



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. is participating in the EUROVENT Certification Programme. Products are as listed in the EUROVENT Directory of Certified Products. Multi Units are certified by Eurovent for combinations up to 2 indoor units.

Specifications are subject to change without prior notice.

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TABLE OF CONTENTS

FVKS/FVXS-B



1	Features	2
2	Specifications	3
	Nominal capacity, capacity steps and nominal input	
	Technical specifications	
	Electrical specifications	
3	Dimensional drawings	7
4	Piping diagrams	8
5	Wiring diagrams	9
6	Sound level	10
	Sound level data	
	Sound pressure spectrum	
7	Accessories	14
	Standard accessories	
	Optional accessories	
8	Control systems	15
9	Center of gravity	16
10	Installation	17

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

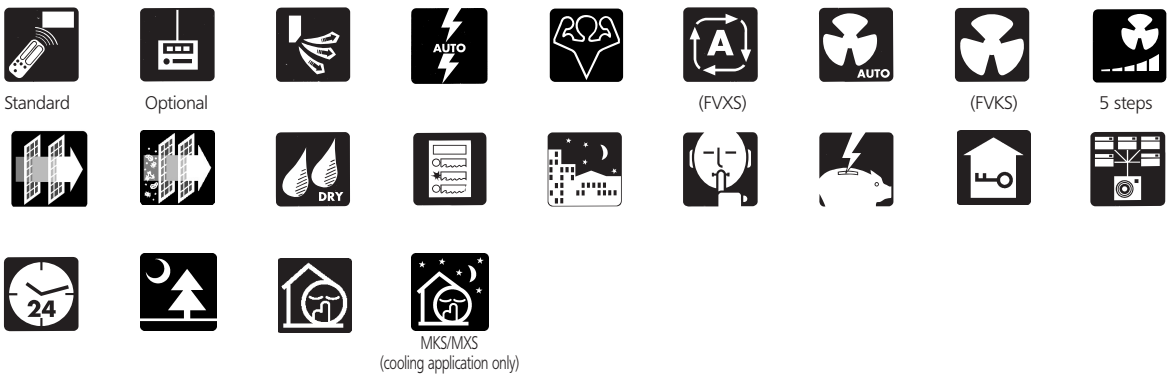




1 Features

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

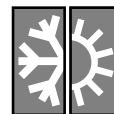




2 Specifications

NOMINAL CAPACITY and NOMINAL INPUT							
For indoor units only:							
INDOOR UNITS				FVK25BVMB	FVK35BVMB	FVK50BVMB	
NOMINAL INPUT	Cooling	nominal	kW	0.032	0.032	0.055	
For combination indoor units + outdoor units:							
INDOOR UNITS				FVK25BVMB	FVK35BVMB	FVK50BVMB	FVK50BVMB
OUTDOOR UNITS - PAIR APPLICATION				RKS25BVMB	RKS35BVMB	RKS50BVMB	RS50BVMB
NOMINAL CAPACITY (2-3)	Cooling (1)	min.~nom.~max.	kW	1.00~2.50~3.00	1.00~3.50~3.70	0.90~4.80~5.30	4.80 (nom.)
NOMINAL INPUT	Cooling	min.~nom.~max.	kW	0.24~0.70~0.925	0.24~1.16~1.30	0.45~1.70~2.35	1.70 (nom.)
EER				3.57	3.02	2.82	2.82
ENERGY LABEL	Cooling		kW	A	B	C	C
ANNUAL ENERGY CONSUMPTION	Cooling		kW	350	580	850	850
OUTDOOR UNITS - MULTI APPLICATION				3MKS50/4MKS58,75,90B		4MKS58,75,90B	
				For more information, see chapter MKS-B			

TECHNICAL SPECIFICATIONS								
For indoor units only:								
INDOOR UNITS				FVK25BVMB	FVK35BVMB	FVK50BVMB		
DIMENSIONS	Unit	H	mm	600				
		W	mm	650				
		D	mm	195				
WEIGHT	Unit		kg	13				
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 ³ /min	8.1	8.3	10.8		
		low	m ³ /min	4.3	4.3	7.7		
		super low	m ³ /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	14+14					
HEAT EXCHANGER	Type		Slit fin, ϕ 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	ϕ 6.4					
	gas	mm		ϕ 9.5	ϕ 12.7			
	drain	mm		ϕ 18.0	ϕ 20.0			
INSULATION MATERIAL	Heat insulation tape		Both liquid and gas pipes					
For outdoor units	Pair application		See chapter RKS-B					
	Multi application		See chapter MKS-B					



