



# technical data

**FHQ-BU**

**Ceiling  
Suspended 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.**

Zandvoordestraat 300  
B - 8400 Ostend Belgium  
[www.daikineurope.com](http://www.daikineurope.com)



# TABLE OF CONTENTS

## FHQ-BU

1	Features .....	2
2	Specifications .....	3
	Nominal capacity, capacity steps and nominal input	
	Technical specifications	
	Electrical specifications	
3	Dimensional drawings .....	8
4	Piping diagrams .....	11
5	Wiring diagrams .....	12
6	Sound level .....	14
	Sound level data	
	Sound pressure spectrum	
7	Air flow patterns .....	16
8	Accessories .....	24
	Optional accessories	
9	Control systems .....	25
10	Safety device settings .....	25

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



# 1 Features

1

- Leaves maximum floor and wall space for furniture, decoration and fittings
- Compact casing (only 960mm width)
- Extremely quiet in operation both indoors and outdoors
- Automatic air flow director ensures uniform air flow and temperature distribution
- Air flow distribution for ceiling heights up to 3.8m without loss of capacity
- 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.
- Daikin remote controls give you easy control at your fingertips.
- The wired remote control provides you with a schedule timer, enabling to program the air conditioning daily or weekly.
- The optional remote ON/OFF enables you to start/stop the air conditioning from a mobile phone via a telephone remote control (field supply).
- The optional forced OFF enables you to switch off the unit automatically. E.g. when a window is opened, the unit switches off.
- The 'home leave' operation button prevents large temperature differences by continuously operating at a minimum (heating mode) or maximum (cooling mode) preset level while you're out or sleeping. It also allows the indoor temperature to return quickly to your favourite comfort level.



Optional



Optional



2 steps



## 2 Specifications



NOMINAL CAPACITY and NOMINAL INPUT					
For indoor units only:					
INDOOR UNITS			FHQ35BUV1B	FHQ50BUV1B	FHQ60BUV1B
NOMINAL INPUT	Cooling	kW	-	-	-
	Heating	kW	0.111		0.115

For combination indoor units + outdoor units:								
INDOOR UNITS				FHQ35BUV1B	FHQ50BUV1B	FHQ60BUV1B	FHQ50BUV1B	FHQ60BUV1B
OUTDOOR UNITS				RKS35DVMB	RKS50BVMB	RKS60BVMB	RS50BVMB	RS60BVMB
CAPACITY (3)	min.~nom.~max.	Cooling (1)	kW	1.4~3.4~3.7	0.90~5.00~5.60	0.90~5.70~6.00	5.00 (nom.)	5.70 (nom.)
INPUT	min.~nom.~max.	Cooling	kW	0.30~1.21~1.50	0.45~1.83~2.02	0.44~2.15~2.23	1.83 (nom.)	2.15 (nom.)
EER				2.81	2.73	2.65	2.73	2.65
ENERGY LABEL	Cooling			C	D	D	D	D
ANNUAL ENERGY CONSUMPTION	Cooling	kWh		605	915	1,075	915	1,075

For combination indoor units + outdoor units:								
INDOOR UNITS				FHQ35BUV1B	FHQ50BUV1B	FHQ60BUV1B		
OUTDOOR UNITS				RXS35DVMB	RXS50BVMB	RXS60BVMB		
CAPACITY (3)	min.~nom.~max.	Cooling (1)	kW	1.4~3.4~3.7	0.90~5.00~5.60	0.90~5.70~6.00		
	min.~nom.~max.	Heating (2)	kW	1.4~4.1~5.0	0.90~6.00~7.00	0.90~7.20~8.00		
INPUT	min.~nom.~max.	Cooling	kW	0.30~1.21~1.50	0.45~1.83~2.02	0.44~2.15~2.23		
	min.~nom.~max.	Heating	kW	0.29~1.18~1.62	0.36~2.05~2.45	0.40~2.49~2.75		
EER				2.81	2.73	2.65		
COP				3.47	2.93	2.89		
ENERGY LABEL	Cooling			C	D	D		
	Heating			B	D	D		
ANNUAL ENERGY CONSUMPTION	Cooling	kWh		605	915	1,075		

- Information is not available.

## 2 Specifications



2

NOMINAL CAPACITY and NOMINAL INPUT						
For indoor units only:						
INDOOR UNITS				FHQ71BUV1B	FHQ100BUV1B	FHQ125BUV1B
NOMINAL INPUT	Cooling		kW	-	-	-
	Heating		kW	0.117	0.135	0.144

For combination indoor units + outdoor units:						
INDOOR UNITS				FHQ71BUV1B	FHQ100BUV1B	FHQ125BUV1B
OUTDOOR UNITS				RR71B7V3B/RR71B7W1B	RR100B7V3B/RR100B7W1B	RR125B7W1B
NOMINAL CAPACITY (3)	Cooling (1)	nominal	kW	7.1	9.8	12.2
NOMINAL INPUT	Cooling	nominal	kW	2.70/2.65	3.75/3.68	4.51
EER				2.63/2.68	2.61/2.66	2.71
ENERGY LABEL	Cooling			D/D	D/D	D
ANNUAL ENERGY CONSUMPTION	Cooling		kWh	1,350/1,325	1,875/1,840	2,255
INDOOR UNITS				FHQ71BUV1B	FHQ100BUV1B	FHQ125BUV1B
OUTDOOR UNITS				RQ71B7V3B/RQ71B7W1B	RQ100B7V3B/RQ100B7W1B	RQ125B7W1B
NOMINAL CAPACITY (3)	Cooling (1)	nominal	kW	7.1	9.8	12.2
	Heating (2)	nominal	kW	8	11.2	14.5
NOMINAL INPUT	Cooling	nominal	kW	2.70/2.65	3.75/3.68	4.51
	Heating	nominal	kW	2.85/2.80	4.12/4.01	5.16
EER				2.63/2.68	2.61/2.66	2.71
COP				2.81/2.86	2.71/2.79	2.81
ENERGY LABEL	Cooling			D/D	D/D	D
	Heating			D/D	E/E	D
ANNUAL ENERGY CONSUMPTION	Cooling		kWh	1,350/1,325	1,875/1,840	2,250
INDOOR UNITS				FHQ71B7V3B	FHQ100B7V3B	FHQ125B7V3B
OUTDOOR UNITS				REQ71B7V3B/B7W1B	REQ100B7V3B/B7W1B	REQ125B7V3B/B7W1B
NOMINAL CAPACITY	Cooling	nominal	kW	7.10	9.80	12.20
	Heating	nominal	kW	8.00	11.20	14.50
NOMINAL INPUT	Cooling	nominal	kW	2.7/2.65	3.77/3.68	4.51
	Heating	nominal	kW	2.85/2.8	4.14/4.03	5.16
EER				2.63/2.68	2.60/2.66	2.705
COP				2.81/2.86	2.705/2.78	2.81
ENERGY LABEL	Cooling			D/D	D/D	D
	Heating			D/D	E/E	D
ANNUAL ENERGY CONSUMPTION	Cooling		kWh	1,350/1,325	1,885/1,840	2,255
INDOOR UNITS				FHQ71BUV1B	FHQ100BUV1B	FHQ125BUV1B
OUTDOOR UNITS				RZQ71B8V3B	RZQ100B8V3B/B7W1B	RZQ125B8V3B/B7W1B
CAPACITY (3)	min.~nom.~max.	Cooling (1)	kW	3.20~7.10~8.02	5.00~10.00~11.20	5.75~12.50~14.00
	min.~nom.~max.	Heating (2)	kW	3.52~8.00~9.04	5.15~11.20~12.77	6.02~14.00~16.24
INPUT	nominal	Cooling	kW	2.47	3.16	4.45
	nominal	Heating	kW	2.78	3.60	4.50
EER				2.88	3.17	2.81
COP				2.88	3.11	3.11
ENERGY LABEL	Cooling			C	B	C
	Heating			D	D	D
ANNUAL ENERGY CONSUMPTION	Cooling		kWh	1,233	1,578	2,224

\* Combination only available in Portugal, Cyprus, Greece and Malta.  
 - Information is not available.

## 2 Specifications



TECHNICAL SPECIFICATIONS							
For indoor units only:							
INDOOR UNITS				FHQ35BUV1B	FHQ50BUV1B	FHQ60BUV1B	
DIMENSIONS	Unit	H	mm	195			
		W	mm	960		1,160	
		D	mm	680			
WEIGHT	Unit			kg	24	25	27
COLOUR	Unit	White					
SOUND LEVEL	Sound pressure (cooling/heating) (3)	high	dB(A)	37/37	38/38	39/38	
		low	dB(A)	32/32	33/33	33/33	
	Sound power (cooling/heating) (4)	high	dB(A)	53/53	54/54	55/54	
		low	dB(A)	48/48	49/49	49/49	
FAN	Air flow rate (cooling/heating)	high	m <sup>3</sup> /min	13/13		17/16	
		low	m <sup>3</sup> /min	10/10		13/13	
	Speed	steps	2steps				
	Type	Sirocco fan					
	Qty x motor output	W	1 x 62				
HEAT EXCHANGER	Type	Cross fin coil (Multi louver fins and N-HiX tubes)					
	Rows x stages x fin pitch	mm	2 x 12 x 1.75	3 x 12 x 1.75	2 x 12 x 1.75		
	Face area	m <sup>2</sup>	0.182		0.233		
PIPING CONNECTIONS		liquid	mm	Φ6.4			
		gas	mm	Φ9.5	Φ12.7		
		drain I.D.	mm	Φ20 (VP20)			
		drain O.D.	mm	Φ26 (VP20)			
INSULATION MATERIAL	Heat insulation	Foamed polystyrene / Foamed polyethylene					
	Sound absorbing insulation	Foamed polyurethane/Glass wool					
For outdoor units only:	Pair application	See chapters RS-B + RKS-D/B + RXS-D/B					
	Multi model application	See chapters MKS-D, MXS-D, RMXS-D					

TECHNICAL SPECIFICATIONS							
For indoor units only:							
INDOOR UNITS				FHQ71BUV1B	FHQ100BUV1B	FHQ125BUV1B	
DIMENSIONS	Unit	H	mm	195			
		W	mm	1,160	1,400	1,590	
		D	mm	680			
WEIGHT	Unit			kg	27	32	35
COLOUR	Unit	White					
SOUND LEVEL	Sound pressure (cooling/heating) (3)	high	dB(A)	39	42	44	
		low	dB(A)	35	37	39	
	Sound power (cooling/heating) (4)	high	dB(A)	55	58	60	
		low	dB(A)	51	53	55	
FAN	Air flow rate (cooling/heating)	high	m <sup>3</sup> /min	17	24	30	
		low	m <sup>3</sup> /min	14	20	25	
	Speed	steps	2 steps				
	Type	Sirocco fan					
	Qty x motor output	W	1 x 62	1 x 130			
HEAT EXCHANGER	Type	Cross fin coil (Multi louver fins and N-HiX tubes)					
	Rows x stages x fin pitch	mm	3 x 12 x 1.75				
	Face area	m <sup>2</sup>	0.182	0.293	0.341		
PIPING CONNECTIONS		liquid	mm	Φ9.5			
		gas	mm	Φ15.9			
		drain I.D.	mm	Φ20 (VP20)			
		drain O.D.	mm	Φ26 (VP20)			
INSULATION MATERIAL	Heat insulation	Foamed polystyrene / Foamed polyethylene					
	Sound absorbing insulation	Foamed polyurethane/Glass wool					
For outdoor units only:	Pair application	See chapter RR-B7, RQ-B7, REQ-B7, RZQ-B					

## 2 Specifications



### 2

#### ELECTRICAL SPECIFICATIONS

For indoor units only:				FHQ35BUV1B	FHQ50BUV1B	FHQ60BUV1B
CURRENT	Nominal running current	cooling/heating	A	See chapters RS-B + RKS-D/B + RXS-D/B		
	Max. running current	cooling/heating	A	See chapters RS-B + RKS-D/B + RXS-D/B		

