



technical data

FH(Y)C-B7



**4-Way Blow Ceiling
Mounted Cassette**

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.



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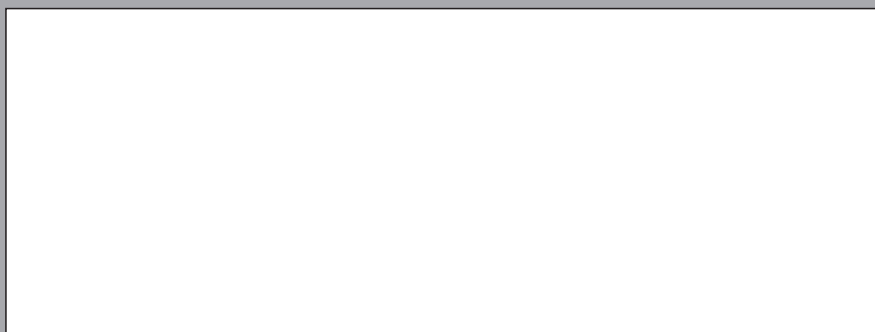


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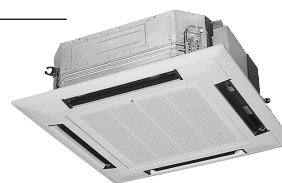


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For capacity tables, please refer to part II: outdoor units

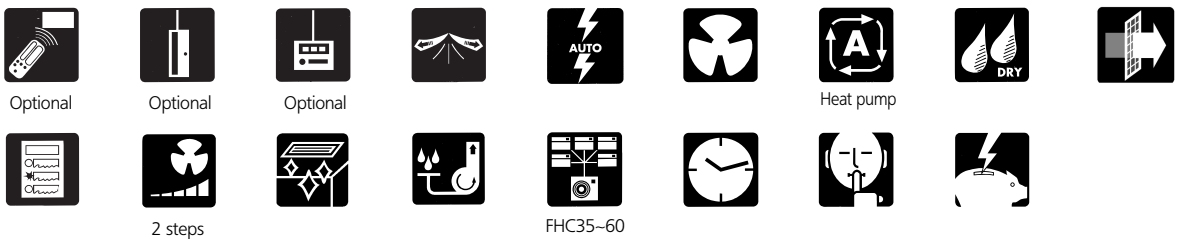
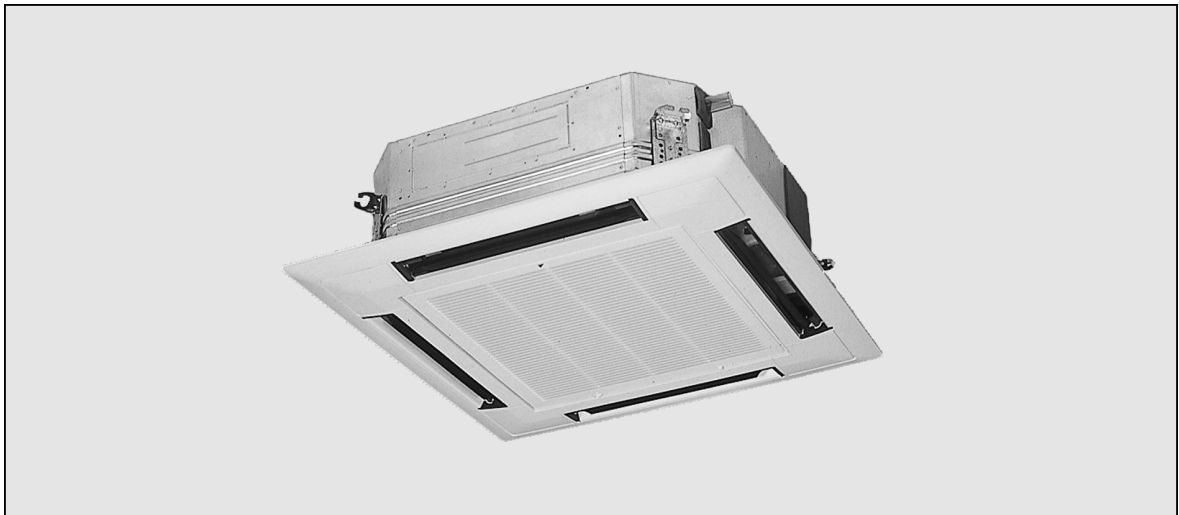
Note: R-22 cooling only models, which are produced after 01/07/2002, cannot be sold inside countries that follow the European Regulation n°2037/2000 EE of 29/09/2000.



1 Features

- Leaves maximum floor and wall space for furniture, decoration and fittings
- Fits flush into each ceiling
- Can be installed in both new and existing buildings
- Extremely quiet in operation both indoors and outdoors
- Air can be discharged in any of four directions
- Possibility of using 1 or 2 branches for better air distribution
- Possibility to shut off 1 or 2 flaps for easy installation in corners
- Air flow distribution for ceiling heights up to 4.2m without loss of capacity
- 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



2

2 Specifications



NOMINAL CAPACITY and NOMINAL INPUT					
For indoor units only:					
INDOOR UNITS			FHC35B7V15	FHC45B7V15	FHC60B7V15
NOMINAL INPUT	Cooling	kW	0.14	0.14	0.161

For combination indoor units + outdoor units:					
INDOOR UNITS			FHC35B7V15	FHC45B7V15	FHC60B7V15
OUTDOOR UNITS			R35DC7V115	R45DC7V115/W115	R60FA7V15/W15
NOMINAL CAPACITY (1)	Cooling (2)	kW	3.90	5.20	6.50
NOMINAL INPUT	Cooling	kW	1.36	2.15/2.15	2.42/2.42

TECHNICAL SPECIFICATIONS						
For indoor units only:						
INDOOR UNITS				FHC35B7V15	FHC45B7V15	FHC60B7V15
DIMENSIONS	Unit	H	mm	230	230	230
		W	mm	840	840	840
		D	mm	840	840	840
	Decoration panel	H	mm	40	40	40
		W	mm	950	950	950
		D	mm	950	950	950
WEIGHT	Unit		kg	23	23	23
	Decoration panel		kg	5	5	5
MATERIAL	Unit	Galvanised steel plate				
COLOUR	Decoration panel	White				
SOUND LEVEL	Sound pressure (3)	high	dB(A)	31	31	33
		low	dB(A)	27	27	28
	Sound power (4)		dB(A)	48	48	50
FAN	Air flow rate (cooling)	high	m ³ /min	14	15	18
		low	m ³ /min	10	11	14
	Speed	steps		2 steps	2 steps	2 steps
	Drive			Direct drive		
	Type			Turbo fan		
	Qty x model			1 x QTS46B14M	1 x QTS46B14M	1 x QTS46B14M
Qty x motor output		W	1 x 45	1 x 45	1 x 45	
HEAT EXCHANGER	Type	Cross fin coil, ϕ 7 Hi-HA tubes				
	Rows x stages x fin pitch	mm	2 x 8 x 1.5	2 x 8 x 1.5	2 x 8 x 1.5	
	Face area	m ²	0.331	0.331	0.331	
AIR FILTER	Resin net (with mold resistant)					
TEMPERATURE CONTROL	Computerised control					
PIPING CONNECTIONS	liquid	mm	ϕ 6.4 (flare)	ϕ 6.4 (flare)	ϕ 6.4 (flare)	
	gas	mm	ϕ 12.7 (flare)	ϕ 15.9 (flare)	ϕ 15.9 (flare)	
	drain	mm		VP25 (I.D. ϕ 25)		
	drain	mm		VP25 (O.D. ϕ 32)		
INSULATION MATERIAL	Heat insulation tape	Foamed polystyrene				
	Sound absorbing insulation	Foamed polystyrene				
For outdoor units only:	Pair application	See chapter R				
	Multi model application	See chapter MA				

2 Specifications



NOMINAL CAPACITY and NOMINAL INPUT					
For indoor units only:					
INDOOR UNITS			FHYC71B7V1	FHYC100B7V1	FHYC125B7V1
NOMINAL INPUT	Cooling	kW	0.161	0.204	0.238

For combination indoor units + outdoor units:					
INDOOR UNITS			FHYC71B7V1	FHYC100B7V1	FHYC125B7V1
OUTDOOR UNITS			R71B7V15/WV15	R100B7V15/WV15	R125B7W15
NOMINAL CAPACITY (1)	Cooling (2)	kW	7.30	10.20	12.30
NOMINAL INPUT	Cooling	kW	3.00/2.80	3.70/3.40	4.50

TECHNICAL SPECIFICATIONS						
For indoor units only:						
INDOOR UNITS				FHYC71B7V1	FHYC100B7V1	FHYC125B7V1
DIMENSIONS	Unit	H	mm	230	288	288
		W	mm	840	840	840
		D	mm	840	840	840
	Decoration panel	H	mm	40	40	40
		W	mm	950	950	950
		D	mm	950	950	950
WEIGHT	Unit		kg	23	27	27
	Decoration panel		kg	5	5	5
MATERIAL	Unit	Galvanised steel plate				
COLOUR	Decoration panel			White	White	White
SOUND LEVEL	Sound pressure (3)	high	dB(A)	33	37	40
		low	dB(A)	28	32	35
	Sound power (4)		dB(A)	50	53	56
FAN	Air flow rate (cooling)	high	m ³ /min	18	28	31
		low	m ³ /min	14	21	24
	Speed	steps	2 steps			
	Drive	Direct drive				
	Type	Turbo fan				
	Qty x model			1 x QTS46B14M	1 x QTS46A17M	1 x QTS46A17M
Qty x motor output	W	1 x 45		1 x 90	1 x 90	
HEAT EXCHANGER	Type	Cross fin coil, ϕ 7 Hi-HA tubes				
	Rows x stages x fin pitch	mm	2 x 8 x 1.5	2 x 12 x 1.5	2 x 12 x 1.5	
	Face area	m ²	0.331	0.497	0.497	
AIR FILTER	Resin net (with mold resistant)					
TEMPERATURE CONTROL	Computerised control					
PIPING CONNECTIONS	liquid	mm	ϕ 9.5 (flare)	ϕ 9.5 (flare)	ϕ 9.5 (flare)	
	gas	mm	ϕ 15.9 (flare)	ϕ 19.1 (flare)	ϕ 19.1 (flare)	
	drain	mm	VP25 (I.D. ϕ 25)			
	drain	mm	VP25 (O.D. ϕ 32)			
INSULATION MATERIAL	Heat insulation tape	Foamed polystyrene				
	Sound absorbing insulation	Foamed polystyrene				
For outdoor units only:	Pair application	See chapter R				

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2 Specifications



ELECTRICAL SPECIFICATIONS					
For indoor units only:			FHC35B7V1	FHC45B7V1	FHC60B7V1
CURRENT	Nominal running current	A	See chapter R: Electrical data		
	Max. running current	A			

For combination indoor units + outdoor units:			FHC35B7V15	FHC45B7V15	FHC60B7V15
			R35DC7V115	R45DC7V115/W115	R60FA7V15/W15
CURRENT	Nominal running current	A	6.1	10.8/4.4	10.4/5.2
	Maximum running current	A	See chapter R: Electrical data		
	Starting current	A	26	44/19	53/27

For indoor units only:			FHC35B7V15	FHC45B7V15	FHC60B7V15
POWER SUPPLY			V1	V1	V1
NOMINAL DISTRIBUTION SYSTEM VOLTAGE	Phase		1~	1~	1~
	Frequency	Hz	50	50	50
	Voltage	V	230	230	230

ELECTRICAL SPECIFICATIONS					
For indoor units only:			FHYC71B7V1	FHYC100B7V1	FHYC125B7V1
CURRENT	Nominal running current	A	See chapter R: Electrical data		
	Max. running current	A			

For combination indoor units + outdoor units:			FHYC71B7V1	FHYC100B7V1	FHYC125B7V1
			R71B7V1/W1	R100B7V1/W1	R125B7W1
CURRENT	Nominal running current	A	See chapter R: Electrical data		
	Maximum running current	A			
	Starting current	A			

For indoor units only:			FHYC71B7V1	FHYC100B7V1	FHYC125B7V1
POWER SUPPLY			V1	V1	V1
NOMINAL DISTRIBUTION SYSTEM VOLTAGE	Phase		1~	1~	1~
	Frequency	Hz	50	50	50
	Voltage	V	230	230	230

2

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.
- Capacities are net, including a deduction for cooling for indoor fan motor heat.
- The sound pressure level is measured in an anechoic room 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.