2 Specifications

2

ELECTRICAL SPECIFICATIONS						
For indoor units only:						
CURRENT	Nominal running current	cooling	A	FVK25BVMB	FVK35BVMB	FVK50BVMB
	Maximum running current	cooling	A	0.14	0.14	0.14
				See chapter RKS-B: electrical data		
For combination indoor units + outdoor units:						
CURRENT	Nominal running current	cooling	A	FVK25BVMB	FVK35BVMB	FVK50BVMB
				RKS25BVMB	RKS35BVMB	RKS50BVMB
	Maximum running current	cooling	A	3.7	5.5	7.5
	Starting current	cooling	A	See chapter RKS-B: electrical data		
For combination indoor units + outdoor units:						
CURRENT	Nominal running current	cooling	A	FVK25BVMB	FVK35BVMB	FVK50BVMB
				3MKS50/4MKS58,75,90B		4MKS58,75,90B
	Maximum running current	cooling	A	See chapter MKS-B: electrical data		
	Starting current	cooling	A			
For indoor units only:						
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)



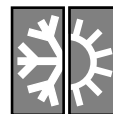
2 Specifications

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 units + outdoor units:						
INDOOR UNITS				FVXS25BVMB	FVXS35BVMB	FVXS50BVMB
OUTDOOR UNITS - PAIR APPLICATION				RXS25BVMB	RXS35BVMB	RXS50BVMB
NOMINAL CAPACITY (3-4)	Cooling (1)	min.~nom.~max.	kW	1.00~2.50~3.00	1.00~3.50~3.70	0.90~4.80~5.30
	Heating (2)	min.~nom.~max.	kW	1.00~3.40~5.00	1.00~4.50~5.00	0.90~6.00~7.70
NOMINAL INPUT	Cooling	min.~nom.~max.	kW	0.24~0.70~0.925	0.24~1.16~1.30	0.45~1.70~2.35
	Heating	min.~nom.~max.	kW	0.24~0.84~1.43	0.24~1.285~1.83	0.31~1.87~2.60
EER	Cooling			3.57	3.02	2.82
COP	Heating			4.05	3.50	3.21
ENERGY LABEL	Cooling			A	B	C
	Heating			A	B	C
ANNUAL ENERGY CONSUMPTION	Cooling		kW/h	350	580	850
OUTDOOR UNITS - MULTI APPLICATION				3MXS52/4MXS68,80B		
For more information, see chapter MXS-B						

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	
FAN	Air flow rate (cool/heat)	high	m ³ /min	8.1/9.2	8.3/9.2	10.8/13.2	
		low	m ³ /min	4.3/4.8	4.3/5.0	7.7/9.4	
		super low	m ³ /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	14+14				
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-B
	Multi application	See chapter MXS-B



2 Specifications

2

ELECTRICAL SPECIFICATIONS				FVXS25BVM	FVXS35BVM	FVXS50BVM
For indoor units only:						
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	See chapter RXS-B: electrical data		
For combination indoor units + outdoor units:				FVXS25BVM	FVXS35BVM	FVXS50BVM
				RXS25BVM	RXS35BVM	RXS50BVM
CURRENT	Nominal running current	cooling/heating	A	3.7/4.3	5.5/6.0	7.5/8.2
	Maximum running current	cooling/heating	A	See chapter RXS-B: electrical data		
	Starting current	cooling/heating	A			
For combination indoor units + outdoor units:				FVXS25BVM	FVXS35BVM	FVXS50BVM
				3MXS52/4MXS68,80B		
CURRENT	Nominal running current	cooling	A	See chapter MXS-B: electrical data		
	Maximum running current	cooling	A			
	Starting current	cooling	A			
For indoor units only:				FVXS25BVM	FVXS35BVM	FVXS50BVM
POWER SUPPLY				VM	VM	VM
NOMINAL DISTRIBUTION SYSTEM VOLTAGE	Phase			1~	1~	1~
	Frequency		Hz	50	50	50
	Voltage		V	230	230	230

