



technical data

FHQ-BU



**Ceiling Suspended,
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.

Specifications are subject to change without prior notice.

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* 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.
- The wired remote control has following features:
 - A real time clock
 - A schedule timer:
 - Possibility to program a weekly schedule timer.
 - Possibility to program 5 actions for each day of the week.
 - Limit operation (min./max.): room temperature is controlled within adjustable upper and lower limits. This can be activated manually or by schedule timer.
 - Home leave (frost protection): during absence, the indoor temperature can be maintained at a certain level. This function can also switch the unit ON/OFF.



Optional



Optional



2 steps



35-60



35-60



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				RKS35BVMB	RKS50BVMB	RKS60BVMB	RS50BVMB	RS60BVMB
CAPACITY (3)	min.~nom.~max.	Cooling	kW	1.00~3.40~3.70	0.90~5.00~5.60	0.90~5.70~6.00	5.00 (nom.)	5.70 (nom.)
INPUT	min.~nom.~max.	Cooling	kW	0.40~1.21~1.50	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				RXS35BVMB	RXS50BVMB	RXS60BVMB		
CAPACITY (3)	min.~nom.~max.	Cooling	kW	1.00~3.40~3.70	0.90~5.00~5.60	0.90~5.70~6.00		
	min.~nom.~max.	Heating	kW	1.00~4.10~5.00	0.90~6.00~7.00	0.90~7.20~8.00		
INPUT	min.~nom.~max.	Cooling	kW	0.40~1.21~1.50	0.45~1.83~2.02	0.44~2.15~2.23		
	min.~nom.~max.	Heating	kW	0.44~1.18~1.62	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		

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				RZQ71B7V3B	RZQ100B7V3B	RZQ125B7V3B		
CAPACITY (3)	min.~nom.~max.	Cooling	kW	3.20~7.10~8.02	5.00~10.00~11.20	5.75~12.50~14.00		
	min.~nom.~max.	Heating	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		

- Information is not available.

2 Specifications



2

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 ³ /min	13/13		17/16	
		low	m ³ /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 ²	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-B + RXS-B				
	Multi model application		See chapters 4MKS-B + 3MXS-B/4MXS-B				

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 ³ /min	17	24	30	
		low	m ³ /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 ²	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 RZQ-B				

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2 Specifications



2

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

For combination indoor units + outdoor units:				FHQ35BUV1B	FHQ50BUV1B	FHQ60BUV1B	FHQ50BUV1B	FHQ60BUV1B
				RKS35BVMB	RKS50BVMB	RKS60BVMB	RS50BVMB	RS60BVMB
CURRENT	Nominal running current	cooling	A	See chapter RKS-B			See chapter RS-B	
	Maximum running current	cooling	A	See chapter RKS-B			See chapter RS-B	
	Starting current	cooling	A	See chapter RKS-B			See chapter RS-B	

For combination indoor units + outdoor units:				FHQ35BUV1B	FHQ50BUV1B	FHQ60BUV1B
				RXS35BVMB	RXS50BVMB	RXS60BVMB
CURRENT	Nominal running current	cooling/heating	A	See chapter RXS-B		
	Maximum running current	cooling/heating	A	See chapter RXS-B		
	Starting current	cooling/heating	A	See chapter RXS-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

ELECTRICAL SPECIFICATIONS						
For indoor units only:				FHQ71BUV1B	FHQ100BUV1B	FHQ125BUV1B
CURRENT	Nominal running current	cooling/heating	A	See chapter RZQ-B		
	Max. running current	cooling/heating	A	See chapter RZQ-B		

For combination indoor units + outdoor units:				FHQ71BUV1B	FHQ100BUV1B	FHQ125BUV1B
				RZQ71B7V3B	RZQ100B7V3B	RZQ125B7V3B
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		

For indoor units only:				FHQ71BUV1B	FHQ100BUV1B	FHQ125BUV1B
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

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NOTES

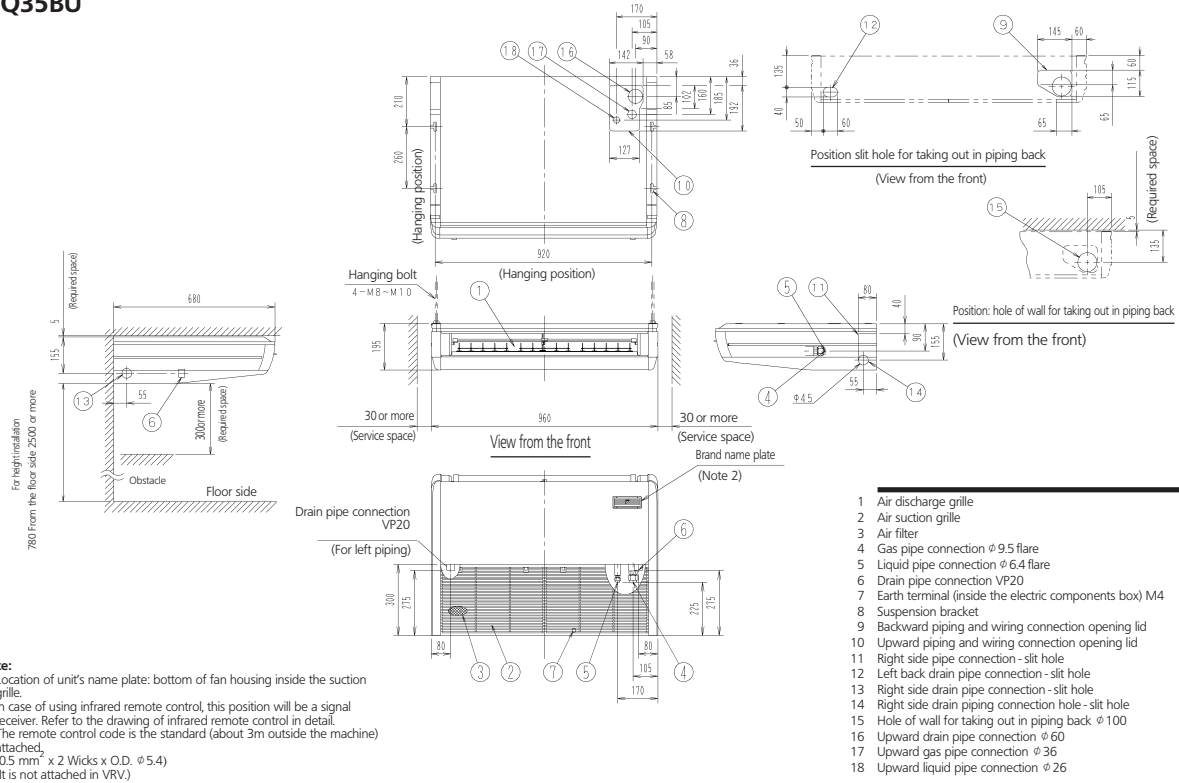
- Nominal cooling capacities are based on: indoor temperature 27°CDB/19°CWB * outdoor temperature 35°CDB * refrigerant piping length: 7.5m * level difference: 0m.
- Nominal heating capacities are based on: indoor temperature: 20°CDB * outdoor temperature: 7°CDB/6°CWB * refrigerant piping length: 7.5m * level difference 0m.
- Capacities are net, including a deduction for cooling (an addition for heating) for indoor fan motor heat.
- 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.
- The sound power level is an absolute value indicating the "power" which a sound source generates.
- Energy label: scale from A (most efficient) to G (less efficient).
- The Energy Label Directive 2002/31/EC will enter into force once the relevant measurement standard will be published in the European Official Standard.
- Annual energy consumption: based on average use of 500 running hours per year at full load (= nominal conditions)



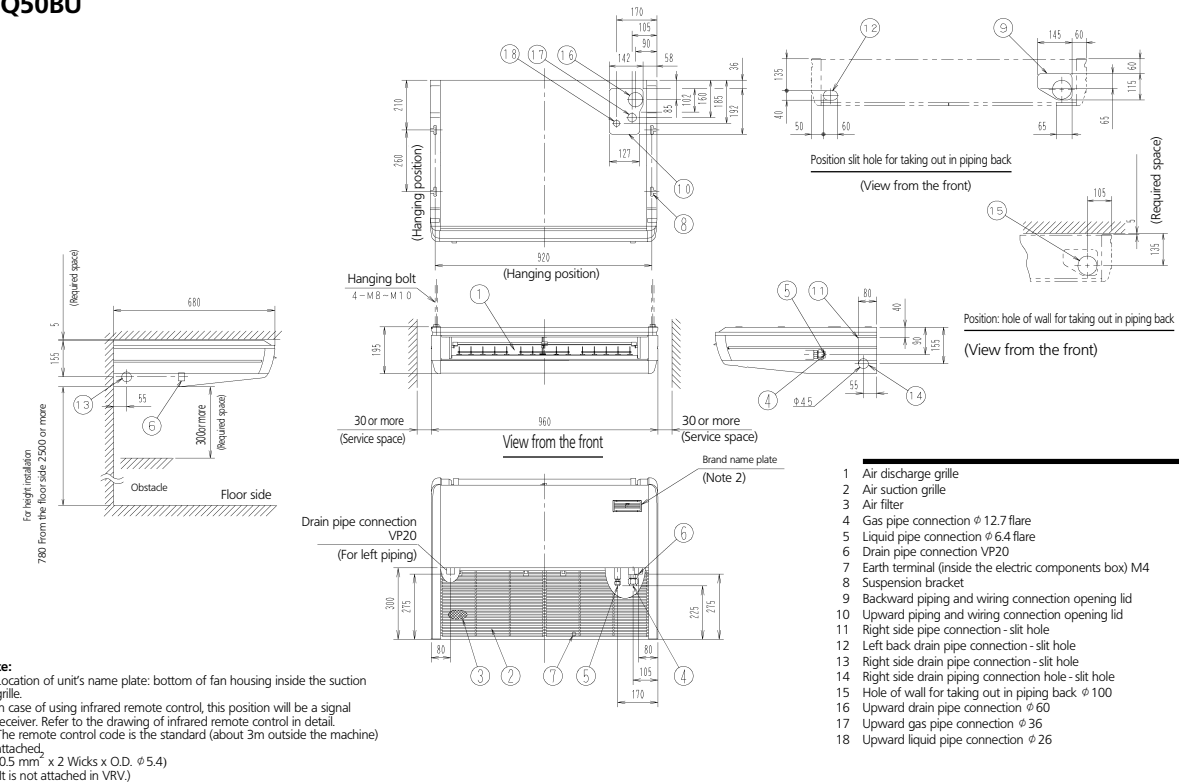
3 Dimensional drawings

3

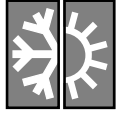
FHQ35BU



FHQ50BU



6



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 mm² x 2 Wicks x O.D. φ 5.4) (It is not attached in VRV.)

