



technical data

FH(Y)C-BZ7/FHYCP-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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Specifications are subject to change without prior notice

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

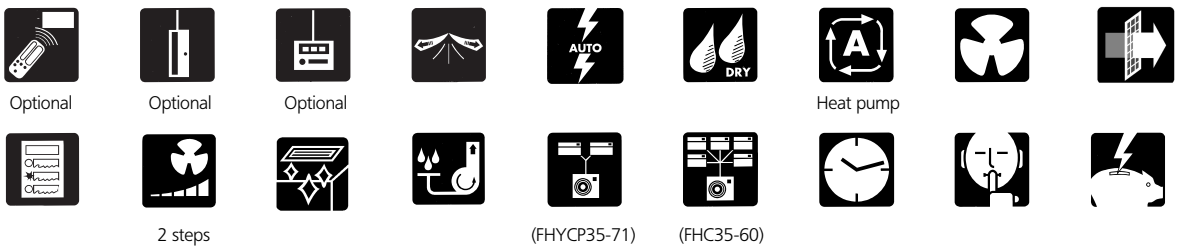


1 Features

- 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. They operate simultaneously within the same cooling or heating mode.
- These indoor units can also be connected to the new sky air super inverter RZP-D.
- 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			FHC35BZ7V1	FHC45BZ7V1	FHC60BZ7V1
NOMINAL INPUT	Cooling	kW	0.14	0.14	0.161

For combination indoor units + outdoor units:					
INDOOR UNITS			FHC35BZ7V1	FHC45BZ7V1	FHC60BZ7V1
OUTDOOR UNITS			R35GZ7V11	R45GZ7V11/W11	R60GZ7W1
NOMINAL CAPACITY (2)	Cooling (1)	kW	3.80	5.20	6.50
NOMINAL INPUT	Cooling	kW	1.36	2.20/2.10	2.67

TECHNICAL SPECIFICATIONS							
For indoor units only:							
INDOOR UNITS				FHC35BZV1	FHC45BZV1	FHC60BZV1	
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					
	Decoration panel		-	-	-	-	
COLOUR	Unit	-					
	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	
		medium	m ³ /min	-	-	-	
		low	m ³ /min	10	11	14	
	Speed	steps	2 steps (Direct drive)				
		high	rpm	-	-	-	
		low	rpm	-	-	-	
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)						
AIR DIRECTION CONTROL	-						
TEMPERATURE CONTROL	Computerised control						
PIPING CONNECTIONS	liquid	mm		ϕ 6.4 (flare)	ϕ 6.4 (flare)	ϕ 6.4 (flare)	
		mm		ϕ 12.7 (flare)	ϕ 15.9 (flare)	ϕ 15.9 (flare)	
	gas	mm			VP25 (L.D. ϕ 25)		
		mm			VP25 (O.D. ϕ 32)		
INSULATION MATERIAL	Heat insulation	Foamed polystyrene					
	Sound absorbing insulation	Foamed polystyrene					
For outdoor units only:	Pair application	See chapter R-GZ7/RP-B7					
	Multi model application	See chapter MA-GZ7					

2 Specifications



NOMINAL CAPACITY and NOMINAL INPUT					
For indoor units only:					
INDOOR UNITS			FHYCP71B7V1	FHYCP100B7V1	FHYCP125B7V1
NOMINAL INPUT	Cooling	kW	0.161	0.204	0.238

For combination indoor units + outdoor units:					
INDOOR UNITS			FHYCP71B7V1	FHYCP100B7V1	FHYCP125B7V1
OUTDOOR UNITS			RP71B7V1/W1/T1	RP100B7V1/W1/T1	RP125B7V1/T1
NOMINAL CAPACITY (2)	Cooling (1)	kW	7.1	10.0	12.2
NOMINAL INPUT	Cooling	kW	2.62/2.58/2.58	3.77/3.55/3.55	4.58/4.58

TECHNICAL SPECIFICATIONS							
For indoor units only:							
INDOOR UNITS			FHYCP71B7V1	FHYCP100B7V1	FHYCP125B7V1		
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					
	Decoration panel	-					
COLOUR	Unit	-					
	Decoration panel	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) (Cooling)	high	m ³ /min	18	28	31	
		medium	m ³ /min	-	-	-	
		low	m ³ /min	14	21	24	
	Speed	steps	2 steps (Direct drive)				
		high	rpm	-	-	-	
		low	rpm	-	-	-	
	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)						
AIR DIRECTION CONTROL	-						
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	Foamed polystyrene					
	Sound absorbing insulation	Foamed polystyrene					
For outdoor units only:	Pair application	See chapter R-GZ7/RP-B7					