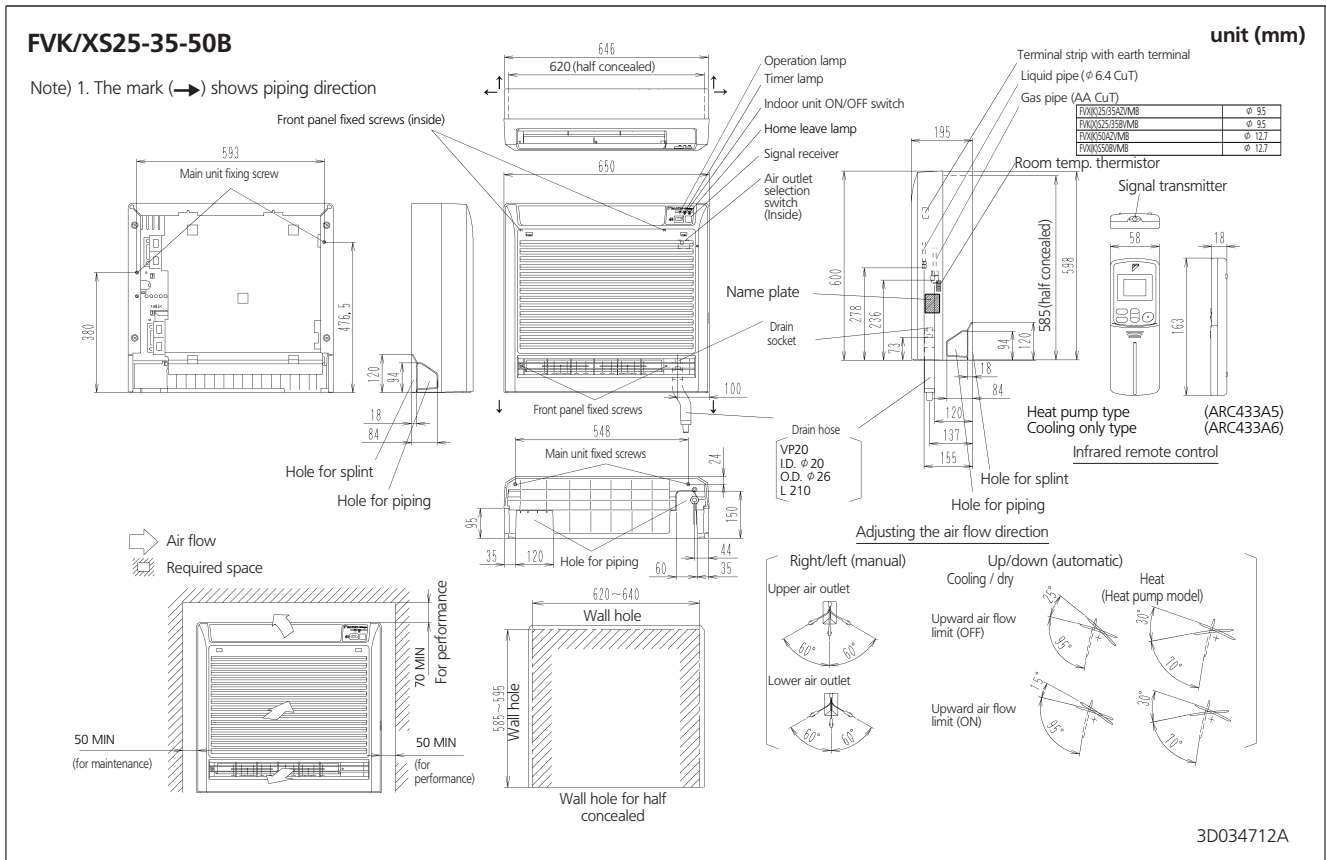
NOTES

- 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

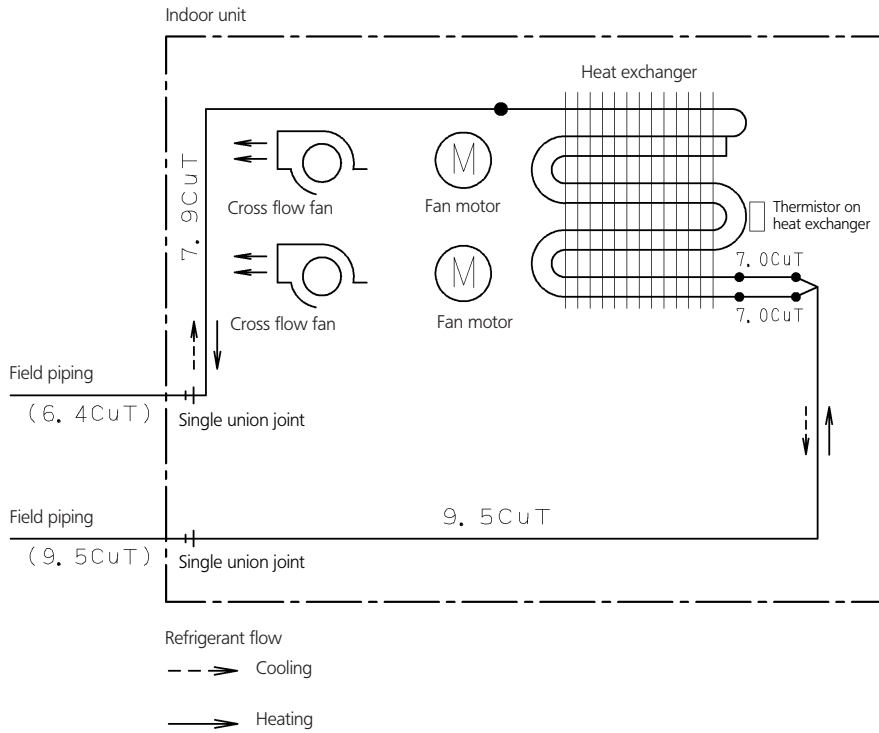




4 Piping diagrams

