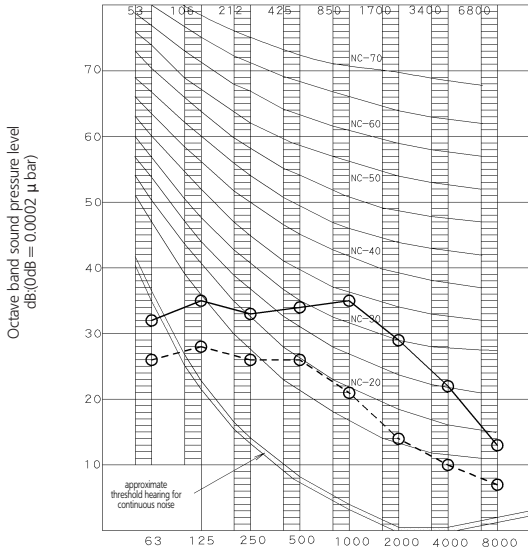
## 6-2 Sound pressure spectrum

Cooling only

6

6-2

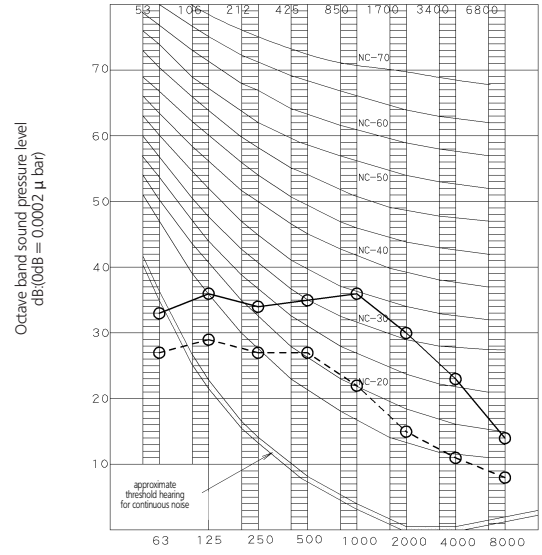
FVKS25B



4D035264A

Octave band center frequency (Hz)

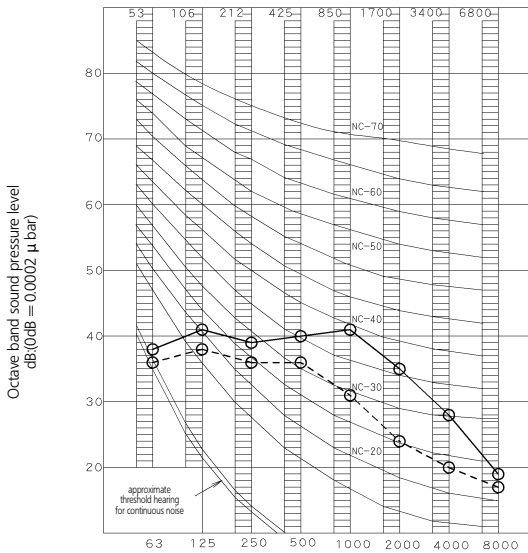
FVKS35B



4D035265A

Octave band center frequency (Hz)

FVKS50B



4D035266A

Octave band center frequency (Hz)

Legend

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

### NOTES

- 1 Operation sound is measured in an anechoic chamber.
- 2 Operation sound level differs with operation and ambient conditions.
- 3 Reference acoustic pressure 0dB = 20Pa



