

DAIKIN



TECHNICAL DATA

Split-Sky Air



FHK-BZ/FHYKP-B

**Ceiling Mounted
Corner Cassette**



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 :



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



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FHK-BZ/FHYKP-B

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For capacity tables, please refer to the outdoor units concerned





1 Features

- Specially designed for rooms with shallow ceiling voids (unit height: only 21.5cm)
- Leaves maximum floor and wall space for furniture, decoration and fittings
- Fits flush into each ceiling
- Extremely quiet in operation both indoors and outdoors
- Automatic air flow director ensures uniform airflow and temperature distribution
- Choice between downward air discharge, frontal air discharge or a combination of both
- For equal distribution in larger rooms, up to 4 indoor units can be connected to 1 outdoor. They are operated from 1 remote control.
- Up to 5 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.
- The (wired) remote control has a programmable timer
- Centralised control of several units can be achieved via 3 wired controls
 - centralised remote control
 - Unified ON/OFF control
 - Schedule timer

1



Optional



Optional



Optional



AUTO



FHYKP



FAN ONLY



2 steps



FAN ONLY



FHK



FAN ONLY



FAN ONLY



DRY



FAN ONLY



FHYKP



FAN ONLY



FHYKP



FAN ONLY

2

2 Specifications



NOMINAL CAPACITY and NOMINAL INPUT						
For indoor units only:						
INDOOR UNITS			FHK35BZV1	FHK45BZV1	FHK60BZV1	FHYKP71BV1
NOMINAL INPUT	Cooling	kW	0.092	0.1	0.123	0.123

For combination indoor units + outdoor units:						
INDOOR UNITS			FHK35BZV1	FHK45BZV1	FHK60BZV1	FHYKP71BV1
OUTDOOR UNITS			R35GZ7V11	R45GZ7V11/W11	R60GZ7W11	RP71B7V1/W1/T1
NOMINAL CAPACITY	Cooling (1)	kW	3.75	5.18	6.50	7.1
(2)						
NOMINAL INPUT	Cooling	kW	1.29	2.16/2.06	2.67	2.64/2.62/2.62

TECHNICAL SPECIFICATIONS							
INDOOR UNITS				FHK35BZV1	FHK45BZV1	FHK60BZV1	FHYKP71BV1
DIMENSIONS	Unit	H	mm	215	215	215	215
		W	mm	1,110	1,110	1,310	1,310
		D	mm	710	710	710	710
	Decoration panel	H	mm	70	70	70	70
		W	mm	1,240	1,240	1,440	1,440
		D	mm	800	800	800	800
WEIGHT	Unit	kg		30	31	33	33
	Decoration panel	kg		8.5	8.5	9.5	9.5
MATERIAL	Unit	Galvanised steel plate					
	Decoration panel	-					
COLOUR	Unit	-					
	Decoration panel	White					
SOUND LEVEL	Sound pressure (3)	high	dBA	40	40	42	42
		low	dBA	34	35	37	37
	Sound power (4)	high	dBA	50	50	52	52
		low	dBA	44	45	47	47
FAN	Air flow rate (cooling)	high	m ³ /min	12	12	17	17
		medium	m ³ /min	-	-	-	-
		low	m ³ /min	9	10	14	14
	Speed	steps		2 steps			
		high	rpm	-	-	-	-
		low	rpm	-	-	-	-
	Type	Sirocco fan					
	Qty x model			1 x 3D12H1AH1V1	1 x 3D12H1AJ1V1	1 x 4D12H1AG1V1	1 x 4D12H1AG1V1
	Qty x motor output	W		1 x 20	1 x 25	1 x 45	1 x 45
HEAT EXCHANGER	Type	Cross fin coil (Multi louver fins and N-HiX tubes)					
	Rows x stages x fin pitch	mm		2 x 11 x 1.75	3 x 11 x 1.75	3 x 11 x 1.75	3 x 11 x 1.75
	Face area	m ²		0.186	0.186	0.226	0.226
AIR FILTER				Resin net (with mold resistant)			
AIR DIRECTION CONTROL				-			
TEMPERATURE CONTROL				-			
PIPING CONNECTIONS	liquid	mm		φ6.4	φ6.4	φ6.4	φ9.5
	gas	mm		φ12.70	φ15.9	φ15.9	φ15.9
	drain	mm		VP25 (I.D.φ25)	VP25 (I.D.φ25)	VP25 (I.D.φ25)	VP25 (I.D.φ25)
	drain	mm		VP25 (O.D.φ32)	VP25 (O.D.φ32)	VP25 (O.D.φ32)	VP25 (O.D.φ32)
INSULATION MATERIAL	Heat insulation	Foamed polystyrene / Foamed polyethylene					

For indoor units only:	Pair application	See chapter R-GZ7/RP-B7
	Multi model application	See chapter MA-GZ7

2 Specifications



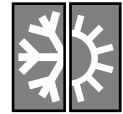
ELECTRICAL SPECIFICATIONS							
For indoor units only:				FHK35BZV1	FHK45BZV1	FHK60BZV1	FHYKP71BV1
CURRENT	Nominal running current	cooling	A	-	-	-	-

For combination indoor units + outdoor units:				FHK35BZV1 R35GZ7V11	FHK45BZV1 R45GZ7V11/W11	FHK60BZV1 R60GZ7W11	FHYKP71BV1 RP71B7V1/W1/T1
CURRENT	Nominal running current	cooling	A	6.4	10.8/3.98	5.6/6.35	-
	Maximum running current	cooling	A	-	-	6.8/7.7	-
	Starting current	cooling	A	33.5	48/16	26	-

For indoor units only:				FHK35BZV1	FHK45BZV1	FHK60BZV1	FHYKP71BV1
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	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 * level difference 0m.
- 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

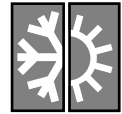
NOMINAL CAPACITY and NOMINAL INPUT						
For indoor units only:						
INDOOR UNITS			FHYKP35BV1	FHYKP45BV1	FHYKP60BV1	FHYKP71BV1
NOMINAL INPUT	Cooling	kW	0.092	0.1	0.123	0.123
	Heating	kW	0.059	0.067	0.09	0.09

For combination indoor units + outdoor units:						
INDOOR UNITS			FHYKP35BV1	FHYKP45BV1	FHYKP60BV1	FHYKP71BV1
OUTDOOR UNITS			-	-	-	RYP71B7V1/W1
NOMINAL CAPACITY (3)	Cooling (1)	kW	Twin/triple/double twin application only			7.1
	Heating (2)	kW				7.7
NOMINAL INPUT	Cooling	kW				2.64
	Heating	kW				2.68