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2 Specifications



ELECTRICAL SPECIFICATIONS						
For indoor units only:				FHC35BZ7V1	FHC45BZ7V1	FHC60BZ7V1
CURRENT	Nominal running current	cooling	A	-	-	-
For combination indoor units + outdoor units:				FHC35BZ7V1 R35GZ7V11	FHC45BZ7V1 R45GZ7V11/W11	FHC60BZ7V1 R60GZ7W1
CURRENT	Nominal running current	cooling	A	6.4	10.8	3.98
	Maximum running current	cooling	A	-	-	-
	Starting running current	cooling	A	33.5	48	19
For indoor units only:				FHC35BZ7V1	FHC45BZ7V1	FHC60BZ7V1
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:				FHYCP71B7V1	FHYCP100B7V1	FHYCP125B7V1
CURRENT	Nominal running current	cooling	A	-	-	-
For combination indoor units + outdoor units:				FHYCP71B7V1 RP71B7V1/W1/T1	FHYCP100B7V1 RP100B7V1/W1/T1	FHYCP125B7V1 RP125B7W1/T1
CURRENT	Nominal running current	cooling	A	-	-	-
	Maximum running current	cooling	A	-	-	-
For indoor units only:				FHYCP71B7V1	FHYCP100B7V1	FHYCP125B7V1
POWER SUPPLY				V1	V1	V1
NOMINAL DISTRIBUTION SYSTEM VOLTAGE	Phase			1~	1~	1~
	Frequency		Hz	50	50	50
	Voltage		V	230	230	230

NOTES

- 1 Nominal cooling capacities are based on: indoor temperature 27°CDB/19.5°CWB * outdoor temperature 35°CDB * equivalent refrigerant piping length: 7.5m * level difference: 0m.
- 2 Capacities are net, including a deduction for cooling for indoor fan motor heat.
- 3 The sound pressure level is measured via a microphone at 1.5m 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.
- 4 The sound power level is an absolute value indicating the "power" which a sound source generates.

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NOMINAL CAPACITY and NOMINAL INPUT						
For indoor units only:						
INDOOR UNITS			FHYC35BZ7V1	FHYC45BZ7V1	FHYCP35B7V1	FHYCP45B7V1
NOMINAL INPUT	Cooling	kW	0.14	0.14	0.14	0.14
	Heating	kW	0.14	0.14	0.14	0.14
For combination indoor units + outdoor units:						
INDOOR UNITS			FHYC35BZ7V1	FHYC45BZ7V1	FHYCP35B7V1	FHYCP45B7V1
OUTDOOR UNITS			RY35EAZ7V1	RY45EAZ7V1	-	-
NOMINAL CAPACITY (3)	Cooling (1)	kW	3.60	4.90	Twin/triple/double twin application	
	Heating (2)	kW	4.10	5.50		
NOMINAL INPUT	Cooling	kW	1.51	2.04		
	Heating	kW	1.46	1.91		
INDOOR UNITS						FHYCP45B7V1*
OUTDOOR UNITS						RZP71DV1
NOMINAL CAPACITY (3)	Cooling (1)	kW				5.0~10.0~11.4
	Heating (2)	kW				5.6~11.2~12.8
NOMINAL INPUT	Cooling	kW				0.9~3.1~3.8
	Heating	kW				1.1~3.3~4.0

* Twin application only

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2 Specifications

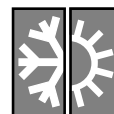


TECHNICAL SPECIFICATIONS								
For indoor units only:								
INDOOR UNITS				FHYC35BZ7V1	FHYC45BZ7V1	FHYCP35B7V1	FHYCP45B7V1	
DIMENSIONS	Unit	H	mm	230	230	230	230	
		W	mm	840	840	840	840	
		D	mm	840	840	840	840	
	Decoration panel	H	mm	40	40	40	40	
		W	mm	950	950	950	950	
		D	mm	950	950	950	950	
WEIGHT	Unit		kg	23	23	23	23	
	Decoration panel		kg	5	5	5	5	
MATERIAL	Unit	Galvanised steel plate						
	Decoration panel	-						
COLOUR	Unit	-						
	Decoration panel	White						
SOUND LEVEL	Sound pressure (cooling/heating) (4)	high	dB(A)	31/31	31/31	31/31	31/31	
		low	dB(A)	27/27	27/27	27/27	27/27	
	Sound power (cooling/heating) (5)	dB(A)	48/48	48/48	48/48	48/48		
FAN	Air flow rate (cooling/heating)	high	m ³ /min	14/14	15/15	14/14	15/15	
		medium	m ³ /min	-	-	-	-	
		low	m ³ /min	10/10	11/11	10/10	11/11	
	Speed (cooling/heating)	steps	2 steps (Direct drive)					
		high	rpm	-	-	-	-	
		low	rpm	-	-	-	-	
	Type	Turbo fan						
	Qty x model			1 x QTS46B14M	1 x QTS46B14M	1 x QTS46B14M	1 x QTS46B14M	
Qty x motor output	W		1 x 45	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	2 x 8 x 1.5	
	Face area	m ²		0.331	0.331	0.331	0.331	
AIR FILTER	Resin net (with mold resistant)							
AIR DIRECTION CONTROL	-							
TEMPERATURE CONTROL	Computerised control							
PIPING CONNECTIONS	liquid	mm	ϕ 6.4 (flare)	ϕ 6.4 (flare)	ϕ 6.4 (flare)	ϕ 6.4 (flare)		
		mm	ϕ 12.7 (flare)	ϕ 15.9 (flare)	ϕ 12.7 (flare)	ϕ 15.9 (flare)		
	drain	VP25 (I.D. ϕ 25)						
		VP25 (O.D. ϕ 32)						
INSULATION MATERIAL	Heat insulation	Foamed polystyrene						
	Sound absorbing insulation	Foamed polystyrene						