For combination indoor units + outdoor units:				FHQ35BUV1B RKS35DVMB	FHQ50BUV1B RKS50BVMB	FHQ60BUV1B RKS60BVMB	FHQ50BUV1B RS50BVMB	FHQ60BUV1B RS60BVMB
CURRENT	Nominal running current	cooling	A	See chapter RKS-D/B			See chapter RS-B	
	Maximum running current	cooling	A	See chapter RKS-D/B			See chapter RS-B	
	Starting current	cooling	A	See chapter RKS-D/B			See chapter RS-B	

For combination indoor units + outdoor units:				FHQ35BUV1B RXS35DVMB	FHQ50BUV1B RXS50BVMB	FHQ60BUV1B RXS60BVMB
CURRENT	Nominal running current	cooling/heating	A	See chapter RXS-D/B		
	Maximum running current	cooling/heating	A	See chapter RXS-D/B		
	Starting current	cooling/heating	A	See chapter RXS-D/B		

For indoor units only:				FHQ35BUV1B	FHQ50BUV1B	FHQ60BUV1B
POWER SUPPLY				V1	V1	V1
NOMINAL DISTRIBUTION SYSTEM VOLTAGE	Phase			1~	1~	1~
	Frequency		Hz	50	50	50
	Voltage		V	220-240	220-240	220-240



## 2 Specifications



2

ELECTRICAL SPECIFICATIONS						
<b>For indoor units only:</b>						
				<b>FHQ71BUV1B</b>	<b>FHQ100BUV1B</b>	<b>FHQ125BUV1B</b>
CURRENT	Nominal running current	cooling/heating	A	See chapter RR-B7, RQ-B7, REQ-B7, RZQ-B		
	Max. running current	cooling/heating	A	See chapter RR-B7, RQ-B7, REQ-B7, RZQ-B		
<b>For combination indoor + outdoor units (air cooled):</b>						
				<b>FHQ71BUV1B</b>	<b>FHQ100BUV1B</b>	<b>FHQ125BUV1B</b>
				<b>RR71B7V3B/RR71B7W1B</b>	<b>RR100B7V3B/RR100B7W1B</b>	<b>RR125B7W1B</b>
CURRENT	Nominal running current	cooling	A	See chapter RR-B7		
	Maximum running current	cooling	A	See chapter RR-B7		
	Starting running current	cooling	A	See chapter RR-B7		
<b>For combination indoor + outdoor units (air cooled):</b>						
				<b>FHQ71BUV1B</b>	<b>FHQ100BUV1B</b>	<b>FHQ125BUV1B</b>
				<b>RQ71B7V3B/RQ71B7W1B</b>	<b>RQ100B7V3B/RQ100B7W1B</b>	<b>RZQ125B7V3B</b>
CURRENT	Nominal running current	cooling	A	See chapter RQ-B7		
	Maximum running current	cooling	A	See chapter RQ-B7		
	Starting running current	cooling	A	See chapter RQ-B7		
<b>For combination indoor + outdoor units (air cooled):</b>						
				<b>FHQ71BUV1B*</b>	<b>FHQ100BUV1B*</b>	<b>FHQ125BUV1B*</b>
				<b>REQ71B7V3B/REQ71B7W1B</b>	<b>REQ100B7V3B/REQ100B7W1B</b>	<b>REQ125B7W1B</b>
CURRENT	Nominal running current	cooling	A	See chapter REQ-B7		
	Maximum running current	cooling	A	See chapter REQ-B7		
	Starting running current	cooling	A	See chapter REQ-B7		
<b>For combination indoor units + outdoor units:</b>						
				<b>FHQ71BUV1B</b>	<b>FHQ100BUV1B</b>	<b>FHQ125BUV1B</b>
				<b>RZQ71B7V3B</b>	<b>RZQ100B7V3B</b>	<b>RZQ125B7V3B</b>
CURRENT	Nominal running current	cooling/heating	A	See chapter RZQ-B		
	Maximum running current	cooling/heating	A	See chapter RZQ-B		
	Starting current	cooling/heating	A	See chapter RZQ-B		
<b>For indoor units only:</b>						
<b>POWER SUPPLY</b>				<b>FHQ71BUV1B</b>	<b>FHQ100BUV1B</b>	<b>FHQ125BUV1B</b>
				V1	V1	V1
<b>NOMINAL DISTRIBUTION SYSTEM VOLTAGE</b>	Phase			1~	1~	1~
	Frequency		Hz	50	50	50
	Voltage		V	220-240	220-240	220-240

3D028492E

### NOTES

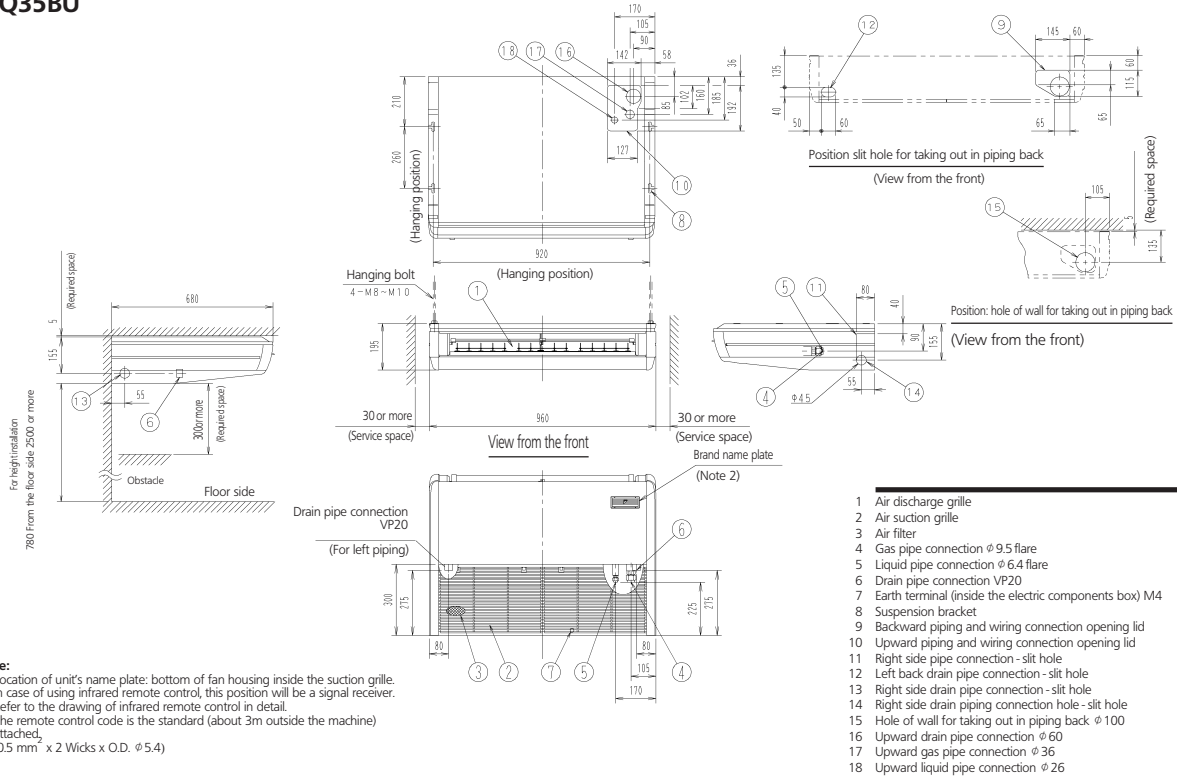
- 1 Nominal cooling capacities are based on: indoor temperature 27°CDB/19°CWB \* outdoor temperature 35°CDB \* refrigerant piping length: 7.5m \* level difference: 0m.
- 2 Nominal heating capacities are based on: indoor temperature: 20°CDB \* outdoor temperature: 7°CDB/6°CWB \* refrigerant piping length: 7.5m \* level difference 0m.
- 3 Capacities are net, including a deduction for cooling (an addition for heating) for indoor fan motor heat.
- 4 The sound pressure level is measured at 1m 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.
- 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)



# 3 Dimensional drawings

3

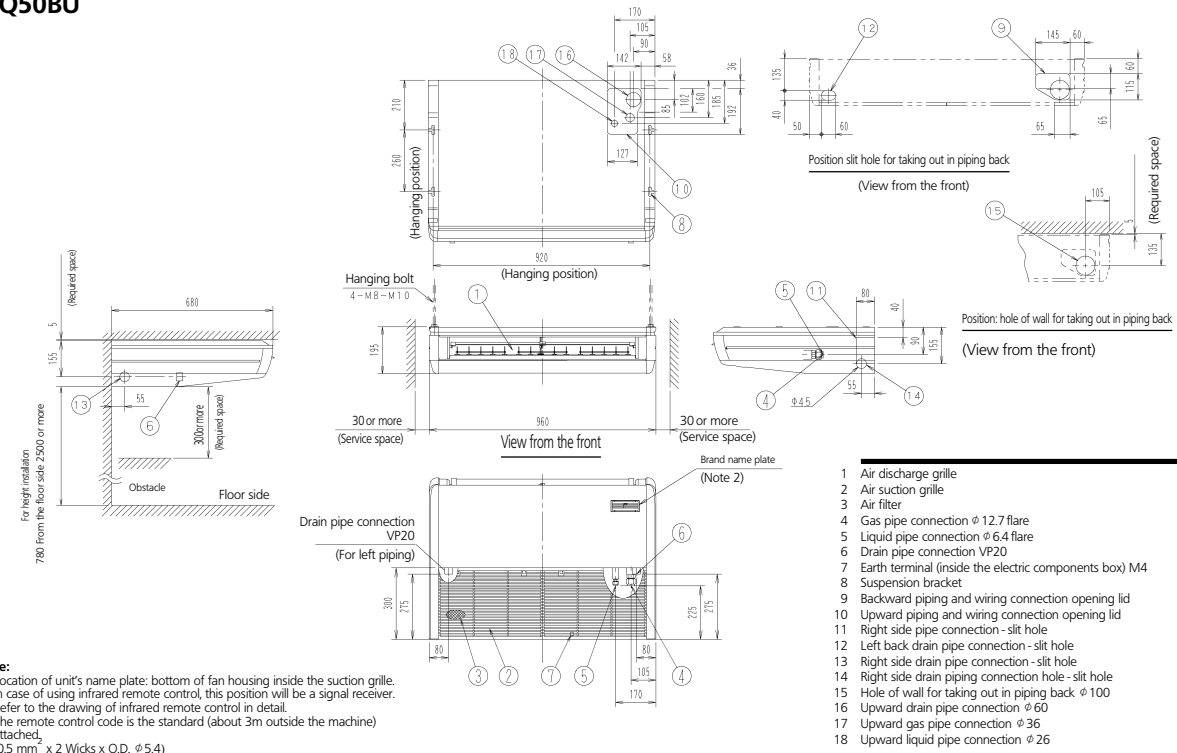
## FHQ35BU



**Note:**  
 1. Location of unit's name plate: bottom of fan housing inside the suction grille.  
 2. In case of using infrared remote control, this position will be a signal receiver. Refer to the drawing of infrared remote control in detail.  
 3. The remote control code is the standard (about 3m outside the machine) attached.  
 (0.5 mm x 2 Wicks x O.D. φ 5.4)

3D037996

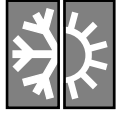
## FHQ50BU



**Note:**  
 1. Location of unit's name plate: bottom of fan housing inside the suction grille.  
 2. In case of using infrared remote control, this position will be a signal receiver. Refer to the drawing of infrared remote control in detail.  
 3. The remote control code is the standard (about 3m outside the machine) attached.  
 (0.5 mm x 2 Wicks x O.D. φ 5.4)