TECHNICAL SPECIFICATIONS							
INDOOR UNITS				FHYKP35BV1	FHYKP45BV1	FHYKP60BV1	FHYKP71BV1
DIMENSIONS	Unit	H	mm	215	215	215	215
		W	mm	1,110	1,110	1,310	1,310
		D	mm	710	710	710	710
	Decoration panel	H	mm	70	70	70	70
		W	mm	1,240	1,240	1,440	1,440
		D	mm	800	800	800	800
WEIGHT	Unit	kg		30	31	33	33
	Decoration panel	kg		8.5	8.5	9.5	9.5
MATERIAL	Unit	Galvanised steel plate					
	Decoration panel	-					
COLOUR	Unit	-					
	Decoration panel	White					
SOUND LEVEL	Sound pressure (cooling/heating) (4)	high	dBA	40/40	40/40	42/42	42/42
		low	dBA	34/34	35/35	37/37	37/37
	Sound power (cooling/heating) (5)	high	dBA	50/50	50/50	52/52	52/52
		low	dBA	44/44	45/45	47/47	47/47
FAN	Air flow rate (cooling/heating)	high	m ³ /min	12/12	12/12	17/17	17/17
		medium	m ³ /min	-	-	-	-
		low	m ³ /min	9/9	10/10	14/14	14/14
	Speed (cooling/heating)	steps		2 steps			
		high	rpm	-	-	-	-
		low	rpm	-	-	-	-
	Type	Sirocco fan					
	Qty x model			1 x 3D12H1AH1V1	1 x 3D12H1AJ1V1	1 x 4D12H1AG1V1	1 x 4D12H1AG1V1
HEAT EXCHANGER	Qty x motor output	W		1 x 20	1 x 25	1 x 45	1 x 45
	Type	Cross fin coil (Multi louver fins and N-HiX tubes)					
	Rows x stages x fin pitch	mm		2 x 11 x 1.75	3 x 11 x 1.75	3 x 11 x 1.75	3 x 11 x 1.75
AIR FILTER	Face area	m ²		0.186	0.186	0.226	0.226
	Resin net (with mold resistant)						
AIR DIRECTION CONTROL				-			
TEMPERATURE CONTROL				-			
PIPING CONNECTIONS	liquid	mm		φ6.4	φ6.4	φ9.5	φ9.5
	gas	mm		φ12.7	φ12.7	φ15.9	φ15.9
	drain	mm		VP25 (I.D.φ25)	VP25 (I.D.φ25)	VP25 (I.D.φ25)	VP25 (I.D.φ25)
	drain	mm		VP25 (O.D.φ32)	VP25 (O.D.φ32)	VP25 (O.D.φ32)	VP25 (O.D.φ32)
INSULATION MATERIAL	Heat insulation	Foamed polystyrene / Foamed polyethylene					

For indoor units only:	Pair application	-	See chapter RY-EA77/RYP-B7
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2 Specifications



ELECTRICAL SPECIFICATIONS							
For indoor units only:				FHYKP35BV1	FHYKP45BV1	FHYKP60BV1	FHYKP71BV1
CURRENT	Nominal running current	Cooling	A	-	-	-	-
		Heating	A	-	-	-	-

For combination indoor units + outdoor units:				FHYKP35BV1	FHYKP45BV1	FHYKP60BV1	FHYKP71BV1
				-	-	-	RYP71B7V1/W1
CURRENT	Nominal running current	Cooling	A	Twin/Triple/Double Twin Application			-
		Heating	A				-
	Maximum running current	Cooling	A				-
		Heating	A				-

For indoor units only:				FHYKP35BV1	FHYKP45BV1	FHYKP60BV1	FHYKP71BV1
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	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
- 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 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.



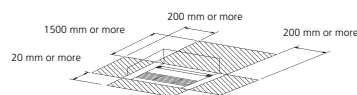
3 Dimensional drawings

unit (mm)

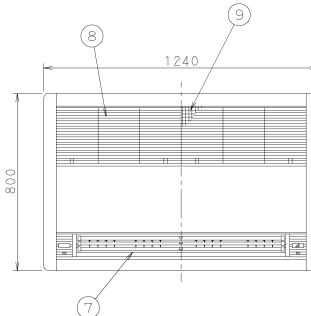
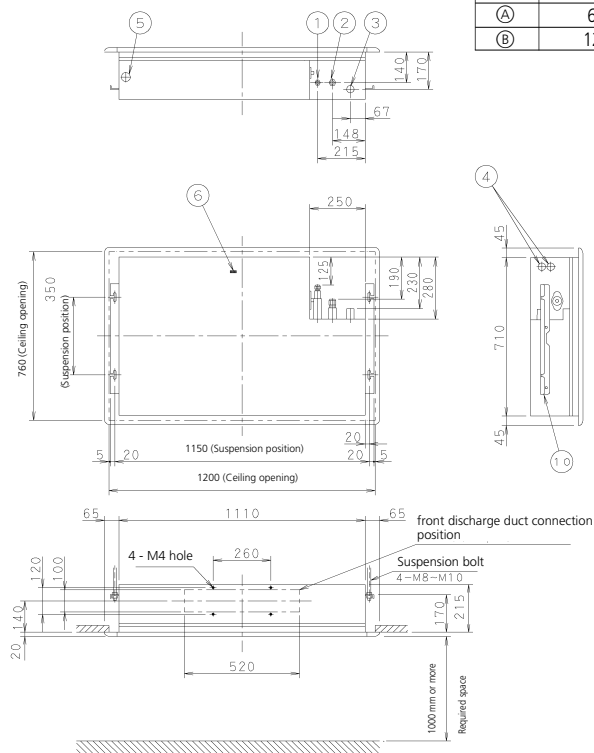
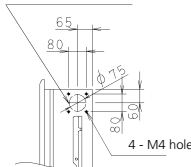
FHK35-45BZ FHYKP35-45B

Model	FHK35BZ FHYKP35-45B	FHK45BZ
①	6.4	6.4
②	12.7	15.9

Required space



Fresh air intake position



Notes:

1. Location of unit's name plate
 - For main body: bottom part of fan housing inside of air discharge
 - For decoration panel: service lid face inside of air suction grille

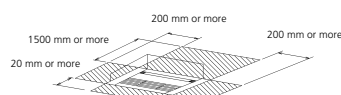
- 1 Liquid pipe connection - flare ①
- 2 Gas pipe connection - flare ②
- 3 Drain pipe connection V.P.25
- 4 Wire intake
- 5 Wire intake for remote control cord
- 6 Grounding terminal (M4 in switch box)
- 7 Air discharge grille
- 8 Air suction grille
- 9 Long life air filter
- 10 Suspension bracket