For outdoor units only:	Pair application	See chapter R-GZ7/RP-B7	-
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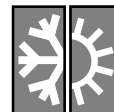
2 Specifications



NOMINAL CAPACITY and NOMINAL INPUT						
For indoor units only:						
INDOOR UNITS			FHYCP60B7V1	FHYCP71B7V1	FHYCP100B7V1	FHYCP125B7V1
NOMINAL INPUT	Cooling	kW	0.161	0.161	0.204	0.238
	Heating	kW	0.161	0.161	0.204	0.238
For combination indoor units + outdoor units:						
INDOOR UNITS			FHYCP60B7V1	FHYCP71B7V1	FHYCP100B7V1	FHYCP125B7V1
OUTDOOR UNITS			-	RYP71B7V1/W1	RYP100B7V1/W1	RYP125B7W1
NOMINAL CAPACITY (3)	Cooling (1)	kW	Twin/triple/double twin application	7.1	10.0	12.2
	Heating (2)	kW		7.7	11.2	14.3
NOMINAL INPUT	Cooling	kW		2.62/2.58	3.77/3.55	4.58
	Heating	kW		2.66/2.62	3.92/3.70	4.57
INDOOR UNITS			FHYCP100B7V1	FHYCP71B7V1	FHYCP100B7V1	FHYCP125B7V1
OUTDOOR UNITS			RZP100DV1	RZP71DV1	RZP100DV1	RZP125DV1
NOMINAL CAPACITY (3)	Cooling (1)	kW	6.0~12.5~14.3	3.3~7.1~8.0	5.0~10.0~11.4	6.0~12.5~14.3
	Heating (2)	kW	6.0~14.0~16.2	3.5~8.0~9.0	5.6~11.2~12.8	6.0~14.0~16.2
NOMINAL INPUT	Cooling	kW	1.2~3.8~5.0	0.6~2.2~2.4	0.9~3.1~3.7	1.1~3.7~4.8
	Heating	kW	1.0~4.2~5.0	0.6~2.4~2.9	1.2~3.5~4.3	1.1~4.5~5.4

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TECHNICAL SPECIFICATIONS								
For indoor units only:								
INDOOR UNITS				FHYCP60B7V1	FHYCP71B7V1	FHYCP100B7V1	FHYCP125B7V1	
DIMENSIONS	Unit	H	mm	230	230	288	288	
		W	mm	840	840	840	840	
		D	mm	840	840	840	840	
	Decoration panel	H	mm	40	40	40	40	
		W	mm	950	950	950	950	
		D	mm	950	950	950	950	
WEIGHT	Unit		kg	23	23	27	27	
	Decoration panel		kg	5	5	5	5	
MATERIAL	Unit	Galvanised steel plate						
	Decoration panel	-						
COLOUR	Unit	-						
	Decoration panel	White						
SOUND LEVEL	Sound pressure (cooling/heating) (4)	high	dB(A)	33/33	33/33	37/37	40/40	
		low	dB(A)	28/28	28/28	32/32	35/35	
	Sound power (cooling/heating) (5)		dB(A)	50/50	50/50	53/53	56/56	
FAN	Air flow rate (cooling/heating)	high	m ³ /min	18/18	18/18	28/28	31/31	
		medium	m ³ /min	-	-	-	-	
		low	m ³ /min	14/14	14/14	21/21	24/24	
	Speed (cooling/heating)	steps	2 steps (Direct drive)					
		high	rpm	-	-	-	-	
		low	rpm	-	-	-	-	
	Type	Turbo fan						
	Qty x model			1 x QTS46B14M	1 x QTS46B14M	1 x QTS46A17M	1 x QTS46A17M	
Qty x motor output	W		1 x 45	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 8 x 1.5	2 x 12 x 1.5	2 x 12 x 1.5	
	Face area	m ²		0.331	0.331	0.497	0.497	
AIR FILTER	Resin net (with mold resistant)							
AIR DIRECTION CONTROL	-							
TEMPERATURE CONTROL	Computerised control							
PIPING CONNECTIONS	liquid	mm	ϕ 9.5 (flare)	ϕ 9.5 (flare)	ϕ 9.5 (flare)	ϕ 9.5 (flare)		
		mm	ϕ 15.9 (flare)	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	Foamed polystyrene						
	Sound absorbing insulation	Foamed polystyrene						
For outdoor units only:	Pair application			-	See chapter RY-EAZ7/RYP-B7, RZP-D			