2 Specifications



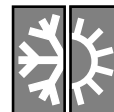
NOMINAL CAPACITY and NOMINAL INPUT					
For indoor units only:					
INDOOR UNITS			FHYC35B7V1	FHYC45B7V1	FHYC60B7V1
NOMINAL INPUT	Cooling	kW	0.14	0.14	0.161
	Heating	kW	0.14	0.14	0.161

For combination indoor units + outdoor units:					
INDOOR UNITS			FHYC35B7V1	FHYC45B7V1	FHYC60B7V1
OUTDOOR UNITS			RY35DA7V1	RY45DB7V1	RY60FA7V1
NOMINAL CAPACITY (3)	Cooling (1)	kW	3.60	4.80	6.15
	Heating (2)	kW	4.65	5.80	7.15
NOMINAL INPUT	Cooling	kW	1.63	2.07	2.51
	Heating	kW	1.52	1.93	2.40

TECHNICAL SPECIFICATIONS						
For indoor units only:						
INDOOR UNITS			FHYC35B7V1	FHYC45B7V1	FHYC60B7V1	
DIMENSIONS	Unit	H	mm	230	230	230
		W	mm	840	840	840
		D	mm	840	840	840
	Decoration panel	H	mm	40	40	40
		W	mm	950	950	950
		D	mm	950	950	950
WEIGHT	Unit	kg	23	23	23	
	Decoration panel	kg	5	5	5	
MATERIAL	Unit	Galvanised steel plate				
COLOUR	Decoration panel	White				
SOUND LEVEL	Sound pressure (cooling/heating) (4)	high	dB(A)	31	31	33
		low	dB(A)	27	27	28
	Sound power (cooling/heating) (5)	dB(A)	48	48	50	
FAN	Air flow rate (cooling/heating)	high	m ³ /min	14/14	15/15	18/18
		low	m ³ /min	10/10	11/11	14/14
	Speed (cooling/heating)	steps	2 steps (Direct drive)		2 steps (Direct drive)	2 steps (Direct drive)
	Drive	Direct drive				
	Type	Turbo fan				
	Qty x model			1 x QTS46B14M	1 x QTS46B14M	1 x QTS46B14M
Qty x motor output	W	1 x 45		1 x 45	1 x 45	
HEAT EXCHANGER	Type	Cross fin coil, ϕ 7 Hi-HA tubes				
	Rows x stages x fin pitch	mm	2 x 8 x 1.5	2 x 8 x 1.5	2 x 8 x 1.5	
	Face area	m ²	0.331	0.331	0.331	
AIR DIRECTION CONTROL	Resin net (with mold resistant)					
TEMPERATURE CONTROL	Computerised control					
PIPING CONNECTIONS	liquid	mm	ϕ 6.4 (flare)	ϕ 6.4 (flare)	ϕ 9.5 (flare)	
	gas	mm	ϕ 12.7 (flare)	ϕ 12.7 (flare)	ϕ 15.9 (flare)	
	drain	mm	VP25 (I.D. ϕ 25)			
	drain	mm	VP25 (O.D. ϕ 32)			
INSULATION MATERIAL	Heat insulation tape	Foamed polystyrene				
	Sound absorbing insulation	Foamed polystyrene				
For outdoor units only:	Pair application	See chapter R(E)Y				

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NOMINAL CAPACITY and NOMINAL INPUT					
For indoor units only:					
INDOOR UNITS			FHYC71B7V1	FHYC100B7V1	FHYC125B7V1
NOMINAL INPUT	Cooling	kW	0.161	0.204	0.238
	Heating	kW	0.161	0.204	0.238

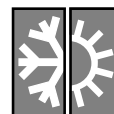
For combination indoor units + outdoor units:					
INDOOR UNITS			FHYC71B7V1	FHYC100B7V1	FHYC125B7V1
OUTDOOR UNITS			RY71B7V1/W1	RY100B7V1/W1	RY125B7V1
NOMINAL CAPACITY (3)	Cooling (1)	kW	7.30	10.30	12.80
	Heating (2)	kW	8.70	12.20	15.30
NOMINAL INPUT	Cooling	kW	3.10/3.00	40/3.80	4.60
	Heating	kW	3.10/3.00	3.80/3.60	4.70

TECHNICAL SPECIFICATIONS						
For indoor units only:						
INDOOR UNITS			FHYC71B7V1	FHYC100B7V1	FHYC125B7V1	
DIMENSIONS	Unit	H	mm	230	288	288
		W	mm	840	840	840
		D	mm	840	840	840
	Decoration panel	H	mm	40	40	40
		W	mm	950	950	950
		D	mm	950	950	950
WEIGHT	Unit	kg	23	27	27	
	Decoration panel	kg	5	5	5	
MATERIAL	Unit	Galvanised steel plate				
COLOUR	Decoration panel	White				
SOUND LEVEL	Sound pressure (cooling/heating) (4)	high	dB(A)	33/33	37/37	40/40
		low	dB(A)	28/28	32/32	35/35
	Sound power (cooling/heating) (5)	dB(A)	50/50	53/53	56/56	
FAN	Air flow rate (cooling/heating)	high	m ³ /min	18/18	28/28	1/31
		low	m ³ /min	14/14	21/21	24/24
	Speed (cooling/heating)	steps	2 steps			
	Drive	Direct drive				
	Type	Turbo fan				
	Qty x model			1 x QTS46B14M	1 x QTS46A17M	1 x QTS46A17M
	Qty x motor output	W	1 x 45		1 x 90	1 x 90
HEAT EXCHANGER	Type	Cross fin coil, ϕ 7 Hi-HA tubes				
	Rows x stages x fin pitch	mm	2 x 8 x 1.5	2 x 12 x 1.5	2 x 12 x 1.5	
	Face area	m ²	0.331	0.497	0.497	
AIR DIRECTION CONTROL	Resin net (with mold resistant)					
TEMPERATURE CONTROL	Computerised control					
PIPING CONNECTIONS	liquid	mm	ϕ 9.5 (flare)	ϕ 9.5 (flare)	ϕ 9.5 (flare)	
	gas	mm	ϕ 15.9 (flare)	ϕ 19.1 (flare)	ϕ 19.1 (flare)	
	drain	mm	VP25 (I.D. ϕ 25)			
	drain	mm	VP25 (O.D. ϕ 32)			
INSULATION MATERIAL	Heat insulation tape	Foamed polystyrene				
	Sound absorbing insulation	Foamed polystyrene				

For outdoor units only:		Pair application	See chapter R(E)Y

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2 Specifications



ELECTRICAL SPECIFICATIONS						
For indoor units only:						
				FHYC35B7V1	FHYC45B7V1	FHYC60B7V1
CURRENT	Nominal running current	cooling	A	See chapter R(E)Y: Electrical data		
		heating	A			
	Max. running current	cooling	A			
		heating	A			

For combination indoor units + outdoor units:				FHYC35B7V1	FHYC45B7V1	FHYC60B7V1
				RY35DA7V1	RY45DB7V1	RY60FA7V1
CURRENT	Nominal running current	cooling	A	6.8	8.9	10.9
		heating	A	6.3	8.1	10.7
	Maximum running current	cooling	A	8.8	11.5	13.5
		heating	A	8.8	11.5	13.5
	Starting current	cooling	A	35	39	53
		heating	A	35	39	53

For indoor units only:				FHYC35B7V1	FHYC45B7V1	FHYC60B7V1
POWER SUPPLY				V1	V1	V1
NOMINAL DISTRIBUTION SYSTEM VOLTAGE	Phase			1~	1~	1~
	Frequency			Hz	50	50
	Voltage			V	230	230

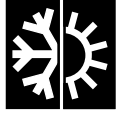
ELECTRICAL SPECIFICATIONS						
For indoor units only:						
				FHYC71B7V1	FHYC100B7V1	FHYC125B7V1
CURRENT	Nominal running current		A	0.7	0.9	0.9
	Max. running current		A	See chapter R(E)Y: Electrical data		

For combination indoor units + outdoor units:				FHYC71B7V1	FHYC100B7V1	FHYC125B7V1
				RY71B7V1/W1	RY100B7V1/W1	RY125B7W1
CURRENT	Nominal running current	cooling	A	See chapter R(E)Y: Electrical data		
		heating	A			
	Maximum running current	cooling	A			
		heating	A			
	Starting current	cooling	A			
		heating	A			

For indoor units only:				FHYC71B7V1	FHYC100B7V1	FHYC125B7V1
POWER SUPPLY				V1	V1	V1
NOMINAL DISTRIBUTION SYSTEM VOLTAGE	Phase			1~	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 * 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 in an anechoic room 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.



3 Dimensional drawings

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Note 3

Hanging bolt 4 x M8-410

For fresh air intake kit connection (direct installation type)

Note:

1. Location of unit's name plate
Main body: bell mouth inside the suction grille.
Decoration panel: panel inner frame inside the suction grille.
2. When installing an optional accessory, refer to the installation drawings.
 - For fresh air intake kit - inspection port is necessary
 - For high efficiency filter unit - inspection port is not necessary.
 - For branch duct chamber - inspection port is not necessary.
3. In case of using infrared remote controller, this position will be a signal receiver.
4. When it may exceed 30°C and RH 80% in the ceiling or fresh air is induced into the ceiling, an additional insulation (Thickness 10mm or more of glasswool or polyethylene form) is required.

1 Liquid pipe connection ϕ 6.4 Flare connection
 2 Gas pipe connection ϕ 12.7 Flare connection
 3 Drain pipe connection VP25 (O.D. ϕ 32)
 4 Power supply connection
 5 Remote control code and control wiring connection
 6 Air discharge grille
 7 Air suction grille
 8 Port for water supply
 9 Corner decoration cover
 10 Drain hose O.D. ϕ 32

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Note 3

Hanging bolt 4 x M8-410

For fresh air intake kit connection (direct installation type)

Note:

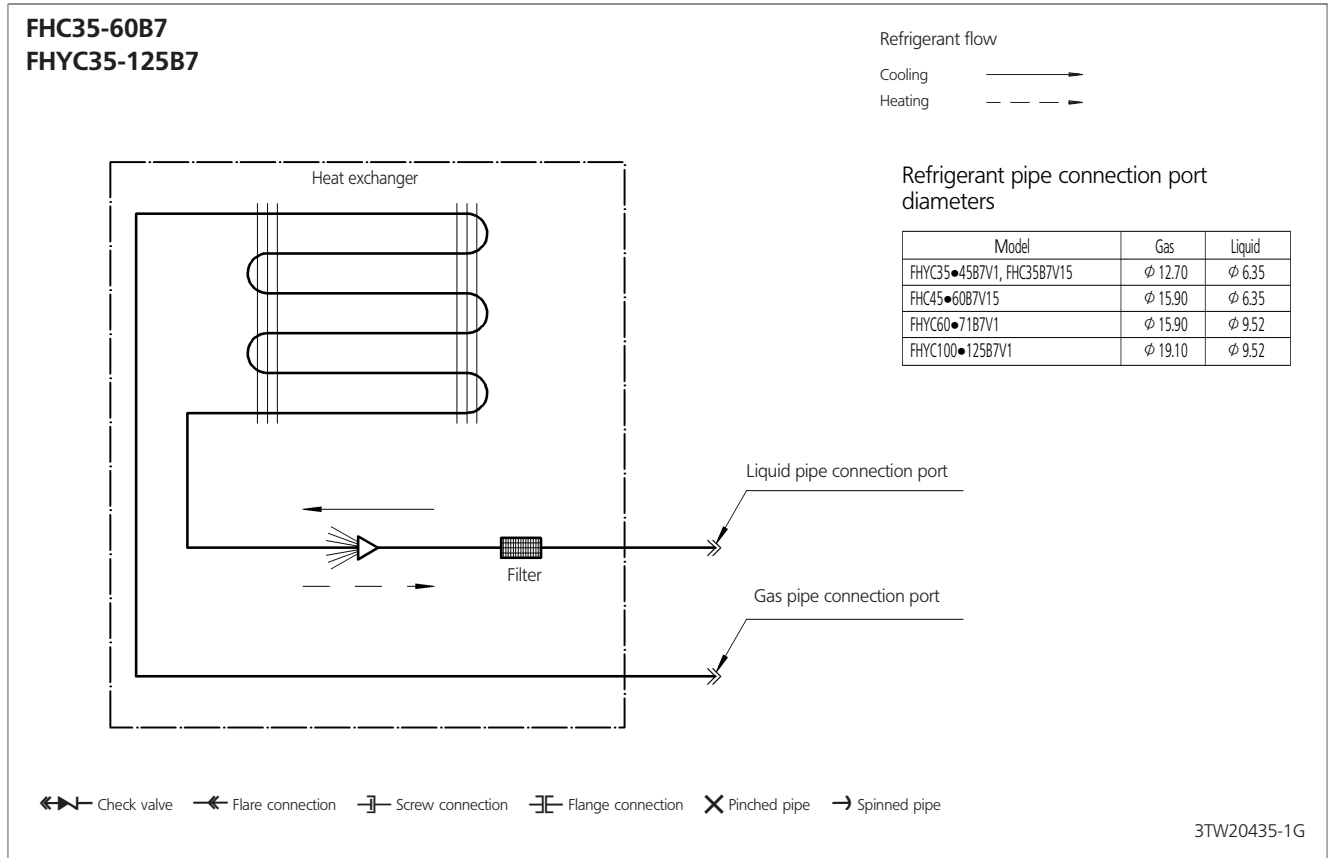
1. Location of unit's name plate
Main body: bell mouth inside the suction grille.
Decoration panel: panel inner frame inside the suction grille.
2. When installing an optional accessory, refer to the installation drawings.
 - For fresh air intake kit - inspection port is necessary
 - For high efficiency filter unit - inspection port is not necessary.
 - For branch duct chamber - inspection port is not necessary.
3. In case of using infrared remote controller, this position will be a signal receiver.
Front grille fixing screws (inside)
4. When it may exceed 30°C and RH 80% in the ceiling or fresh air is induced into the ceiling, an additional insulation (Thickness 10mm or more of glasswool or polyethylene form) is required.