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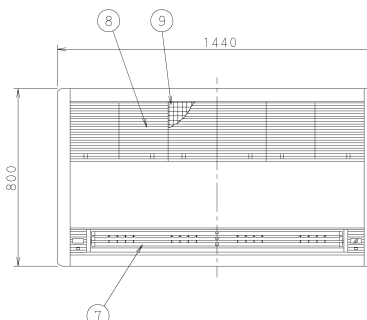
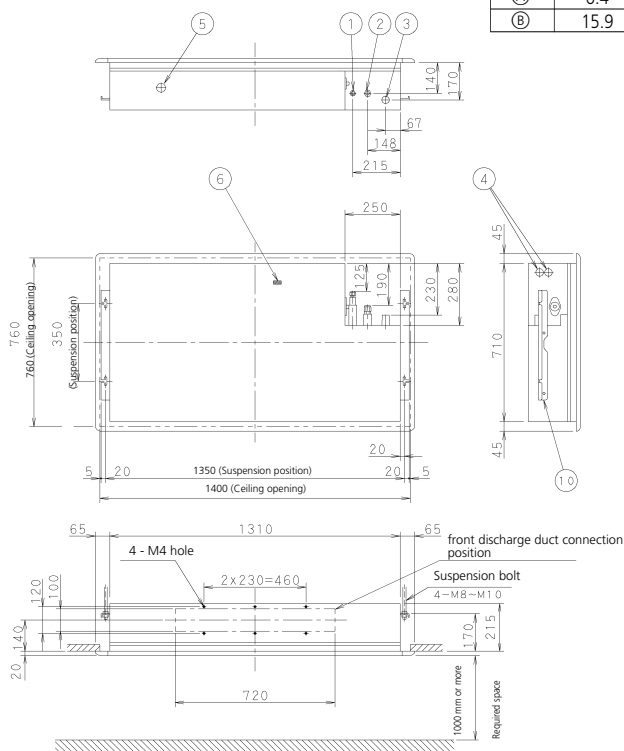
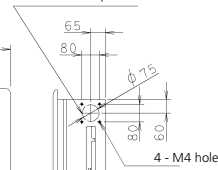
FHK60BZ FHYKP60-71B

Model	FHK60BZ	FHYKP60-71B
①	6.4	9.5
②	15.9	15.9

Required space



Fresh air intake position



Notes:

1. Location of unit's name plate
 - For main body: bottom part of fan housing inside of air discharge
 - For decoration panel: service lid face inside of air suction grille

- 1 Liquid pipe connection - flare ①
- 2 Gas pipe connection - flare ②
- 3 Drain pipe connection V.P.25
- 4 Wire intake
- 5 Wire intake for remote control cord
- 6 Grounding terminal (M4 in switch box)
- 7 Air discharge grille
- 8 Air suction grille
- 9 Long life air filter
- 10 Suspension bracket

3D027408

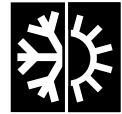


4 Piping diagrams

FHK35-60BZ
FHYKP35-71B

Model	Gas	Liquid
FHYKP35-45BV1 FHK35BZV1	6.4	12.7
FHK45-60BZV1	6.4	15.9
FHYKP60-71BV1	9.5	15.9

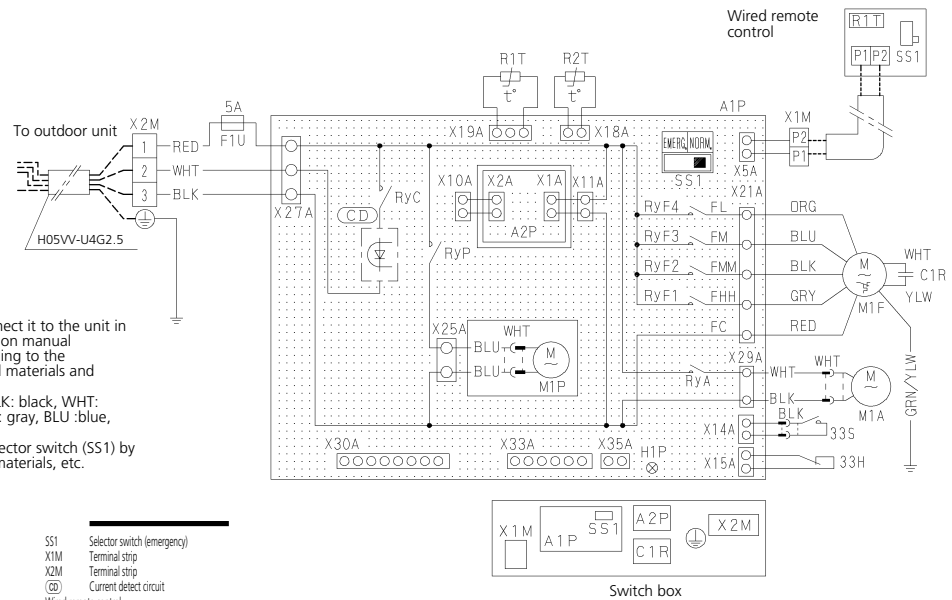
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5 Wiring diagrams

FHK35-60BZ

- Terminal
Connector
Field wiring
Protective earth (screw)
- Field wiring
- In case of using central remocon, connect it to the unit in accordance with the attached instruction manual
- Remote controller model varies according to the combination system, confirm technical materials and catalogs, etc. before connecting.
- Symbols show as follows: RED: red, BLK: black, WHT: white, YLW: yellow, GRN: green, GRY: gray, BLU :blue, ORG: orange
- Confirm the method of setting the selector switch (SS1) by installation manual and engineering materials, etc.