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2 Specifications



ELECTRICAL SPECIFICATIONS							
For indoor units only:				FHYC35BZ7V1	FHYC45BZ7V1	FHYCP35B7V1	FHYCP45B7V1
CURRENT	Nominal running current	cooling	A	0.14	0.14	0.14	0.14
		heating	A	0.14	0.14	0.14	0.14

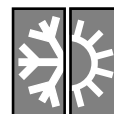
For combination indoor units + outdoor units:				FHYC35BZ7V1 RY35EAZ7V1	FHYC45BZ7V1 RY45EAZ7V1	FHYCP35B7V1 -	FHYCP45B7V1 -
CURRENT	Nominal running current	cooling	A	6.9	9.1	Twin/triple/double twin application	
		heating	A	6.4	8.8		
	Maximum running current	cooling	A	-	-		
		heating	A	-	-		
	Starting running current	cooling	A	34	42		
		heating	A	34	42		

For combination indoor units + outdoor units:				FHYCP45B7V1* RZP71DV1			
CURRENT	Nominal running current	cooling	A				-
		heating	A				-
	Maximum running current	cooling	A				-
		heating	A				-

* Twin application only

For indoor units only:				FHYC35BZ7V1	FHYC45BZ7V1	FHYCP35B7V1	FHYCP45B7V1
POWER SUPPLY				V1	V1	V1	V1
NOMINAL DISTRIBUTION SYSTEM VOLTAGE	Phase			1~	1~	1~	1~
	Frequency		Hz	50	50	50	50
	Voltage		V	230	230	230	230

2 Specifications



ELECTRICAL SPECIFICATIONS							
For indoor units only:				FHYCP60B7V1	FHYCP71B7V1	FHYCP100B7V1	FHYCP125B7V1
CURRENT	Nominal running current	cooling	A	0.161	0.161	0.204	0.238
		heating	A	0.161	0.161	0.204	0.238
For combination indoor units + outdoor units:				FHYCP60B7V1	FHYCP71B7V1	FHYCP100B7V1	FHYCP125B7V1
				-	RYP71B7V1/W1	RYP100B7V1/W1	RYP125B7V1
CURRENT	Nominal running current	cooling	A	Twin/triple/double twin application	-	-	-
		heating	A		-	-	-
	Maximum running current	cooling	A		-	-	-
		heating	A		-	-	-
For combination indoor units + outdoor units:				FHYCP100B7V1	FHYCP71B7V1	FHYCP100B7V1	FHYCP125B7V1
				RZP100DV1	RZP71DV1	RZP100DV1	RZP125DV1
CURRENT	Nominal running current	cooling	A	-	-	-	-
		heating	A	-	-	-	-
	Maximum running current	cooling	A	-	-	-	-
		heating	A	-	-	-	-
For indoor units only:				FHYCP60B7V1	FHYCP71B7V1	FHYCP100B7V1	FHYCP125B7V1
POWER SUPPLY				V1	V1	V1	V1
NOMINAL DISTRIBUTION SYSTEM VOLTAGE	Phase			1~	1~	1~	1~
	Frequency			Hz	50	50	50
	Voltage			V	230	230	230

NOTES

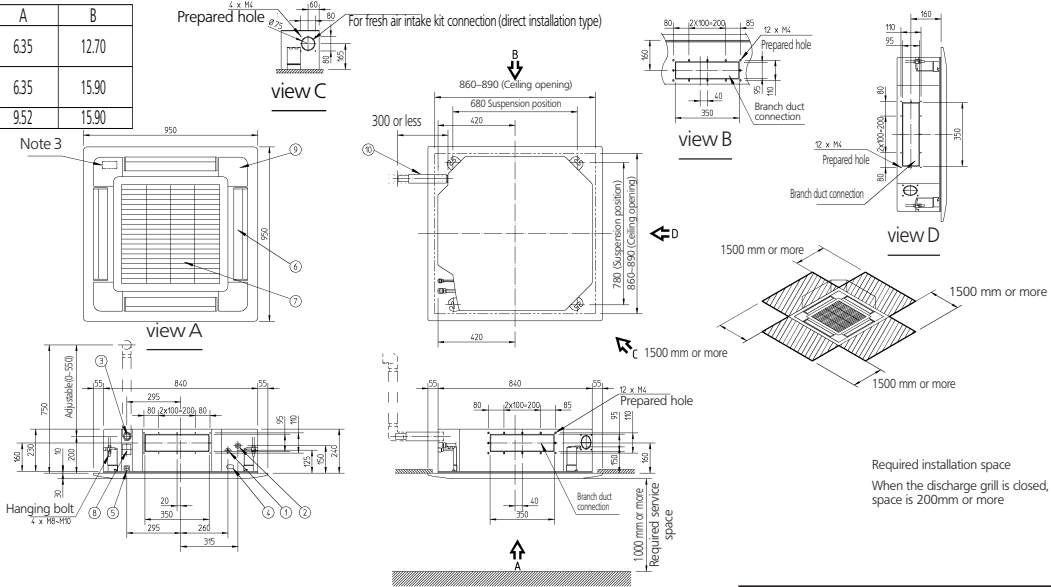
- Nominal cooling capacities are based on: indoor temperature 27°CDB/19°CWB * outdoor temperature 35°CDB * refrigerant piping length: 7.5m * level difference: 0m.
- Nominal heating capacities are based on: indoor temperature: 20°CDB * outdoor temperature: 7°CDB/6°CWB * refrigerant piping length: 7.5m * 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 via a microphone at 1.5m 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