3D027536C

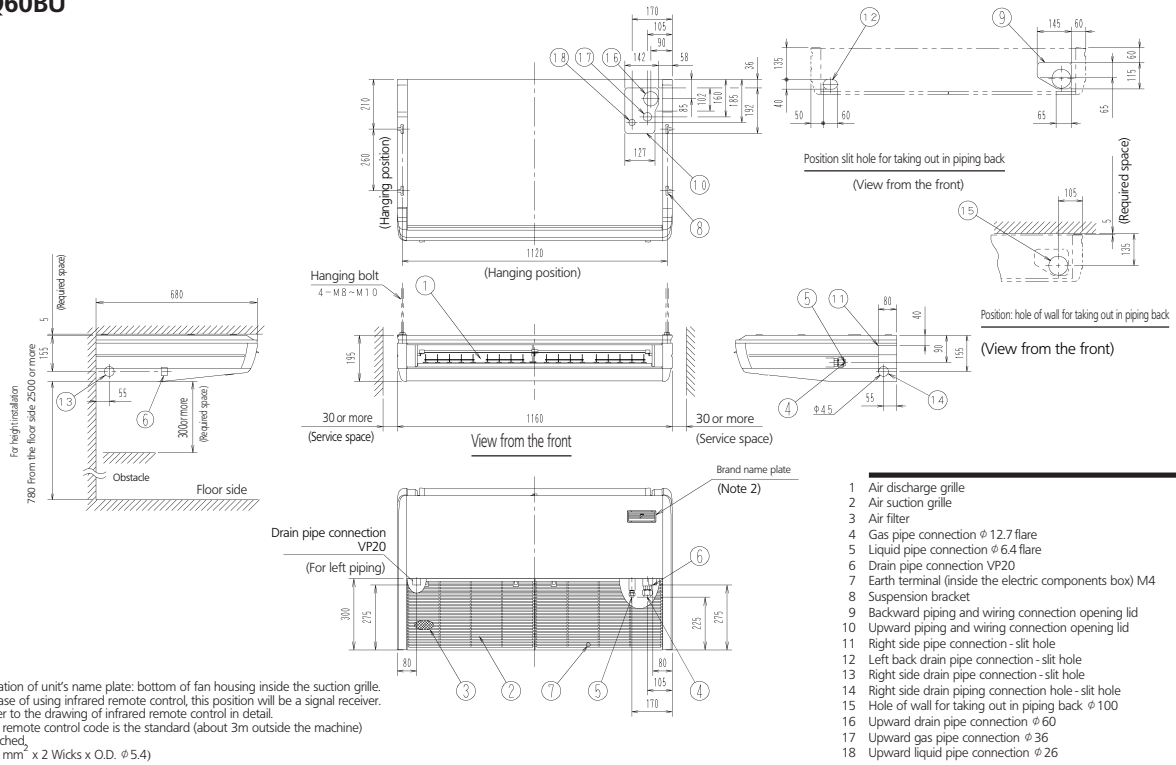
8



# 3 Dimensional drawings

3

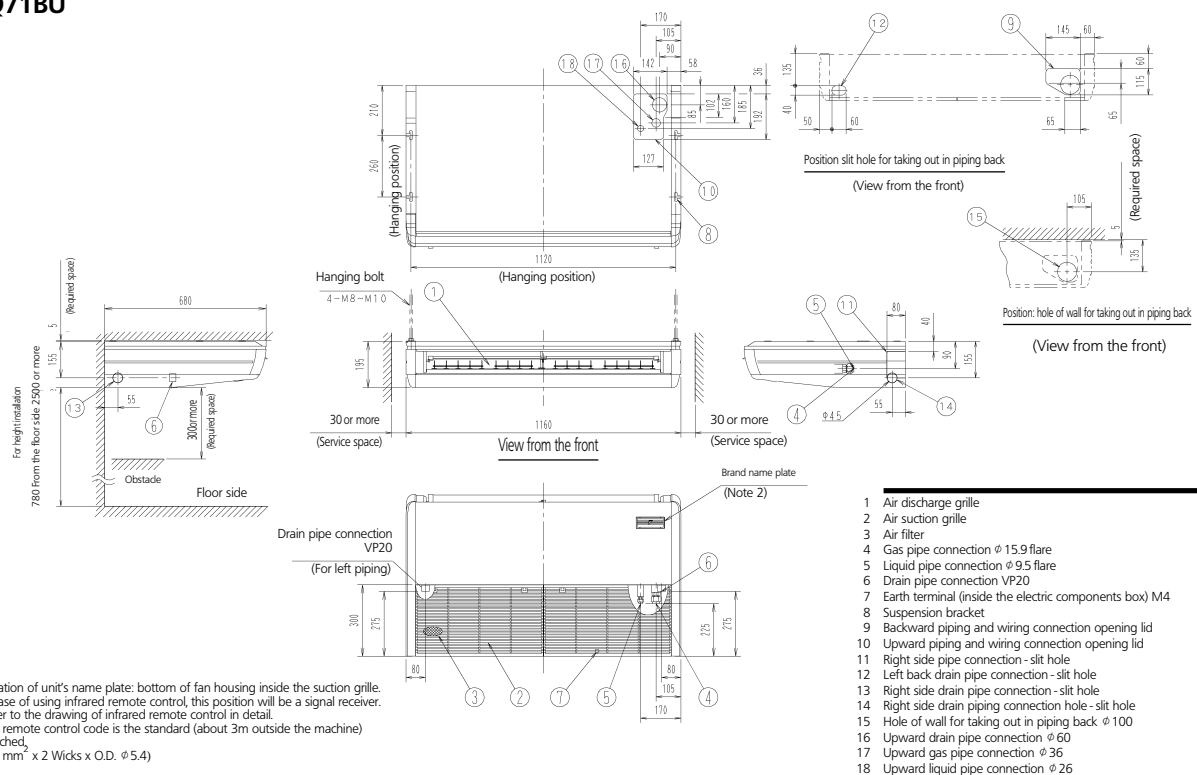
## FHQ60BU



**Note:**  
1. Location of unit's name plate: bottom of fan housing inside the suction grille.  
2. In case of using infrared remote control, this position will be a signal receiver. Refer to the drawing of infrared remote control in detail.  
3. The remote control code is the standard (about 3m outside the machine) attached, (0.5 mm<sup>2</sup> x 2 Wicks x O.D.  $\phi$  5.4)

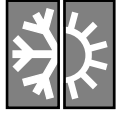
3D037994

## FHQ71BU



**Note:**  
1. Location of unit's name plate: bottom of fan housing inside the suction grille.  
2. In case of using infrared remote control, this position will be a signal receiver. Refer to the drawing of infrared remote control in detail.  
3. The remote control code is the standard (about 3m outside the machine) attached, (0.5 mm<sup>2</sup> x 2 Wicks x O.D.  $\phi$  5.4)

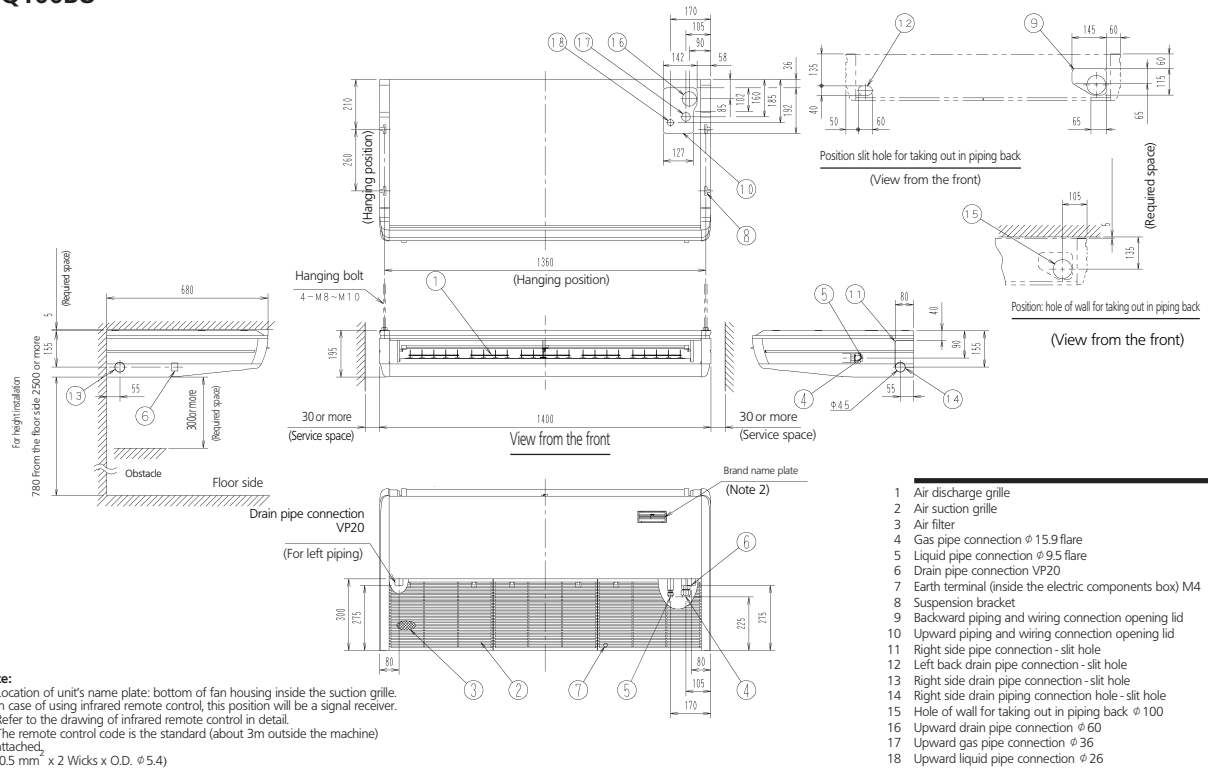
3D027538D



# 3 Dimensional drawings

3

## FHQ100BU

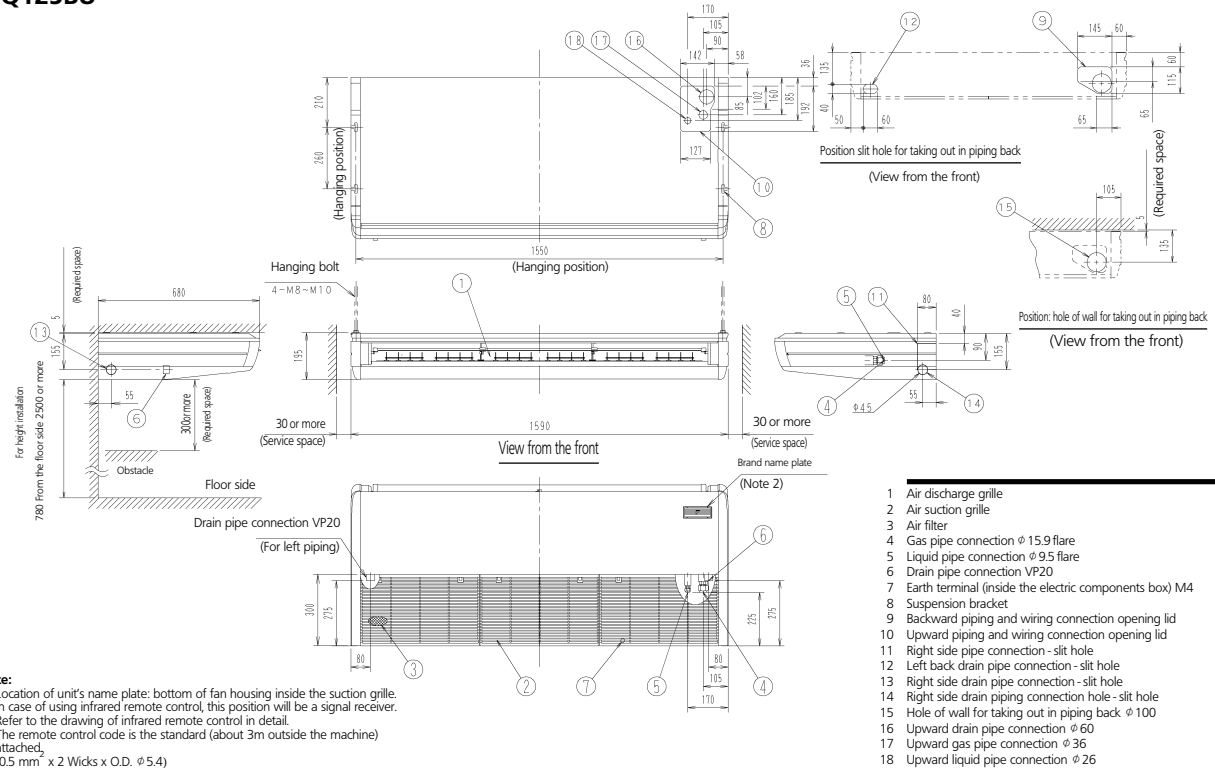


**Note:**

1. Location of unit's name plate: bottom of fan housing inside the suction grille.
2. In case of using infrared remote control, this position will be a signal receiver. Refer to the drawing of infrared remote control in detail.
3. The remote control code is the standard (about 3m outside the machine) attached, (0.5 mm<sup>2</sup> x 2 Wicks x O.D. φ 5.4)