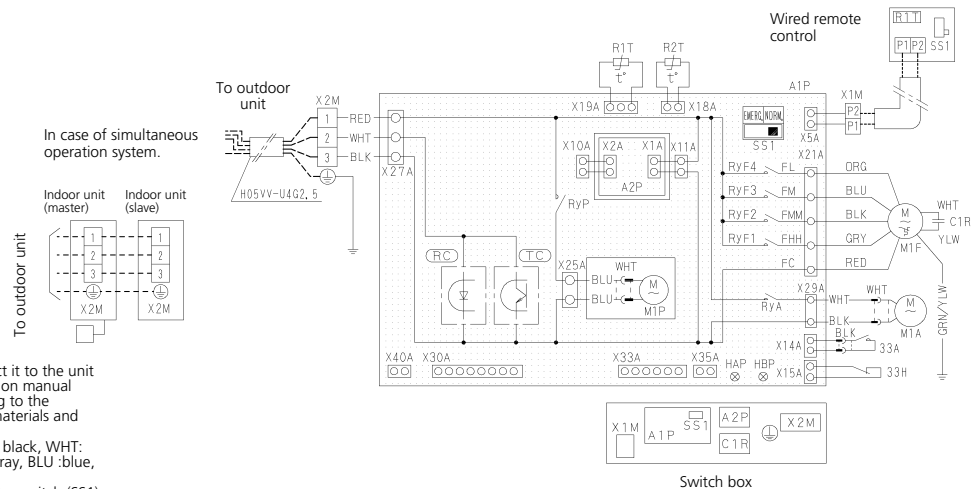


- | | | |
|-------------------------|------|--|
| 1-RED, 2-WHITE, 3-BLACK | SS1 | Selector switch (emergency) |
| 33H | X1M | Terminal strip |
| 33S | X2M | Terminal strip |
| A1P | (CD) | Current detect circuit |
| A2P | | Wired remote control |
| C1R | R1T | Thermistor (air) |
| F1U | SS1 | Selector switch (main/sub) |
| H1P | | Connector for optional parts |
| M1A | X30A | Connector (interface adaptor for sky air series) |
| M1F | X33A | Connector (adaptor for wiring) |
| M1P | X35A | Connector (group control adaptor) |
| Q1F | | |
| R1T | | |
| R2T | | |
| RyF1-4 | | |
| RyA | | |
| RyC | | |
| RyP | | |

DU423-5176B

FHYKP35-71B

- Terminal
Connector
Field wiring
Protective earth (screw)
- Field wiring
- In case of using central remocon, connect it to the unit in accordance with the attached instruction manual
- Remote controller model varies according to the combination system, confirm technical materials and catalogs, etc. before connecting.
- Symbols show as follows: RED: red, BLK: black, WHT: white, YLW: yellow, GRN: green, GRY: gray, BLU :blue, ORG: orange
- Confirm the method of setting the selector switch (SS1) by installation manual and engineering materials, etc.



- | | | | | | |
|-------------------------|--------|------------------------------|----------------------|--|---------------------------------------|
| 1-RED, 2-WHITE, 3-BLACK | Q1F | Thermo switch (M1F embedded) | Wired remote control | | |
| 33A | R1T | Thermistor (air) | R1T | Thermistor (air) | |
| 33H | R2T | Thermistor (coil) | SS1 | Selector switch (main/sub) | |
| A1P | RyA | Magnetic relay (M1A) | | Connector for optional parts | |
| A2P | RyF1-4 | Magnetic relay (M1F) | | Connector (interface adaptor for sky air series) | |
| | RyP | Magnetic relay (M1P) | | X30A | Connector (adaptor for wiring) |
| C1R | SS1 | Selector switch (emergency) | | X33A | Connector (group control adaptor) |
| HAP | X1M | Terminal strip | | X35A | Connector (group control adaptor) |
| HBP | X2M | Terminal strip | | X40A | Connector (ON/OFF input from outside) |
| M1A | (RC) | Signal receiver circuit | | | |
| M1F | (TC) | Signal transmission circuit | | | |
| M1P | | | | | |

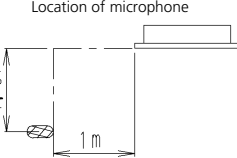
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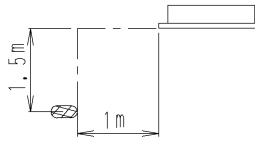
6 Sound level

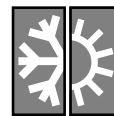
6-1 Sound level data

Cooling only

Model	Sound pressure level		Measuring location	Sound power level	
	50Hz-230V			H	L
	H	L			
	cooling	cooling		cooling	cooling
FHK35BZV1	40	34	Location of microphone 	50	44
FHK45BZV1	40	35		50	45
FHK60BZV1	42	37		52	47

Heat pump

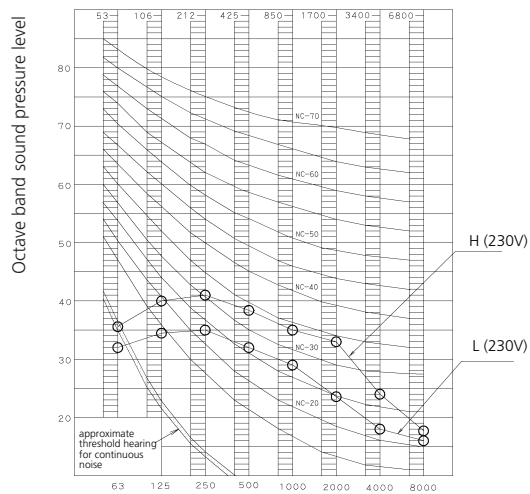
Model	Sound pressure level		Measuring location	Sound power level	
	50Hz-230V			H	L
	H	L			
	cooling/heating	cooling/heating			
FHYKP35BV1	40/40	34/34	Location of microphone 	50/50	44/44
FHYK45BV1	40/40	35/35		50/50	45/45
FHYKP60BV1	42/42	37/37		52/52	47/47
FHYKP71BV1	42/42	37/37		52/52	47/47



6 Sound level

6-2 Sound pressure spectrum

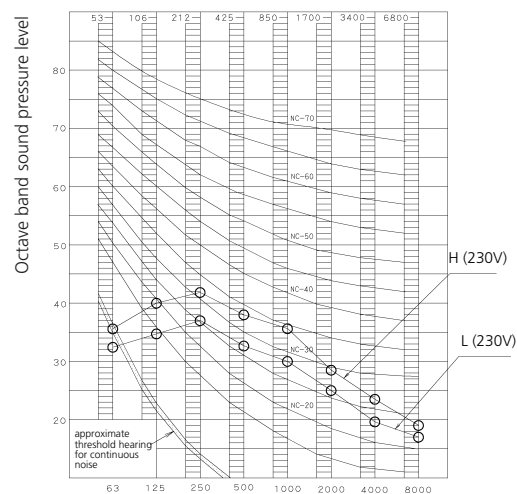
FHK35BZV1
FHYKP35BV1



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Octave band center frequency (Hz)

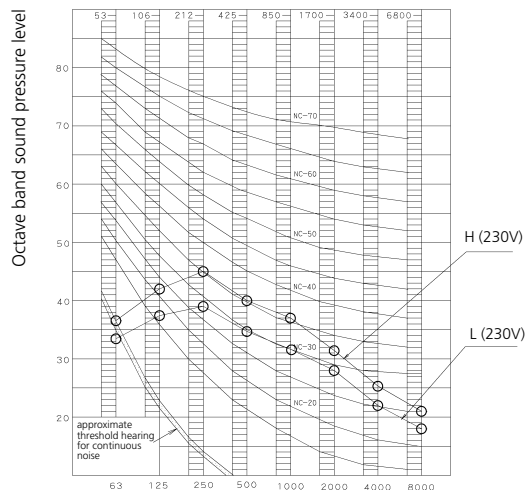
FHK45BZV1
FHYKP45BV1



4D027875

Octave band center frequency (Hz)