FHC35-60BZ7/FHYC35-45BZ7/FHYP35-71B7

Model	A	B
FHC35BZ	6.35	12.70
FHYP35B, FHYC35BZ	6.35	15.90
FHC45BZ, FHC60BZ	6.35	15.90
FHYC45BZ, FHYC45B	9.52	15.90
FHYP60B, FHYCP71B	9.52	15.90



Note:

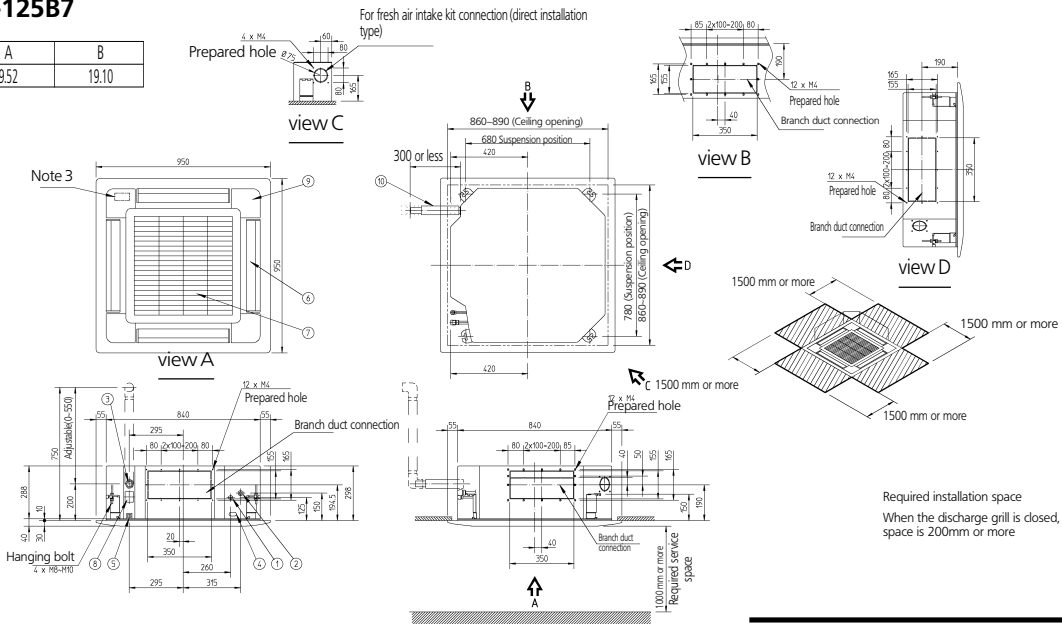
1. Location of unit's name plate
Main body: bell mouth inside the suction grille.
Decoration panel: panel inner frame inside the suction grille.
2. When installing an optional accessory, refer to the installation drawings.
 - For fresh air intake kit - inspection port is necessary
 - For high efficiency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

- 1 Liquid pipe connection ϕ A Flare connection
- 2 Gas pipe connection ϕ B Flare connection
- 3 Drain pipe connection VP25 (O.D. ϕ 32, I.D. ϕ 25)
- 4 Power supply connection
- 5 Transmission wiring connection
- 6 Air discharge grille
- 7 Air suction grille
- 8 Water supply intake
- 9 Corner decoration cover
- 10 Drain hose O.D. ϕ 32

3TW22834-1

FHYP100-125B7

Model	A	B
FHYP100,125	9.52	19.10



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 an infrared remote control, this position will be a signal receiver.
Refer to the drawing of infrared remote controller in detail
4. When it may exceed 30°C and RH 80% in the ceiling or fresh air is inducted into the ceiling, an additional insulation (Thickness 10mm or more of glasswool or polyethylene form) is required.