3D044893

## FHQ125BU



**Note:**

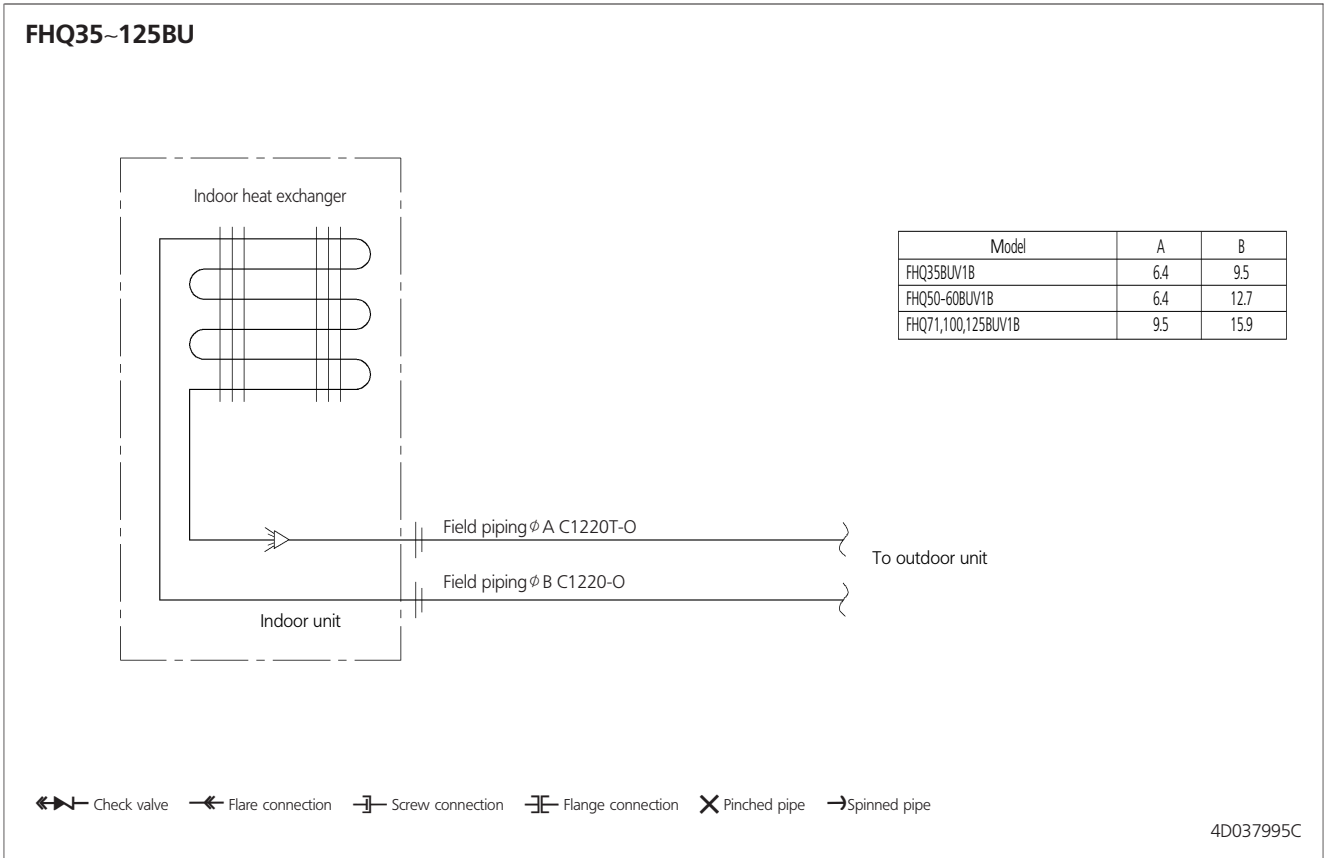
1. Location of unit's name plate: bottom of fan housing inside the suction grille.
2. In case of using infrared remote control, this position will be a signal receiver. Refer to the drawing of infrared remote control in detail.
3. The remote control code is the standard (about 3m outside the machine) attached, (0.5 mm<sup>2</sup> x 2 Wicks x O.D. φ 5.4)

3D044894A



# 4 Piping diagrams

4





# 5 Wiring diagrams

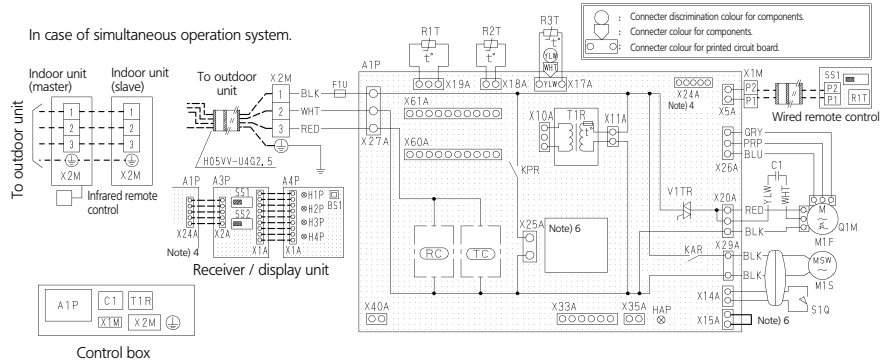
5

## FHQ35~60BU

### Notes

- Terminal : Connector : Connector  
 : Protective earth (screw)
- Field wiring
- In case using central remote control, connect it to the unit in accordance with the attached instruction manual.
- X24A is connected when the infrared remote control kit is being used.
- Remote control model varies according to the combination system, confirm technical materials and catalogs, etc. before connecting.
- In case installing the drain pump (M1P), remove the jumper connector of X15A and execute the additional wiring for float switch and drain pump.
- Symbols show as follows Red:red, Blk:black, Ylw:yellow, Org:orange, Gry:gray, Prp:purple, Blu:blue

In case of simultaneous operation system.



1-RED, 2-WHITE, 3-BLACK	S1Q	Limit switch (swing flap)	Infrared remote control	Connector for optional parts
A1P	T1R	Transformer(220-240V/22V)	Receiver / display unit	X15A
C1R	V1TR	Phase control circuit	A3P	Connector (float switch)
F1U	X1M	Terminal block	A4P	X25A
H4P	X2M	Terminal block	B51	X33A
K4R	X2M	Terminal block	H1P	X35A
M1S	RC	Signal receiver circuit	H2P	X40A
M1F	TC	Signal transmission circuit	H4P	X60A
Q1M	Wired remote control		H4P	X61A
R1T	RIT	Thermistor (air)	SS1	
R2T	SS1	Selector switch (main/sub)	SS2	
R3T				

3D037842C



# 5 Wiring diagrams

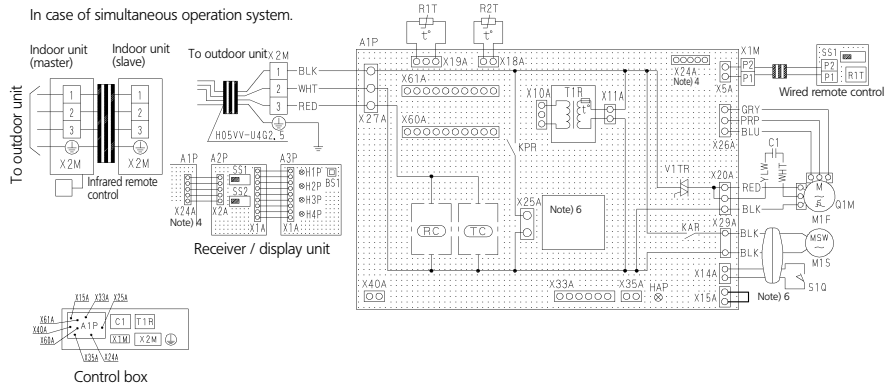
5

## FHQ71,100,125BU

### Notes

- Terminal: ; Connector: ; Protective earth (screw):
- Field wiring
- In case using central remote control, connect it to the unit in accordance with the attached instruction manual.
- X24A is connected when the infrared remote control kit is being used.
- Remote control model varies according to the combination system, confirm technical materials and catalogs, etc. before connecting.
- In case installing the drain pump (M1P), remove the jumper connector of X15A and execute the additional wiring for float switch and drain pump.
- Symbols show as follows: Red:red, Blk:black, Ylw:yellow, Org:orange, Gry:gray, Prp:purple, Blu:blue

In case of simultaneous operation system.



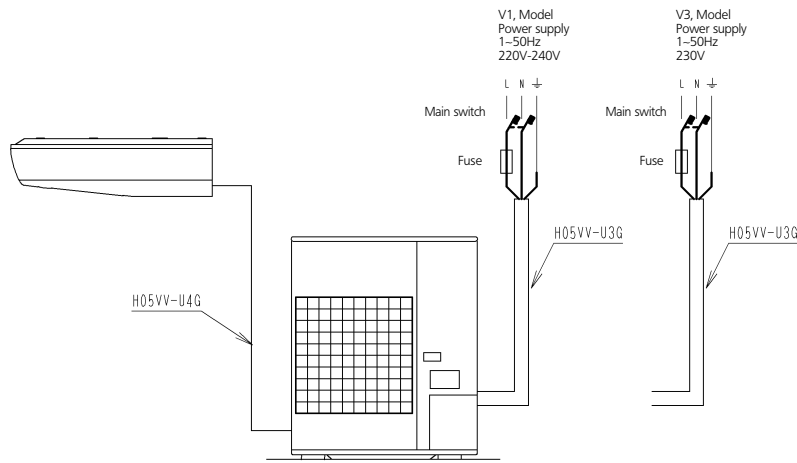
1-RED, 2-WHITE, 3-BLACK	S1Q Limit switch (swing flap)	Infrared remote control	Connector for optional parts
A1P Printed circuit board	T1R Transformer(220-240V/22V)	Receiver / display unit	X15A Connector (float switch)
C1R Capacitor (M1F)	V1TR Phase control circuit	A2P Printed circuit board	X25A Connector (drain pump)
H1P Light emitting diode (service monitor green)	X1M Terminal block	A3P Printed circuit board	X33A Connector (adapter for wiring)
K1R Magnetic relay (M1S)	X2M Terminal block	B51 Push button (on/off)	X35A Connector (group control adapter)
K1P Magnetic relay (M1P)	RC Signal receiver circuit	H1P Light emitting diode (service monitor red)	X40A Connector (ON/OFF input from outside)
K1S Magnetic relay (M1S)	TC Signal transmission circuit	H2P Light emitting diode (service monitor green)	X60A Connector (interface adapter for sky air series)
M1F Motor (swing flap)	Wired remote control	H3P Light emitting diode (service monitor red)	X61A
M1M Motor (indoor fan)	RIT Thermoistor (air)	H4P Light emitting diode (service monitor orange)	
Q1M Thermo switch (M1F embedded)	SS1 Selector switch (main/sub)	H5P Light emitting diode (service monitor red)	
R1T Thermoistor (air)	SS2 Selector switch (wireless address set)	H6P Light emitting diode (service monitor orange)	
R2T Thermoistor (coil)		H7P Light emitting diode (service monitor red)	

4D043825A

## FHQ71,100,125BU

### NOTES

- Line voltage wiring: ; Control circuit wiring:
- All wiring, components and materials to be produced on the site must comply with the applicable local and national codes.
- Use copper conductors only.
- See wiring diagrams for details.
- Install fuse and mainswitch for safety.
- All field wiring and components must be provided by a licensed electrician.
- The unit shall be grounded in compliance with the applicable local and national codes.
- Wiring shown are general points-of-connection guides only and are not intended for or to include all details for a specific installation.
- Never share a common power supply with other equipment.