1 Liquid pipe connection ϕ 6.4 Flare connection
 2 Gas pipe connection ϕ 15.9 Flare connection
 3 Drain pipe connection VP25 (O.D. ϕ 32)
 4 Power supply connection
 5 Remote control code and control wiring connection
 6 Air discharge grille
 7 Air suction grille
 8 Port for water supply
 9 Corner decoration cover
 10 Drain hose O.D. ϕ 32

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4 Piping diagrams





5 Wiring diagrams

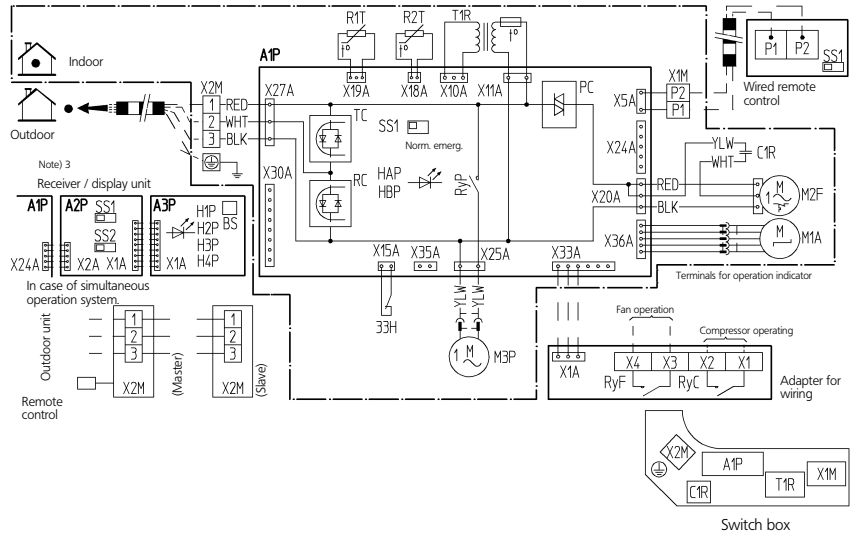
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Notes

1. Use copper conductors only.
2. When using the central remote control, see manual for connection to the unit.
3. X24A is connected when the infrared remote controller kit is being used.
4. Remote controller model varies according to the combination system, confirm technical materials and catalogs, etc. before connecting.

- Field wiring
- Terminal
- Connector
- Wire clamp
- Protective earth (screw)

Colours
 BLK: Black / WHT: White / RED: Red / YLW: Yellow



33H	Float switch	RY	Magnetic relay (M3P)	Receiver / display unit (attached to remote control)	Adapter for wiring
A1P	Printed circuit board	SS1	Selector switch (emergency)	A2P/A3P	Printed circuit board
C1R	Capacitor (M2F)	T1R	Transformer (220-240V/22V)	BS	Push button (on/off)
HAP	Light emitting diode (service monitor green)	X1M	Terminal strip	H1P	Light emitting diode (on-red)
HBP	Light emitting diode (service monitor green)	X2M	Terminal strip	H2P	Light emitting diode (lime-green)
M1A	Motor (swing flap)	(RC)	Signal receiver circuit	H3P	Light emitting diode (filter sign-red)
M2F	Motor (indoor fan)	(TC)	Signal transmission circuit	H4P	Light emitting diode (defrost-orange)
M3P	Motor (drain pump)	(PC)	Phase control circuit	SS1	Selector switch (main/sub)
Q1F	Thermo switch (M2F embedded)	Wired remote control		SS2	Selector switch (wireless address set)
R1T	Thermistor (air)	SS1	Selector switch (main/sub)		
R2T	Thermistor (coil)				

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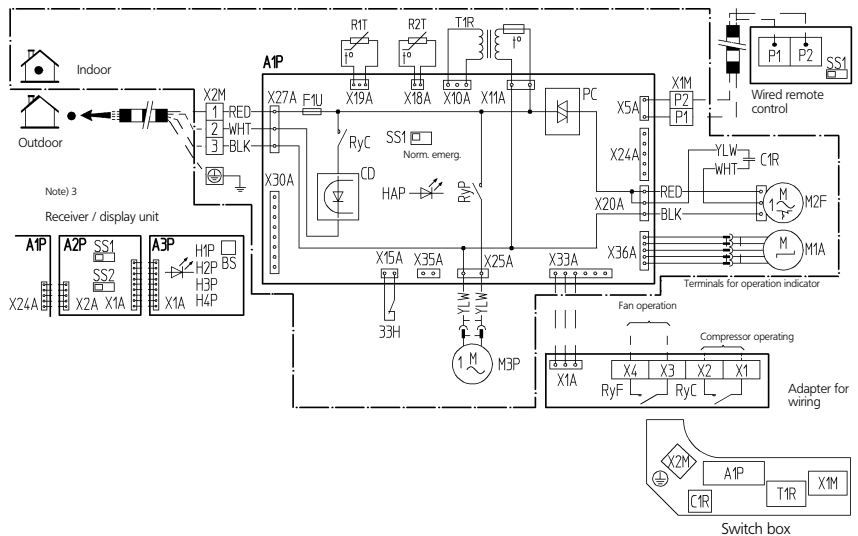
FHC35-60B7

Notes

1. Use copper conductors only.
2. When using the central remote control, see manual for connection to the unit.
3. X24A is connected when the infrared remote controller kit is being used.
4. Remote controller model varies according to the combination system, confirm technical materials and catalogs, etc. before connecting.

- Field wiring
- Terminal
- Connector
- Wire clamp
- Protective earth (screw)

Colours
 BLK: Black / WHT: White / RED: Red / YLW: Yellow



33H	Float switch	RY	Magnetic relay (M3P)	Receiver / display unit (attached to remote control)	Adapter for wiring
A1P	Printed circuit board	SS1	Selector switch (emergency)	A2P/A3P	Printed circuit board
C1R	Capacitor (M2F)	T1R	Transformer (220-240V/22V)	BS	Push button (on/off)
HAP	Light emitting diode (service monitor green)	X1M	Terminal strip	H1P	Light emitting diode (on-red)
HBP	Light emitting diode (service monitor green)	X2M	Terminal strip	H2P	Light emitting diode (lime-green)
M1A	Motor (swing flap)	(RC)	Signal receiver circuit	H3P	Light emitting diode (filter sign-red)
M2F	Motor (indoor fan)	(TC)	Signal transmission circuit	H4P	Light emitting diode (defrost-orange)
M3P	Motor (drain pump)	(PC)	Phase control circuit	SS1	Selector switch (main/sub)
Q1F	Thermo switch (M2F embedded)	Wired remote control		SS2	Selector switch (wireless address set)
R1T	Thermistor (air)	SS1	Selector switch (main/sub)		
R2T	Thermistor (coil)				

3TW22896-1



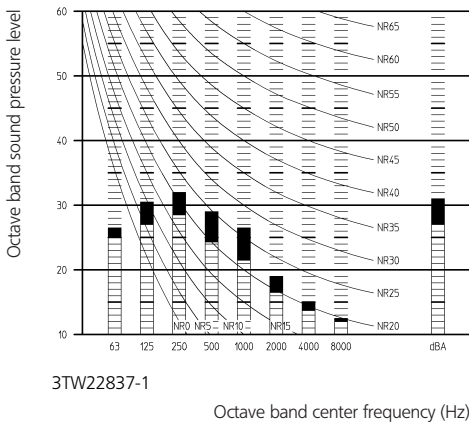
6 Sound levels

6-1 Sound level data

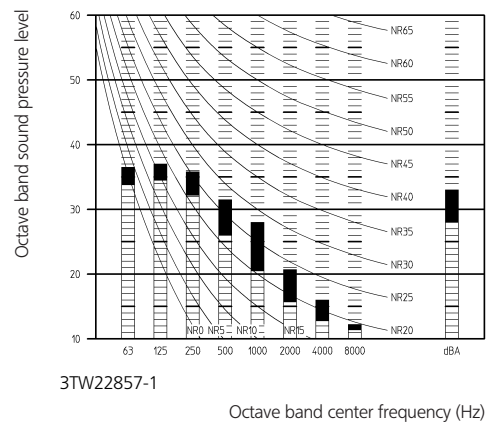
Model	Sound pressure level		Measuring location	Sound power level	
	1 phase 50Hz 230V			230V	
	H	L		H	(cooling/heating)
	(cooling/heating)	(cooling/heating)			
FH(Y)C35B7V1	31/31	27/27		48	
FH(Y)C45B7V1	31/31	27/27		48	
FH(Y)C60B7V1	33/33	28/28		50	
FHYC71B7V1	33/33	28/28		50	
FHYC100B7V1	37/37	32/32		53	
FHYC125B7V1	40/40	35/35		56	

6-2 Sound pressure spectrum

FH(Y)C35,45B7V1



FH(Y)C60,71B7V1



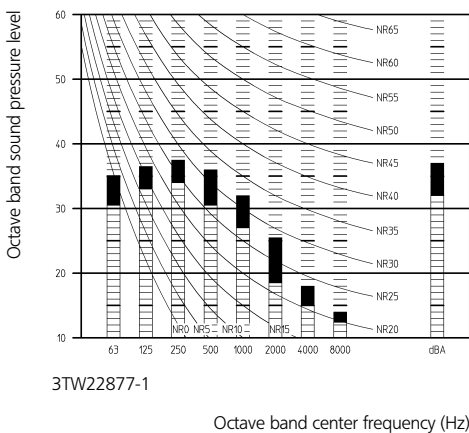
Legend

- High speed
- Low speed

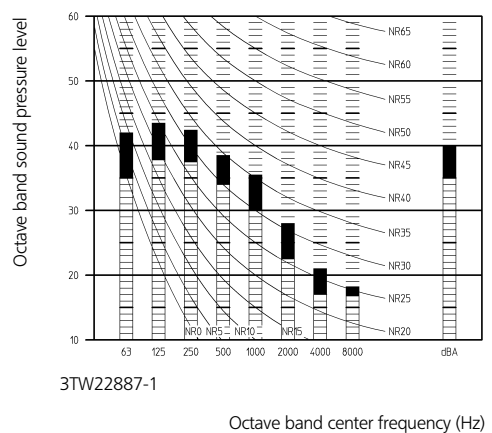
6

6-1

FHYC100B7V1



FHYC125B7V1



NOTES

- 1 Data is valid at free field condition and nominal operation condition (230V, air discharge in 4 directions).
- 2 The operation noise differs with the operation and ambient conditions.
- 3 dBA = A-weighted sound pressure level (A-scale according to IEC)
- 4 Reference acoustic pressure 0dB = 20μPa



