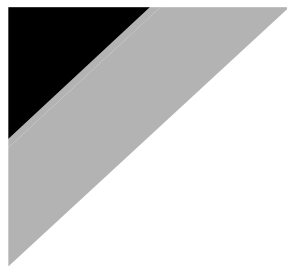


DAIKIN



TECHNICAL DATA

Split-Sky Air



FVK/FVX-KZ
Floor Standing
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.



Daikin Europe NV is participating in the EUROVENT Certification Programme. Products are as listed in the EUROVENT Directory of Certified Products.

Specifications are subject to change without prior notice

DAIKIN PRODUCTS ARE DISTRIBUTED BY :



DAIKIN EUROPE NV Zandvoordestraat 300, B-8400 Oostende

Internet <http://www.daikin.be>



TABLE OF CONTENTS

FVK/FVX-KZ

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	12
	Standard accessories	
	Optional accessories	
8	Control systems	13
9	Installation	14

* For capacity tables, please refer to the outdoor units concerned





1 Features

- Lightweight and compact
- 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).
- 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 vertical airflow director ensures uniform airflow and temperature distribution.
- Choice between right, left or frontal air discharge.
- The movement sensor reduces power consumption in unoccupied rooms
- The home leave operation saves energy during absence.
- Powerful mode can be selected for rapid cooling or heating
- Air purification filter:
 - deodorises the air
 - helps to prevent bacterial and viral propagation
- Washable front panel
- The remote control has a 24 hour timer
- The indoor unit 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



Optional



FVX



FVK



5 steps





2 Specifications

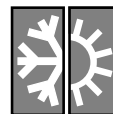
NOMINAL CAPACITY and NOMINAL INPUT				
For indoor units only:				
INDOOR UNITS			FVK25KZV1B	FVK35KZV1B
NOMINAL INPUT	Cooling	kW	0.029	0.032

For combination indoor units + outdoor units:						
INDOOR UNITS				FVK25KZV1B		FVK35KZV1B
OUTDOOR UNITS				RKD25KZV1B		RKD35KZV1B
NOMINAL CAPACITY (2)	Cooling (1)	min.~nom.~max.	kW	1.0~2.5~3.0		1.0~3.5~3.7
NOMINAL INPUT	Cooling	min.~nom.~max.	kW	0.24~0.63~0.925		0.24~1.13~1.3

2

TECHNICAL SPECIFICATIONS					
For indoor units only:					
INDOOR UNITS				FVK25KZV1B	FVK35KZV1B
DIMENSIONS	Unit	H	mm	600	600
		W	mm	650	650
		D	mm	195	195
WEIGHT	Unit	kg		13	13
COLOUR	Unit			Almond white	
SOUND LEVEL	Sound pressure (3)	high	dBA	38	39
		low	dBA	26	26
	Sound power (4)		dBA	50	51
FAN	Air flow rate	high	m ³ /min	8.1	8.3
		medium	m ³ /min	6.2	6.3
		low	m ³ /min	4.3	4.3
	Speed	steps		5 steps & auto	
		high (upper)	rpm	1,100	1,120
		high (lower)	rpm	1,180	1,200
		low (upper)	rpm	700	720
		low (lower)	rpm	750	750
	Type			Cross flow fan	
	Qty x model (upper/lower)			1 x D14A-34/1 x D14B-34	1 x D14A-34/1 x 14B-34
	Qty x motor output (upper/lower)		W	14/14	14/14
HEAT EXCHANGER	Type			φ 7 Hi-XA tube	
	Rows x stages x fin pitch	mm		2 x 24 x 1.5	2 x 24 x 1.5
	Face area	m ²		-	-
AIR FILTER				Removable/washable/mildew proof	
AIR DIRECTION CONTROL				Right, left, horizontal and upwards	
TEMPERATURE CONTROL				Microcomputer control	
PIPING CONNECTIONS	liquid	mm		φ6.4	φ6.4
	gas	mm		φ9.5	φ12.7
	Drain	mm		φ20	φ20
INSULATION MATERIAL	Heat insulation			Both liquid and gas pipes	

For outdoor units	Pair application	See chapter RKD-KZ
-------------------	------------------	--------------------