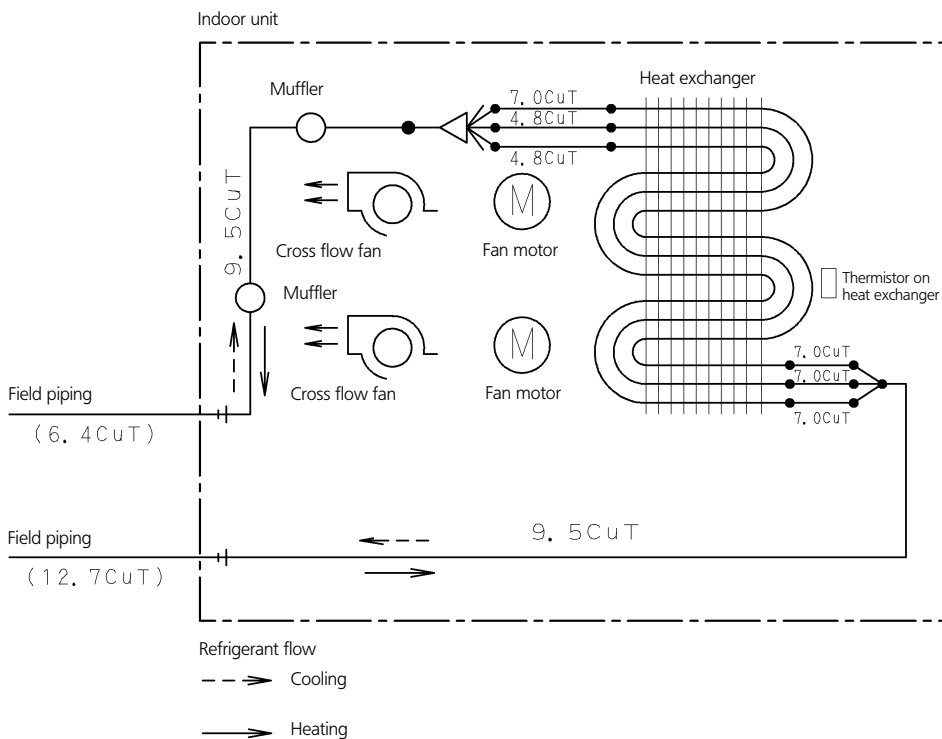
4

FVK/XS25-35B



4D034714A

FVK/XS50B



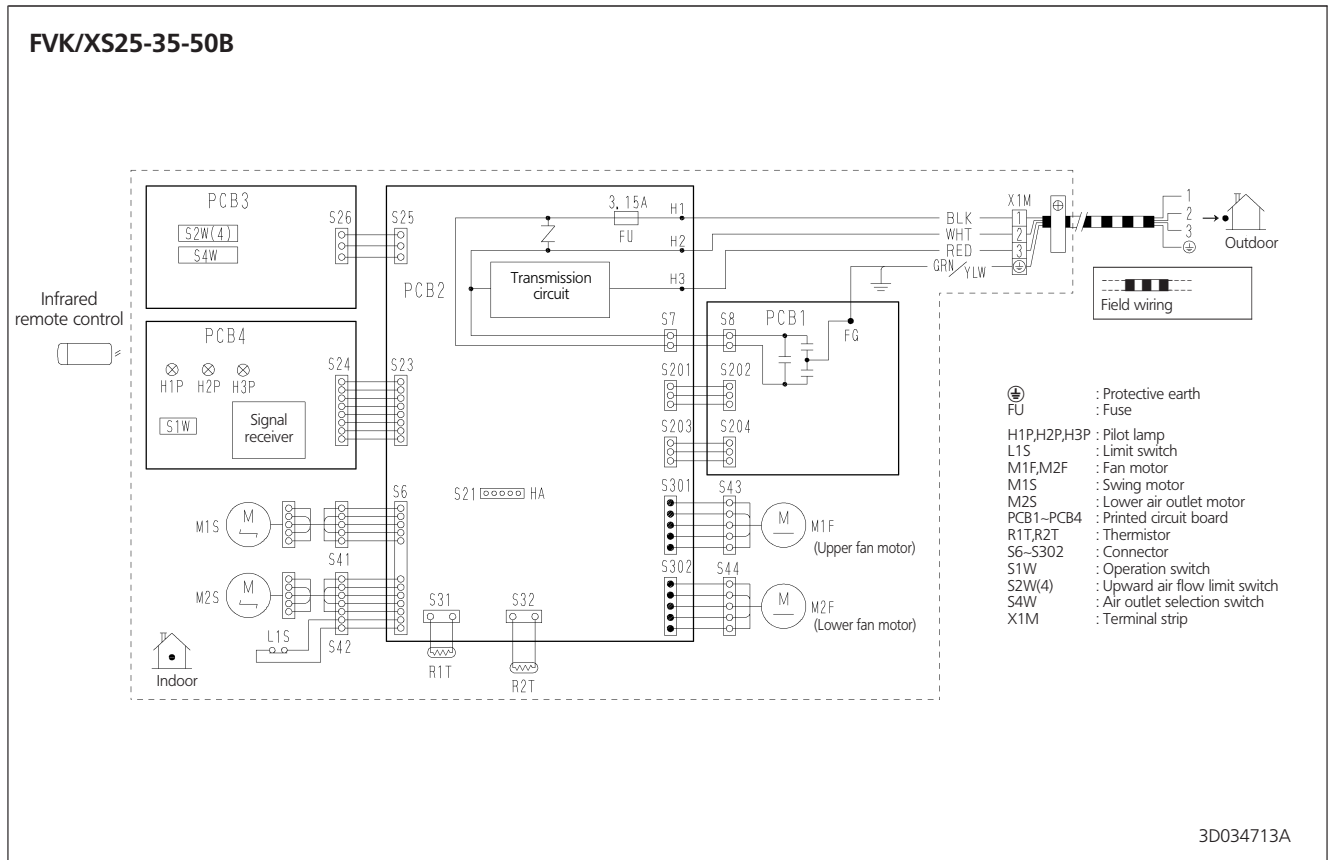
4D020911B

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



6 Sound level