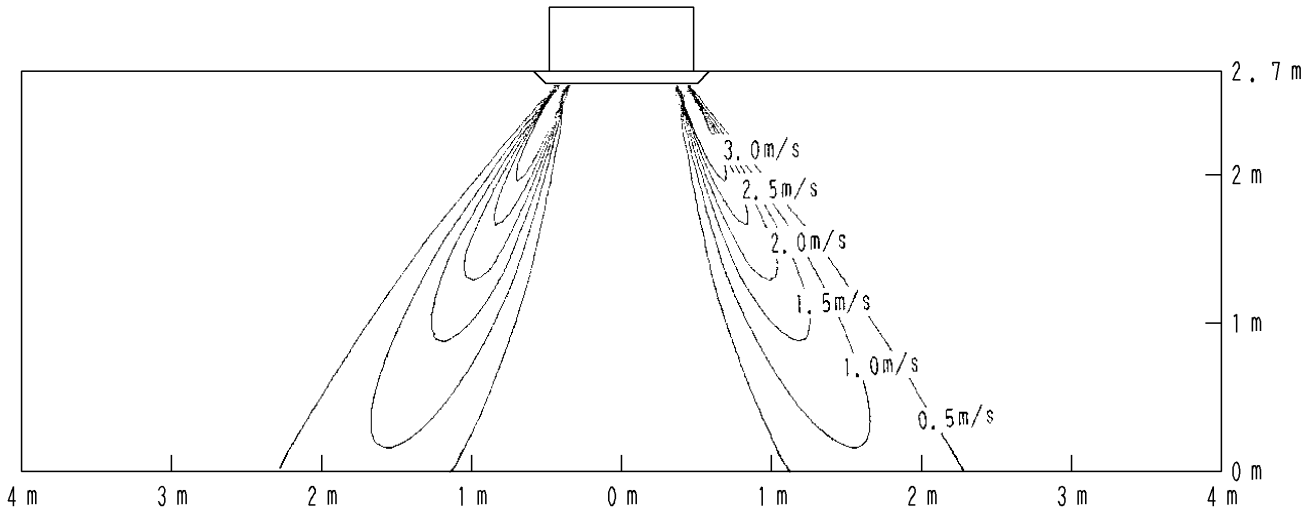
7 Air flow patterns & branch duct connections

7-1 Air flow patterns

FH(Y)C35B7V1

Heating - air velocity distribution

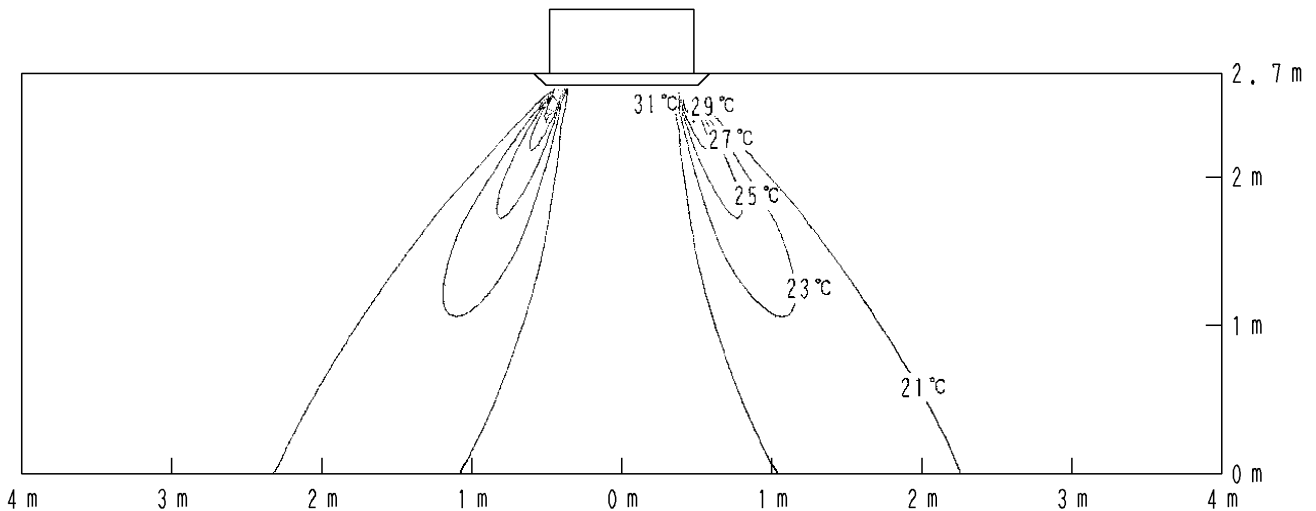
4-way discharge, air flow direction: down



FH(Y)C35B7V1

Heating - air temperature distribution

4-way discharge, air flow direction: down



7
7-1

4D024116



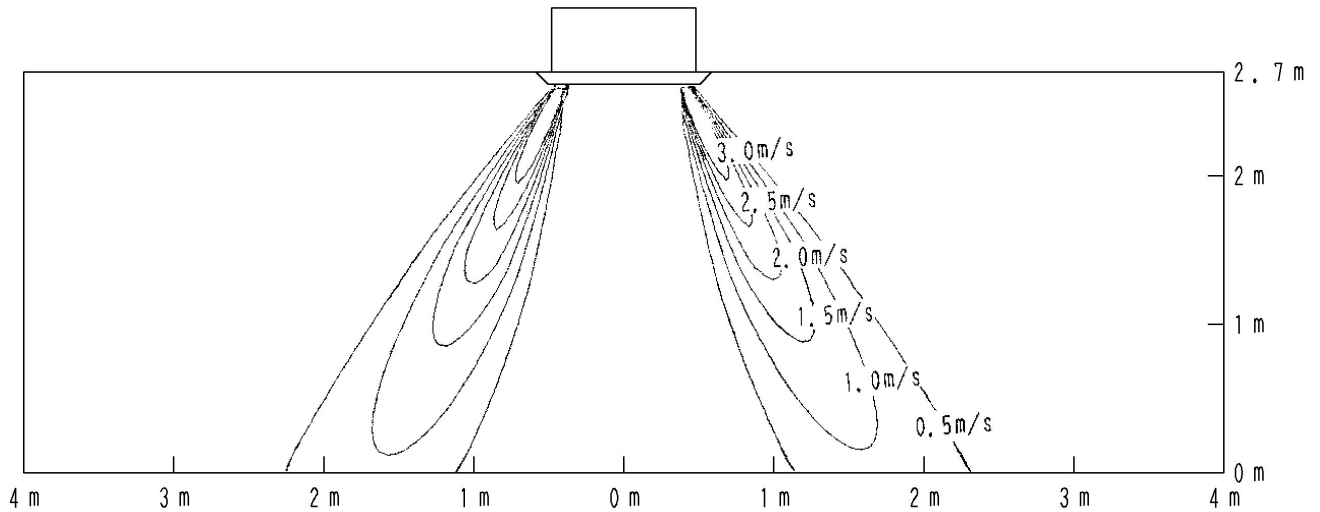
7 Air flow patterns & branch duct connections

7-1 Air flow patterns

FH(Y)C45B7V1

Heating - air velocity distribution

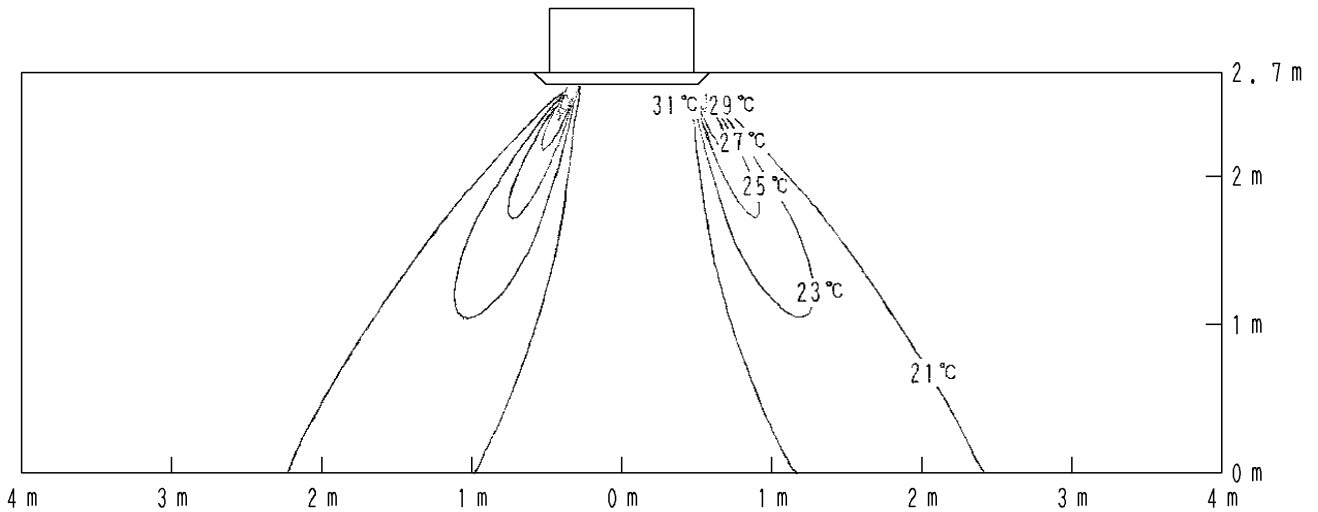
4-way discharge, air flow direction: down



FH(Y)C45B7V1

Heating - air temperature distribution

4-way discharge, air flow direction: down



7
7-1

4D024117



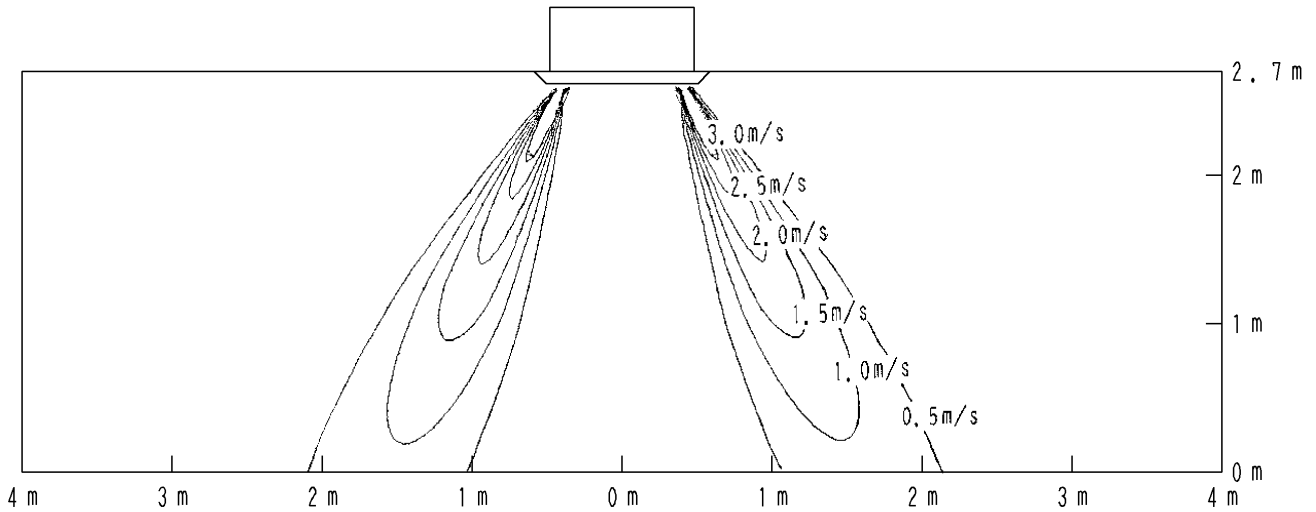
7 Air flow patterns & branch duct connections