2 Specifications

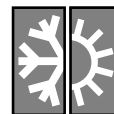
ELECTRICAL SPECIFICATIONS					
For indoor units only:				FVK25KZV1B	FVK35KZV1B
CURRENT	Nominal running current	cooling	A	3.2	5.3

For combination indoor units + outdoor units:				FVK25KZV1B	FVK35KZV1B
				RKD25KZV1B	RKD35KZV1B
CURRENT	Nominal running current	cooling	A	0.13	0.14
	Maximum running current	cooling	A	-	-

For indoor units only:				FVK25KZV1B	FVK35KZV1B
POWER SUPPLY				V1	V1
NOMINAL DISTRIBUTION SYSTEM VOLTAGE	Phase			1~	1~
	Frequency		Hz	50	50
	Voltage		V	230	230

NOTES

- Nominal cooling capacities are based on: indoor temperature 27°CDB/19°CWB * outdoor temperature 35°CDB/24°CWB * refrigerant piping length: 7.5m
- Capacities are net, including a deduction for cooling for indoor fan motor heat.
- The sound pressure level is measured via a microphone at a certain distance from the unit. It is a relative value, depending on the distance and acoustic environment. (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.



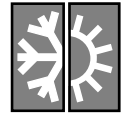
2 Specifications

NOMINAL CAPACITY and NOMINAL INPUT				
For indoor units only:				
INDOOR UNITS			FVX25KZV1B	FVX35KZV1B
NOMINAL INPUT	Cooling	kW	0.032	0.034
	Heating	kW	0.032	0.034

For combination indoor units + outdoor units:				
INDOOR UNITS			FVX25KZV1B	FVX35KZV1B
OUTDOOR UNITS			RXD25KZV1B	RXD35KZV1B
NOMINAL CAPACITY (3-4)	Cooling (1) (rated)	min.~nom.~max. kW	1.0~2.5~3.0	1.0~3.5~3.7
	Heating (2) (rated)	min.~nom.~max. kW	1.0~3.4~5.0	1.0~4.5~5.8
NOMINAL INPUT	Cooling (rated)	min.~nom.~max. W	0.24~0.63~0.925	0.24~1.13~1.3
	Heating (rated)	min.~nom.~max. W	0.24~0.83~1.43	0.24~1.28~1.83

TECHNICAL SPECIFICATIONS					
For indoor units only:					
INDOOR UNITS				FVX25KZV1B	FVX35KZV1B
DIMENSIONS	Unit	H	mm	600	600
		W	mm	650	650
		D	mm	195	195
WEIGHT	Unit	kg	13	13	
COLOUR	Unit	Almond white			
SOUND LEVEL	Sound pressure (cooling/heating) (5)	high	dBA	38/38	39/39
		low	dBA	26/26	26/26
	Sound power (cooling/heating) (6)		dBA	50/50	51/51
FAN	Air flow rate (cooling/heating)	high	m³/min	8.1/9.2	8.3/9.2
		medium	m³/min	6.2/7.0	6.3/7.1
		low	m³/min	4.3/4.8	4.3/5.0
	Speed	steps		5 steps & auto	
		high (upper)	rpm	1,100	1,120
		high (lower)	rpm	1,180	1,200
		low (upper)	rpm	700	720
		low (lower)	rpm	750	750
		Type		Cross flow fan	
	Qty x model (upper/lower)		1 x D14A-34/1 x D14B-34		
	Qty x motor output (upper/lower)		W	14/14	14/14
	HEAT EXCHANGER	Type		ϕ 7 Hi-XA tube	
		Rows x stages x fin pitch		mm	2 x 20 x 1.3
Face area		m²	-	-	
AIR FILTER			Removable/washable/mildew proof		
AIR DIRECTION CONTROL			Right, left, horizontal and upwards		
TEMPERATURE CONTROL			Microcomputer control		
PIPING CONNECTIONS		liquid	mm	ϕ6.4	ϕ6.4
		gas	mm	ϕ9.5	ϕ12.7
		Drain	mm	ϕ20	ϕ20
INSULATION MATERIAL	Heat insulation		Both liquid and gas pipes		