FHK60BZV1
FHYKP60-71BV1



4D027877

Octave band center frequency (Hz)

Note:

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

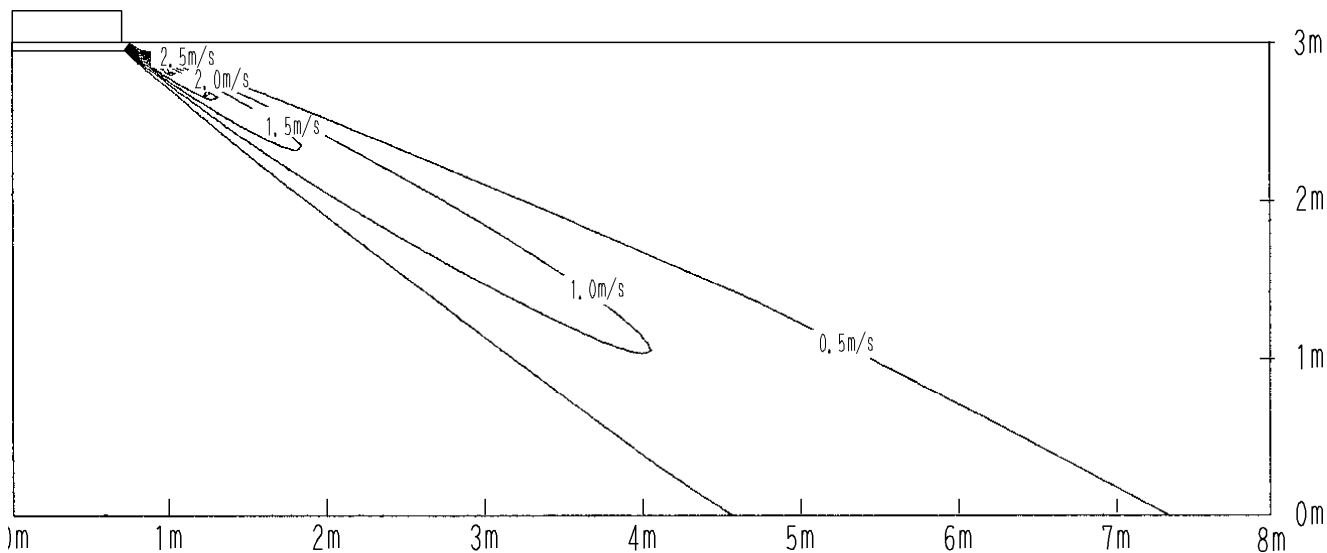


7 Air velocity and temperature distributions

FHK35-45BZV1/FHYKP35-45BV1

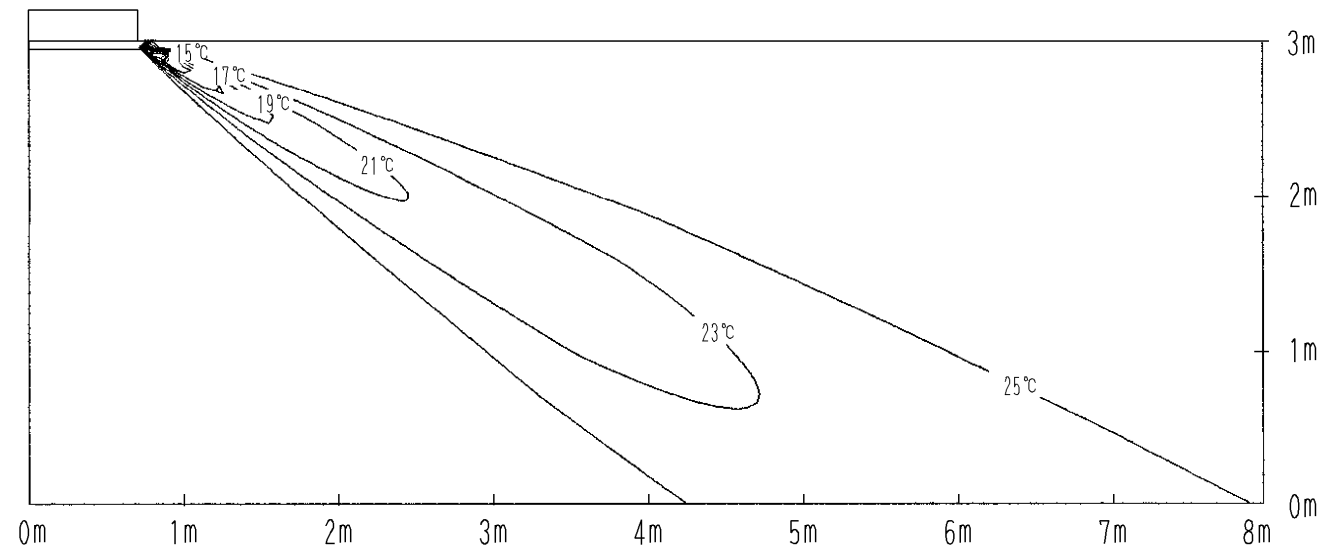
Cooling - air velocity distribution

Air flow direction: 30° (downward)

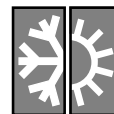


Cooling - air temperature distribution

Air flow direction: 30° (downward)



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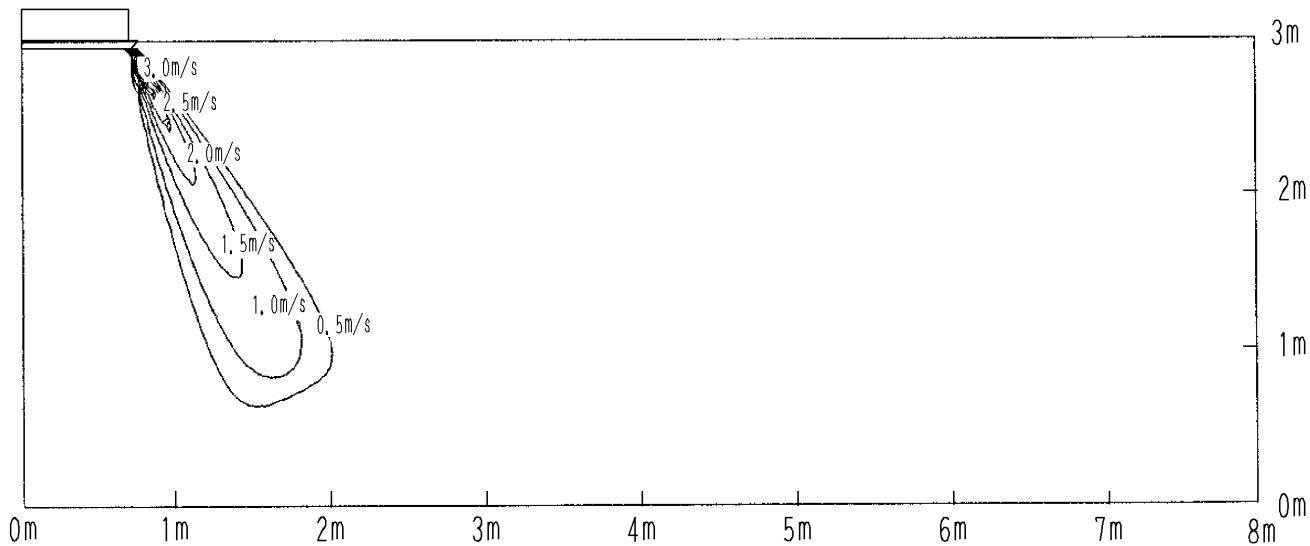