7-1 Air flow patterns

FH(Y)C60,71B7V1

Heating - air velocity distribution

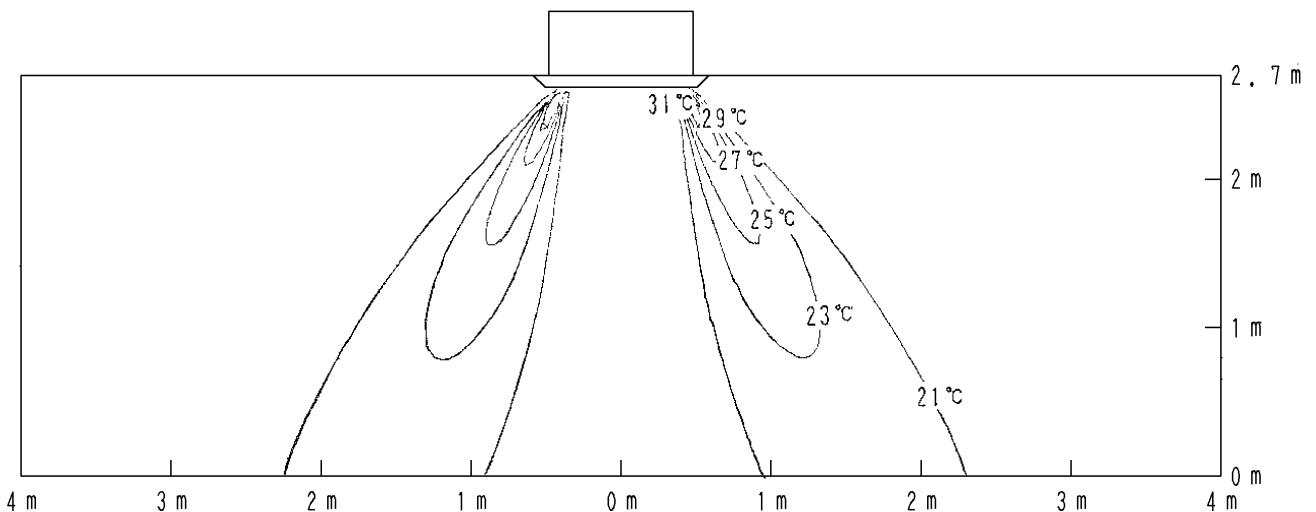
4-way discharge, air flow direction: down



FH(Y)C60,71B7V1

Heating - air temperature distribution

4-way discharge, air flow direction: down



7
7-1

4D024118



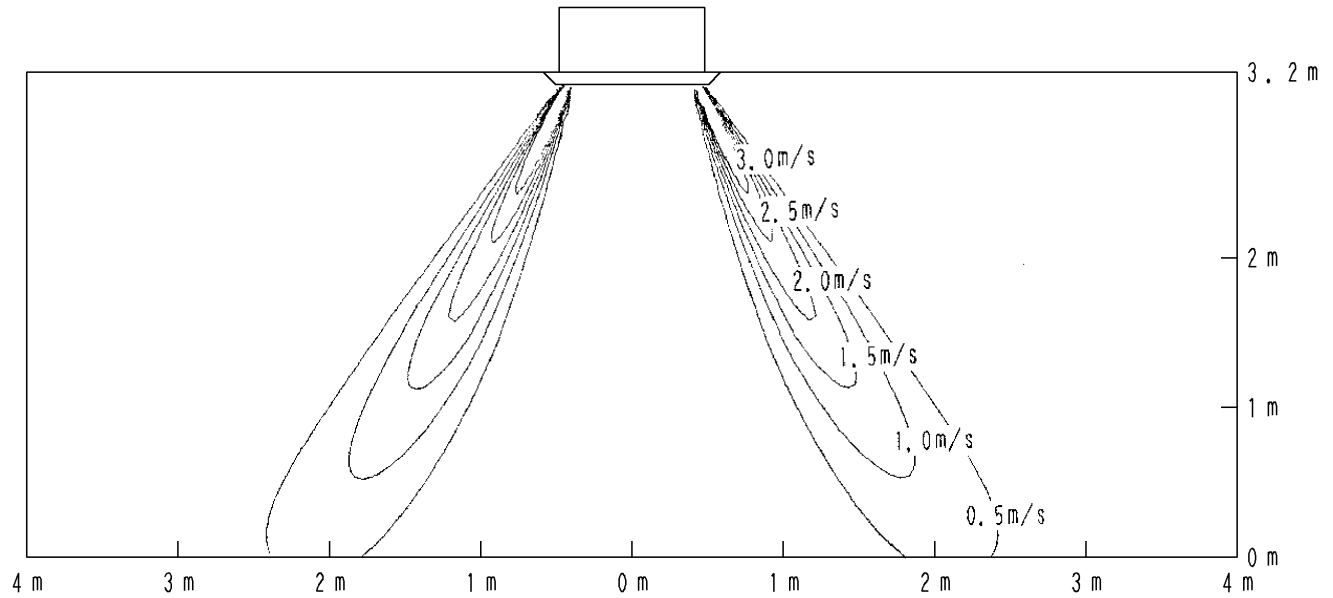
7 Air flow patterns & branch duct connections

7-1 Air flow patterns

FHYC100B7V1

Heating - air velocity distribution

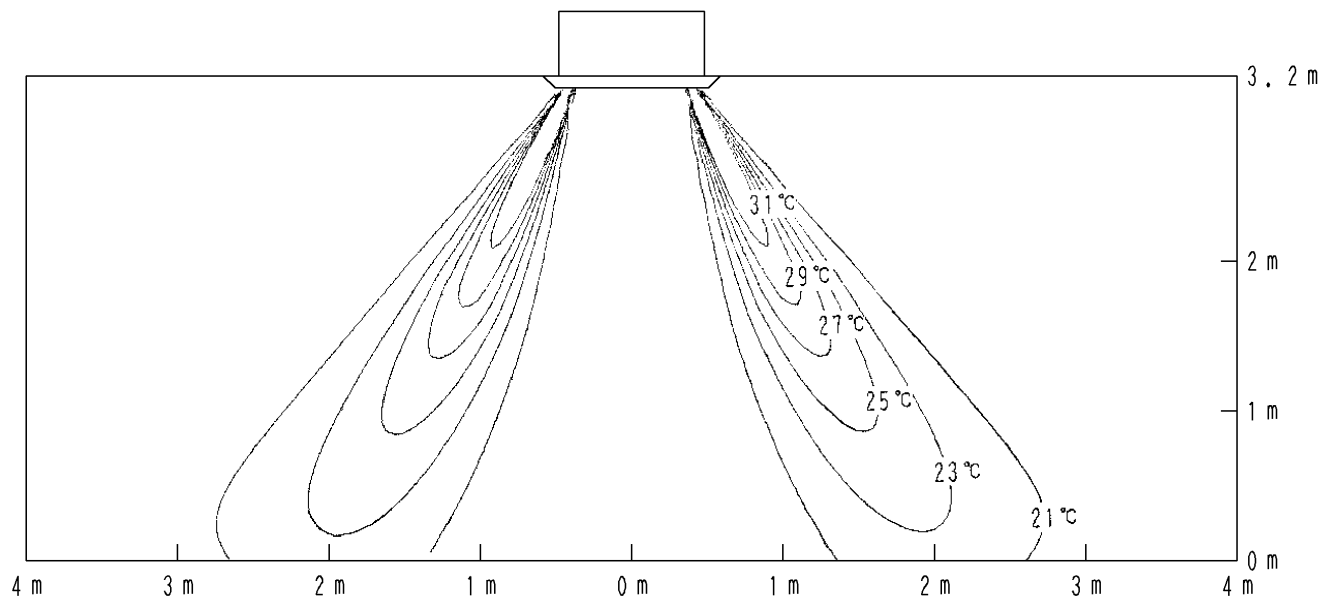
4-way discharge, air flow direction: down



FHYC100B7V1

Heating - air temperature distribution

4-way discharge, air flow direction: down



7
7-1

4D024119



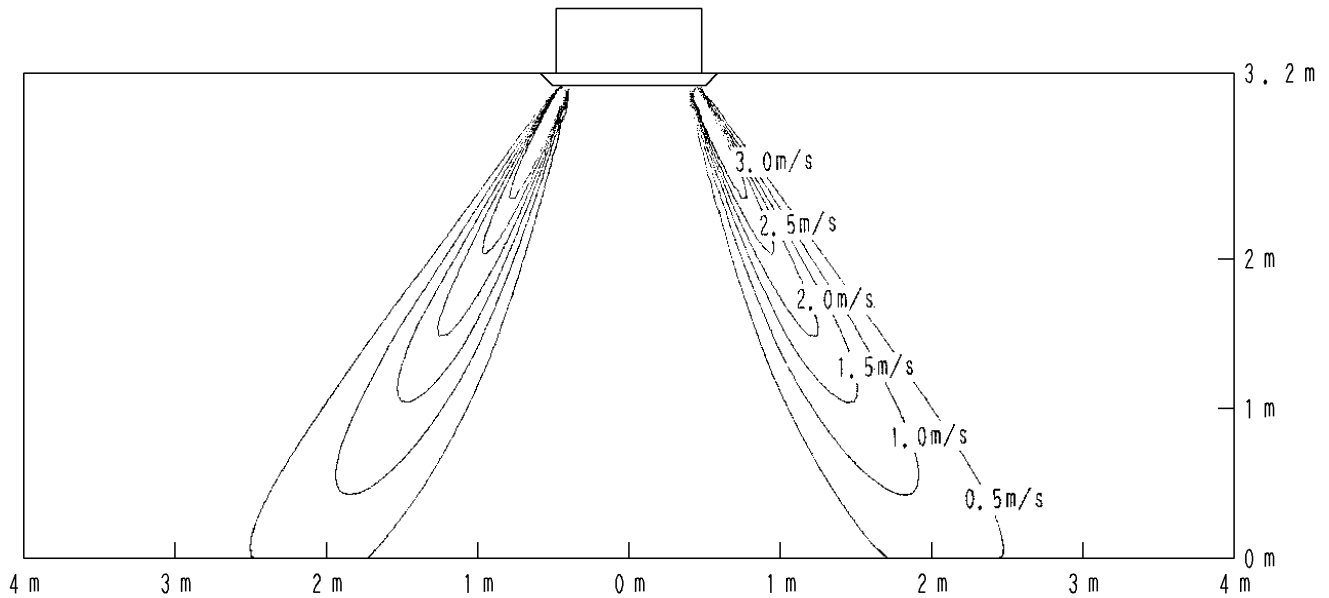
7 Air flow patterns & branch duct connections

7-1 Air flow patterns

FHYC125B7V1

Heating - air velocity distribution

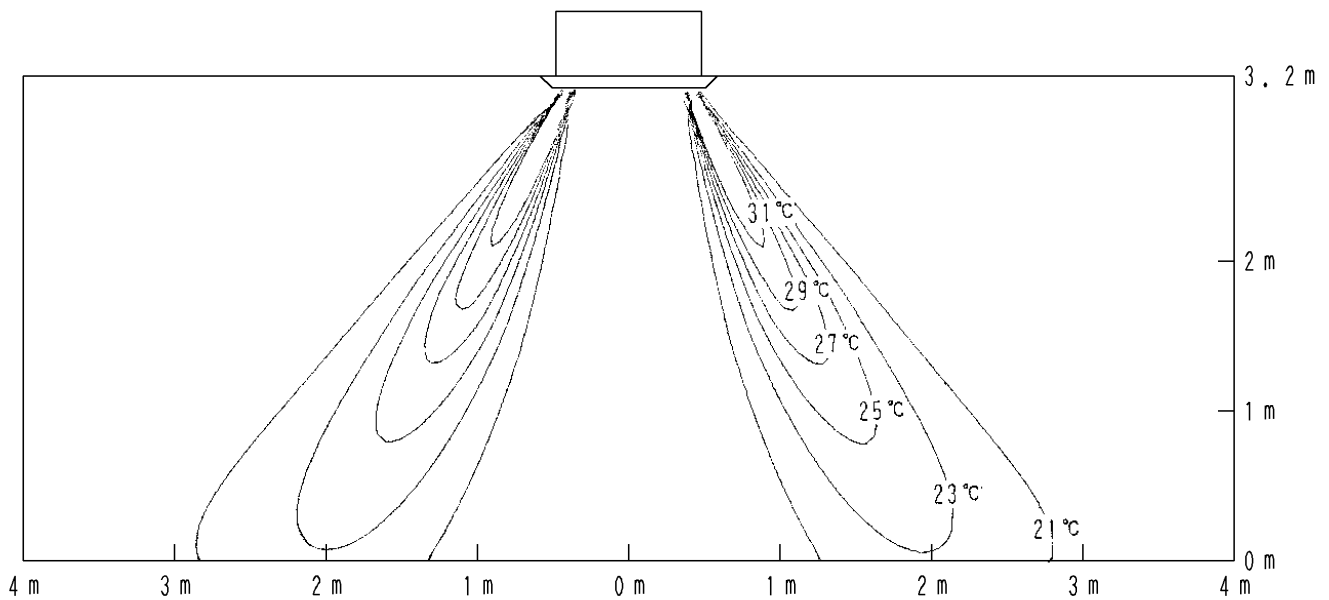
4-way discharge, air flow direction: down