Legend:

- 1 Air discharge grille
- 2 Air suction grille
- 3 Air filter
- 4 Gas pipe connection φ 6.4 flare
- 5 Liquid pipe connection φ 6.4 flare
- 6 Drain pipe connection VP20
- 7 Earth terminal (inside the electric components box) M4
- 8 Suspension bracket
- 9 Backward piping and wiring connection opening lid
- 10 Upward piping and wiring connection opening lid
- 11 Right side pipe connection - slit hole
- 12 Left back drain pipe connection - slit hole
- 13 Right side drain pipe connection - slit hole
- 14 Right side drain pipe connection hole - slit hole
- 15 Hole of wall for taking out in piping back φ 100
- 16 Upward drain pipe connection φ 60
- 17 Upward gas pipe connection φ 36
- 18 Upward liquid pipe connection φ 26

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FHQ71BU

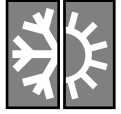
Note:

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 mm² x 2 Wicks x O.D. φ 5.4)

Legend:

- 1 Air discharge grille
- 2 Air suction grille
- 3 Air filter
- 4 Gas pipe connection φ 15.9 flare
- 5 Liquid pipe connection φ 9.5 flare
- 6 Drain pipe connection VP20
- 7 Earth terminal (inside the electric components box) M4
- 8 Suspension bracket
- 9 Backward piping and wiring connection opening lid
- 10 Upward piping and wiring connection opening lid
- 11 Right side pipe connection - slit hole
- 12 Left back drain pipe connection - slit hole
- 13 Right side drain pipe connection - slit hole
- 14 Right side drain pipe connection hole - slit hole
- 15 Hole of wall for taking out in piping back φ 100
- 16 Upward drain pipe connection φ 60
- 17 Upward gas pipe connection φ 36
- 18 Upward liquid pipe connection φ 26

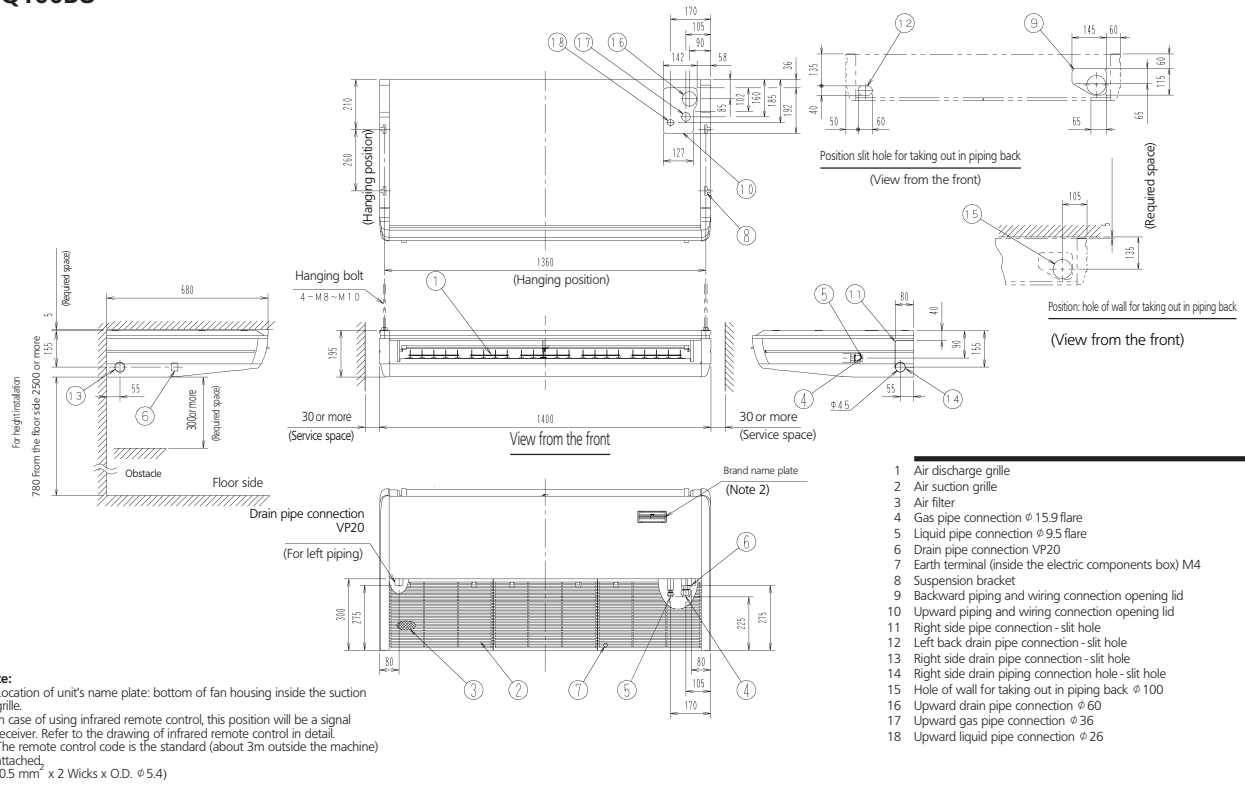
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3 Dimensional drawings

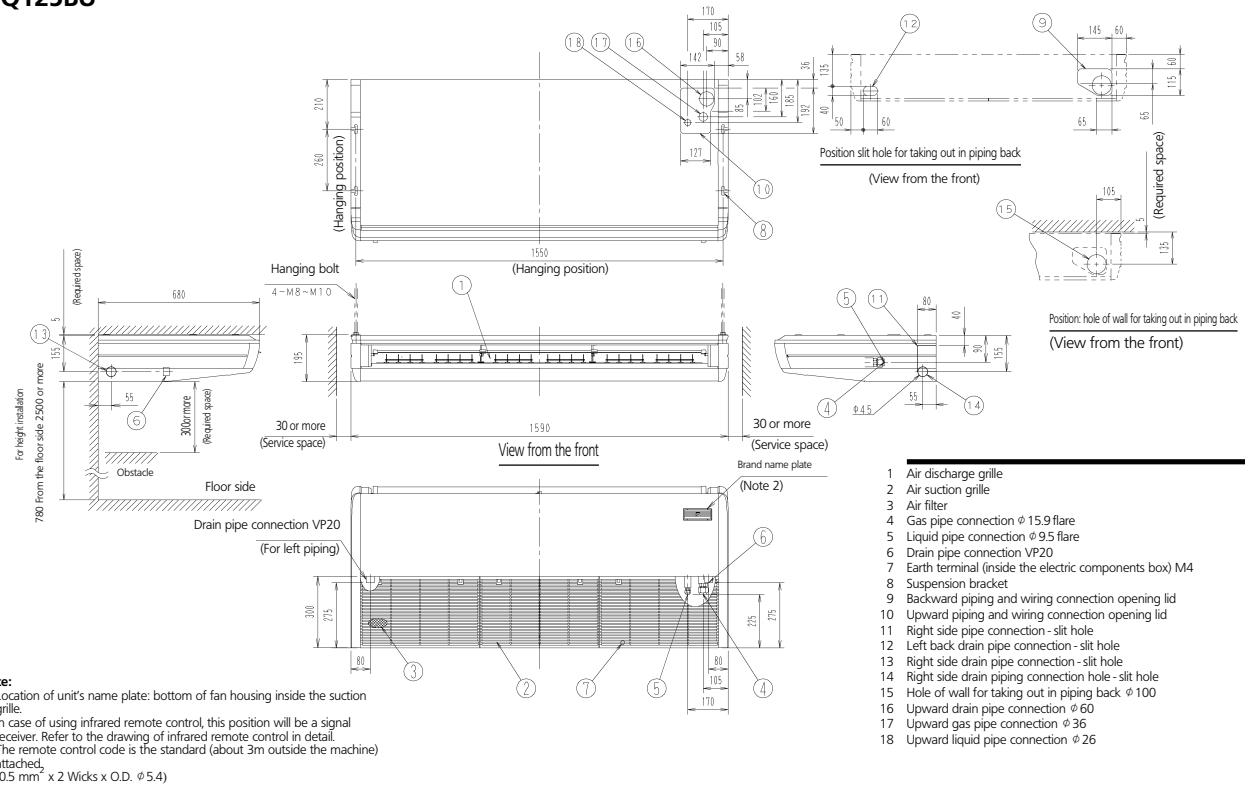
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FHQ100BU