7 Air velocity and temperature distributions

FHYKP35-45BV1

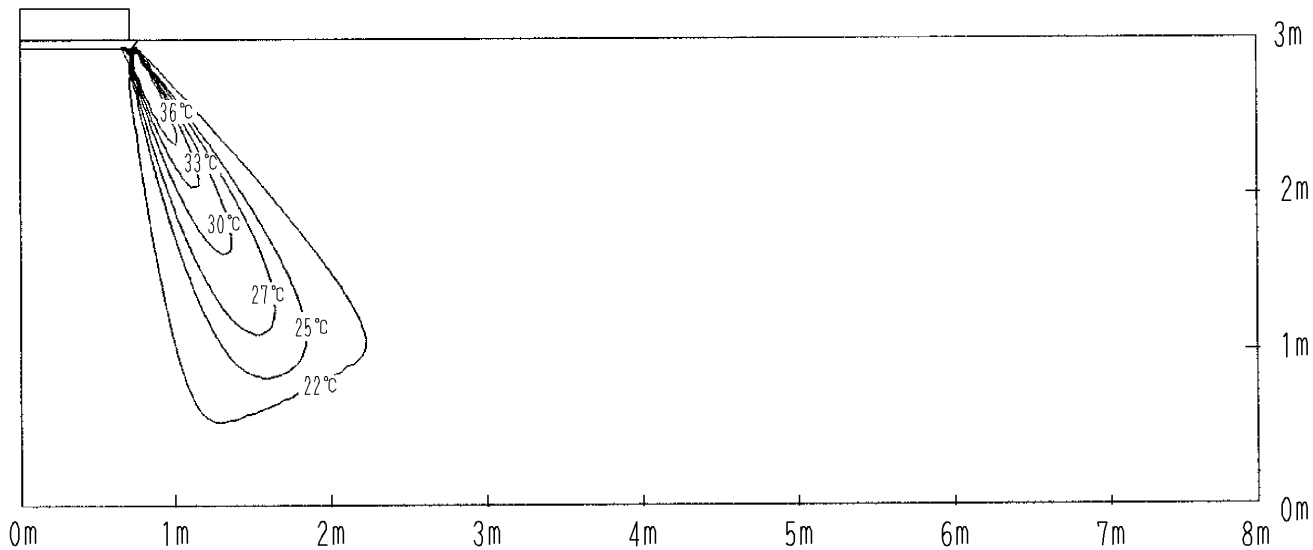
Heating - air velocity distribution

Air flow direction: 65°C (downward)



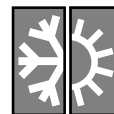
Heating - air temperature distribution

Air flow direction: 65°C (downward)