FHYC125B7V1

Heating - air temperature distribution

4-way discharge, air flow direction: down



7
7-1

4D024120



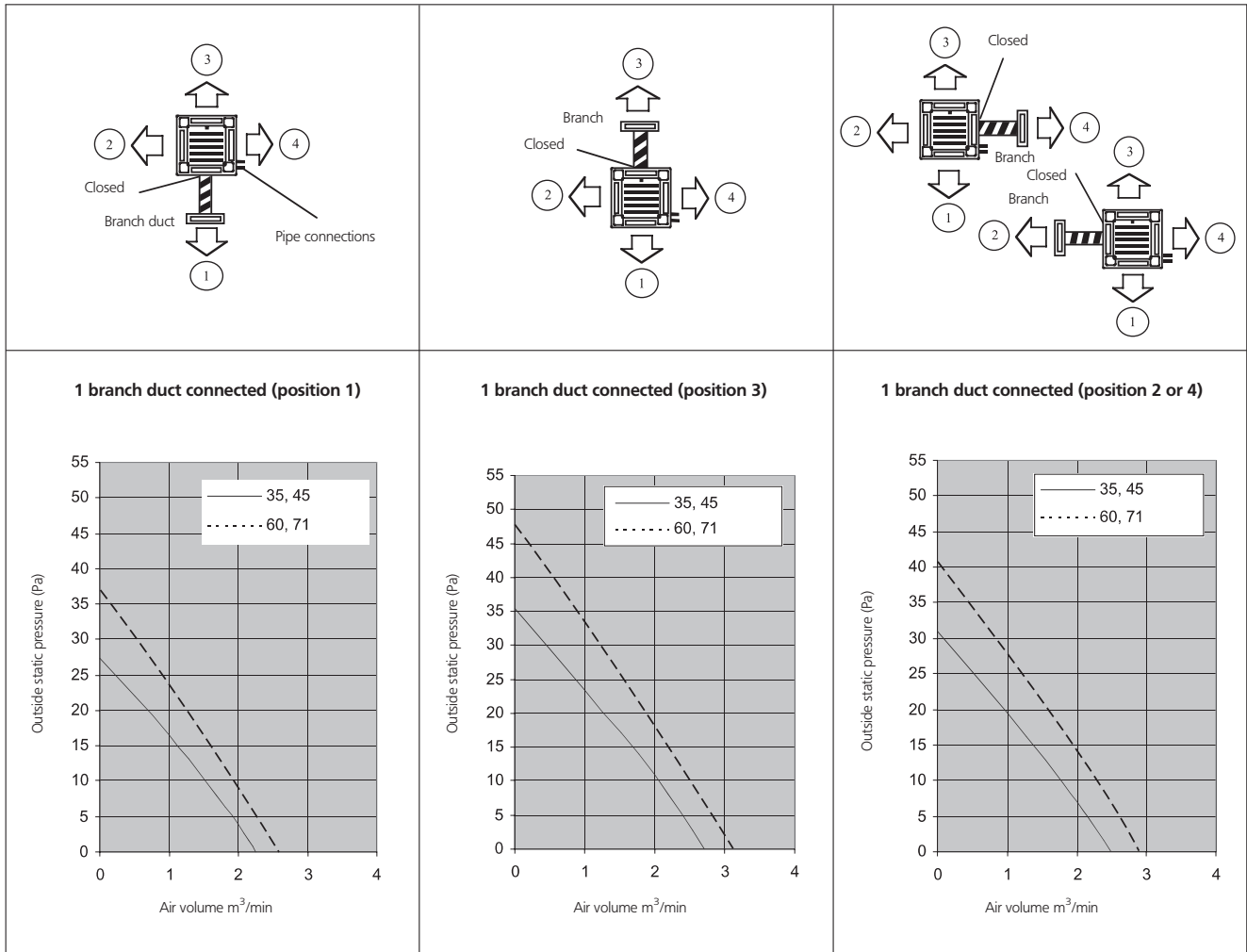
7 Air flow patterns & branch duct connections

7-2 Branch duct connections

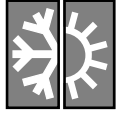
FH(Y)C-B

1 branch duct - 3 way blow

Discharge grill: K-DGSC4B (connection: diameter 150mm)
 Flexible duct K-FDK154B (connection: diameter 150mm, length: 4m)
 Air volume: 1,5-2,0 m³/min



3TW22839-7



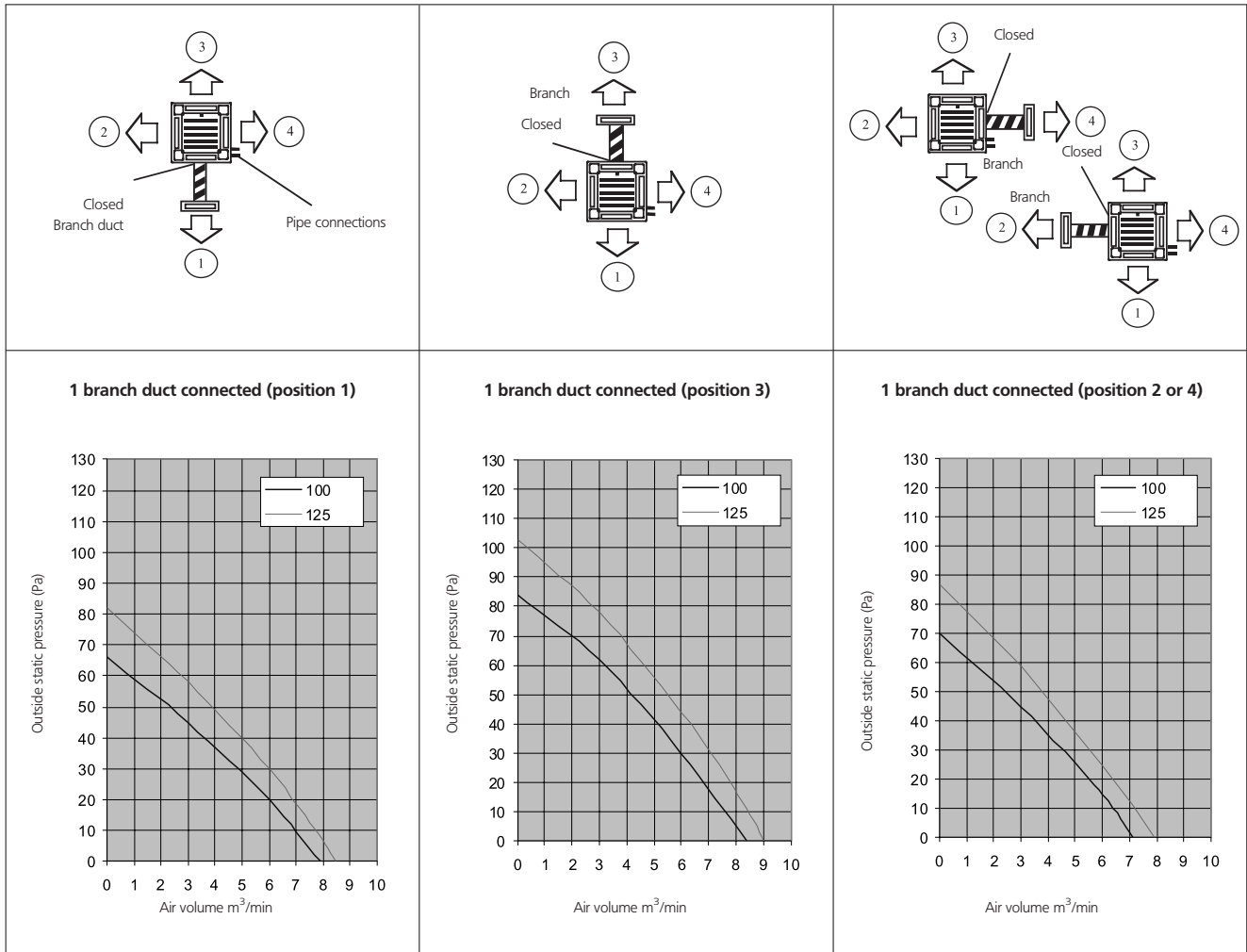
7 Air flow patterns & branch duct connections

7-2 Branch duct connections

FH(Y)C-B

1 branch duct - 3 way blow

Discharge grill: K-DGSC4B (connection: diameter 200mm)
 Flexible duct: K-FDK154B (connection: diameter 200mm, length: 6m)
 Air volume: 5,0-7,0 m³/min





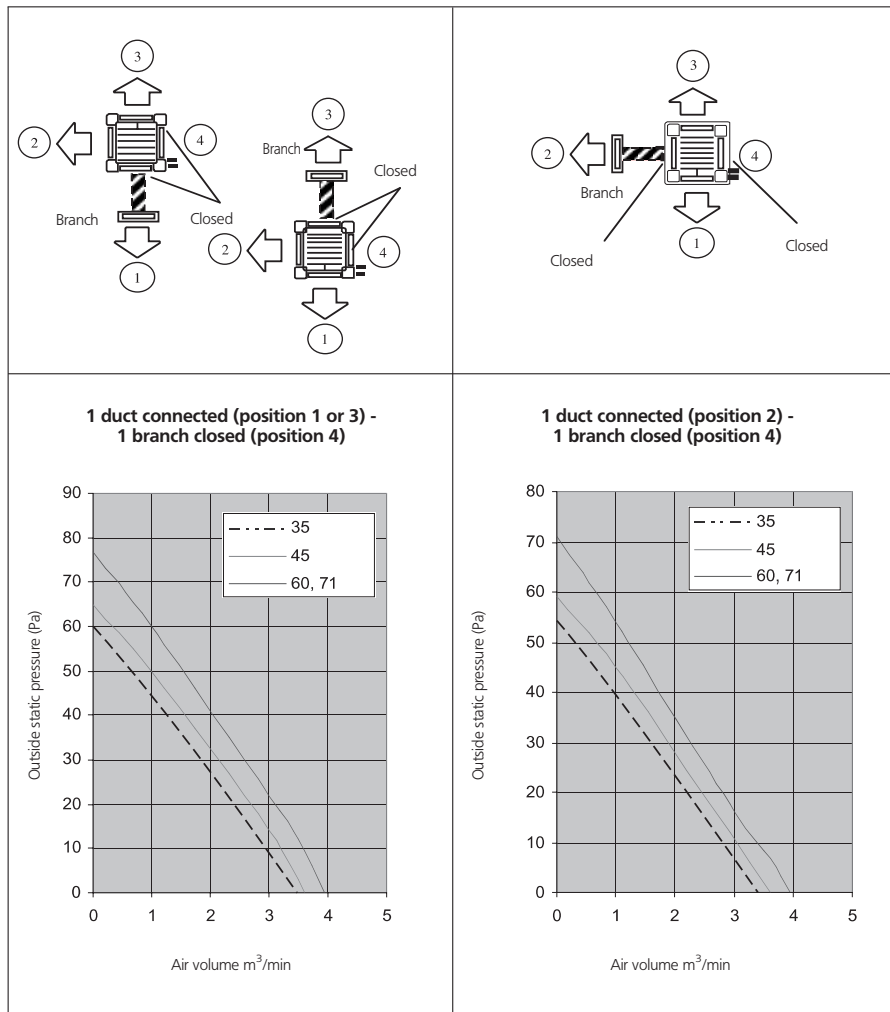
7 Air flow patterns & branch duct connections

7-2 Branch duct connections

FH(Y)C-B

1 branch duct - 2 way blow

Discharge grill: K-DGSC4B (connection: diameter 150mm)
 Flexible duct K-FDK154B (connection: diameter 150mm, length: 4m)
 Air volume: 2,0-3,0 m³/min