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FHQ125BU



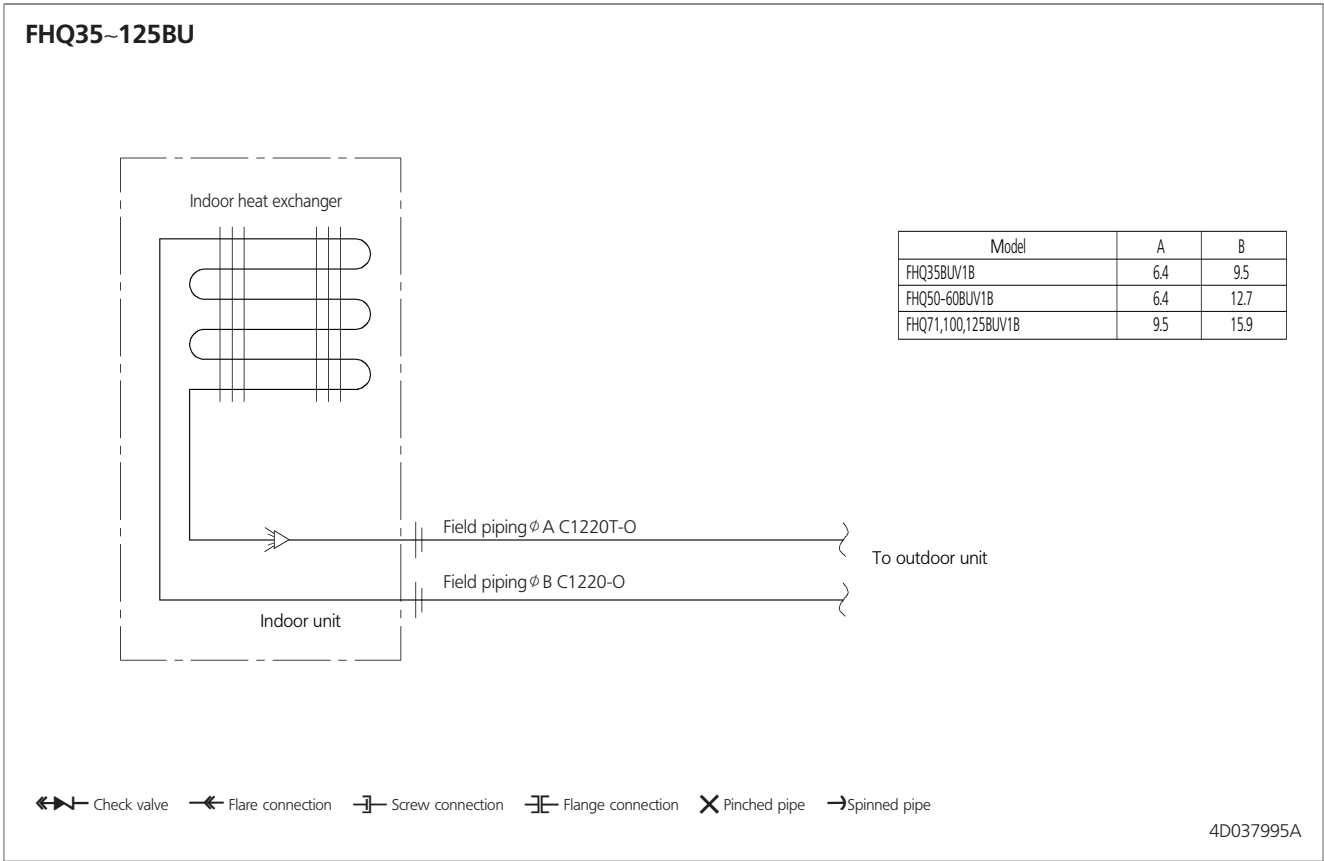
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4 Piping diagrams

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5 Wiring diagrams

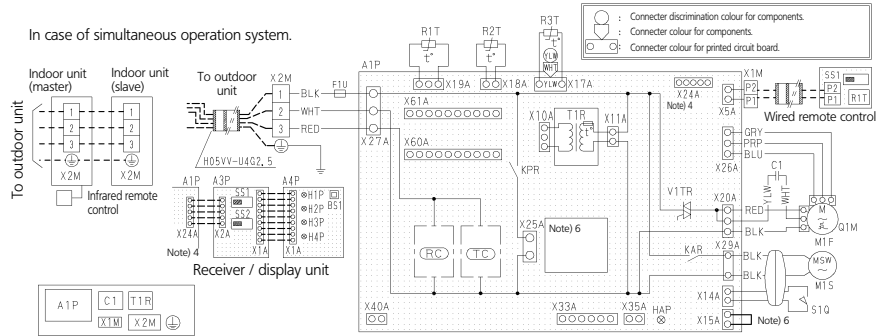
5

FHQ35~60BU

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.

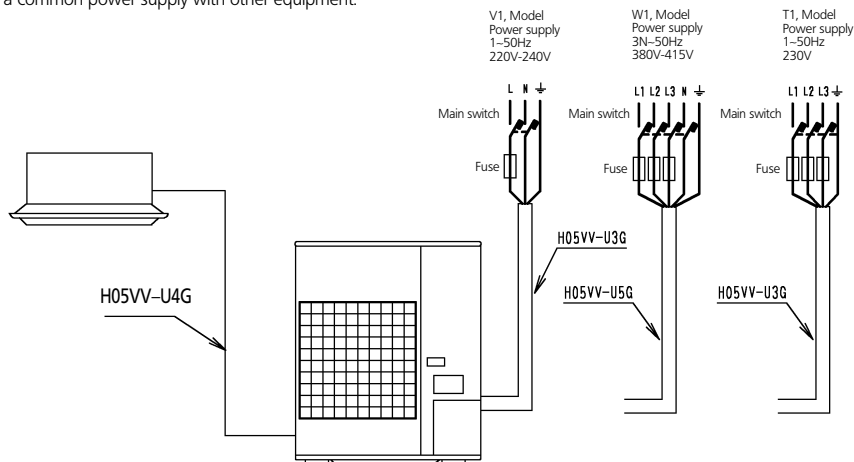


1-RED, 2-WHITE, 3-BLACK	S1Q	Limit switch (swing flap)	Infrared remote control	Receiver / display unit	Connector for optional parts
A1P Printed circuit board	T1R	Transformer(220-240V/22V)	Receiver / display unit	A3P Printed circuit board	X15A Connector (float switch)
C1R Capacitor (M1F)	V1TR	Phase control circuit	A3P Printed circuit board	A4P Push button (on/off)	X25A Connector (drain pump)
F1U Fuse(F5A, 250V)	X1M	Terminal block	A4P Push button (on/off)	H1P Light emitting diode (service monitor red)	X33A Connector (adapter for wiring)
HAP Light emitting diode (service monitor green)	X2M	Terminal block	H1P Light emitting diode (service monitor red)	H2P Light emitting diode (service monitor green)	X35A Connector (group control adapter)
KAR Magnetic relay (M1P)	X3M	Signal receiver circuit	H2P Light emitting diode (service monitor green)	H3P Light emitting diode (service monitor red)	X40A Connector (ON/OFF input from outside)
KPR Magnetic relay (M1P)	(RC)	Signal transmission circuit	H3P Light emitting diode (service monitor red)	H4P Light emitting diode (service monitor orange)	X60A Connector (interface adapter for sky air series)
M1S Motor (swing flap)	(TC)	Wired remote control	H4P Light emitting diode (service monitor orange)	SS1 Selector switch (main/sub)	X61A
M1F Motor (indoor fan)	RIT	Thermistor (air)	SS1 Selector switch (main/sub)	SS2 Selector switch (wireless address set)	
Q1M Thermo switch (M1F embedded)	SS1	Selector switch (main/sub)	SS2 Selector switch (wireless address set)		
R1T Thermistor (coil)					
R2T Thermistor (coil)					
R3T Thermistor (coil)					

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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 wiring and mains switch 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.



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6 Sound level

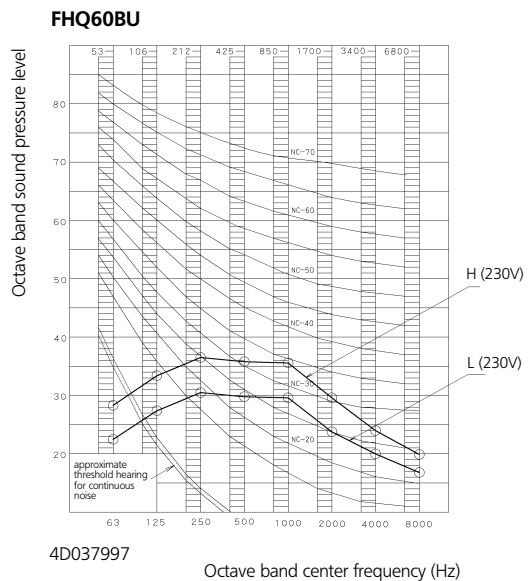
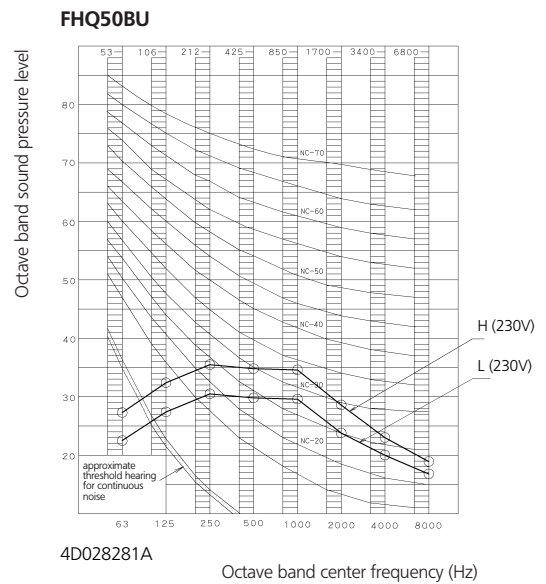
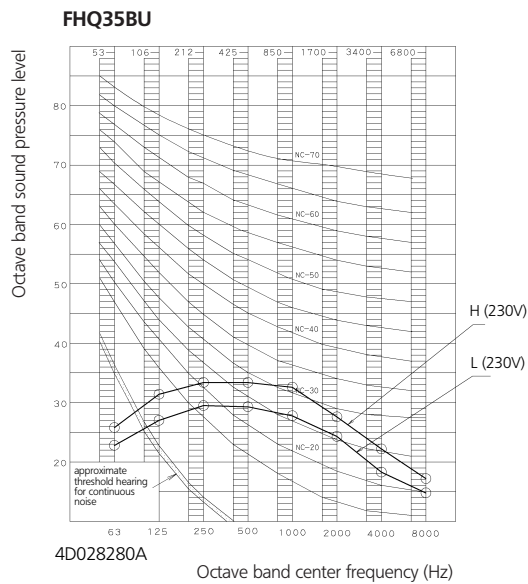
6-1 Sound level data

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6-1

Model	Sound pressure level		Measuring location	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	Location of microphone 	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.