7

4D028540

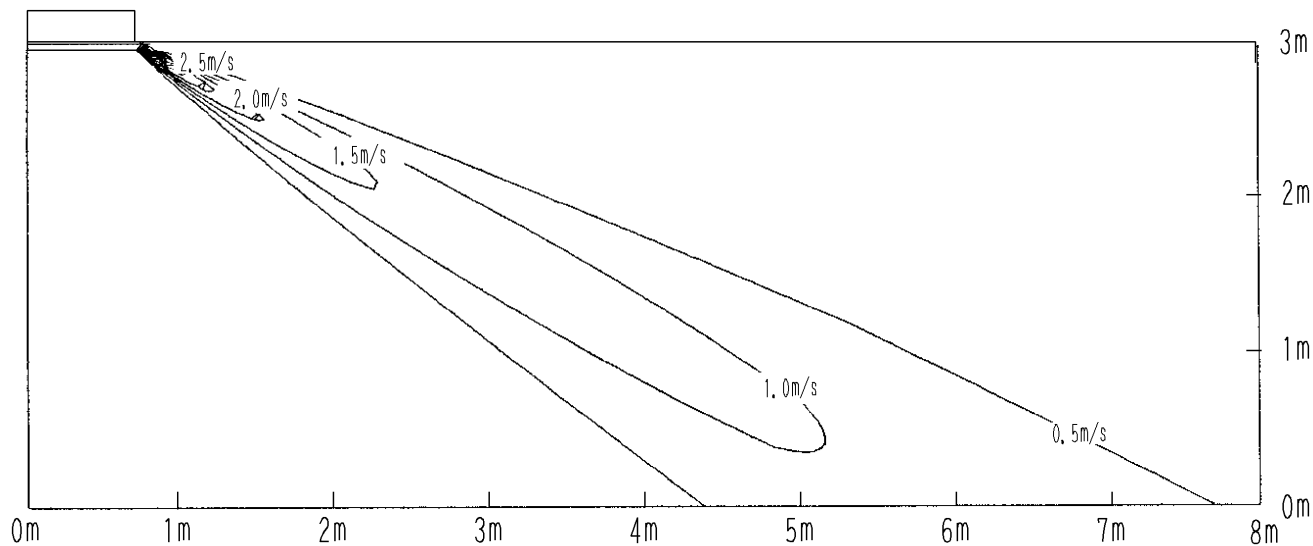


7 Air velocity and temperature distributions

FHK60BZV1/FHYKP60-71BV1

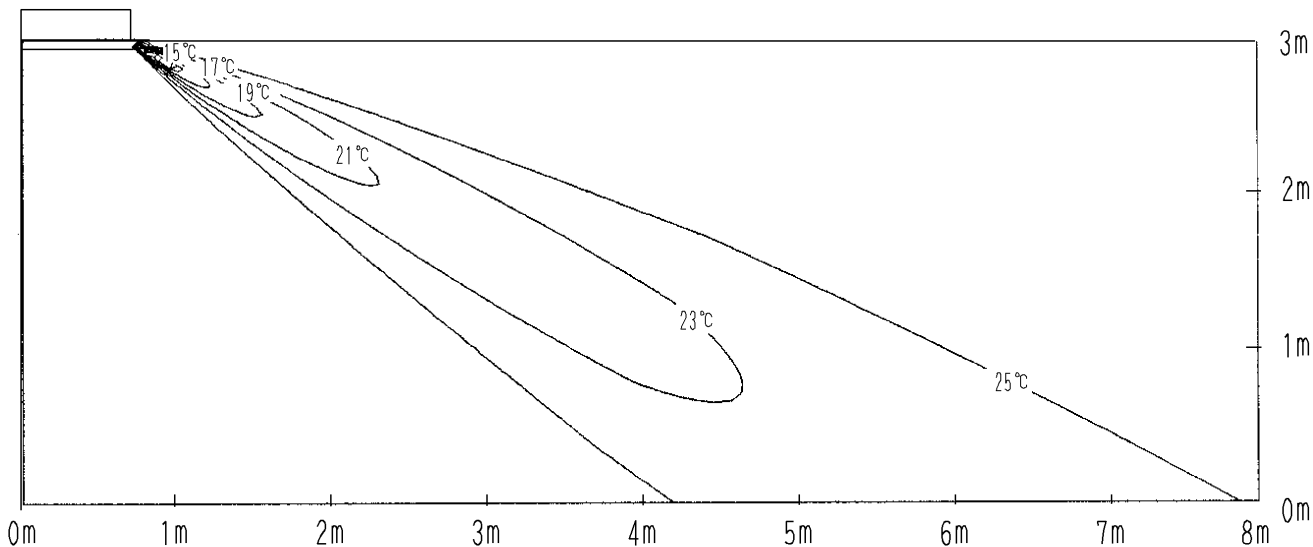
Cooling - air velocity distribution

Air flow direction: 30° (downward)

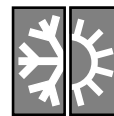


Cooling - air temperature distribution

Air flow direction: 30° (downward)



4D028543

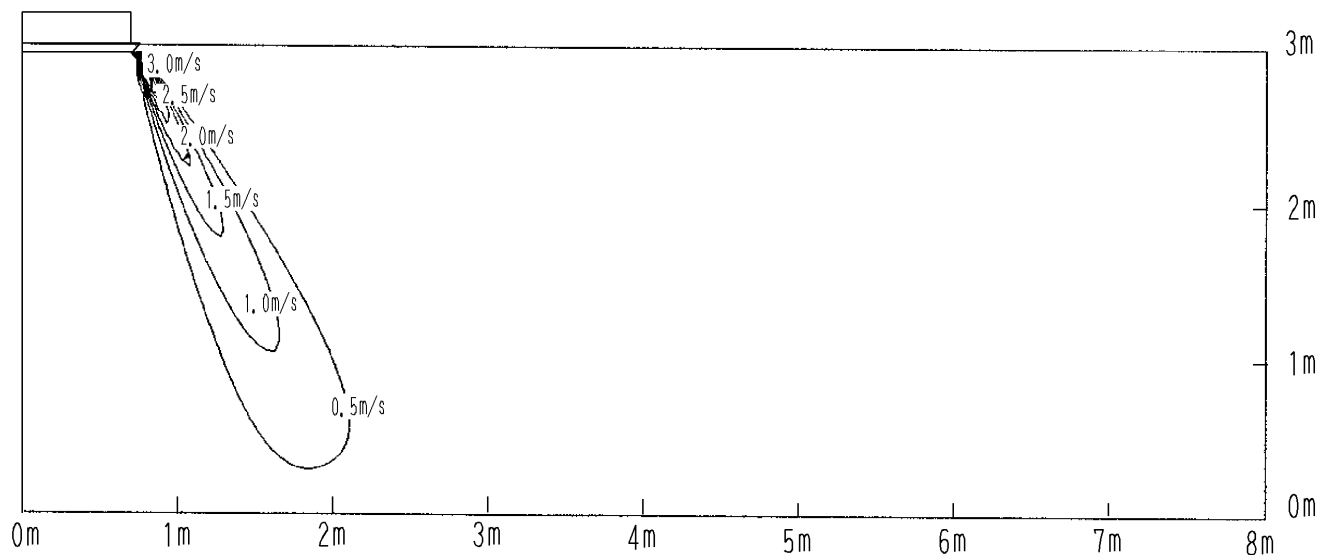


7 Air velocity and temperature distributions

FHYKP60-71BV1

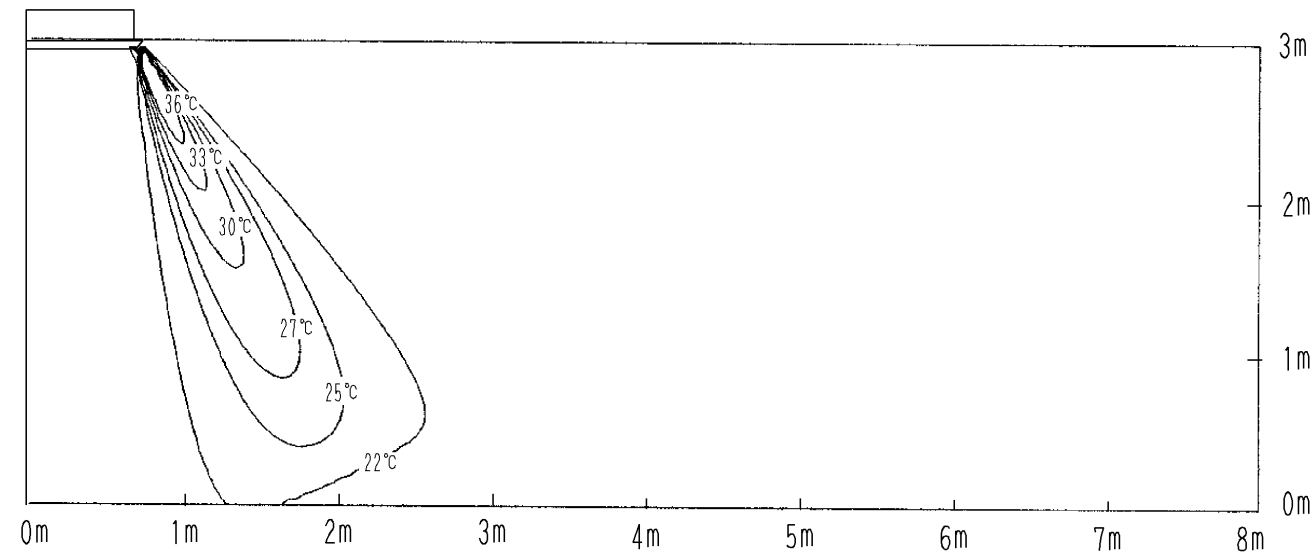
Heating - air velocity distribution

Air flow direction: 65°C (downward)



Heating - air temperature distribution

Air flow direction: 65°C (downward)