7
7-2

3TW22839-8



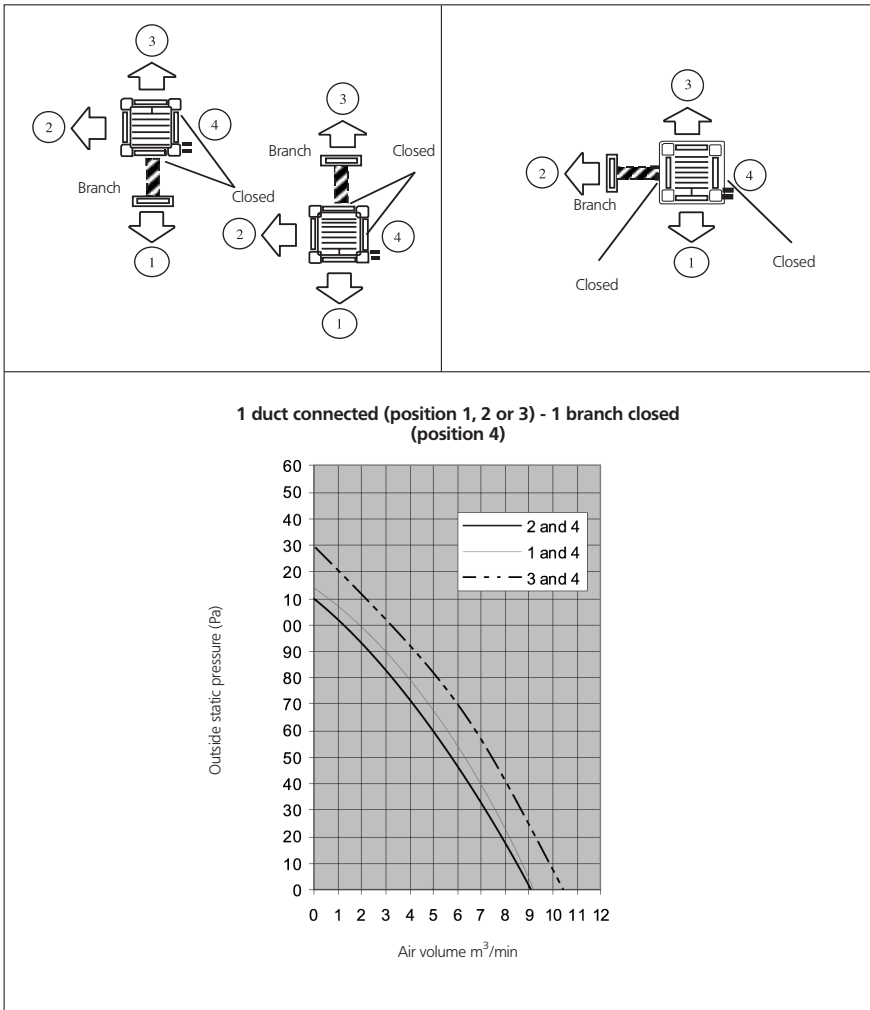
7 Air flow patterns & branch duct connections

7-2 Branch duct connections

FH(Y)C-B

1 branch duct - 2 way blow

Discharge grill: K-DGSC4B (connection: diameter 200mm)
 Flexible duct: K-FDK154B (connection: diameter 200mm, length: 6m)
 Air volume: 7,0-10,0 m³/min



3TW22879-8



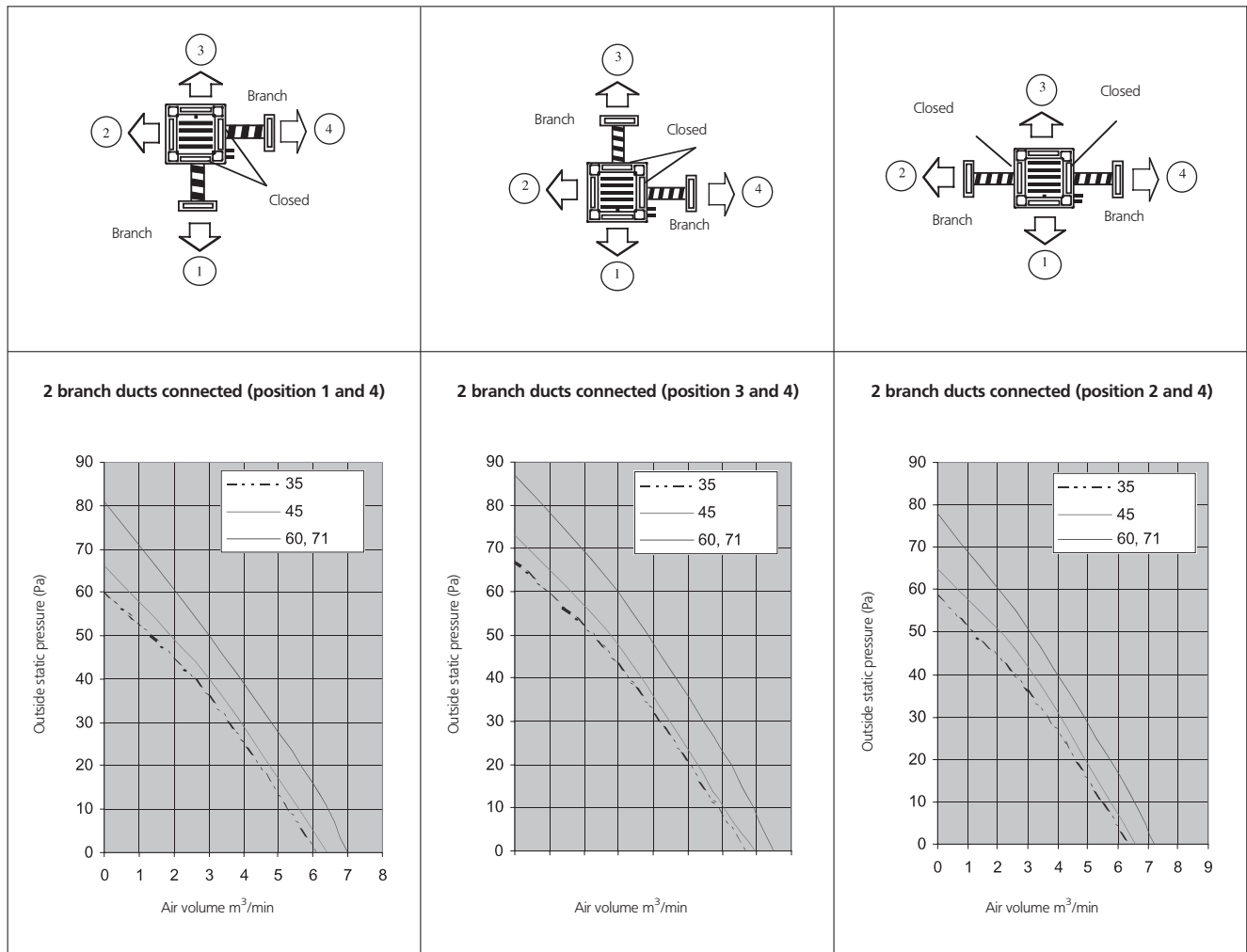
7 Air flow patterns & branch duct connections

7-2 Branch duct connections

FH(Y)C-B

2 branch duct - 2 way blow

Discharge grill: K-DGSC4B (connection: diameter 150mm)
 Flexible duct K-FDK154B (connection: diameter 150mm, length: 4m)
 Air volume: 4,0-5,0 m³/min





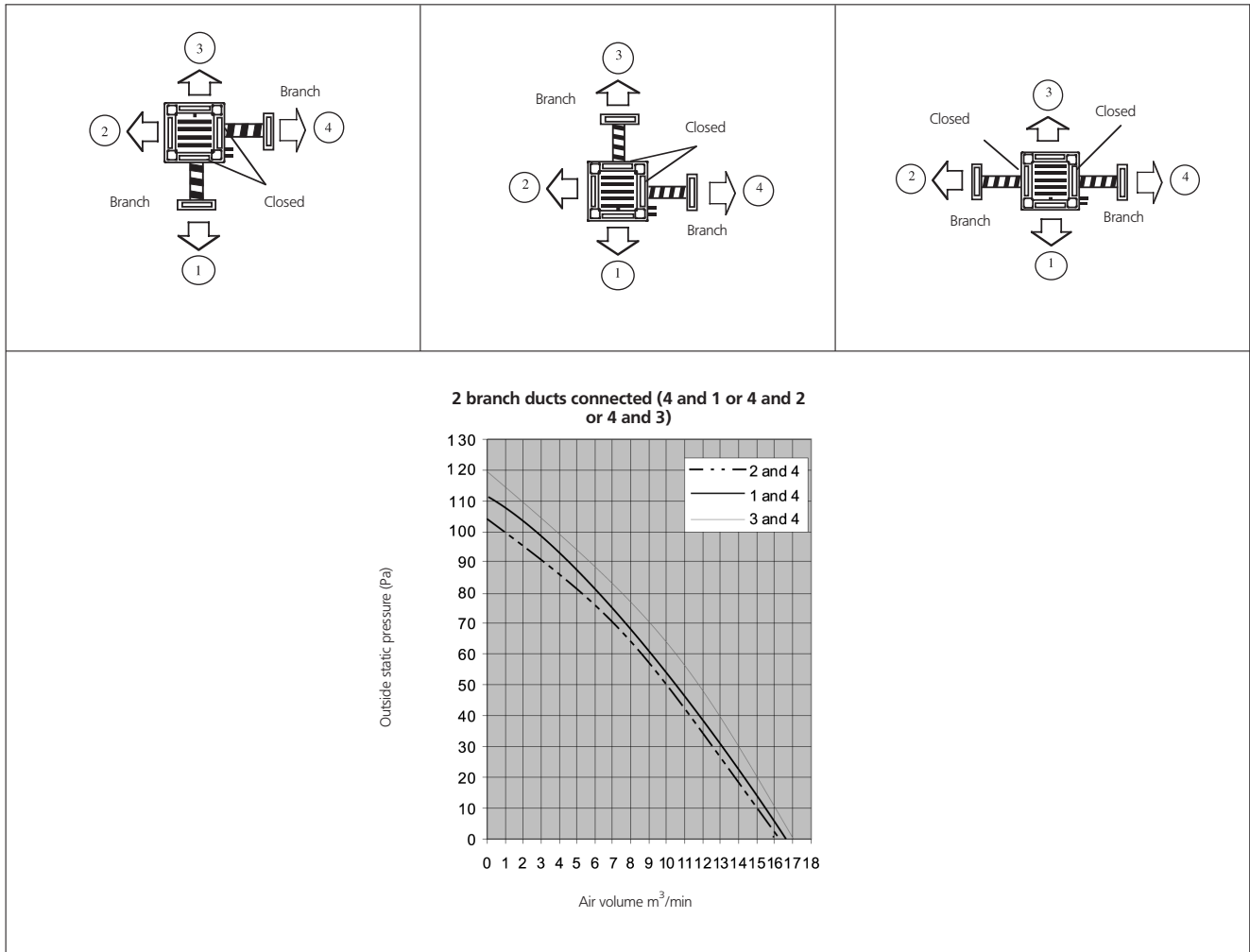
7 Air flow patterns & branch duct connections

7-2 Branch duct connections

FH(Y)C-B

2 branch duct - 2 way blow

Discharge grill: K-DGSC4B (connection: diameter 200mm)
 Flexible duct: K-FDK154B (connection: diameter 200mm, length: 6m)
 Air volume: 9,0-11,0 m³/min







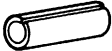





8 Accessories

8-1 Standard accessories

Check if the following accessories are included with your unit.

 Clamp 1 pc.	Also used as packing material  Paper pattern for installation 1 pc.	 Drain hose 1 pc.
 Screws M5 For paper pattern for installation 4 pcs.	 Washer for hanging bracket 8 pcs.	 Sealing 2 pcs.
 For gas pipe	Insulation for fitting 1 of each  For liquid pipe	Other: installation manual, operation manual

8-2 Optional accessories

Options

Item	Model	FH(Y)C35	FH(Y)C45	FH(Y)C60	FHYC71	FHYC100	FHYC125
Decoration panel		BYC125KJW1					
Filter related	High efficiency filter 65%	Colorimetric method	KAFJ556K80			KAFJ556K160	
	High efficiency filter 90%	Colorimetric method	KAFJ557K80			KAFJ557K160	
	Replacement high efficiency filter 65%	Colorimetric method	KAFJ552K80			KAFJ552K160	
	Replacement high efficiency filter 90%	Colorimetric method	KAFJ553K80			KAFJ553K160	
	Filter chamber		KDDFJ55K160				
	Replacement long-life filter	Non-woven type	KAFJ551K160				
	Ultra-long life filter		KAFJ55K160				
	Replacement ultra long-life filter		KAFJ55K160H				
Fresh air intake kit	Chamber type	Without T-shape and fan	KDDJ55B160				
		With T-shape, and fan	KDDJ55B160F				
		With T-shape, without fan	KDDJ55B160K				
	Direct installation type		KDDJ55X160				
Sealing member of air discharge outlet		KDBHJ55B160					
Panel spacer		KDBJ55K160W					
Branch duct chamber		KDJ55B80			KDJ55B160		
Chamber connection kit		KKSJ55K160					

3TW22839-6A



8 Accessories

8-1 Standard accessories

FH(Y)C-B

Fresh air intake kit

1. Option kits KDDJ55B160, KDDJ55B160K, KDDJ55B160F

Following restrictions must be kept:

1. Maximum 20% of the nominal indoor unit air volume can be sucked from the fresh air duct.
2. Put an air filter in the duct.
3. When a duct fan is used, use the option kit together with the duct fan. When only the duct fan is operating, dust can fall from the air filter into the room.