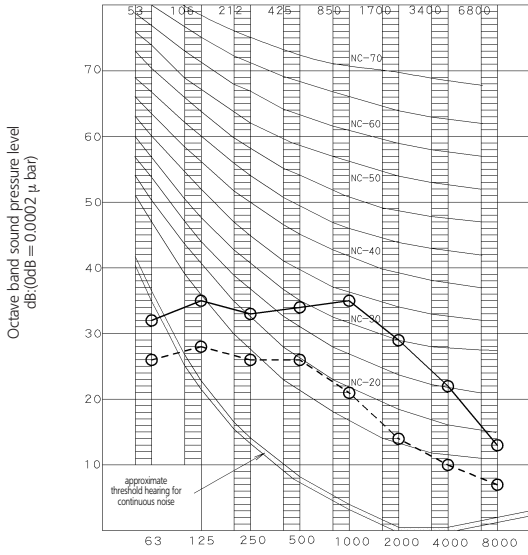
6-2 Sound pressure spectrum

Cooling only

6

6-2

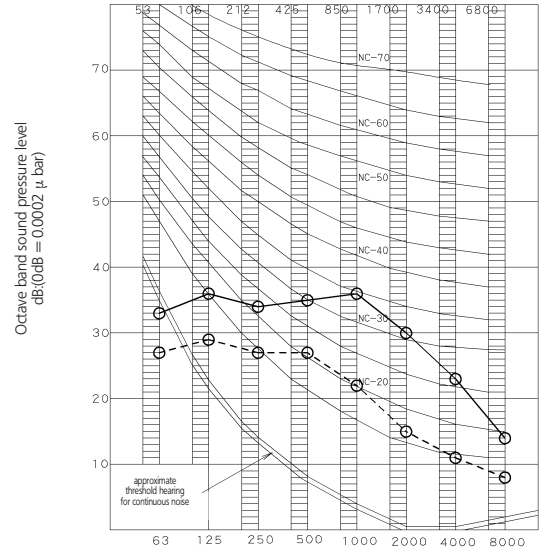
FVK525B



4D035264A

Octave band center frequency (Hz)