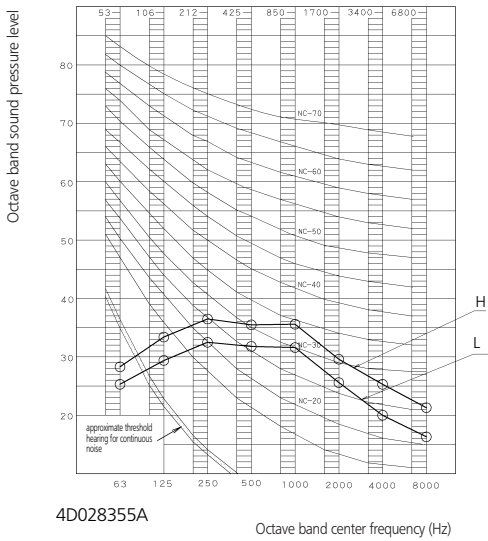
6 Sound level

6-2 Sound pressure spectrum

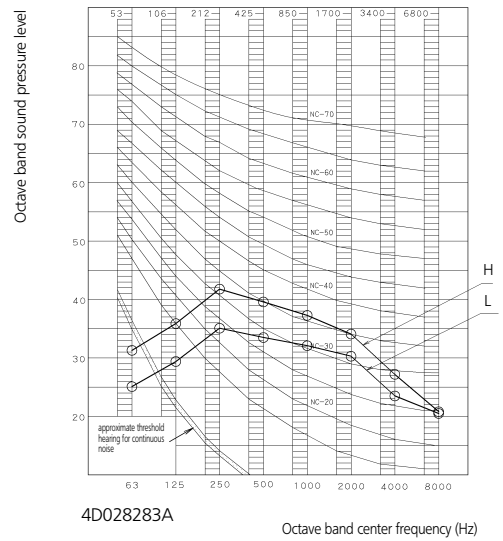
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6-2

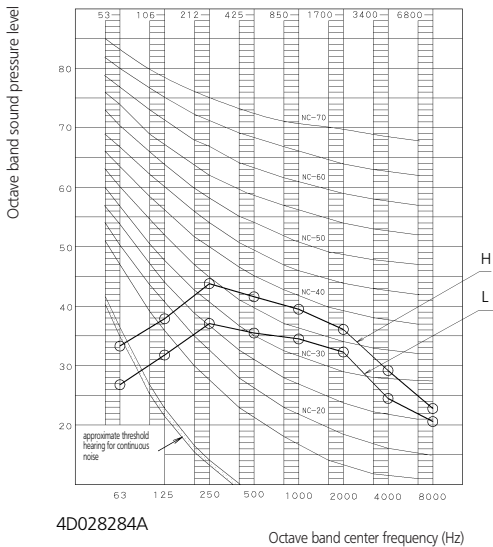
FHQ71BU



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.

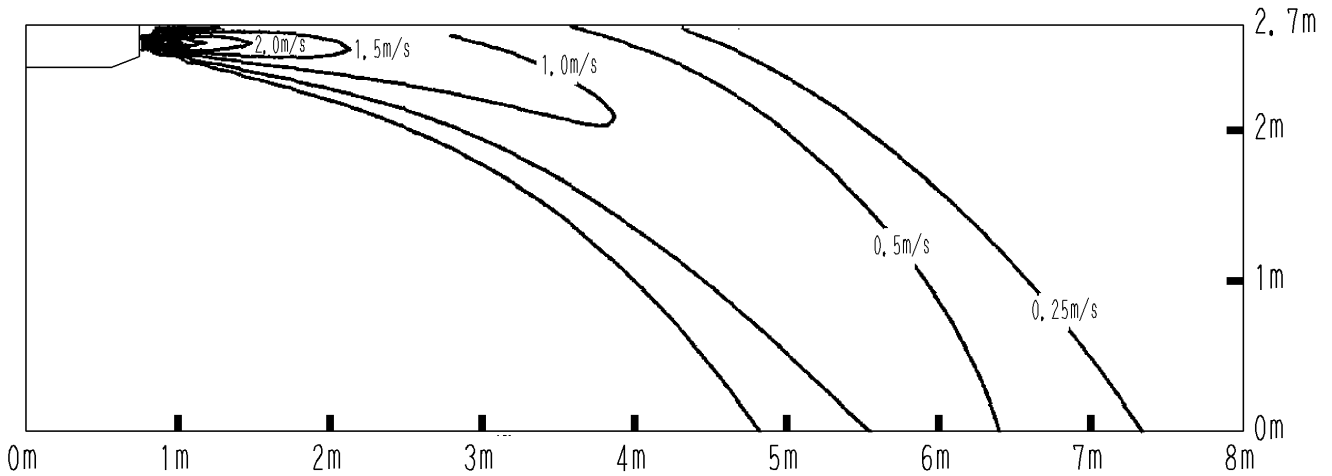


7 Air flow patterns

7 FHQ35-50BU

Cooling - air velocity distribution

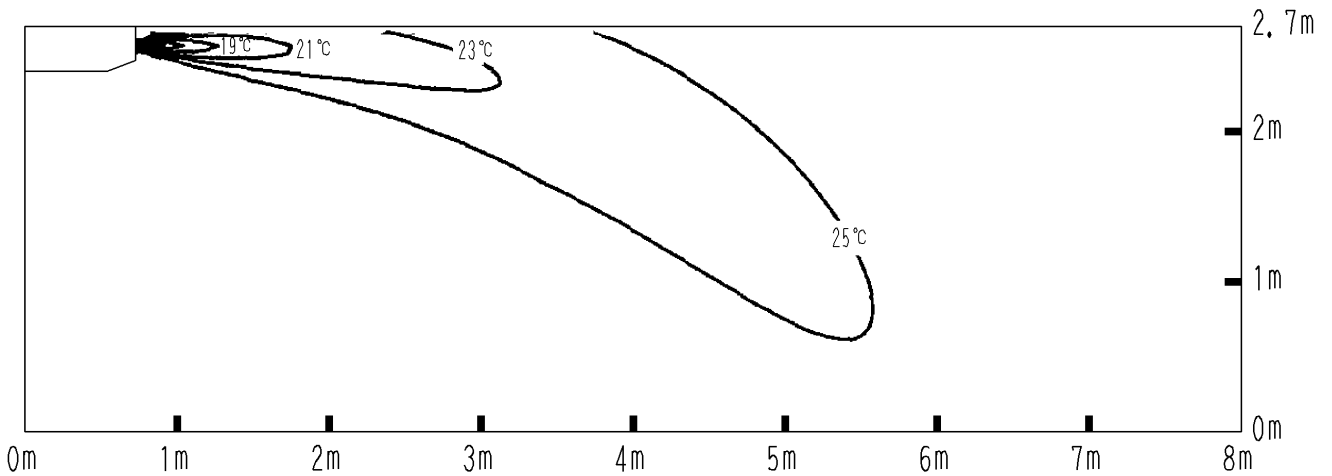
Air flow direction: horizontal



FHQ35-50BU

Cooling - air temperature distribution

Air flow direction: horizontal



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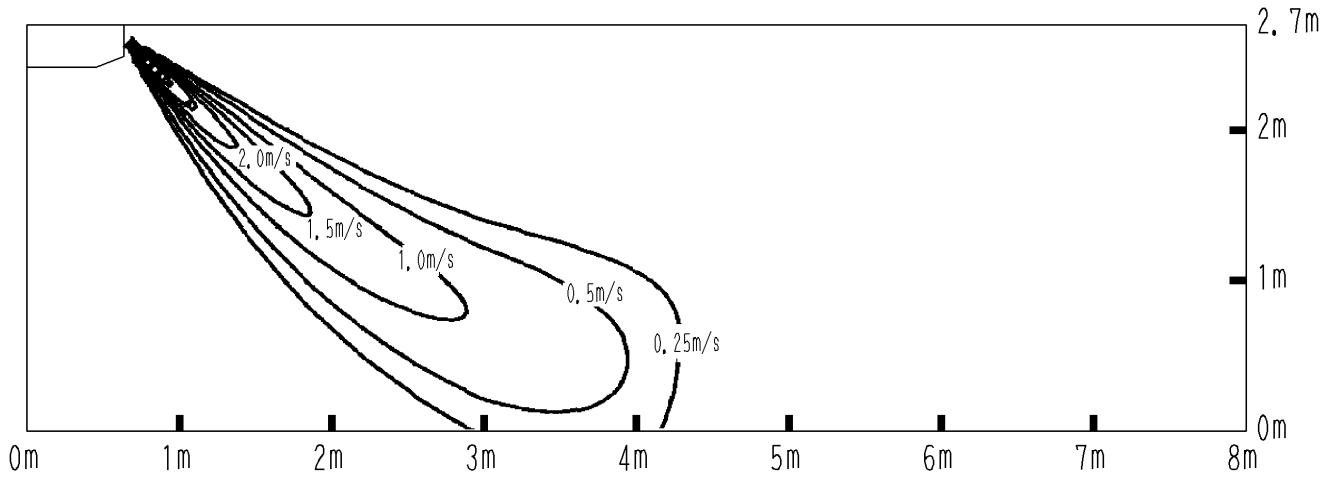