Adapter for wiring KRP1B57
Installation box for adaptor PCB (KRP1B98) is necessary

2. Option kit KDDJ55X160

This kit can be used when the duct length is less than 4 m.
Approximately 2 or 3% of the nominal indoor unit air volume can be sucked from the fresh air duct.
The use of a duct fan is not allowed because the sound of the duct can be heard at the indoor unit.

Option kit	Fresh air intake volume / static pressure
KDDJ55B160 (without T-joint connection and without duct fan)	
KDDJ55B160K (with T-joint connection, without duct fan)	
KDDJ55B160F (with T-joint connection and with duct fan)	
KDDJ55X160 (direct installation)	

3TW22839-10

Control systems

Item	Model		FH(Y)C35	FH(Y)C45	FH(Y)C60	FHYC71	FHYC100	FHYC125
Remote control	Infrared	H/P	BRC7C512W					
		C/O	BRC7C513W					
	Wired	BRC1C517						
Set back time clock			BRC15A51					
Adapter for wiring			KRP1B2					
Wiring adaptor for electrical appendices (1)			KRP1B57					
Wiring adaptor for electrical appendices (2)			KRP4A53					
Remote sensor			KRCS01-1					
Installation box for adapter PCB			KRP1C98					
Central remote control			DCS302B51					
Electrical box with earth terminal (3 blocks)			KJB311A					
Unified ON/OFF control			DCS301B51					
Electrical box with earth terminal (2 blocks)			KJB212A					
Noise filter (for electromagnetic interface use only)			KEK26-1					
Schedule timer			DST301B51					
Interface adapter for Sky Air series			DTA102A52					

Note: Installation box is necessary for each adaptor marked*

3TW22839-6A



9 Control systems

9-1 Wired remote control

Fig. 1

BRC1C517

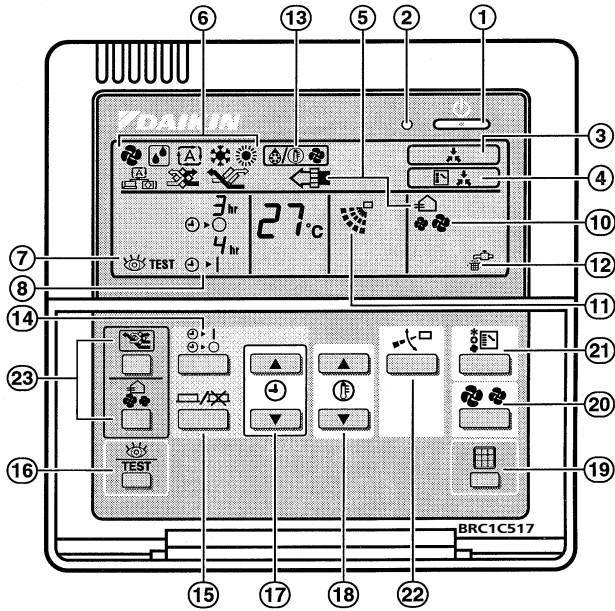
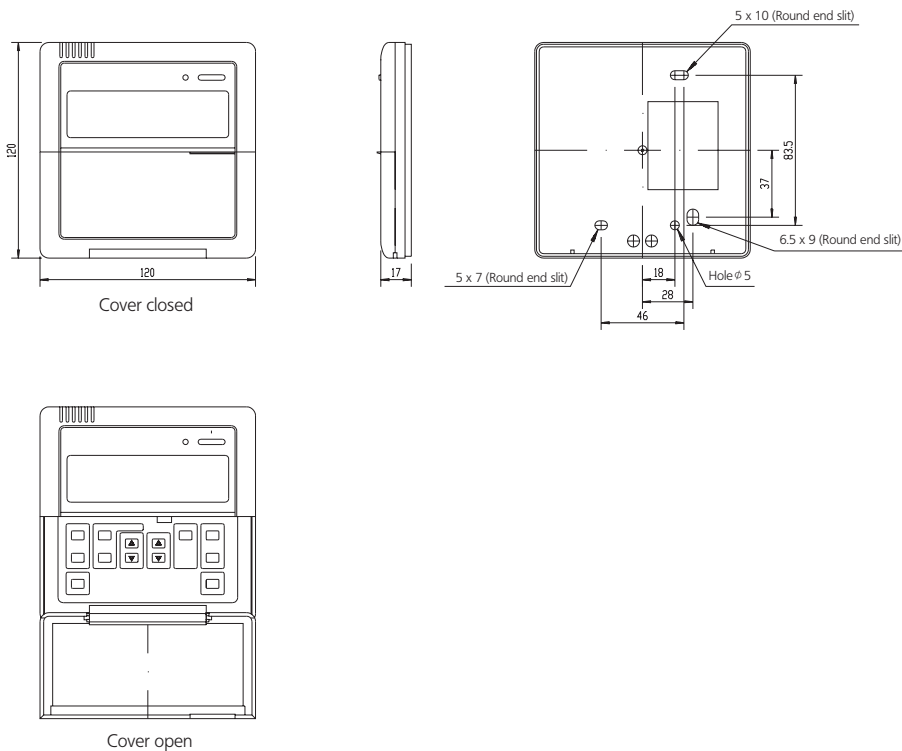
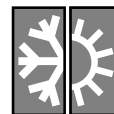


Fig. 2



9
9-1

3TW23651-1A



9 Control systems

9-1 Wired remote control

Name and function of each switch and display on the remote control

1	ON/OFF BUTTON	13	DISPLAY " / " (DEFROST)
	Press the button and the system will start. Press the button again and the system will stop.	14	TIMER MODE START/STOP BUTTON
2	OPERATION LAMP (RED)	15	TIMER ON/OFF BUTTON
	The lamp lights up during operation.	16	INSPECTION/TEST OPERATION BUTTON
DISPLAY ' ' (UNDER CENTRALISED CONTROL)	This button is used only by qualified service persons for maintenance purposes.		
3	When this display shows, the system is UNDER CENTRALISED CONTROL. (This is not a standard specification).	17	PROGRAMMING TIME BUTTON
	DISPLAY ' ' (CHANGEOVER UNDER CONTROL)		Use this button for programming 'START and/or STOP' time.
4	This display shows when the outdoor unit is individual operation system.	18	TEMPERATURE SETTING BUTTON
	DISPLAY " ", " ", " ", " ", " ", " " (VENTILATION / AIR CLEANING)		Use this button for SETTING TEMPERATURE.
5	This display shows that the total heat exchange unit and the air cleaning unit are in operation. These are optional accessories.	19	FILTER SIGN RESET BUTTON
	DISPLAY ' ' ' ' ' ' ' ' ' ' (OPERATION MODE)	20	FAN SPEED CONTROL BUTTON
This display shows the current OPERATION MODE. For cooling only type, ' ' (Auto) and ' ' (Heating) are not installed.	Press this button to select the fan speed, HIGH or LOW, of your choice.		
6	DISPLAY ' ' (INSPECTION/TEST OPERATION)	21	OPERATION MODE SELECTOR BUTTON
	When the INSPECTION/TEST OPERATION BUTTON is pressed, the display shows the system mode is in.		Press this button to select OPERATION MODE.
7	DISPLAY ' ' (PROGRAMMED TIME)	22	AIR FLOW DIRECTION ADJUST BUTTON
	This display shows PROGRAMMED TIME of the system start or stop.	23	NOT APPLICABLE
DISPLAY ' ' (SET TEMPERATURE)			
8	This display shows the set temperature.		
	DISPLAY ' ' (FAN SPEED)		
9	The display shows the set fan speed.		
	DISPLAY ' ' (AIR FLOW FLAP)		
10	DISPLAY " " (TIME TO CLEAN AIR FILTER)		

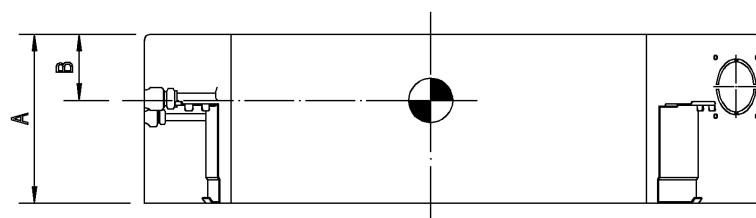
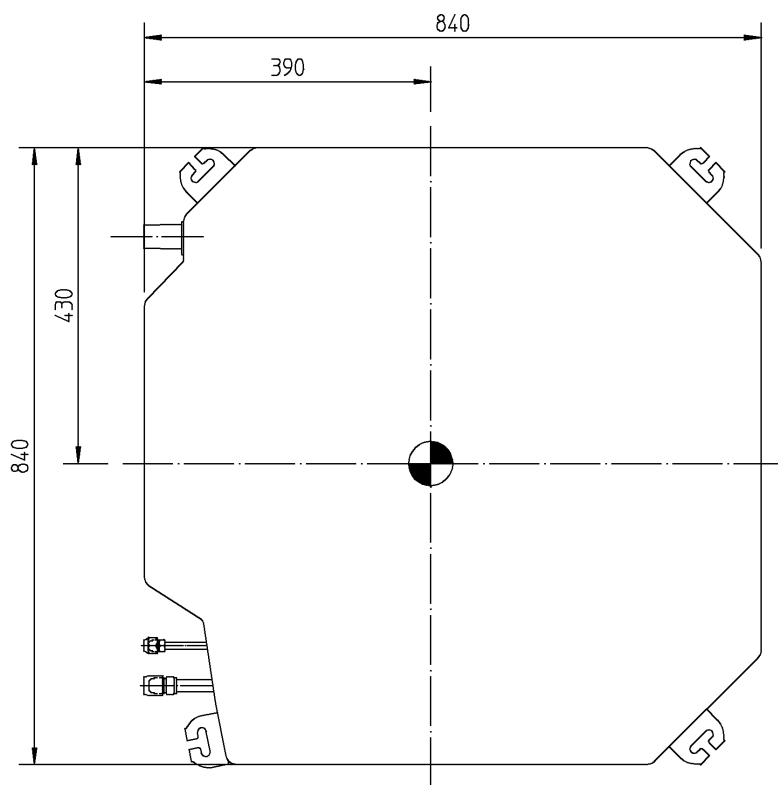
NOTE

- For the sake of explanation, all indications are shown on the display contrary to actual running situations.



10 Centre of gravity

FH(Y)C-B



Model	A	B
FH(Y)C35-71B	230	90
FHYC100,125B	288	120

4TW22839-2

10

11 Safety device settings

FH(Y)C-B

Model	Safety devices	35	45	60	71	100	125
FHYC~B	PC board fuse	—	—	—	—	—	—
	Fan motor thermal fuse (°C)	—	—	—	—	—	—
	Fan motor thermal protector (°C)	OFF: 130±5 ON: 83±20	OFF: 130±5 ON: 83±20	OFF: 130±5 ON: 80±20	OFF: 130±5 ON: 80±20	OFF: 130±5 ON: 80±20	OFF: 130±5 ON: 80±20
	Drain pump fuse °C	145	145	145	145	145	145
FHC~B	PC board fuse	250V 5A	250V 5A	250V 5A	—	—	—
	Fan motor thermal fuse (°C)	—	—	—	—	—	—
	Fan motor thermal protector (°C)	OFF: 130±5 ON: 83±20	OFF: 130±5 ON: 83±20	OFF: 130±5 ON: 80±20	OFF: 130±5 ON: 80±20	OFF: 130±5 ON: 80±20	OFF: 130±5 ON: 80±20
	Drain pump fuse °C	145	145	145	145	145	145

3TW22831-3