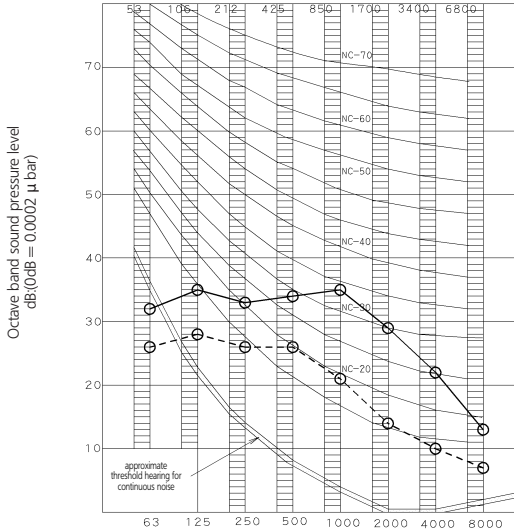
# 6 Sound level

## 6-2 Sound pressure spectrum

### 6 Heat pump

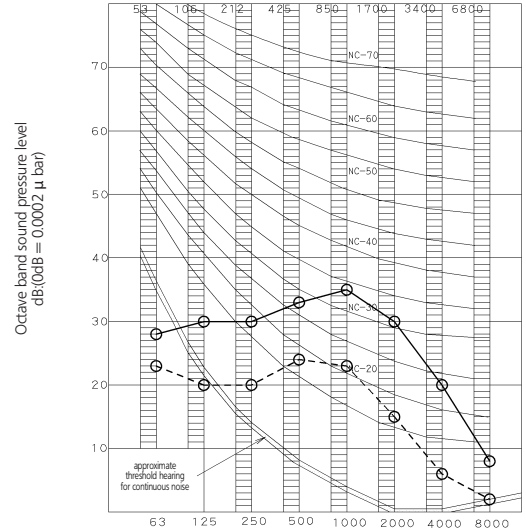
6-2

FVXS25B (Cooling)



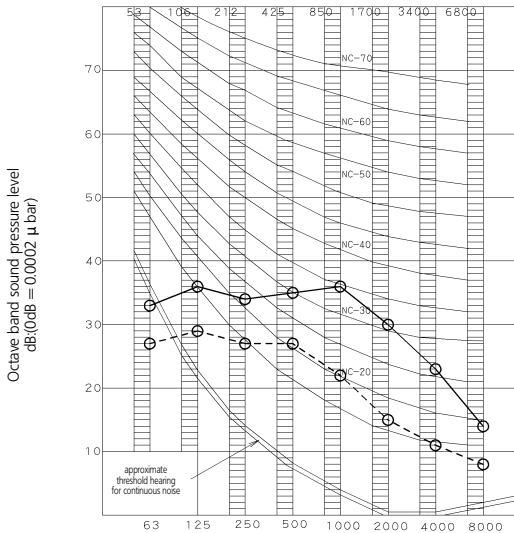
Octave band center frequency (Hz)

FVXS25B (Heating)



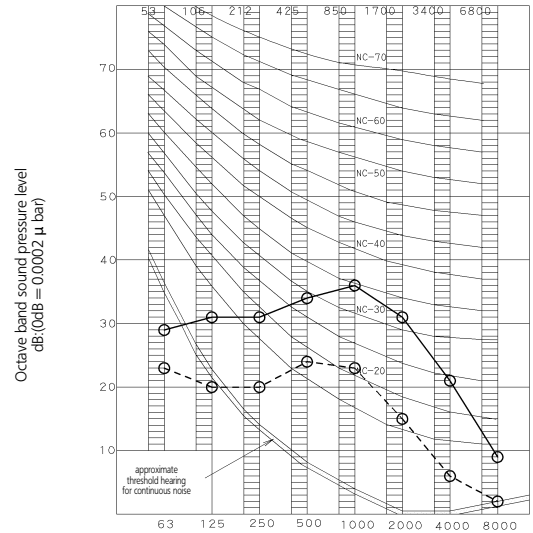
Octave band center frequency (Hz)

FVXS35B (Cooling)



Octave band center frequency (Hz)

FVXS35B (Heating)



Octave band center frequency (Hz)