7 Air flow patterns

FHQ35-50BU

Heating - air velocity distribution

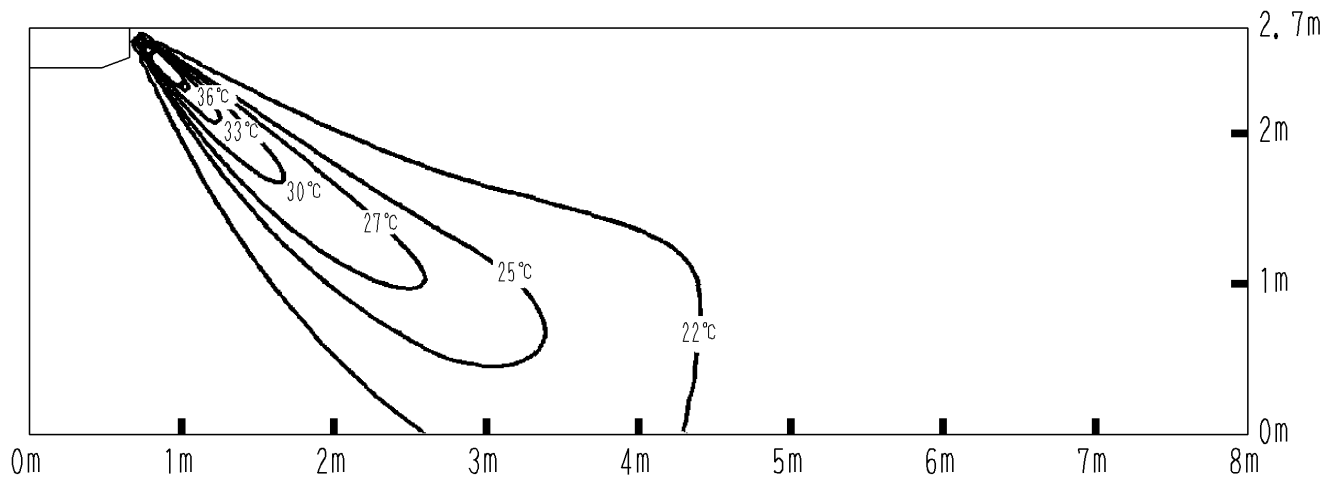
Air flow direction: 45° (downward)



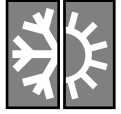
FHQ35-50BU

Heating - air temperature distribution

Air flow direction: 45° (downward)



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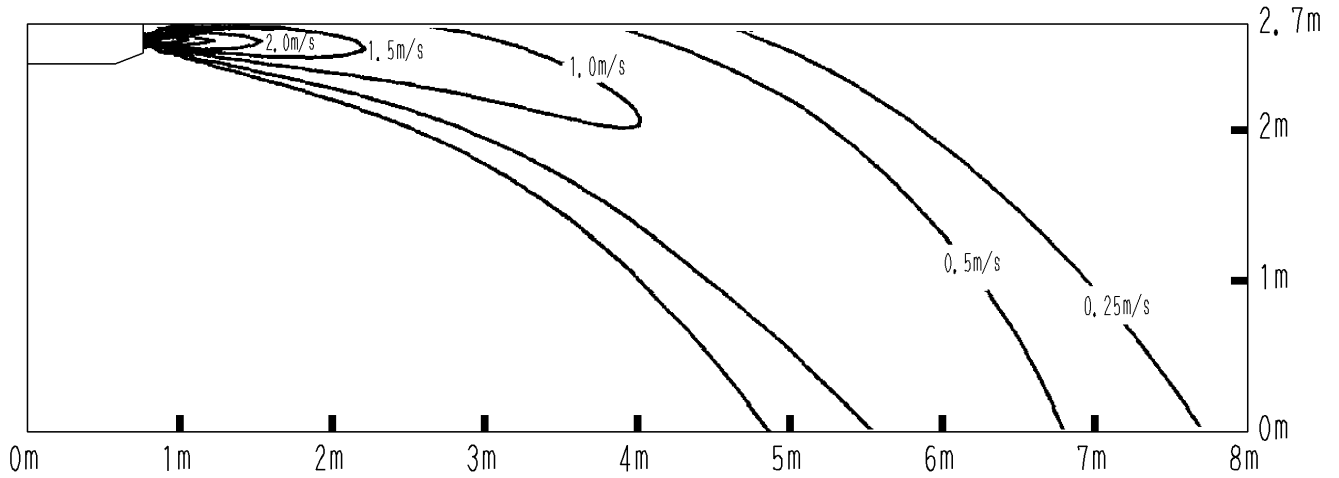


7 Air flow patterns

7 FHQ60BU

Cooling - air velocity distribution

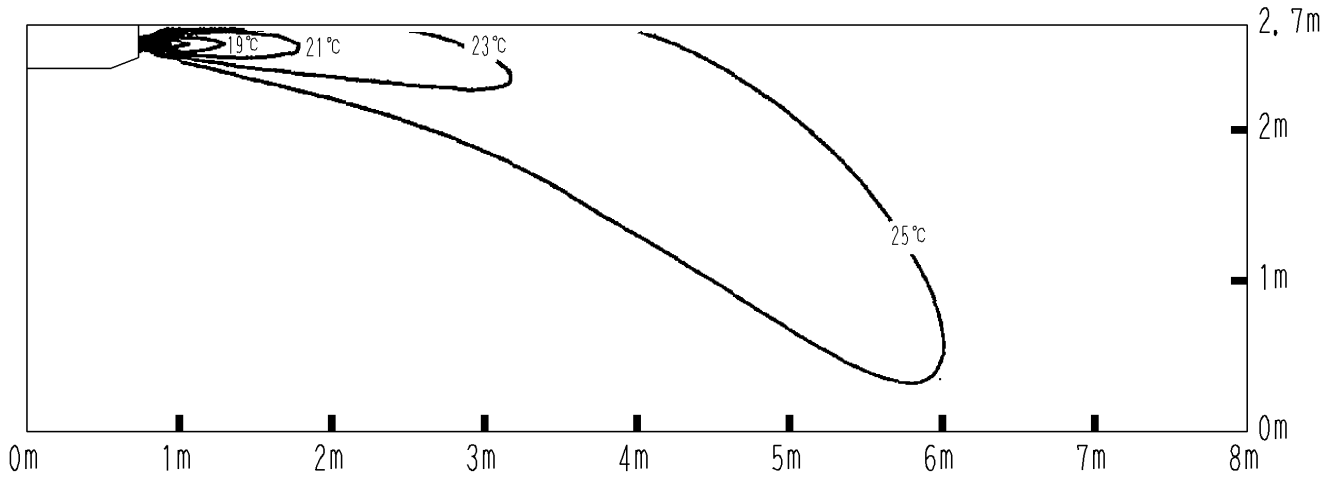
Air flow direction: horizontal



FHQ60BU

Cooling - air temperature distribution

Air flow direction: horizontal



4D028551



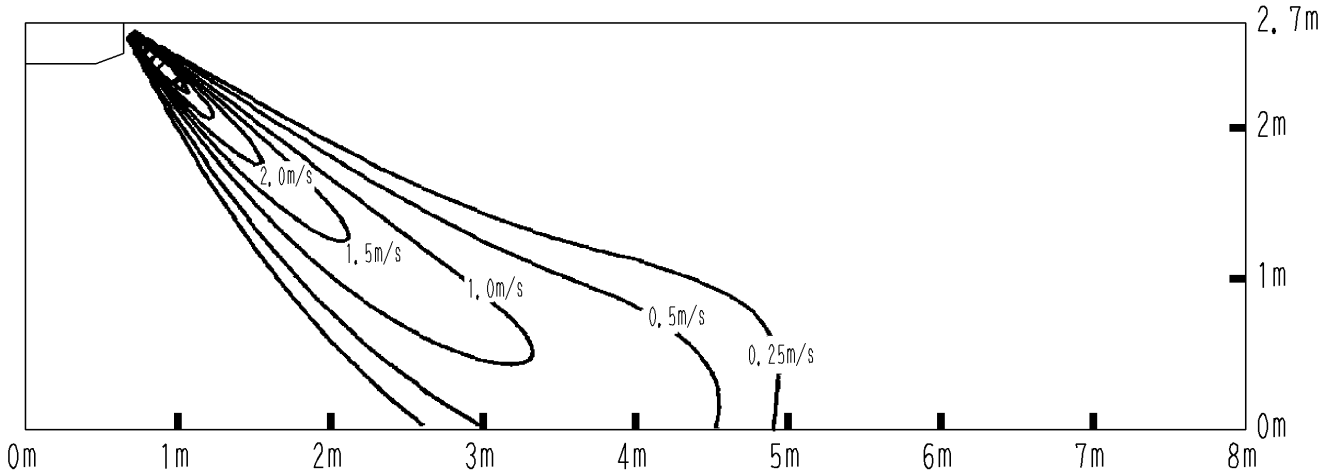
7 Air flow patterns

7

FHQ60BU

Heating - air velocity distribution

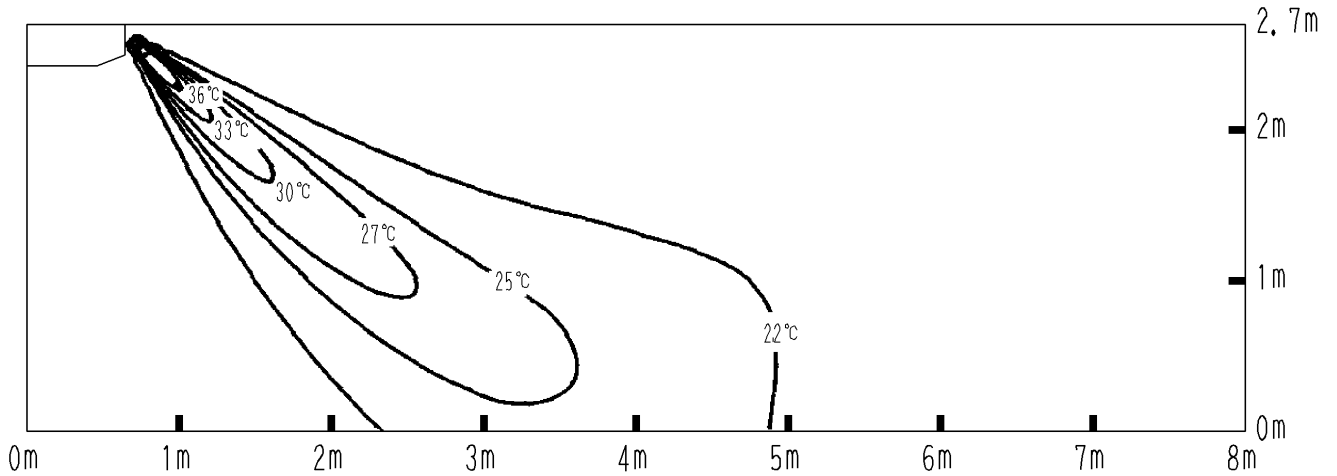
Air flow direction: 45° (downward)