For outdoor units	Pair application	See chapter RXD-KZ
-------------------	------------------	--------------------



2 Specifications

ELECTRICAL SPECIFICATIONS					
For indoor units only:				FVX25KZV1B	FVX35KZV1B
CURRENT	Nominal running current	cooling	A	3.2	5.3
		heating	A	3.2	5.6

For combination indoor units + outdoor units:				FVX25KZV1B	FVX35KZV1B
				RXD25KZV1B	RXD35KZV1B
CURRENT	Nominal running current	cooling	A	0.14	0.15
		heating	A	0.14	0.15
	Maximum running current	cooling	A	-	-
		heating	A	-	-

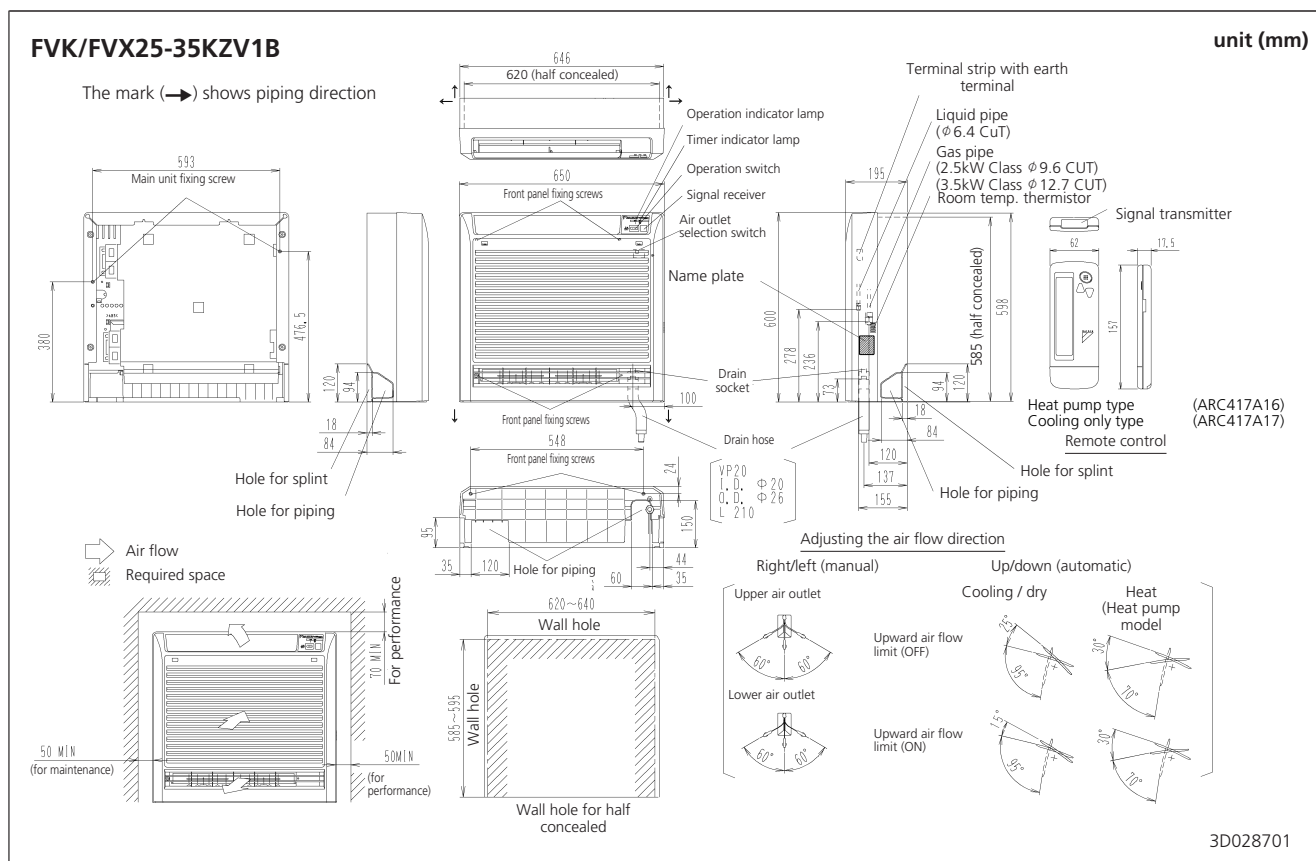
For indoor units only:				FVX25KZV1B	FVX35KZV1B
POWER SUPPLY				V1	V1
NOMINAL DISTRIBUTION SYSTEM VOLTAGE	Phase			1~	1~
	Frequency		Hz	50	50
	Voltage		V	230	230