Legend

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

NOTES

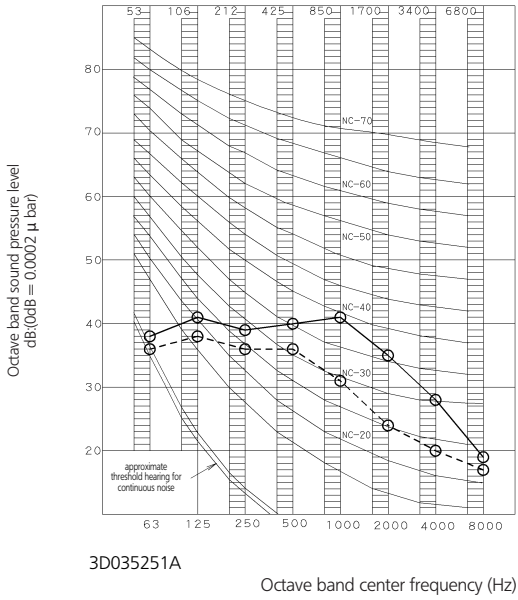
- 1 Operation sound is measured in an anechoic chamber.
- 2 Operation sound level differs with operation and ambient conditions.
- 3 Reference acoustic pressure 0dB = 20Pa



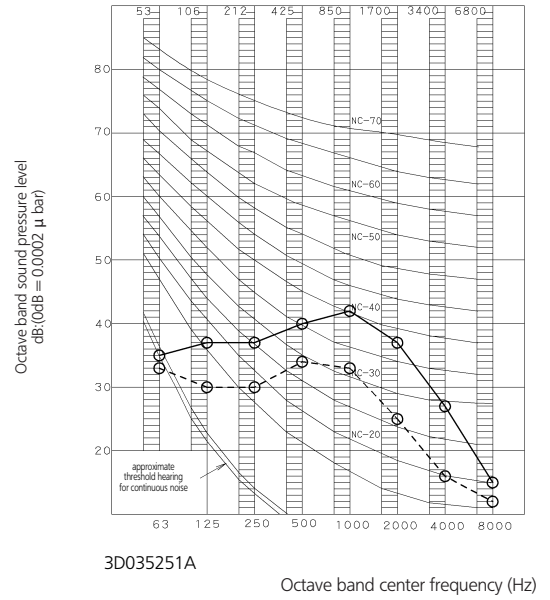
# 6 Sound level

## 6-2 Sound pressure spectrum

FVXS50B (Cooling)



FVXS50B (Heating)



6  
6-2

Legend

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

NOTES

- 1 Operation sound is measured in an anechoic chamber.
- 2 Operation sound level differs with operation and ambient conditions.
- 3 Reference acoustic pressure 0dB = 20Pa



# 7 Accessories

## 7-1 Standard accessories

### 7 Indoor unit (A) ~ (K)

7-1

(A) Drain hose	1	(E) Infrared remote control	1	(I) Air purification filter	1
(B) Protection bush	2	(F) Remote control holder	1	(J) Operation manual	1
(C) Heat insulation tube	1	(G) AAA dry-cell batteries	2	(K) Installation manual	1
(D) Clamp material	4	(H) Photocatalytic deodorising filter	1		

## 7-2 Optional accessories

### FVK/XS-B

Option name		25	35	50
Wiring adapter for time clock / remote control (1)	Normal open contact	KRP413A1S		
	Normal open pulse contact	KRP413A1S		
Centralised control board	1 up to 5 rooms (2)	KRC72		
Central remote control		DCS302C51		
Unified ON/OFF control		DCS301B51		
Schedule timer		DST301B51		
Interface adapter (DIII-net) (3)		KRP928A2S		
Photocatalytic deodorising filter, with frame		KAZ917B41		
Photocatalytic deodorising filter, without frame		KAZ917B42		
Air purification filter with frame		KAF925B41		
Air purification filter without frame		KAF925B42		
Anti-theft protection for remote control		KKF917A4		

(1) Wiring adapter is supplied by Daikin. Time clock and other devices; field supply.