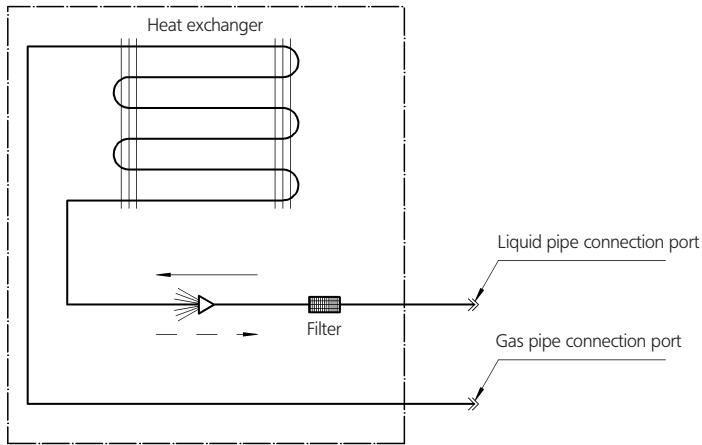
- 1 Liquid pipe connection ϕ A Flare connection
- 2 Gas pipe connection ϕ B Flare connection
- 3 Drain pipe connection VP25 (O.D. ϕ 32, I.D. ϕ 25)
- 4 Power supply connection
- 5 Transmission wiring connection
- 6 Air discharge grille
- 7 Air suction grille
- 8 Water supply intake
- 9 Corner decoration cover
- 10 Drain hose O.D. ϕ 32

3TW22874-1



4 Piping diagrams

FHC35-60BZ7/FHYC35-45BZ7/FHYCP35-125B7



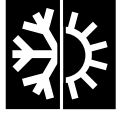
Refrigerant flow
 Cooling ———→
 Heating - - - - -→

Refrigerant pipe connection port diameters

Model	Gas	Liquid
FHC35B, FHC35BZ FHYC35BZ, FHYCP35B	φ 12.70	φ 6.35
FHC45BZ, FHC60BZ FHYC45BZ, FHYCP45B	φ 15.90	φ 6.35
FHYCP60B, FHYCP71B	φ 15.90	φ 9.52
FHYCP100B, FHYCP125B	φ 19.10	φ 9.52

Check valve
 Flare connection
 Screw connection
 Flange connection
 Pinched pipe
 Spinned pipe

3TW20435-1G



5 Wiring diagrams

FHC35-60BZ7

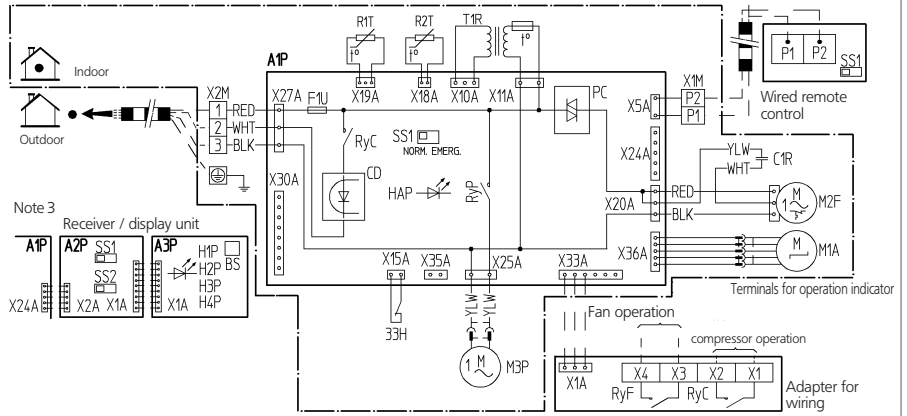
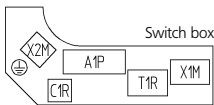
Notes

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 remote control kit is used.
4. The infrared remote controller model varies according to the combination system. See technical data and catalogs before connecting.

Note 3

Field wiring Terminal
 Connector
 Wire clamp
 Protective earth (screw)

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



- 33H Float switch
- A1P Printed circuit board
- C1R Capacitor (M2F)
- F1U Fuse (250V, 5A)
- HAP Light emitting diode (service monitor green)
- M1A Motor (swing flap)
- M2F Motor (indoor fan)
- M3P Motor (drain pump)
- Q1F Thermo switch (M2F embedded)
- R1T Thermistor (air)
- R2T Thermistor (coil)

- RyP Magnetic relay (M3P)
- RyC Magnetic relay (outdoor unit compressor)
- SS1 Selector switch (emergency)
- T1R Transformer (220-240V/22V)
- X1M Terminal strip (power)
- X2M Terminal strip (control)
- PC Current detect circuit
- Wired remote control
- SS1 Selector switch (main/sub)

- Receiver / display unit (attached to infrared remote control)
- A2P/A3P Printed circuit board
- BS Push button (on/off)
- H1P Light emitting diode (on-red)
- H2P Light emitting diode (timer-green)
- H3P Light emitting diode (filter sign-red)
- H4P Light emitting diode (defrost-orange)
- SS1 Selector switch (main/sub)
- SS2 Selector switch (wireless address set)

- Adapter for wiring
- RyC/RyF Magnetic relay
- Connector for optional parts
- X30A Connector (interface adapter for sky air series)
- X33A Connector (adapter for wiring)
- X35A Connector (group control adapter)