4D044483A

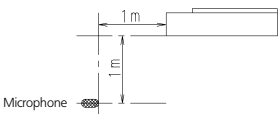


# 6 Sound level

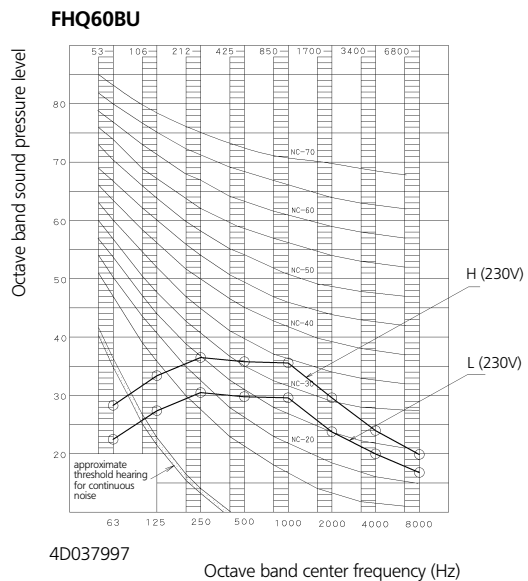
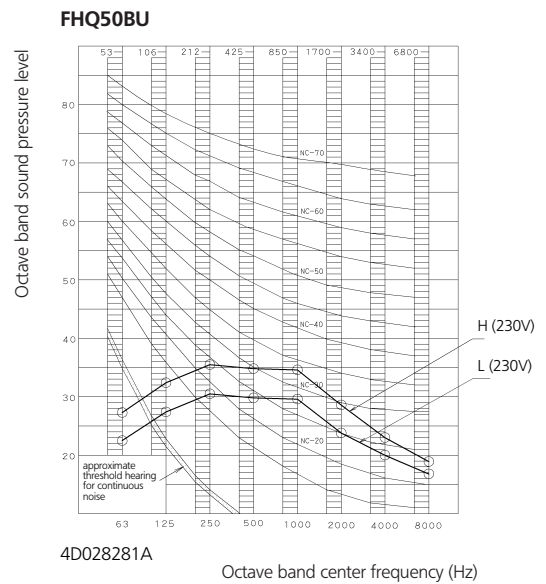
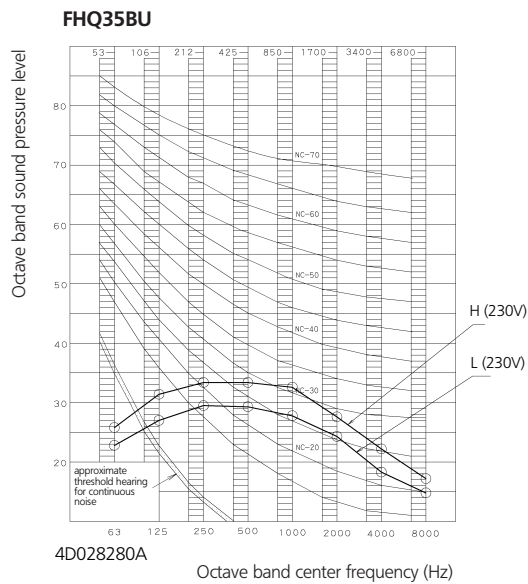
## 6-1 Sound level data

6

6-1

Model	Sound pressure level		Measuring location  Location of microphone 	Sound power level	
	230V			H (cooling/heating)	L (cooling/heating)
	50Hz				
	H (cooling/heating)	L (cooling/heating)		H (cooling/heating)	L (cooling/heating)
FHQ35BUV1B	37/37	32/32		53/53	48/48
FHQ50BUV1B	38/38	33/33		54/54	49/49
FHQ60BUV1B	39/-	33/-		55/-	49/-
FHQ71BUV1B	39/39	35/35		55/55	51/51
FHQ100BUV1B	42/42	37/37		58/58	53/53
FHQ125BUV1B	44/44	39/39		60/60	55/55

## 6-2 Sound pressure spectrum



### NOTES

- 1 Sound pressure levels are measured in an anechoic room.
- 2 Operation sound levels are valid at nominal operation condition
- 3 Operation sound level differs with operation and ambient conditions.





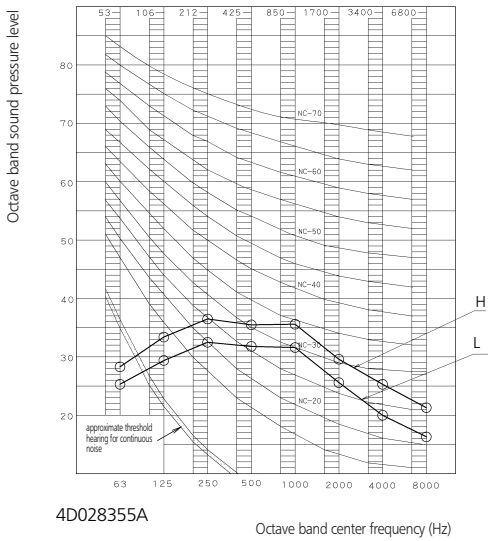
# 6 Sound level

## 6-2 Sound pressure spectrum

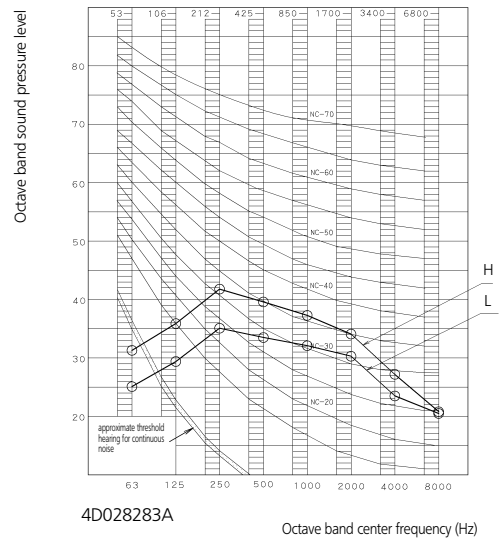
6

6-2

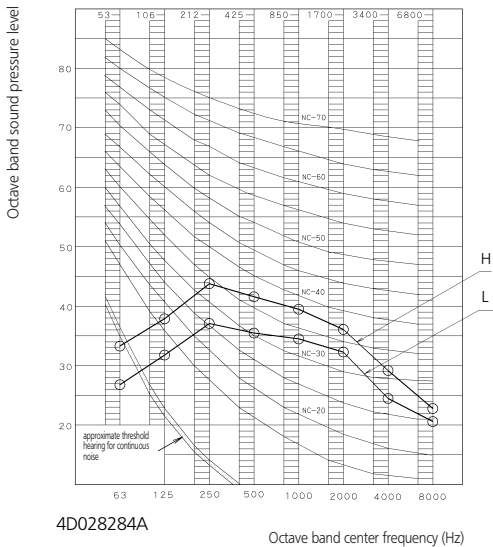
**FHQ71BU**



**FHQ100BU**



**FHQ125BU**



**NOTES**

- 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.