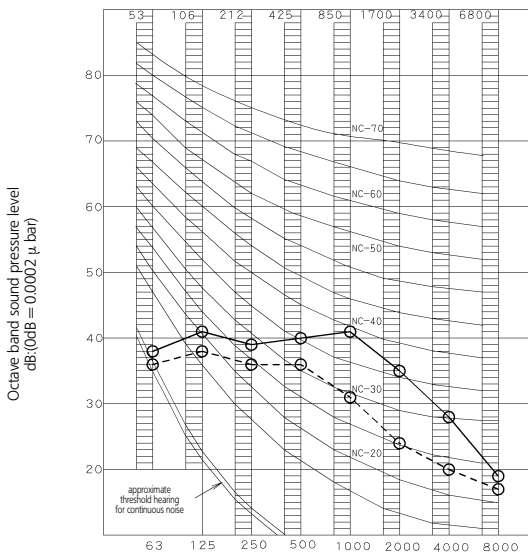
FVK535B



4D035265A

Octave band center frequency (Hz)

FVK550B



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 = 20μPa



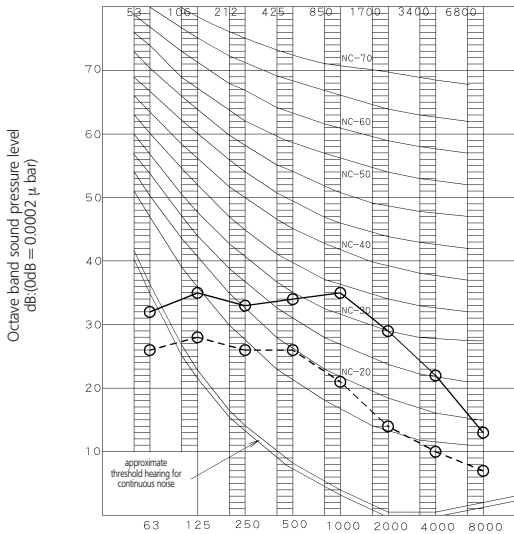
6 Sound level

6-2 Sound pressure spectrum

6 Heat pump

6-2

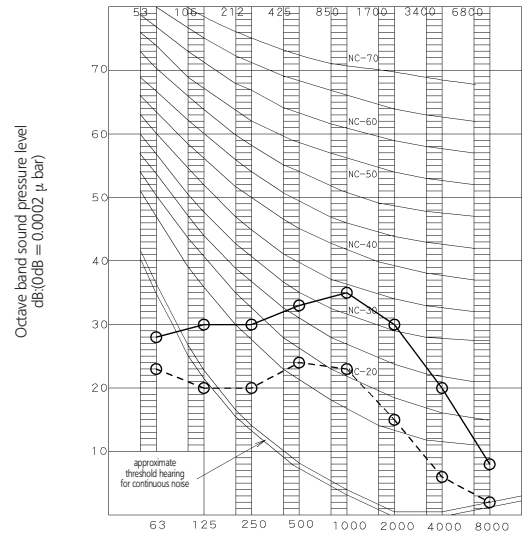
FVXS25B (Cooling)



3D035249A

Octave band center frequency (Hz)

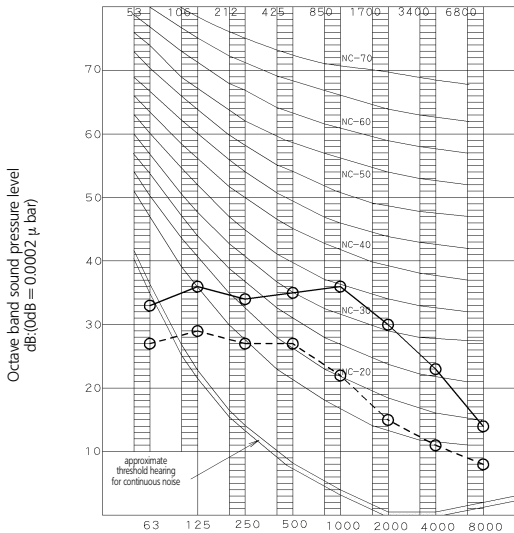
FVXS25B (Heating)



3D035249A

Octave band center frequency (Hz)

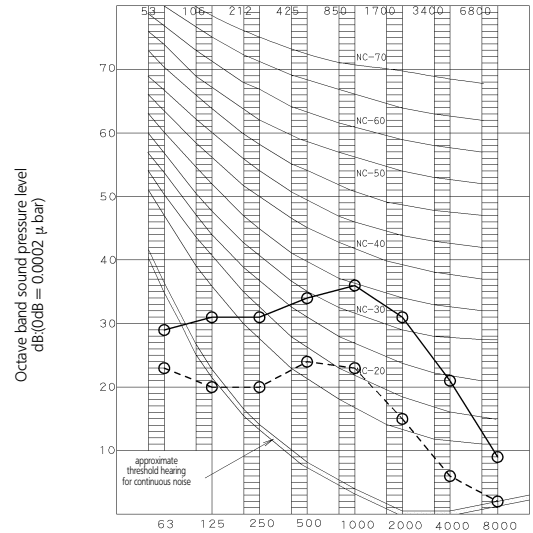
FVXS35B (Cooling)