FHQ60BU

Heating - air temperature distribution

Air flow direction: 45° (downward)



4D028555

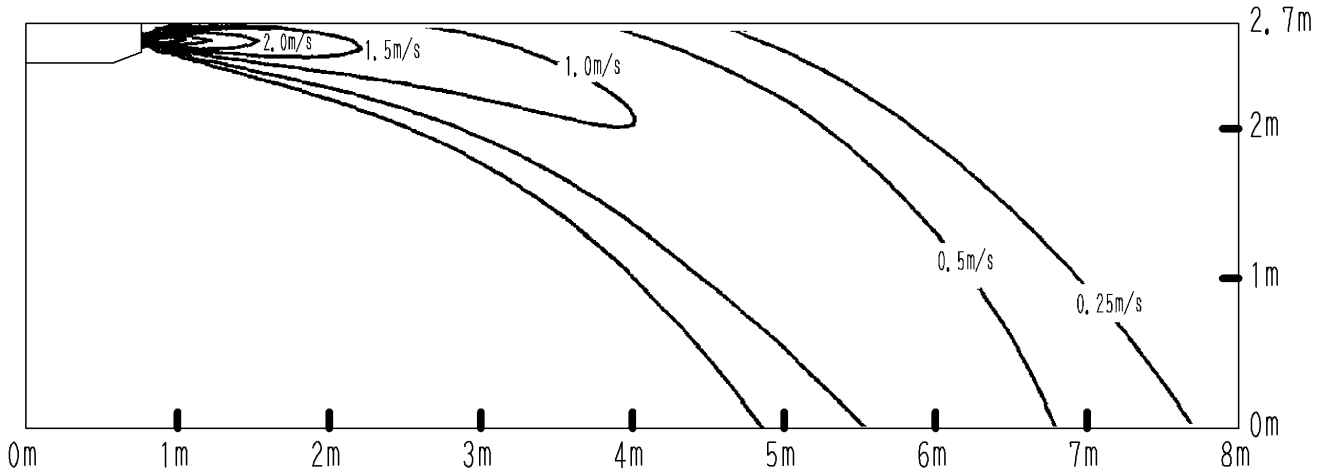


7 Air flow patterns

7 FHQ71BU

Cooling - air velocity distribution

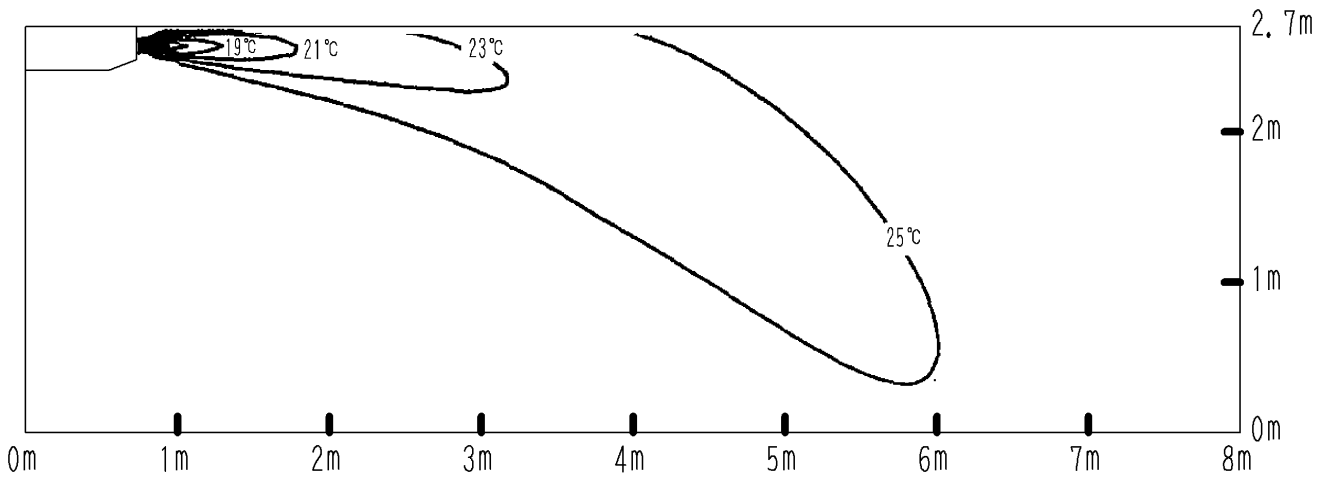
Air flow direction: horizontal



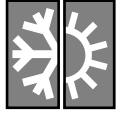
FHQ71BU

Cooling - air temperature distribution

Air flow direction: horizontal



4D028551A

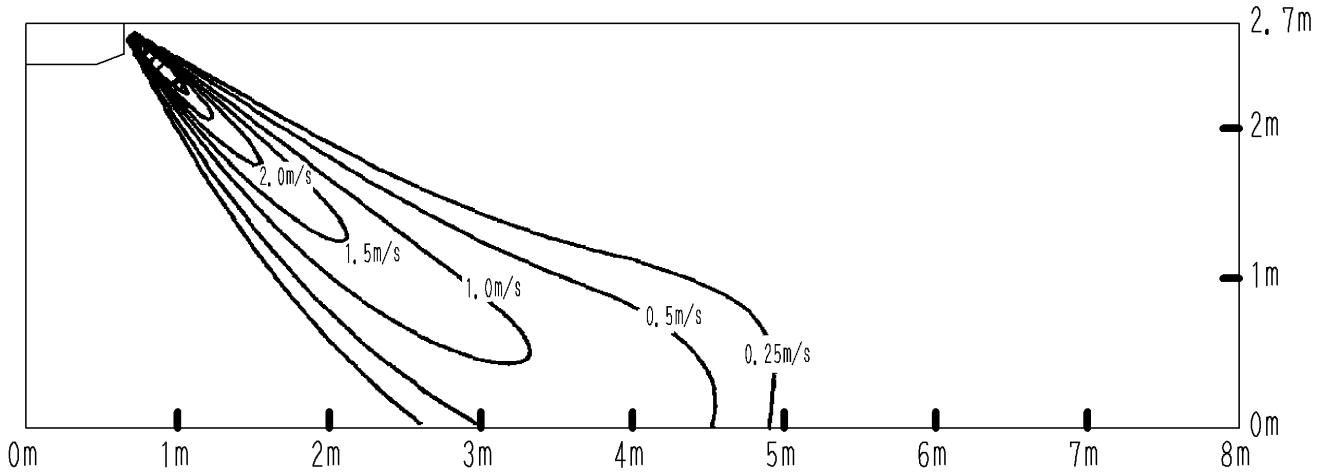


7 Air flow patterns

FHQ71BU

Heating - air velocity distribution

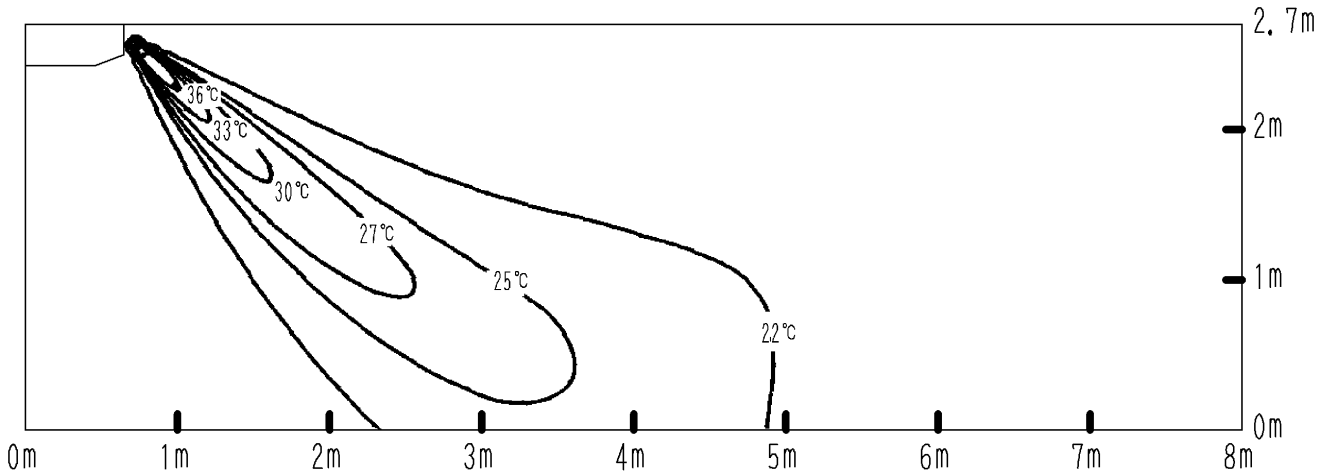
Air flow direction: 45° (downward)



FHQ71BU

Heating - air temperature distribution

Air flow direction: 45° (downward)