NOTES

- Nominal cooling capacities are based on: indoor temperature 27°CDB/19°CWB * outdoor temperature 35°CDB/24°CWB * refrigerant piping length: 7.5m
- Nominal heating capacities are based on: indoor temperature: 20°CDB* outdoor temperature: 7°CDB/6°CWB * equivalent 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.
- 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. It is a relative value, depending on the distance and acoustic environment. (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.



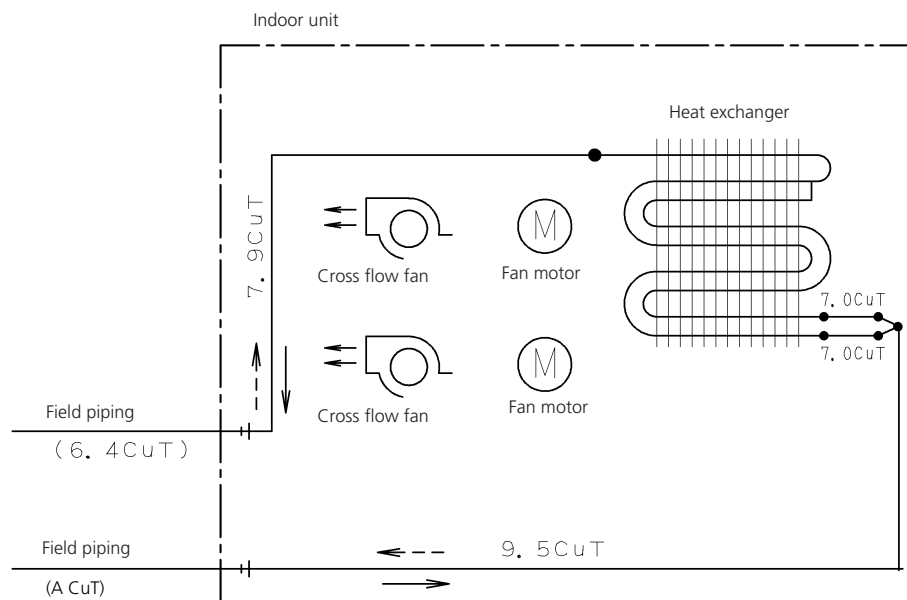
3 Dimensional drawings





4 Piping diagrams

FVK/FVX25-35KZV1B



Note:

1. Gas pipe specification

	A
FVK/FVX25	9.5CuT
FVK/FVX35	12.7CuT

Refrigerant flow

..... Cooling

———— Heating

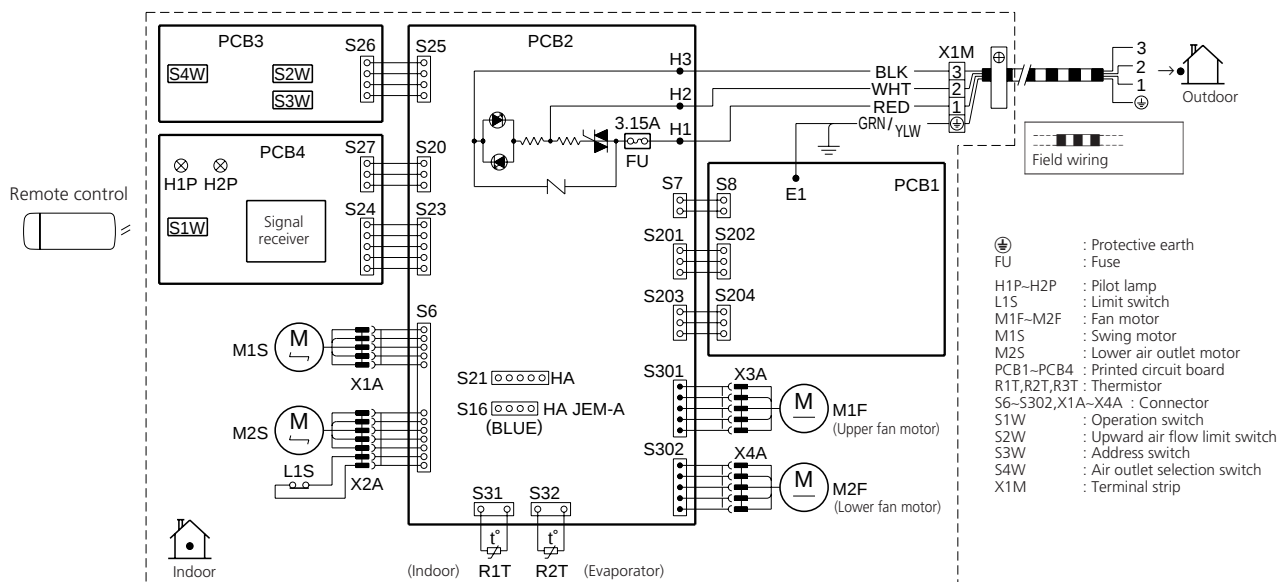
4D028914



5 Wiring diagrams

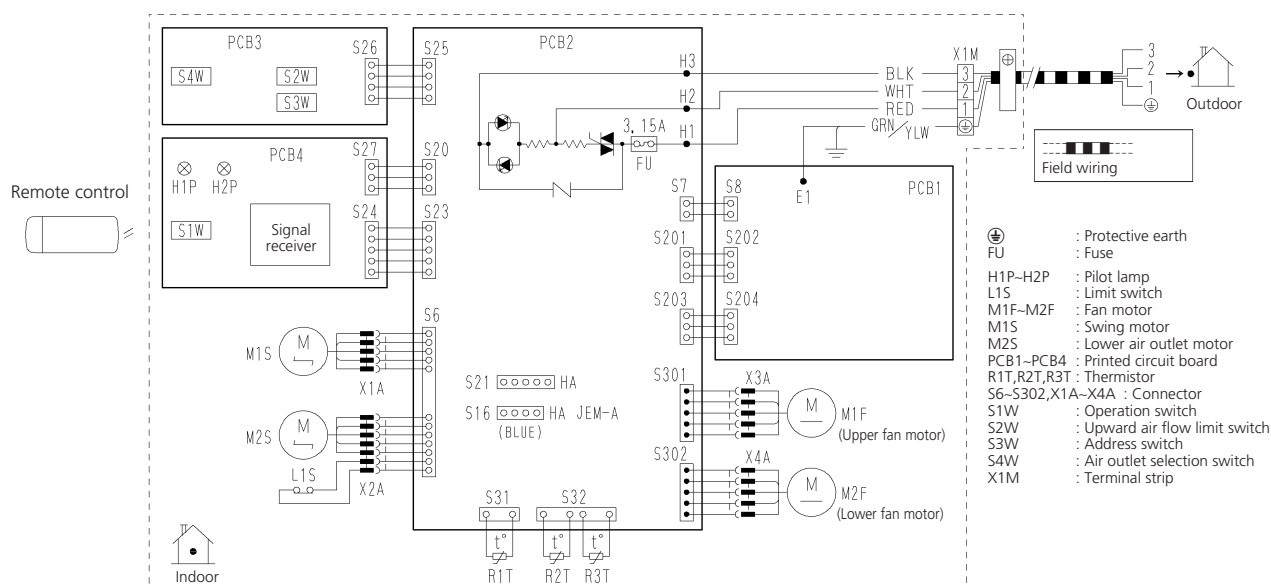
5

FVK25-35KZ



3D019973B

FVX25-35KZ



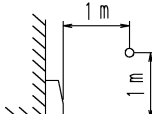
3D028913



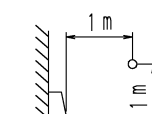
6 Sound level

6-1 Sound level data

Cooling only

Model	Sound pressure level		Measuring location	Sound power level
	230V			
	50Hz			
	H	L		
FVK25KZ	38	26		50
FVK35KZ	39	26		51