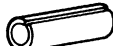
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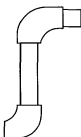
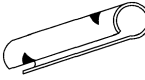
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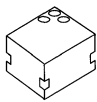
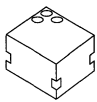


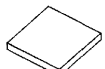
8 Accessories

8-1 Standard accessories

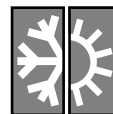
Name	① Clamp	② Paper pattern for installation	③ Drain hose	Insulation for fitting
Quantity	2 pcs.	1 pc.	1 pc.	1 of each
Shape				 ④ For gas pipe  ⑤ For liquid pipe

Name	Sealing pad	⑧ Drain raising pipe	⑨ Insulation for drain pipe
Quantity	1 of each	1 pc.	1 pc.
Shape	⑥ Large  ⑦ Small 		

Name	⑩ Installation guide	⑪ Washer for hanging bracket	⑫ Clamp
Quantity	2 each	8 pcs.	7 pcs.
Shape	  Screws x 4		

Name	⑬ Insulation for hanging bracket	⑭ Air outlet blocking pad	(Other) • Installation manual • Operation manual
Quantity	4 pcs.	1 pc.	
Shape			

- Screws for fixing panels are attached to the decoration panel.



8 Accessories

8-2 Optional accessories

Name of option		Remark	FHYKP~BV1, FHK~BZV1			
			35	45	60	71
Decoration panel			BYK45FJW1		BYK71FJW1	
Panel spacer			KPBJ52F56W		KPBJ52F80W	
Air discharge blind panel			KDBJ52F56W		KDBJ52F80W	
Replacement long-life filter	Resin net		KAFJ521F56		KAFJ521F80	
Discharge grille			KDGJ52F56W		KDGJ52F80W	
Flexible duct with shutter			KFDJ52F56		KFDJ52F80	
Remote controller	Wired type		BRC1C517			
	Infrared type	Heat pump	BRC4C61			
		Cooling only	BRC4C63			
Central remote control			DCS302B51			
Unified ON/OFF control			DCS301B51			
Schedule timer			DST301B51			
Adaptor for wiring (interlock for fresh air intake fan)			KRP1B51			
Group control adaptor			KRP4A51			
Interface adaptor for Sky Air series			DTA102A52			
Remote sensor			KRCS01-1			
Connector for forced on, forced off			EKF0F0			

DU423-9100B



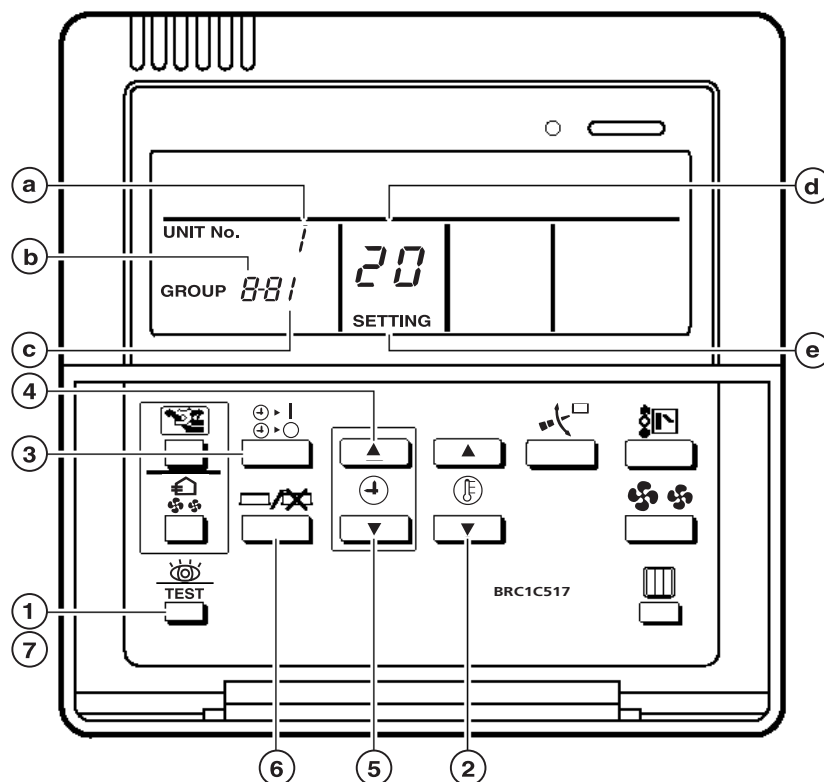
9 Control systems

9-1 Wired remote control

1

BRC1C517

Remote control



9

9-1

Field settings

- a. Unit NO
- b. First code NO
- c. Second code NO
- d. Mode NO
- e. Field set mode

Procedure

1. When in the normal mode, press the "TEST" button for a minimum of four seconds, and the FIELD SET MODE is entered.
2. Select the desired MODE NO. With the "MODE" button.
3. During group control, when setting by each indoor unit, push the "GROUP" button and select the INDOOR UNIT NO. To be set. (This operation is unnecessary when setting by group.)
4. Push the "UP" button and select FIRST CODE NO.
5. Push the "DOWN" button and select the SECOND CODE NO.
6. Push the "SET" button once and the present settings are SET.
7. Push the "TEST" button to return to the NORMAL MODE.



10 Safety device settings

Model	Safety devices	35	45	60	71
FHYKP-BV1	Fuse	–	–	–	–
	Fan motor thermal fuse (°C)	–	–	–	–
	Fan motor thermal protector (°C)	OFF: 120±5 ON: 105 or less	OFF: 120±5 ON: 105 or less	OFF: 120±5 ON: 105 or less	OFF: 120±5 ON: 105 or less

DU423-9101H

Model	Safety devices	35	45	60	71
FHK-BZV1	Fuse	250V 5A	250V 5A	250V 5A	–
	Fan motor thermal fuse (°C)	–	–	–	–
	Fan motor thermal protector (°C)	OFF: 120±5 ON: 105 or less	OFF: 120±5 ON: 105 or less	OFF: 120±5 ON: 105 or less	OFF: 120±5 ON: 105 or less

DU423-9102C



11 Installation

Names and functions of parts

- Ⓐ Indoor unit
- Ⓑ Outdoor unit
- Ⓒ Remote controller
- Ⓓ Inlet air
- Ⓔ Discharged air
- Ⓕ Air outlet
- Ⓖ Air flow flap (at air outlet)
- Ⓗ Refrigerant piping, connection electric wire
- Ⓘ Drain pipe
- Ⓢ Air inlet
- ① The built-in air filter removes dust and dirt.
- Ⓚ Ground wire
Wire to ground from the outdoor unit to prevent electrical shocks.
- ① Drain pumping out device (built-in)
Drains water removed from the room during cooling