3D035250A

Octave band center frequency (Hz)

FVXS35B (Heating)



3D035250A

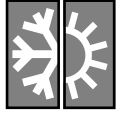
Octave band center frequency (Hz)

Legend

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

NOTES

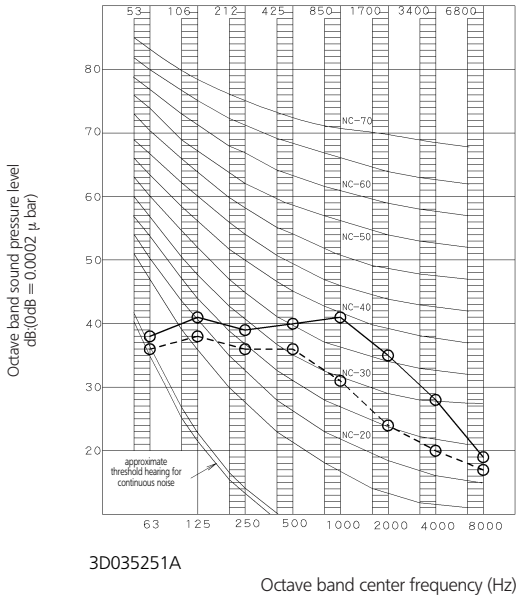
- 1 Operation sound is measured in an anechoic chamber.
- 2 Operation sound level differs with operation and ambient conditions.
- 3 Reference acoustic pressure 0dB = 20μPa



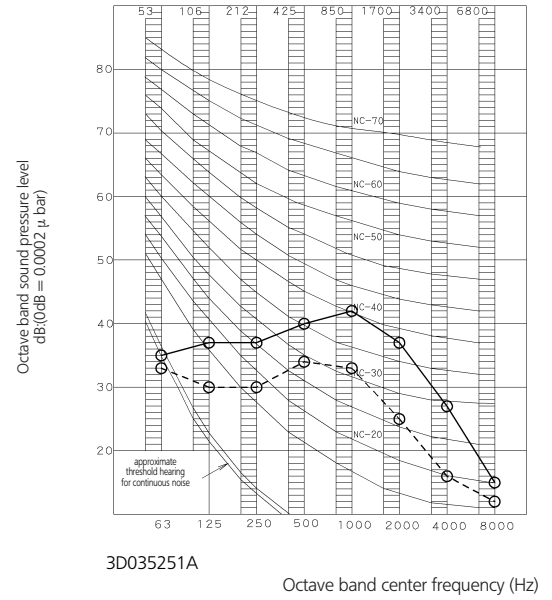
6 Sound level

6-2 Sound pressure spectrum

FVXS50B (Cooling)



FVXS50B (Heating)



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 = 20μPa



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			DCS302B51	
Unified ON/OFF control			DCS301B51	
Schedule timer			DCT301B51	
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.