Heat pump

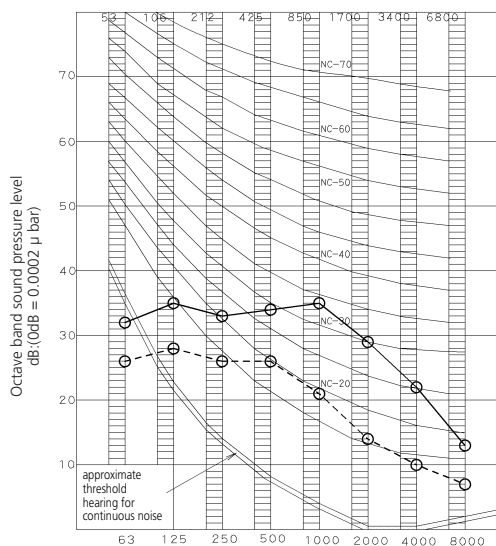
Model	Sound pressure level		Measuring location	Sound power level cooling/heating
	230V			
	50Hz			
	H cooling/heating	L cooling/heating		
FVX25KZ	38/38	26/26		50/50
FVX35KZ	39/39	26/26		51/51

6-2 Sound pressure spectrum

Cooling only

FVK25KZV1B

230V - 50Hz

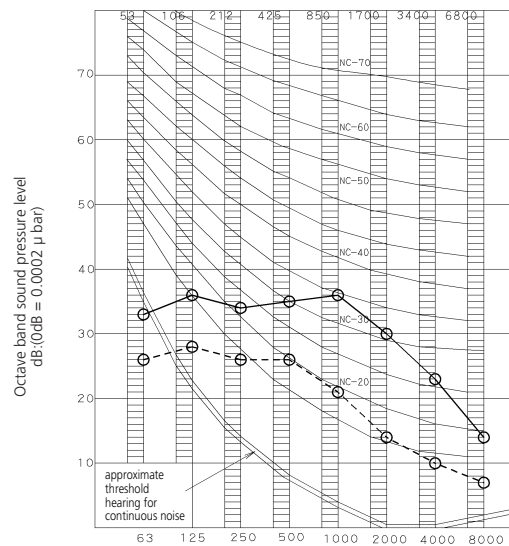


4D029997

Octave band center frequency (Hz)

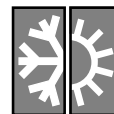
FVK35KZV1B

230V - 50Hz



4D029998

Octave band center frequency (Hz)