3TW22896-1

FHYC35-45BZ7 FHYP35-125B7

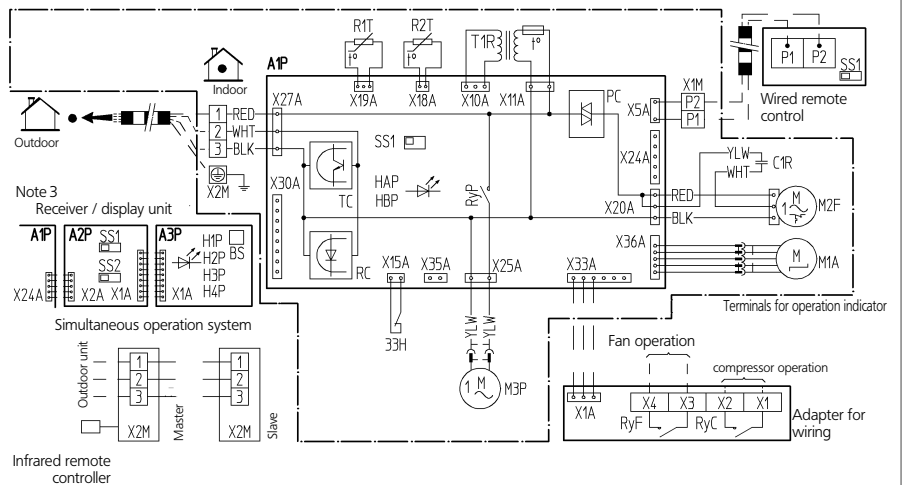
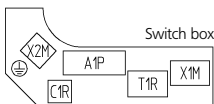
Notes

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 remote control kit is used.
4. The infrared remote controller model varies according to the combination system. See technical data and catalogs before connecting.

Note 3

Field wiring Terminal
 Connector
 Wire clamp
 Protective earth (screw)

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



- 33H Float switch
- A1P Printed circuit board
- C1R Capacitor (M2F)
- HAP Light emitting diode (service monitor green)
- HBP Light emitting diode (service monitor green)
- M1A Motor (swing flap)
- M2F Motor (indoor fan)
- M3P Motor (drain pump)
- Q1F Thermo switch (M2F embedded)
- R1T Thermistor (air)
- R2T Thermistor (coil)

- RyP Magnetic relay (M3P)
- SS1 Selector switch (emergency)
- T1R Transformer (220-240V/22V)
- X1M Terminal strip (power)
- X2M Terminal strip (control)
- PC Phase control circuit
- RC Signal receiver circuit (power)
- TC Signal transmission circuit (power)
- Wired remote control
- SS1 Selector switch (main/sub)

- Receiver / display unit (attached to infrared remote control)
- A2P/A3P Printed circuit board
- BS Push button (on/off)
- H1P Light emitting diode (on-red)
- H2P Light emitting diode (timer-green)
- H3P Light emitting diode (filter sign-red)
- H4P Light emitting diode (defrost-orange)
- SS1 Selector switch (main/sub)
- SS2 Selector switch (wireless address set)

- Adapter for wiring
- RyC/RyF Magnetic relay
- Connector for optional parts
- X30A Connector (interface adapter for sky air series)
- X33A Connector (adapter for wiring)
- X35A Connector (group control adapter)

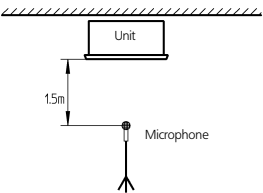
3TW22926-1



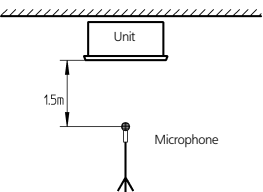
6 Sound level

6-1 Sound level data

Cooling only

Model	Sound pressure level		Measuring location 	Sound power level (H) (cooling)
	230V			
	50Hz			
	H	L		
FHC35BZ7	31	27		48
FHC45BZ7	31	27		48
FHC60BZ7	33	28		50
FHYCP71B7	33	28		50
FHYCP100B7	37	32		53
FHYCP125B7	40	35		56

Heat pump

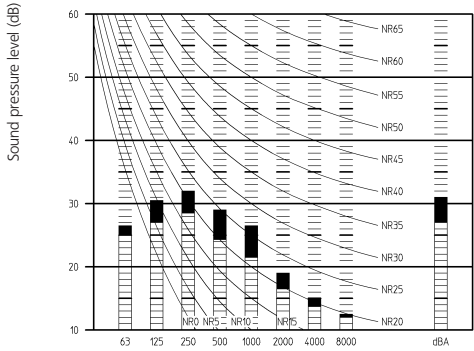
Model	Sound pressure level		Measuring location 	Sound power level (H) (cooling/heating)
	230V			
	50Hz			
	H (cooling/heating)	L (cooling/heating)		
FHYC35BZ7	31/31	27/27		48/48
FHYC45BZ7	31/31	27/27		48/48
FHYCP35B7	31/31	27/27		48/48
FHYCP45B7	31/31	27/27		48/48
FHYCP60B7	33/33	28/28		50/50
FHYCP71B7	33/33	28/28		50/50
FHYCP100B7	37/37	32/32		53/53
FHYCP125B7	40/40	35/35		56/56