(2) Wiring adapter is also required for each indoor unit.

(3) For DIII-NET adapter

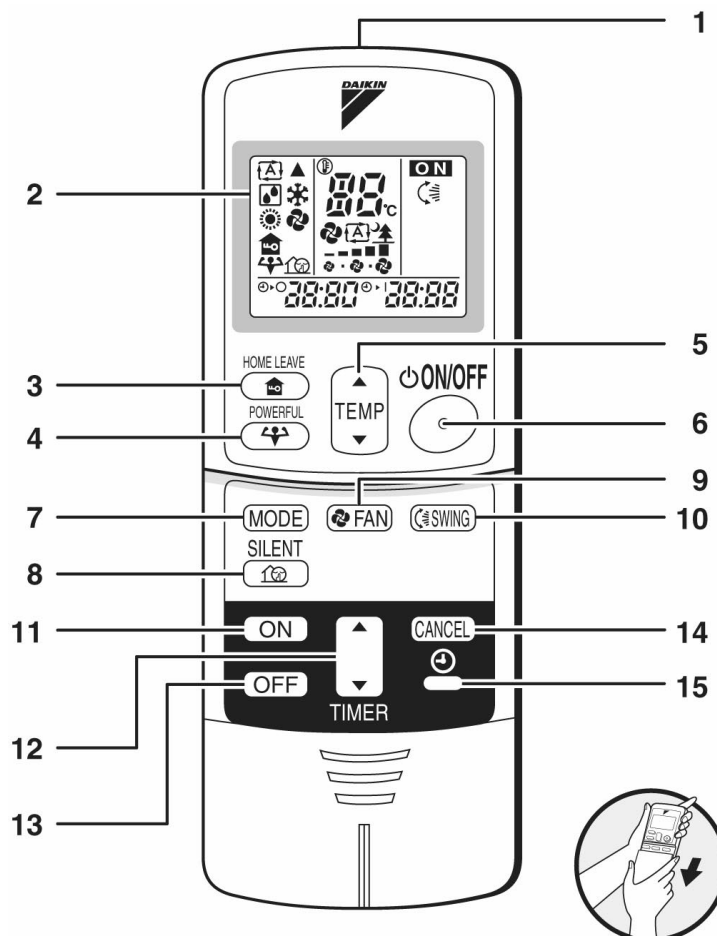




# 8 Control systems

## 8-1 Infrared remote control

FVK/XS-B



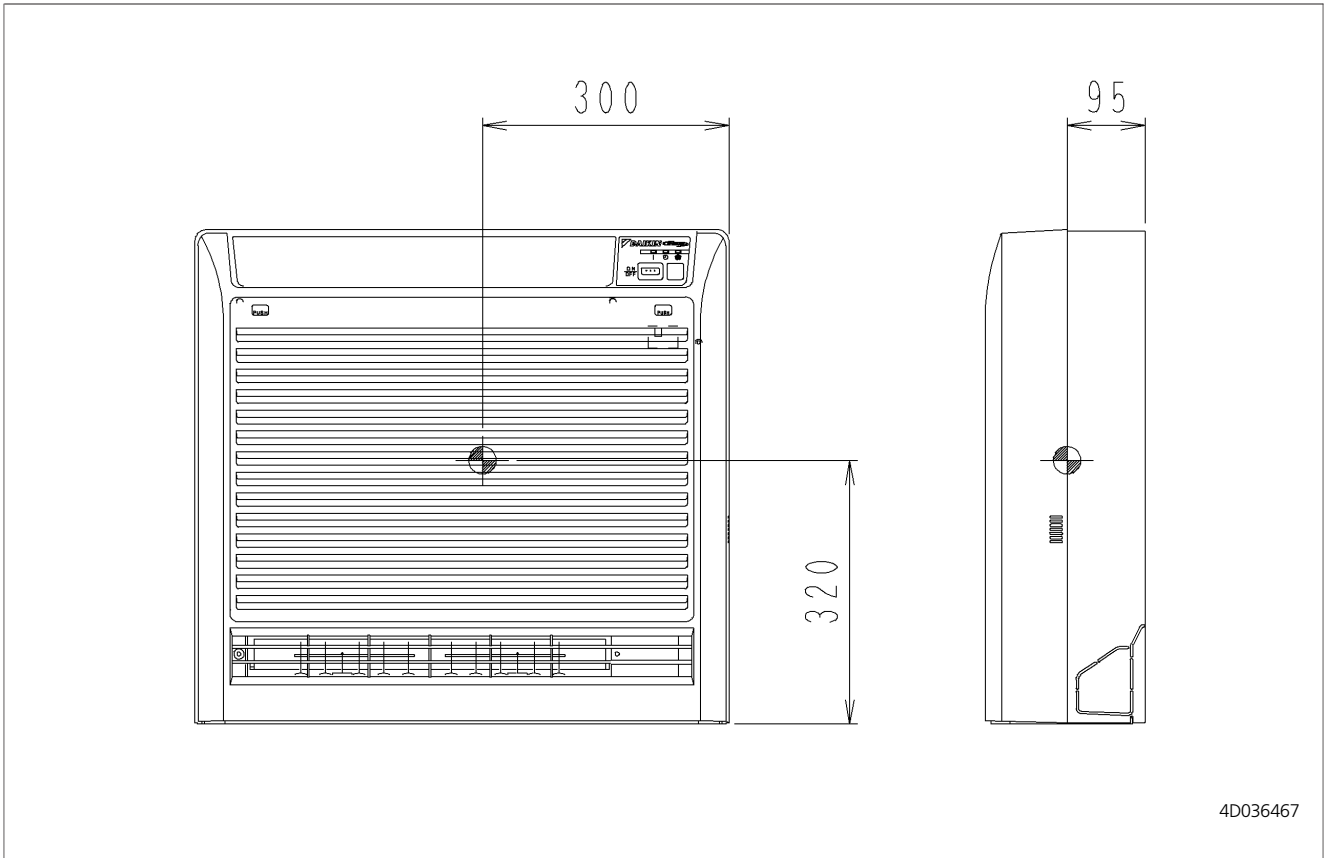
<ARC433A5, A6>

- |   |  |
|---|--|
| <p>1 <b>Signal transmitter:</b><br/>• It sends signals to the indoor unit.</p> <p>2 <b>Display:</b><br/>• It displays the current settings. (In this illustration, each section is shown with all its displays ON for the purpose of explanation.)</p> <p>3 <b>HOME LEAVE button:</b><br/>for HOME LEAVE operation</p> <p>4 <b>POWERFUL button:</b><br/>for POWERFUL operation</p> <p>5 <b>TEMPERATURE adjustment buttons:</b><br/>• It changes the temperature setting</p> <p>6 <b>ON/OFF button:</b><br/>• Press this button once to start operation. Press once again to stop it.</p> <p>7 <b>MODE selector button:</b><br/>• It selects the operation mode<br/>(Auto  / Dry  / Cool  / Heat  / Fan </p> | <p>8 <b>OUTDOOR UNIT SILENT button:</b><br/>SILENT operation</p> <p>9 <b>FAN setting button:</b><br/>• It selects the air flow rate setting.</p> <p>10 <b>SWING button</b></p> <p>11 <b>ON TIMER button:</b></p> <p>12 <b>TIMER setting button:</b><br/>• It changes the time setting</p> <p>13 <b>OFF TIMER button:</b></p> <p>14 <b>TIMER CANCEL button:</b><br/>It cancels the timer setting.</p> <p>15 <b>CLOCK button</b></p> |
|---|--|



# 9 Center of gravity

9





# 10 Installation

The indoor unit may be mounted in any of the three styles shown here.