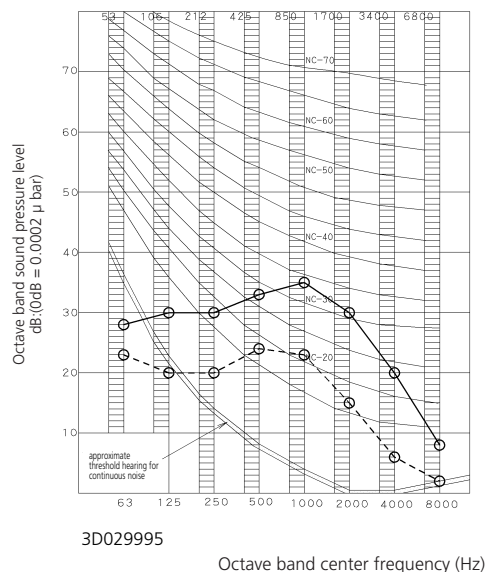


6 Sound level

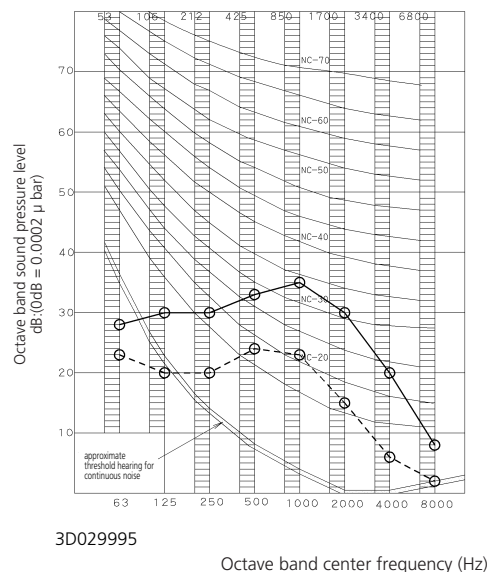
6-1 Sound level data

Heat pump

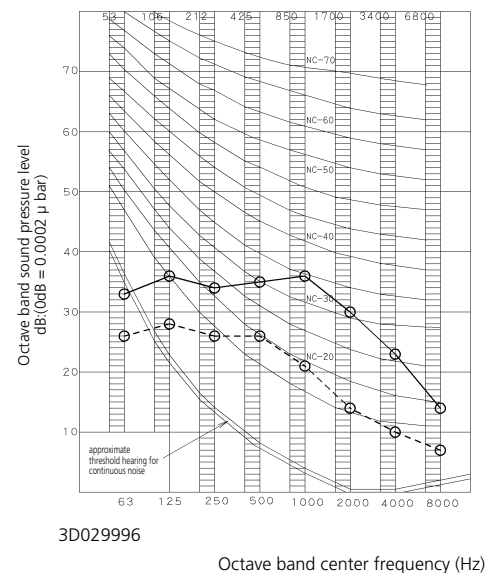
FVX25KZV1B (Cooling) 230V - 50Hz



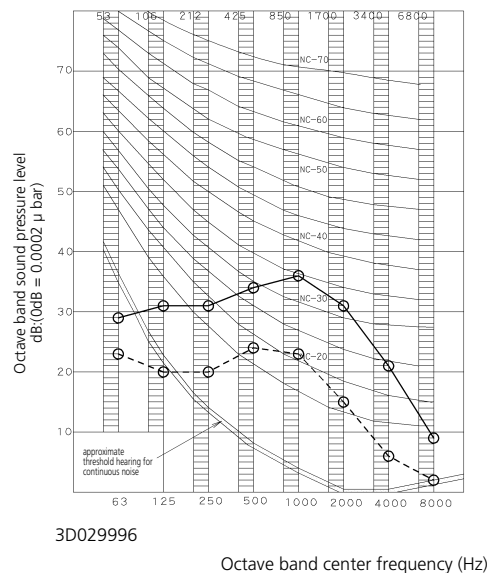
FVX25KZV1B (Heating) 230V - 50Hz



FVX35KZV1B (Cooling) 230V - 50Hz



FVX35KZV1B (Heating) 230V - 50Hz



NOTES

- 1 Operation sound is measured in an anechoic chamber.
- 2 Operation sound differs with operation and ambient conditions.
- 3 Reference acoustic pressure $OdB = 20\mu Pa$

Legend

- 50Hz 230V(H)
- 50Hz 230V(L)



7 Accessories

7-1 Standard accessories

Ⓐ Drain hose	1	Ⓕ Remote control holder	1	Ⓚ Operation manual	1
Ⓑ Protection bush	2	Ⓖ AAA dry-cell batteries	2	Ⓛ Installation manual	1
Ⓒ Heat insulation tube	1	Ⓖ Fixing screw for remote control holder M3 x 20L	2	Ⓜ Drain plug Heat pump models	1
Ⓓ Clamp material	4	Ⓛ Main unit fixing screw M4,5 x 25L	6		
Ⓔ Remote control	1	Ⓛ Air purification filters	2		

7

7-1

7-2 Optional accessories

OPTIONAL ACCESSORIES	FVK/FVX25-35KZ
Centralised control board-up to 5 rooms ※1	KRC72
Wiring adapter for time clock/remote control (※2) (normal open pulse contact/normal open contact)	KRP413A1S
Centralised remote control	DCS302B51
Unified ON/OFF control	DCS301B51
Schedule timer	DST301B51
Interface adapter for room air conditioners (DIII-NET)	KRP928A1S
Air purification filter with frame	KAF918A41
Air purification filter without frame	KAF918A42
Anti-theft protection for infrared remote control	KKF910A4