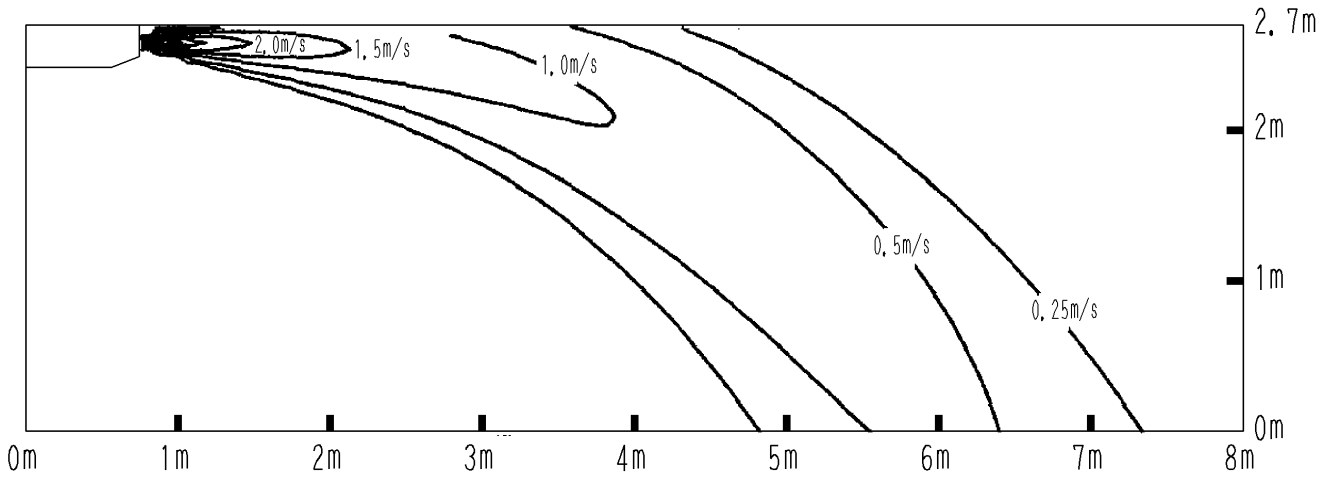


# 7 Air flow patterns

## 7 FHQ35-50BU

Cooling - air velocity distribution

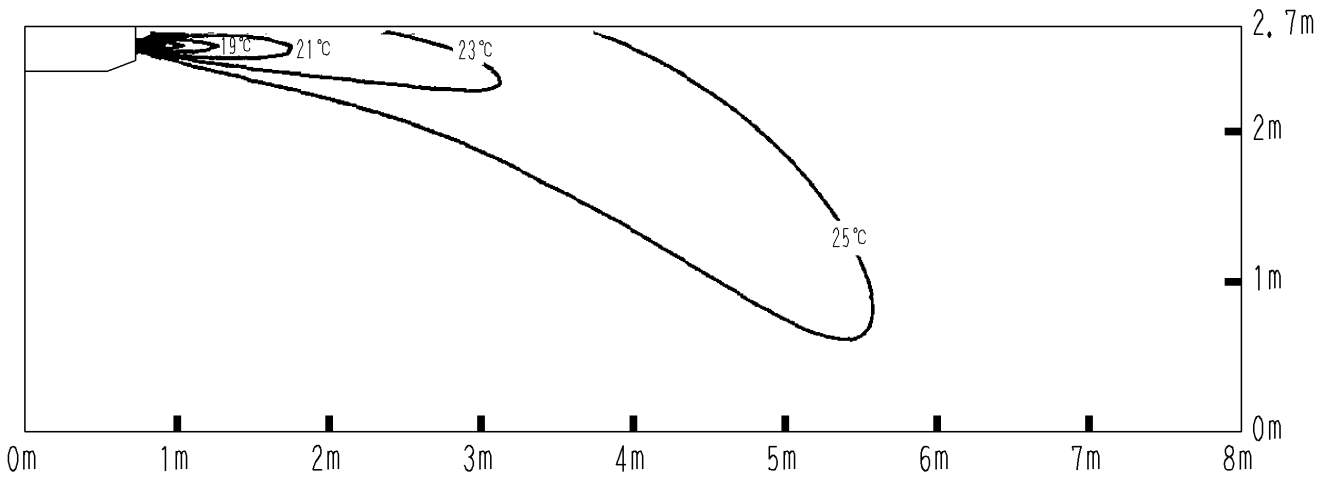
Air flow direction: horizontal



## FHQ35-50BU

Cooling - air temperature distribution

Air flow direction: horizontal



4D028550

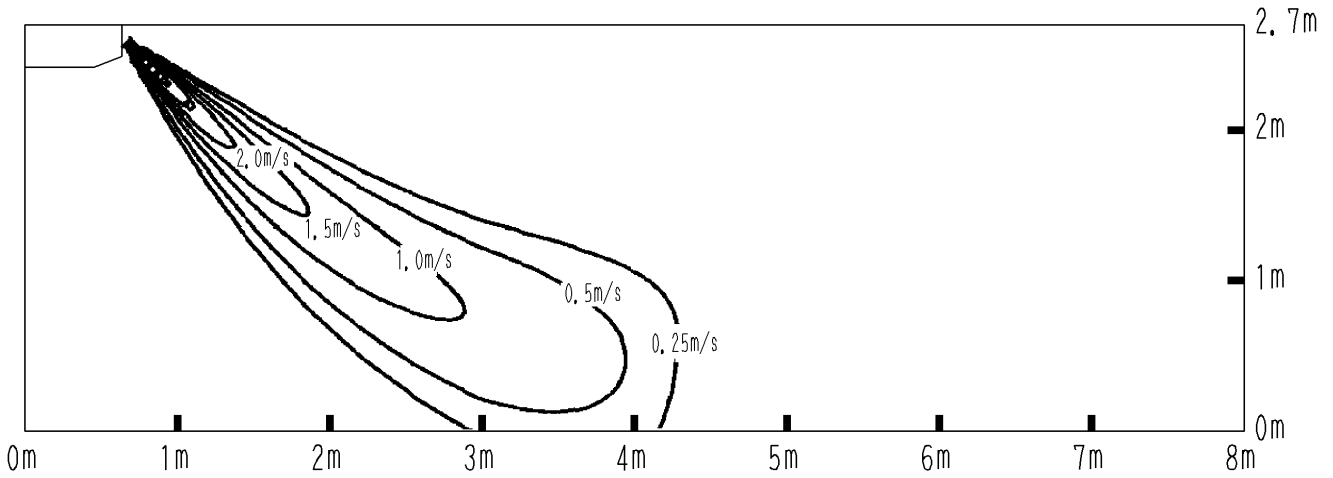


# 7 Air flow patterns

## FHQ35-50BU

Heating - air velocity distribution

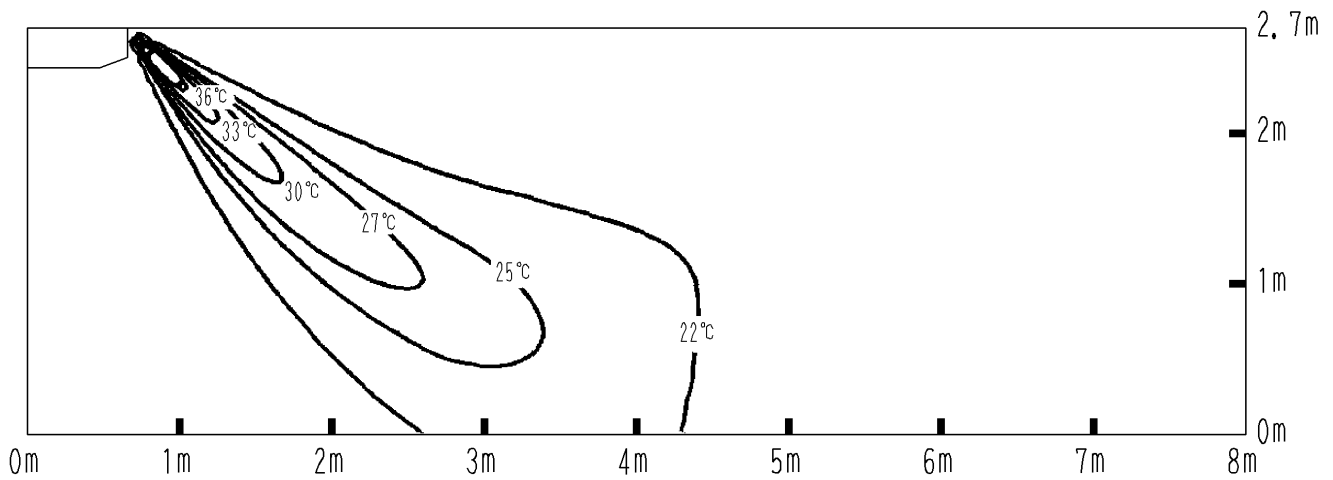
Air flow direction: 45° (downward)



## FHQ35-50BU

Heating - air temperature distribution

Air flow direction: 45° (downward)



4D028554

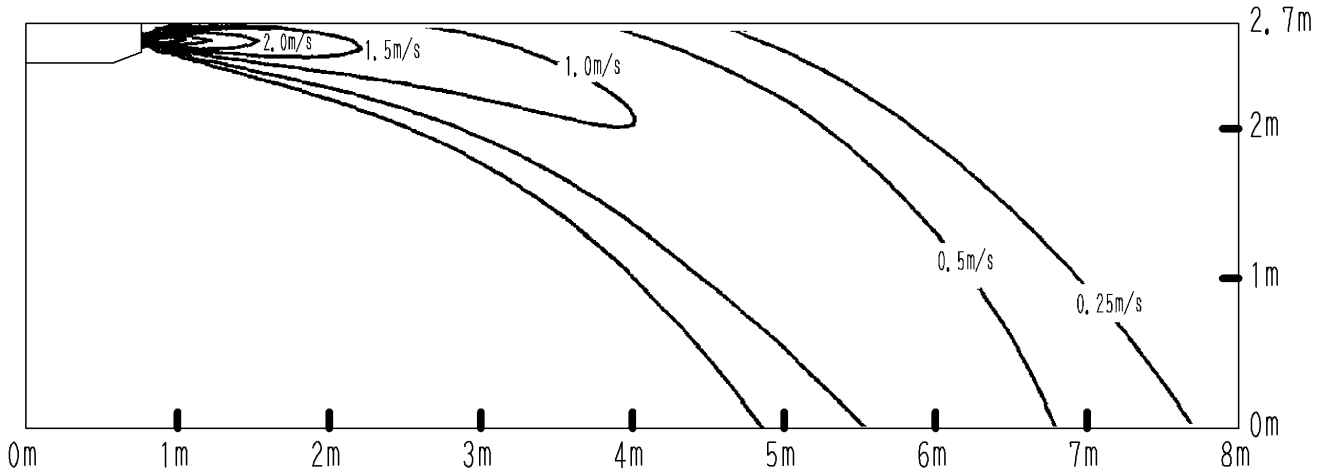


# 7 Air flow patterns

## 7 FHQ60-71BU

Cooling - air velocity distribution

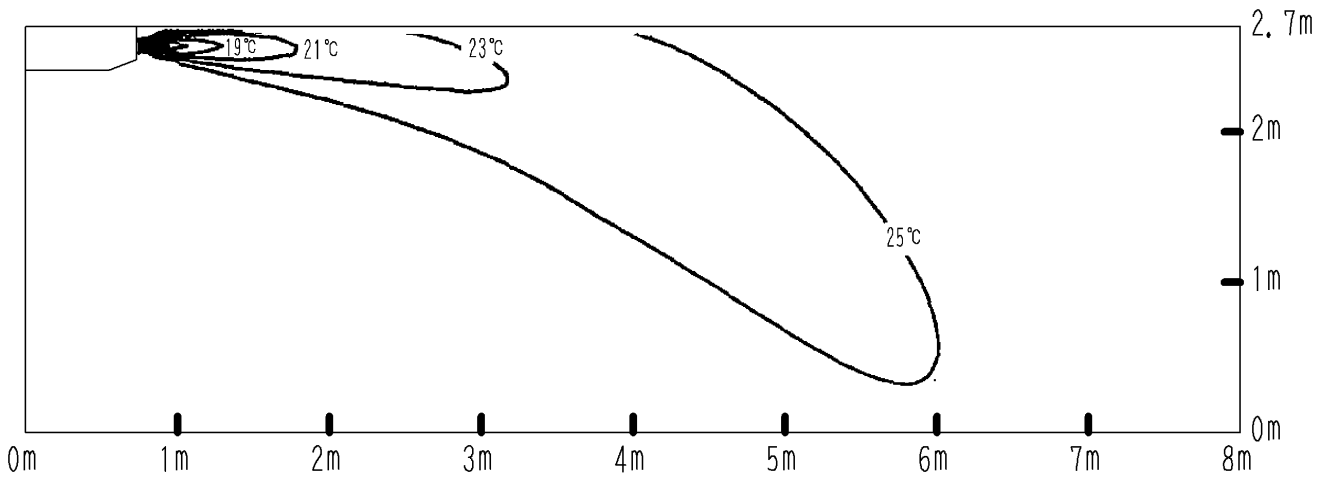
Air flow direction: horizontal



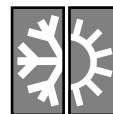
## FHQ60-71BU

Cooling - air temperature distribution

Air flow direction: horizontal



4D028551A



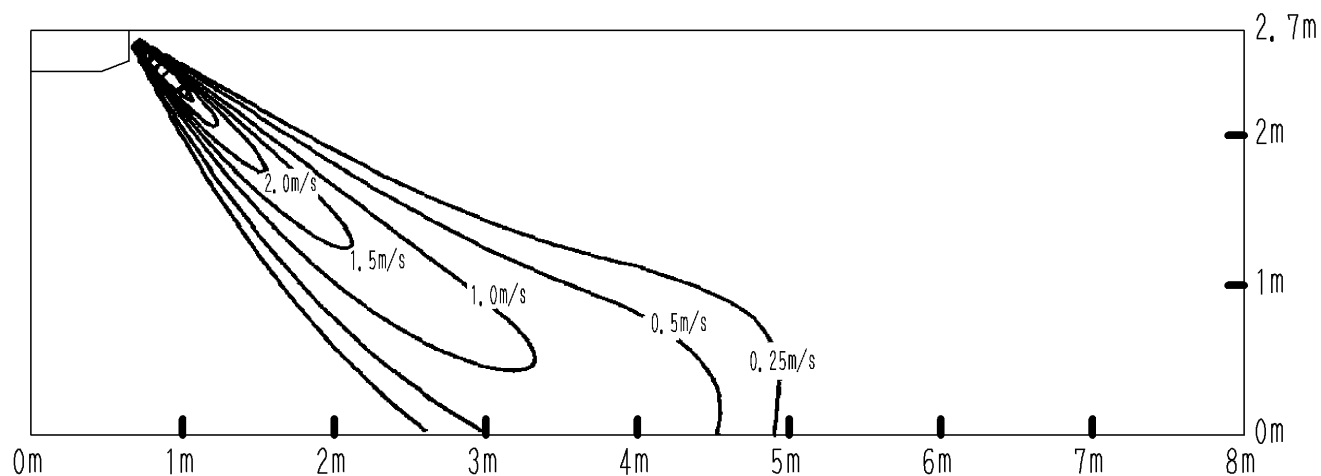
# 7 Air flow patterns

7

## FHQ60-71BU

Heating - air velocity distribution

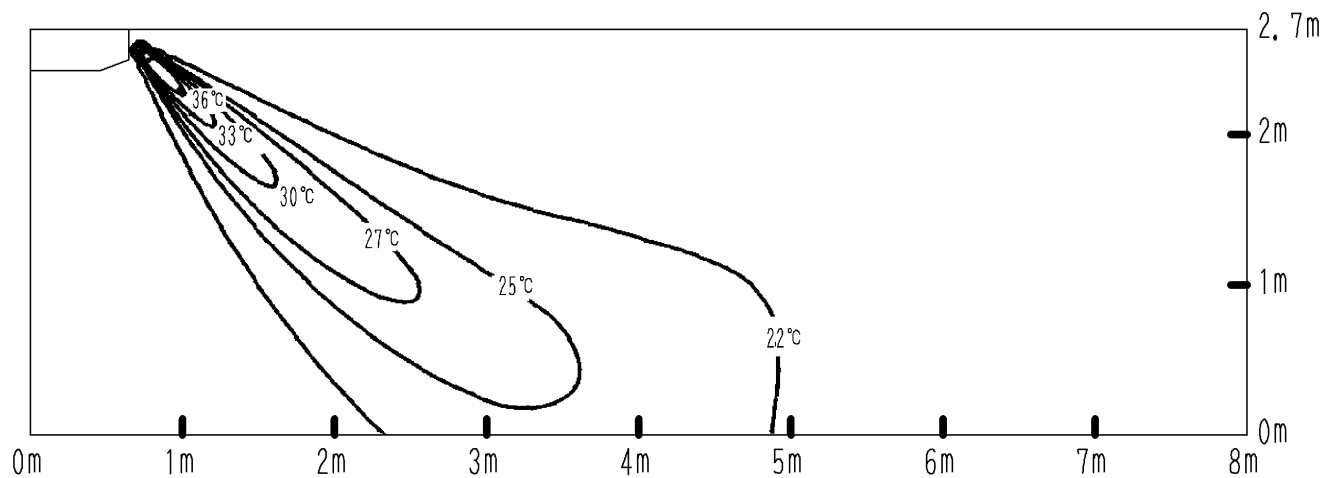
Air flow direction: 45° (downward)