4D028555A

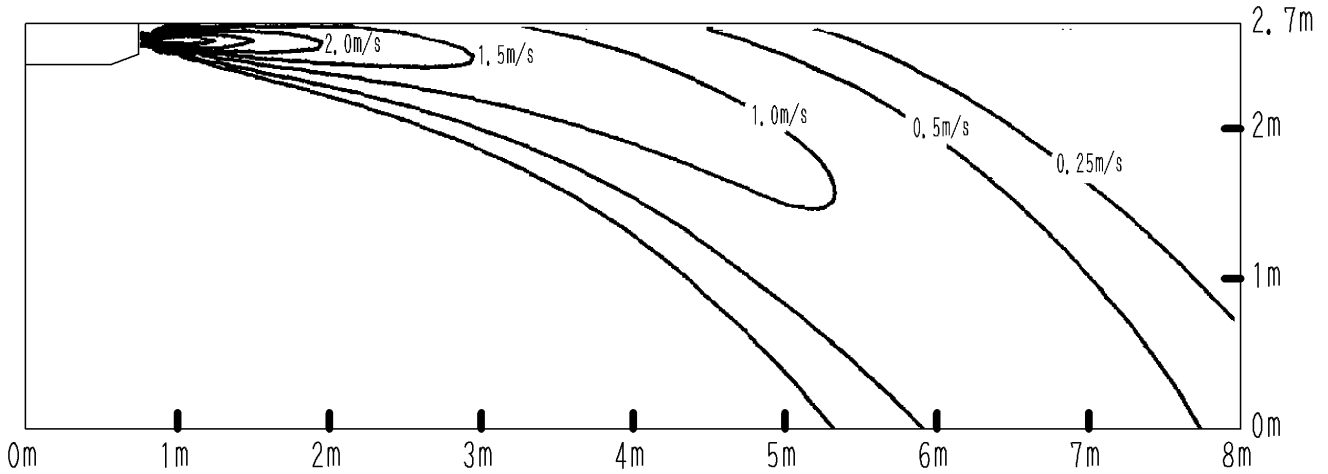


7 Air flow patterns

7 FHQ100BU

Cooling - air velocity distribution

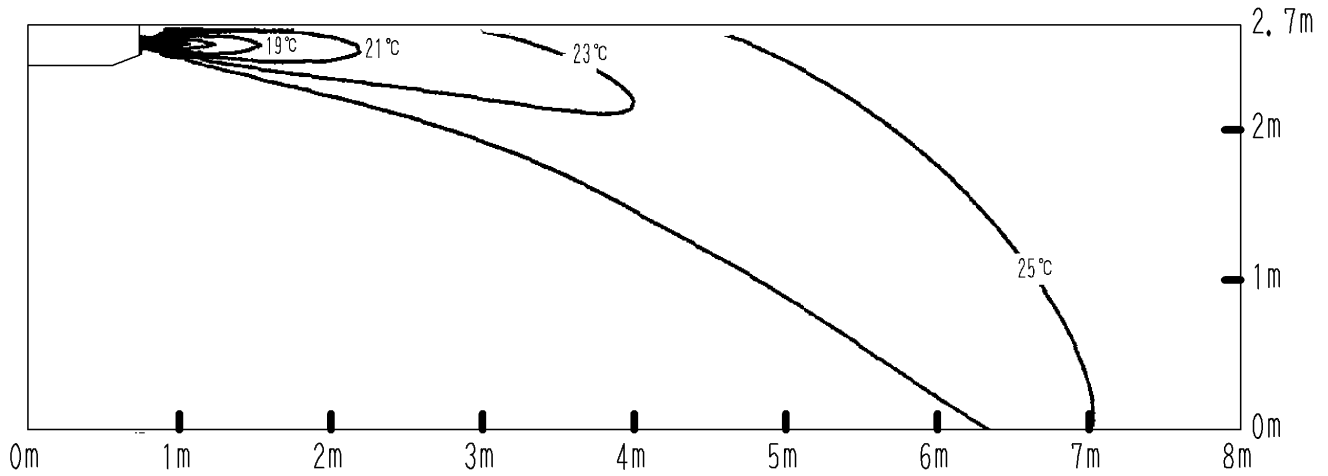
Air flow direction: horizontal



FHQ100BU

Cooling - air temperature distribution

Air flow direction: horizontal



4D028552A

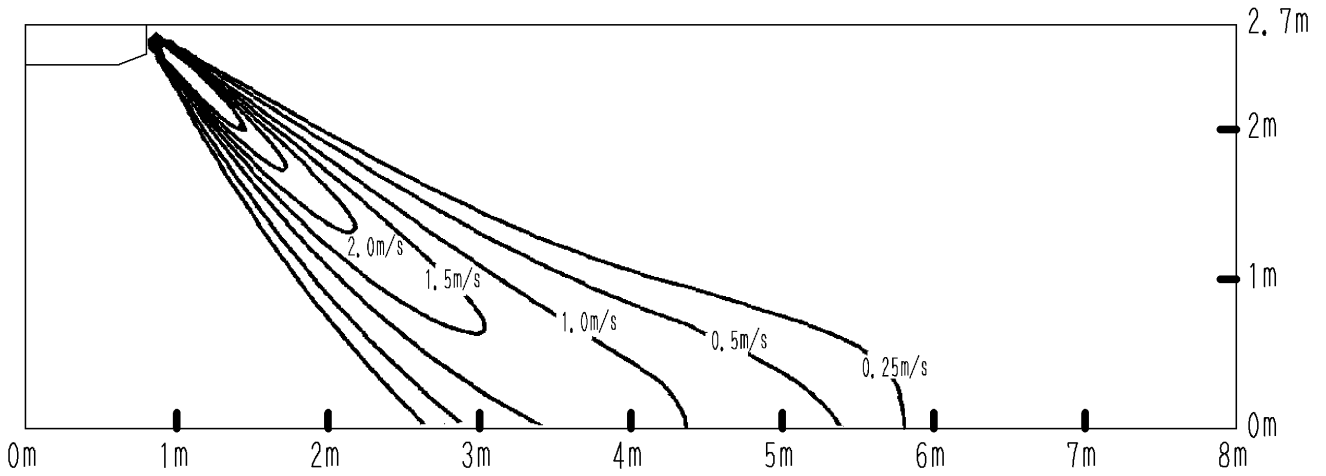


7 Air flow patterns

FHQ100BU

Heating - air velocity distribution

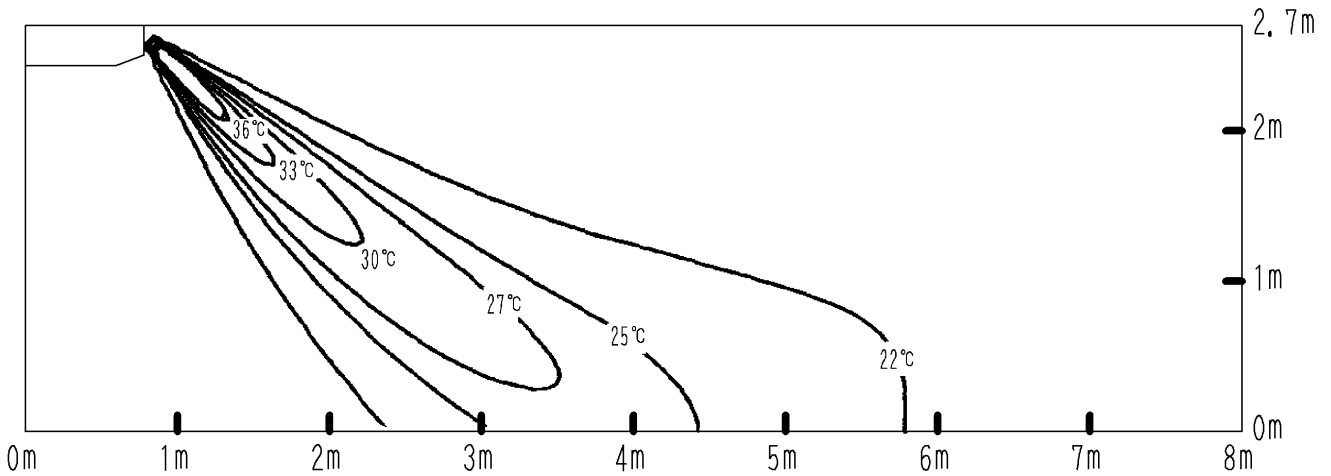
Air flow direction: 45° (downward)



FHQ100BU

Heating - air temperature distribution

Air flow direction: 45° (downward)