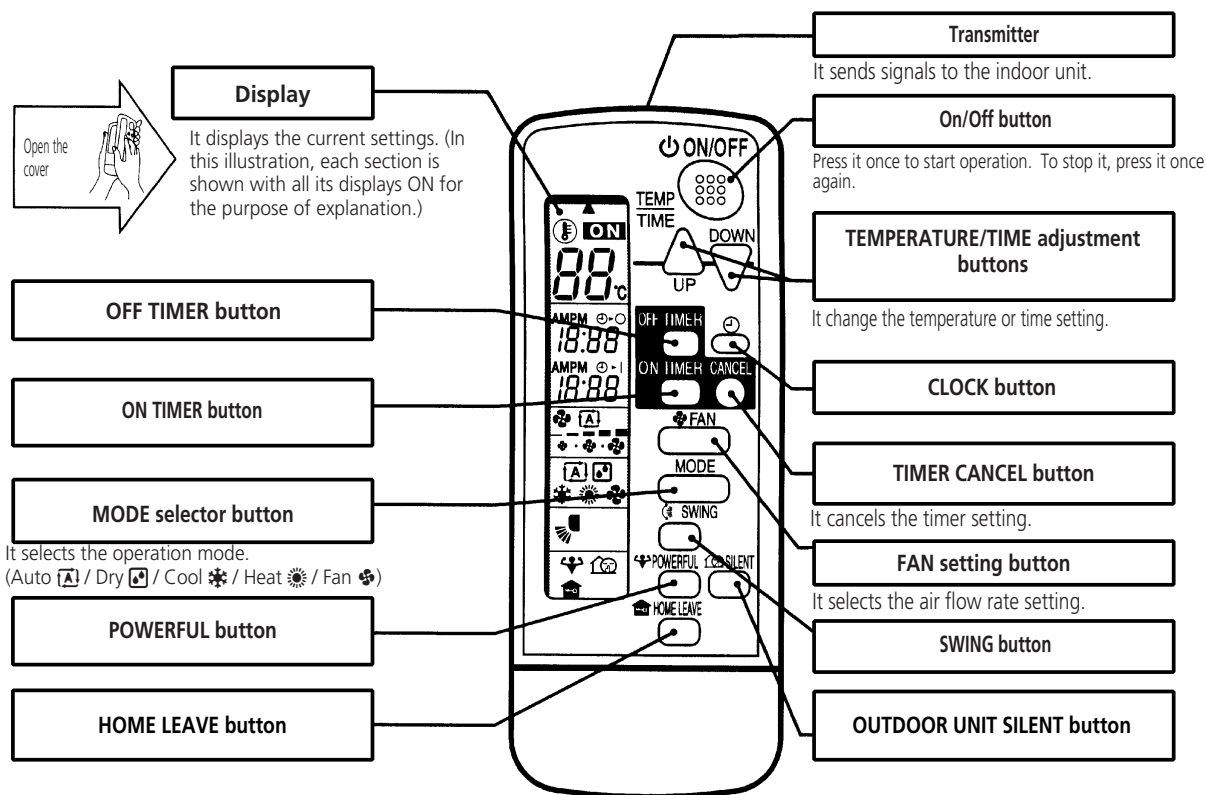
※1 Wiring adapter is also required for each indoor unit.

※2 Wiring adaptor supplied by Daikin. Time clock and other devices; field supply.



8 Control systems

FVK/FVX25-35KZV1B



<ARC417A16 • ARC417A17>



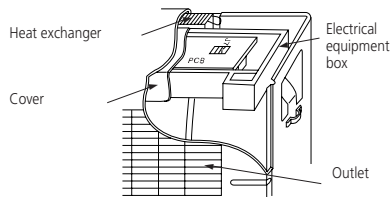
9 Installation

	Max. length	Max. height
Cooling only type	25 m	15 m
Heat pump type	20 m	15 m

9

When refrigerant pipe is 15m or more

1. Add refrigerant
Additional refrigerant amount: 20 g/m
2. Cut the jumper (J7) as below



In sites with poor drainage, use flat base for outdoor unit (or resinous base). Adjust foot height until the unit is leveled. Otherwise, water leakage or pooling of water may occur.