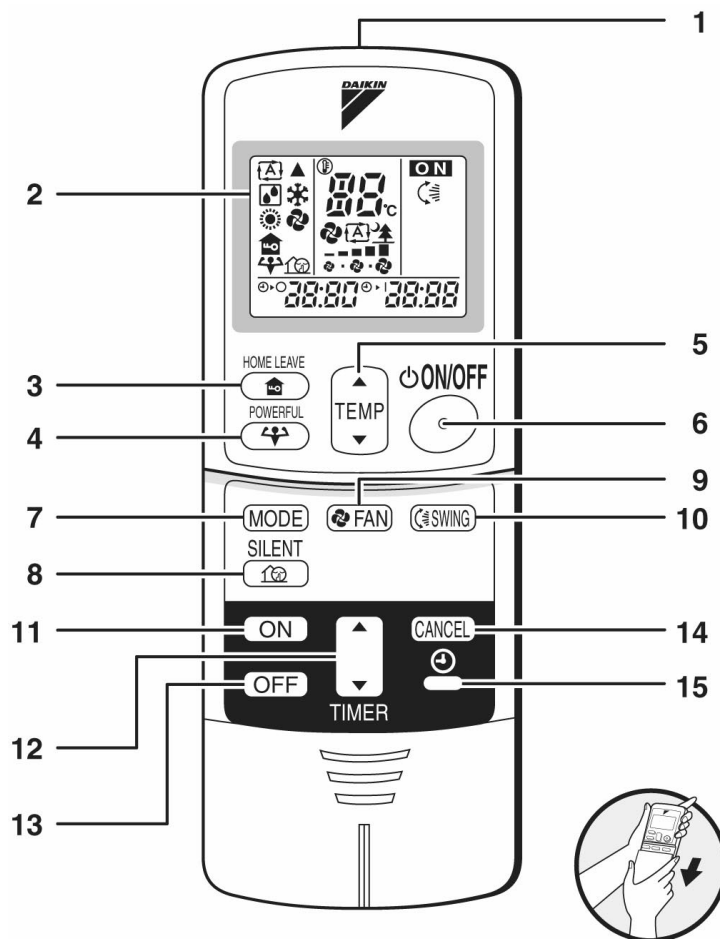
(3) For DIII-NET adapter



8 Control systems

8-1 Infrared remote control

FVK/XS-B



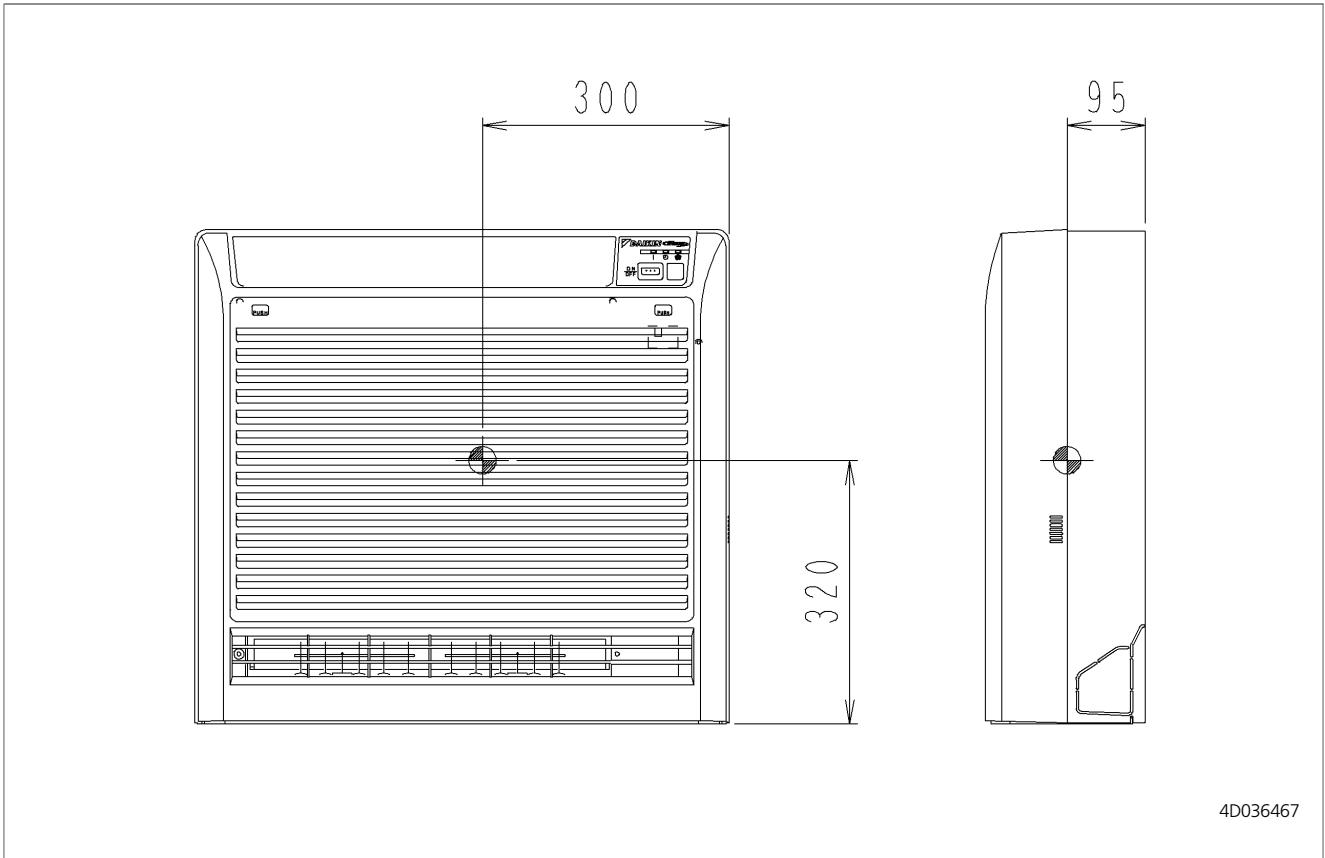
<ARC433A5, A6>

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



9 Center of gravity

9





10 Installation

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