4D028556A

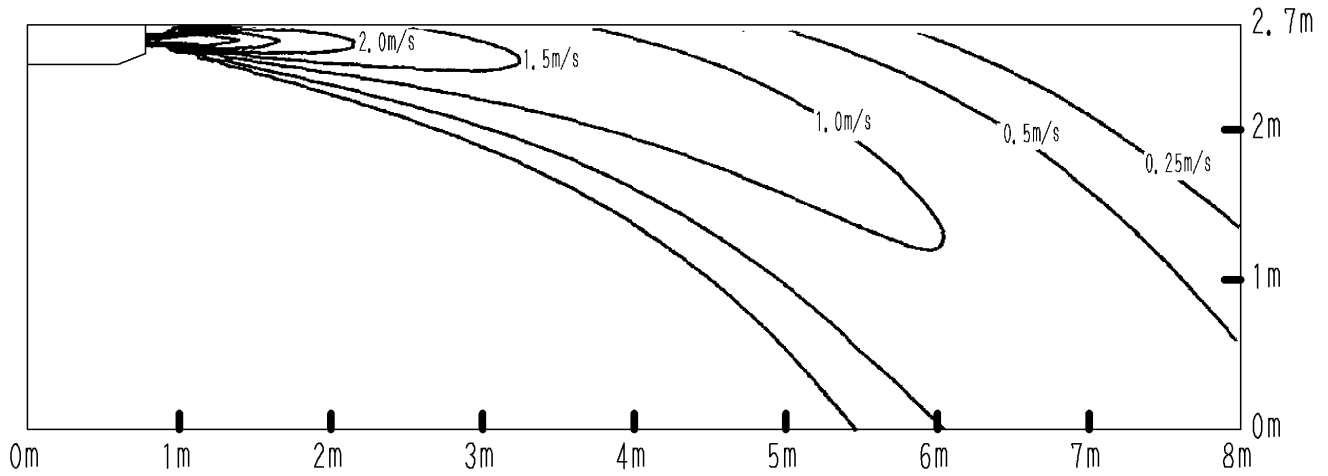


7 Air flow patterns

7 FHQ125BU

Cooling - air velocity distribution

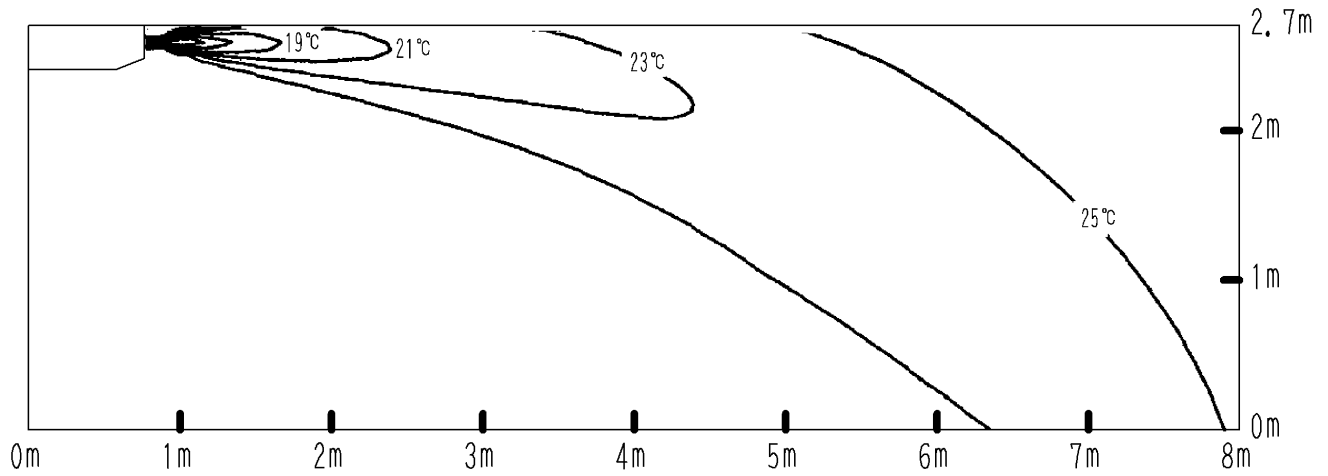
Air flow direction: horizontal



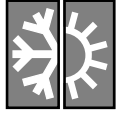
FHQ125BU

Cooling - air temperature distribution

Air flow direction: horizontal



4D028553A

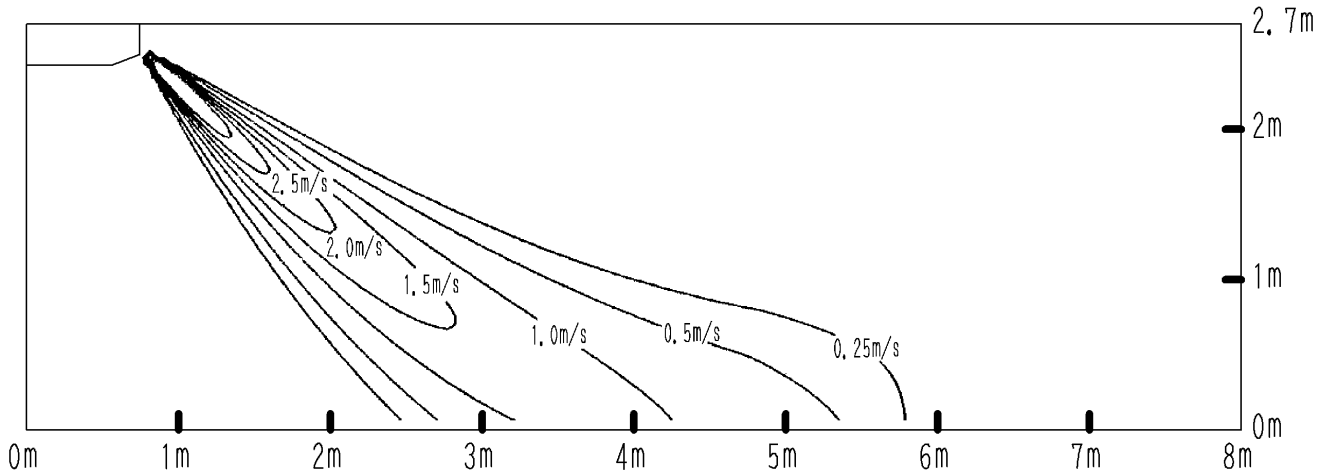


7 Air flow patterns

FHQ125BU

Heating - air velocity distribution

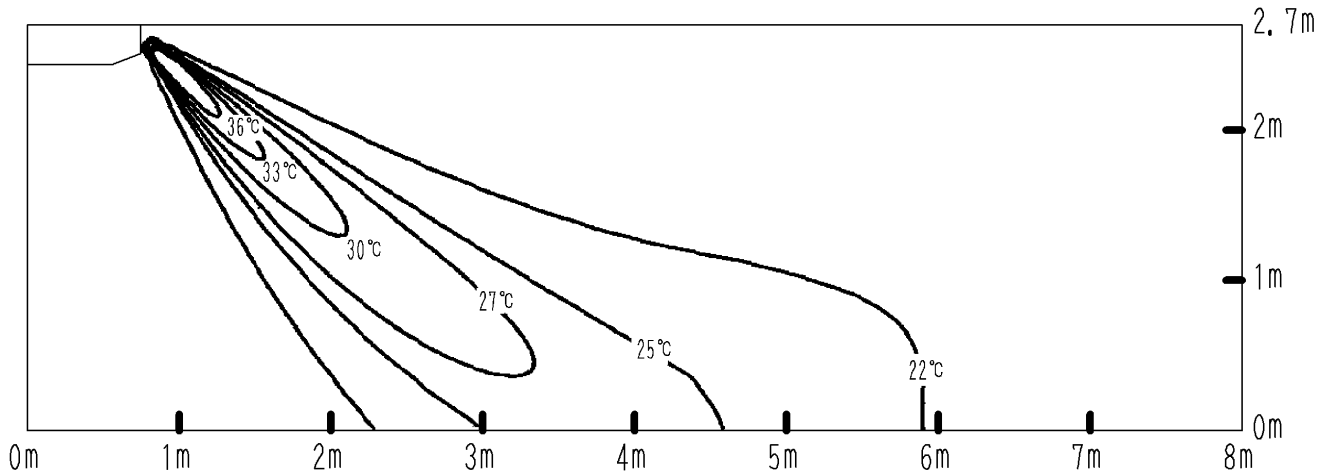
Air flow direction: 45° (downward)



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	for heat pump type	BRC7E63W	
		for cooling only type	BRC7E66	
Remote controller		DCS302B51		
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		

3D0344485

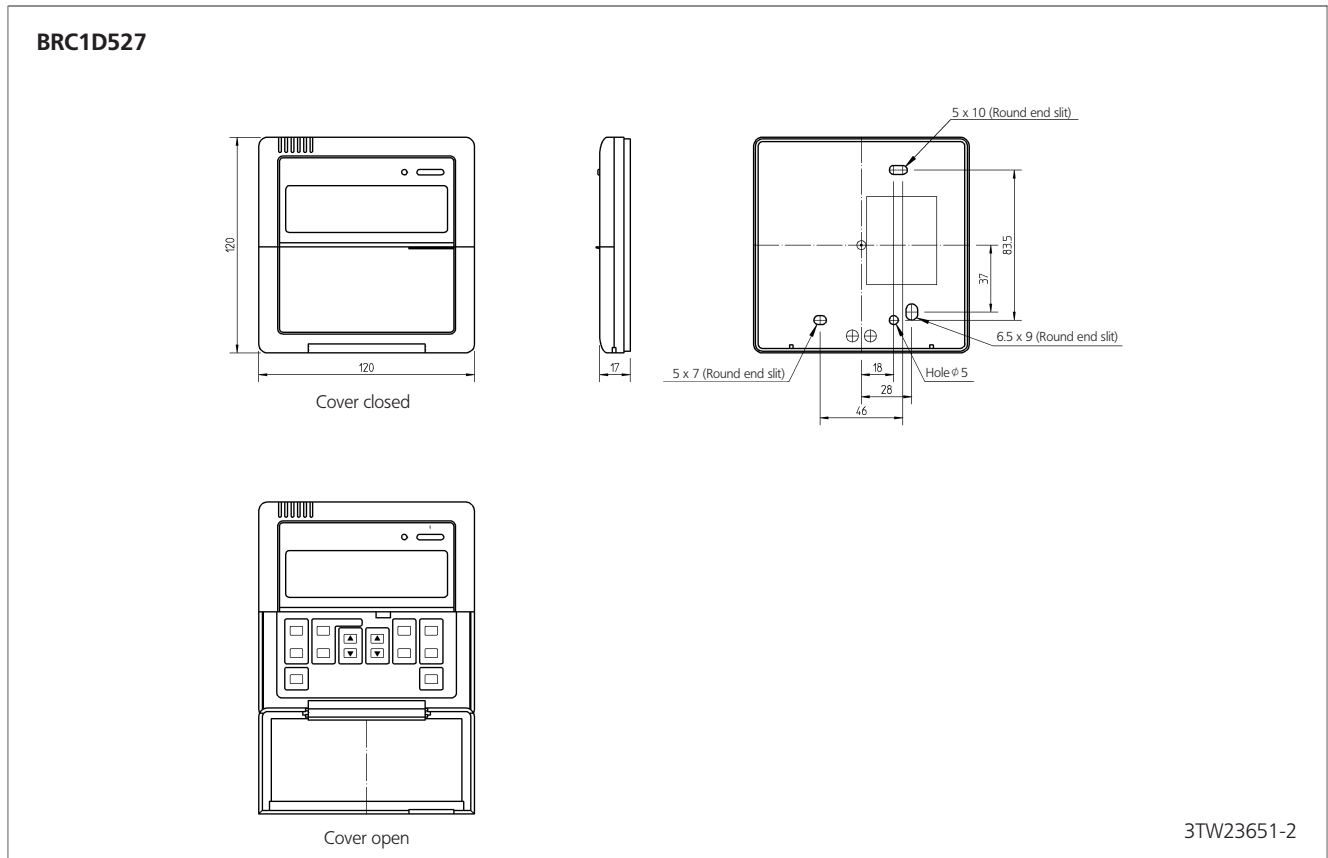
Note ※1: Installation box for adapter PCB (KRP1C93) is necessary.



9 Control systems

9-1 Wired remote control

9
9-1



10 Safety device settings

FHQ35-60BU

Model	Safety devices	35	50	60
FHQ-BUV1B	Fuse	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

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