## FHQ60-71BU

Heating - air temperature distribution

Air flow direction: 45° (downward)



4D028555A

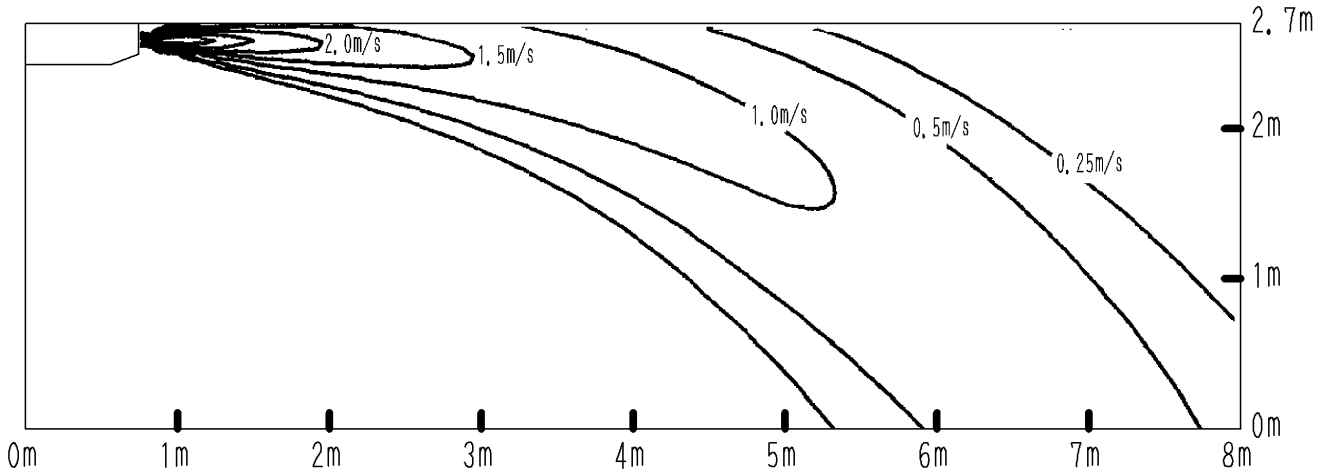


# 7 Air flow patterns

## 7 FHQ100BU

Cooling - air velocity distribution

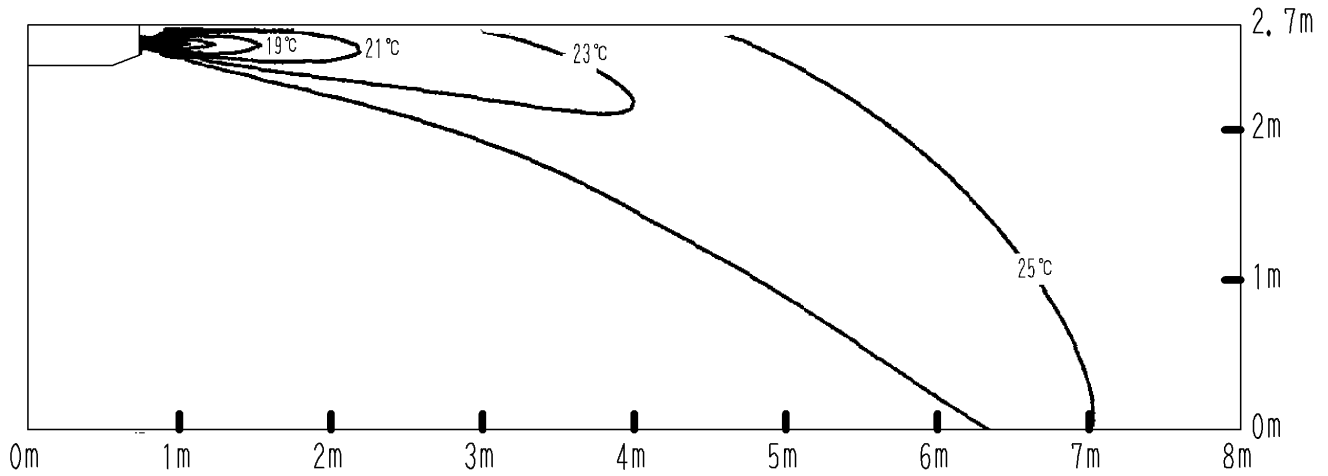
Air flow direction: horizontal



## FHQ100BU

Cooling - air temperature distribution

Air flow direction: horizontal



4D028552A

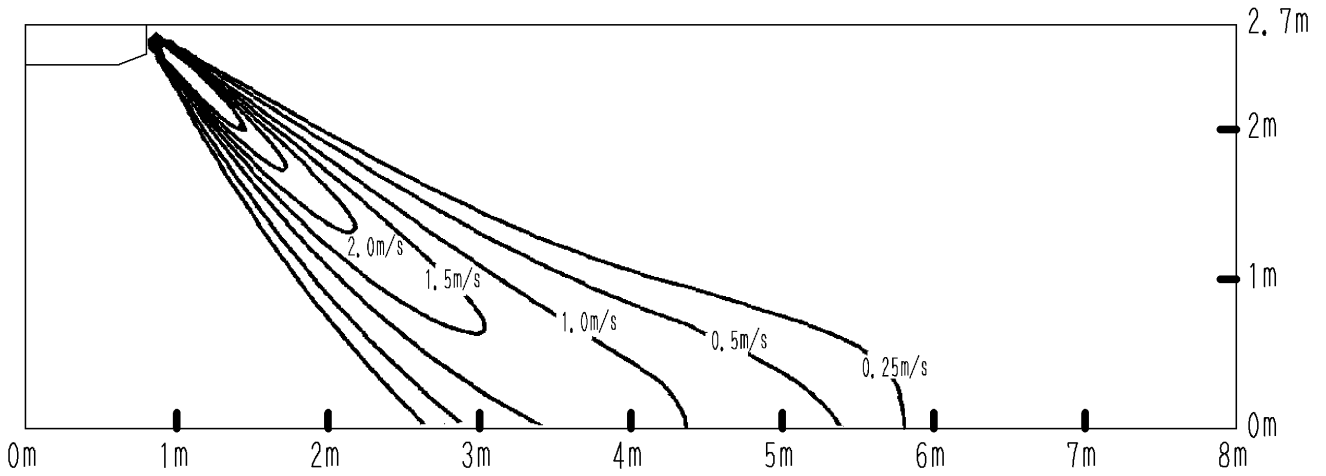


# 7 Air flow patterns

## FHQ100BU

Heating - air velocity distribution

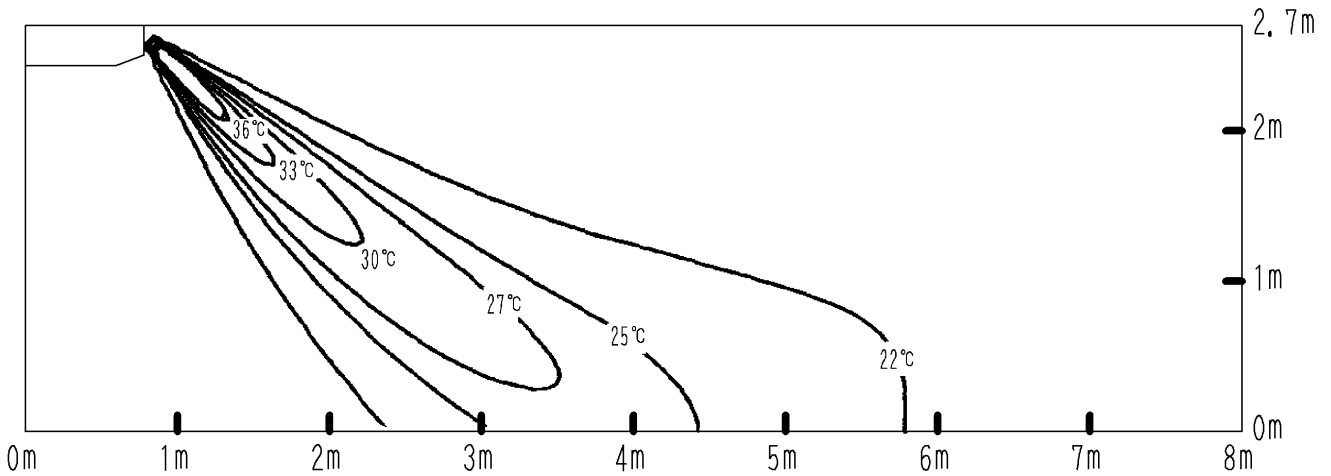
Air flow direction: 45° (downward)



## FHQ100BU

Heating - air temperature distribution

Air flow direction: 45° (downward)



4D028556A

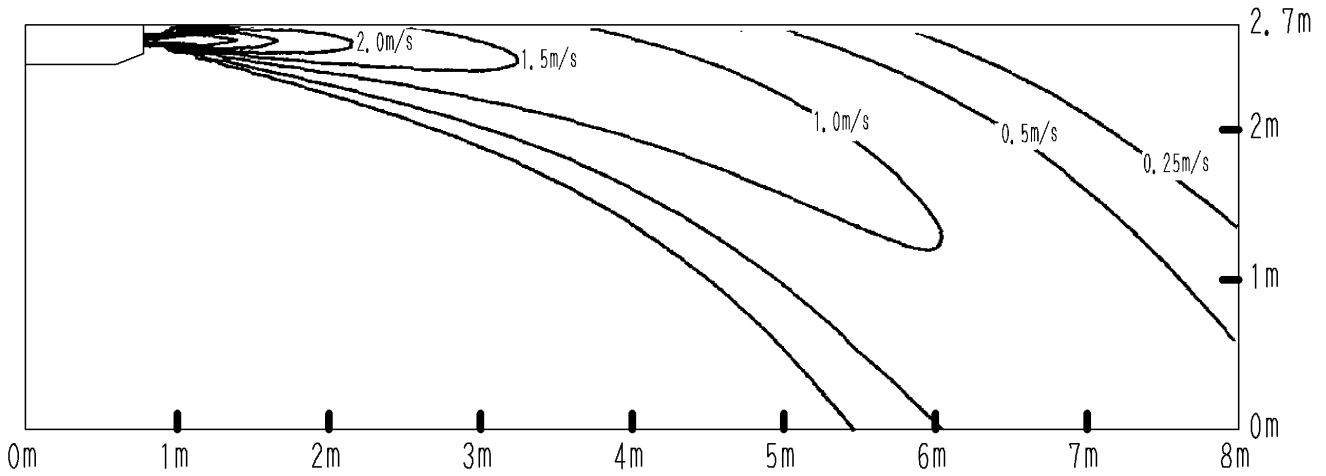


# 7 Air flow patterns

## 7 FHQ125BU

Cooling - air velocity distribution

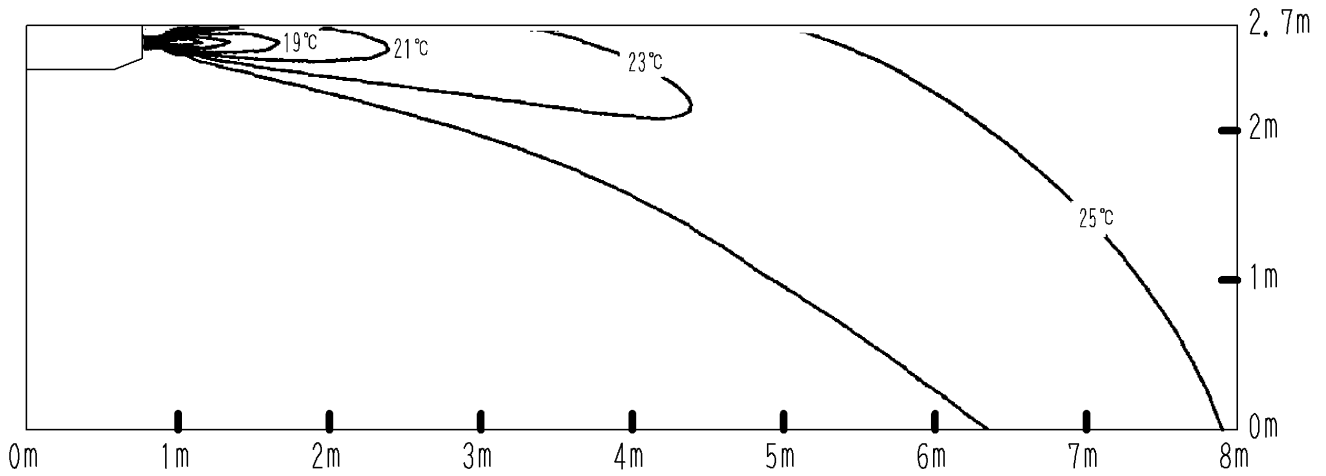
Air flow direction: horizontal



## FHQ125BU

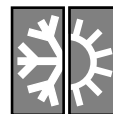
Cooling - air temperature distribution

Air flow direction: horizontal



4D028553A





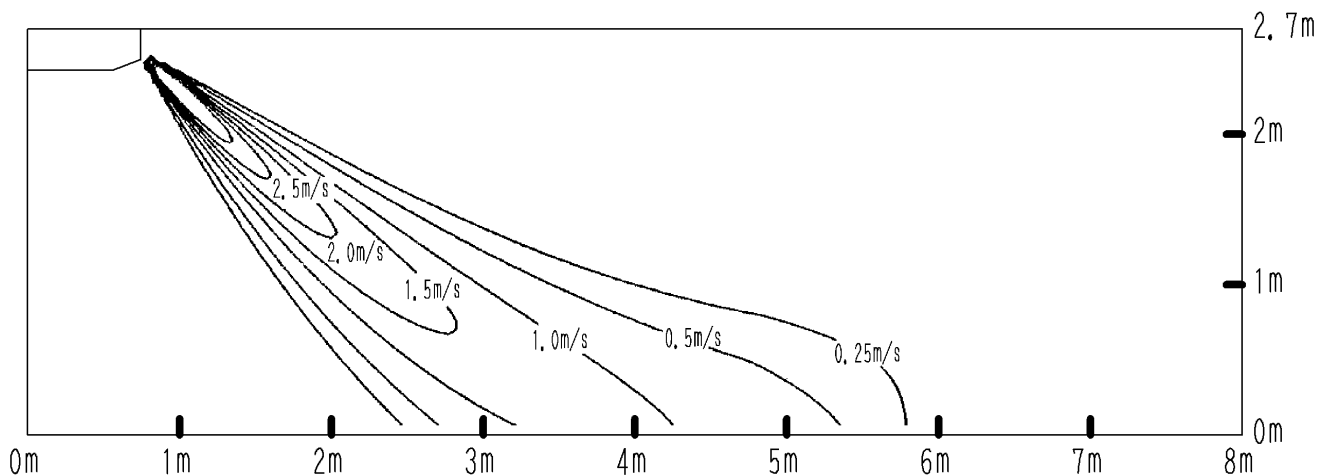
# 7 Air flow patterns

7

## FHQ125BU

Heating - air velocity distribution

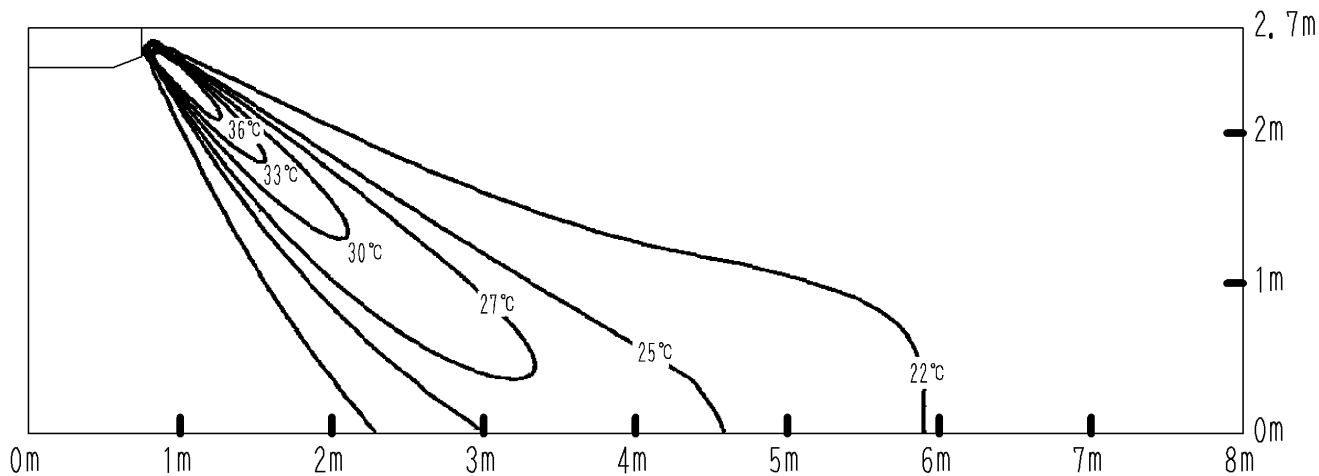
Air flow direction: 45° (downward)



## FHQ125BU

Heating - air temperature distribution

Air flow direction: 45° (downward)



4D028557A



# 8 Accessories

## 8-1 Optional accessories

### 8 FHQ35-60BU

8-1

Name of option		FHQ~BUV1B		
		35	50	60
Replacement long-life filter		KAFJ501D56		KAFJ501D80
Drain up kit		KDU50M60VE		
L-type piping kit (for upward direction)		KHFP5M35	KHFP5M63	
Remote control	Wired type	BRC1D527		
	Infrared type	Heat pump	BRC7E63W	
		Cooling only	BRC7E66	
Central remote control		DCS302C51		
Unified ON/OFF control		DCS301B51		
Schedule timer		DST301B51		
Adapter for wiring		KRP1B54		
Wiring adapter (hour meter)		EKRP1B2		
Adaptor for external ON/OFF and monitoring ※1		KRP4A52		
Interface adapter for Sky Air series		DTA112B51		
Installation box for adapter PCB		KRP1C93		
Remote ON/OFF, forced OFF		EKRORO		

3D038056

Note ※1: Installation box for adapter PCB (KRP1C93) is necessary.

### FHQ71-125BU

Name of option		FHQ~BUV1B		
		71	100	125
Replacement long-life filter		KAFJ501D80	KAFJ501D112	KAFJ501D160
Drain up kit		KDU50M125VE		
L-type piping kit (for upward direction)		KHFP5M160		
Remote control	Wired type	BRC1D527		
	Infrared type	Heat pump	BRC7E63W	
		Cooling only	BRC7E66	
Central remote control		DCS302C51		
Unified ON/OFF control		DCS301B51		
Schedule timer		DST301B51		
Adapter for wiring		KRP1B54		
Wiring adapter for electrical appendices *1		KRP4A52		
Interface adapter for Sky Air series		DTA112B51		
Installation box for adapter PCB		KRP1C93		
Remote sensor		KRCS01-1		
Connector for forced on, forced off		EKRORO		
Electrical box with earth terminal (3 blocks)		KJB311A		
Electrical box with earth terminal (2 blocks)		KJB212A		

3D0344485A

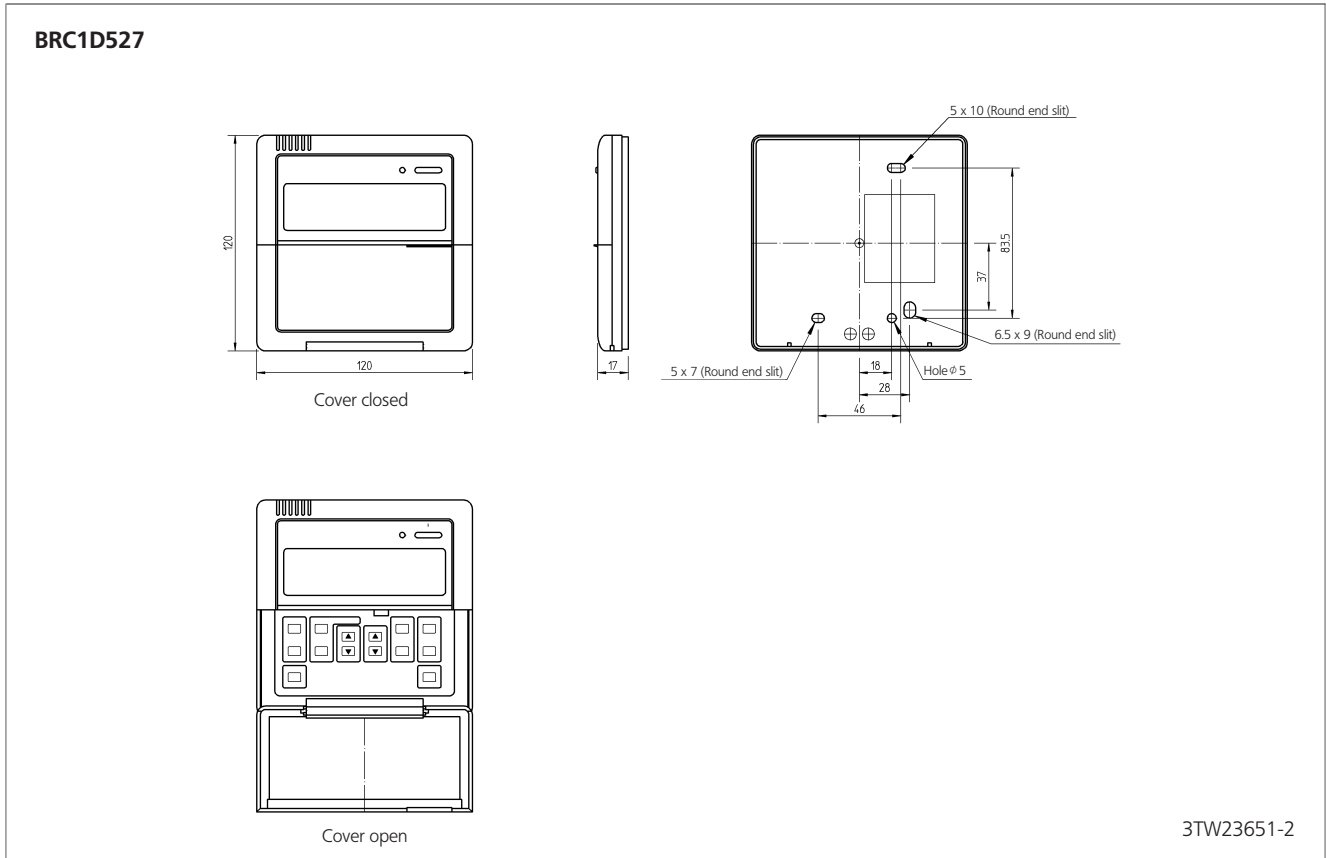
Note ※1: Installation box for adapter PCB (KRP1C93) is necessary.



# 9 Control systems

## 9-1 Wired remote control

9  
9-1



# 10 Safety device settings

## FHQ35-60BU

Model	Safety devices	35	50	60	71	100	125
FHQ-BUV1B	Fuse	250V 5A	250V 5A	250V 5A	250V 5A	250V 5A	250V 5A
	Fan motor thermal protector (°C)	Off: 130 ±5 On: 83 ±20	Off: 130 ±5 On: 83 ±20	Off: 130 ±5 On: 83 ±20	Off: 130 ±5 On: 83 ±20	Off: 130 ±5 On: 83 ±20	Off: 130 ±5 On: 83 ±20

3D006611H