6 Sound levels

6-2 Sound pressure spectrum

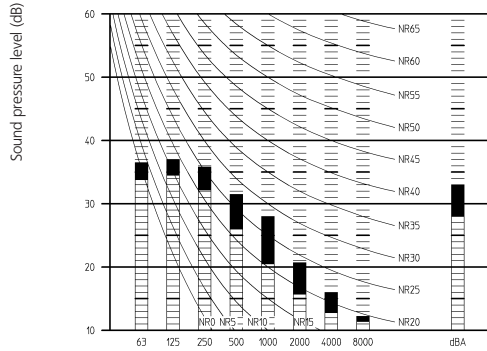
FH(Y)C(P)35-45



3TW22837-1

Octave band center frequency (Hz)

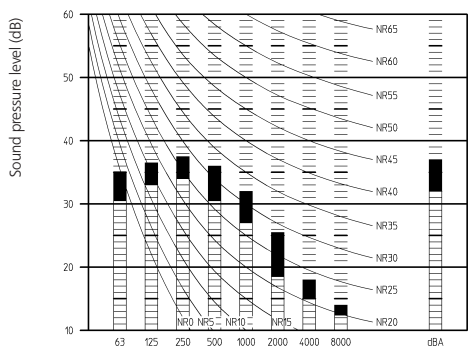
FH(Y)C(P)60-71



3TW22857-1

Octave band center frequency (Hz)

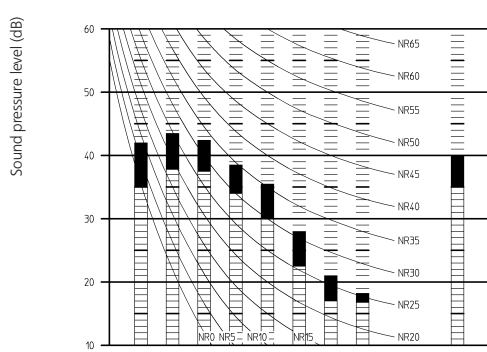
FHYCP100



3TW22877-1

Octave band center frequency (Hz)

FHYCP125



3TW22887-1

Octave band center frequency (Hz)

6

6-2

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

Legend

- High speed
- Low speed

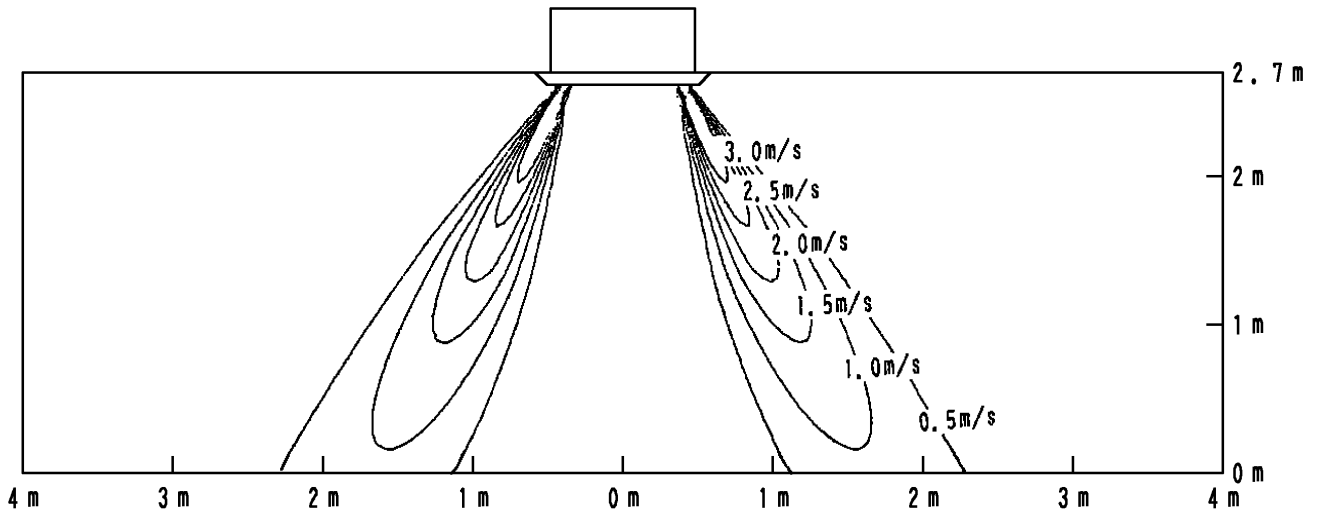


7 Air flow patterns

FHYC(P)35B(Z)7

Heating - air velocity distribution

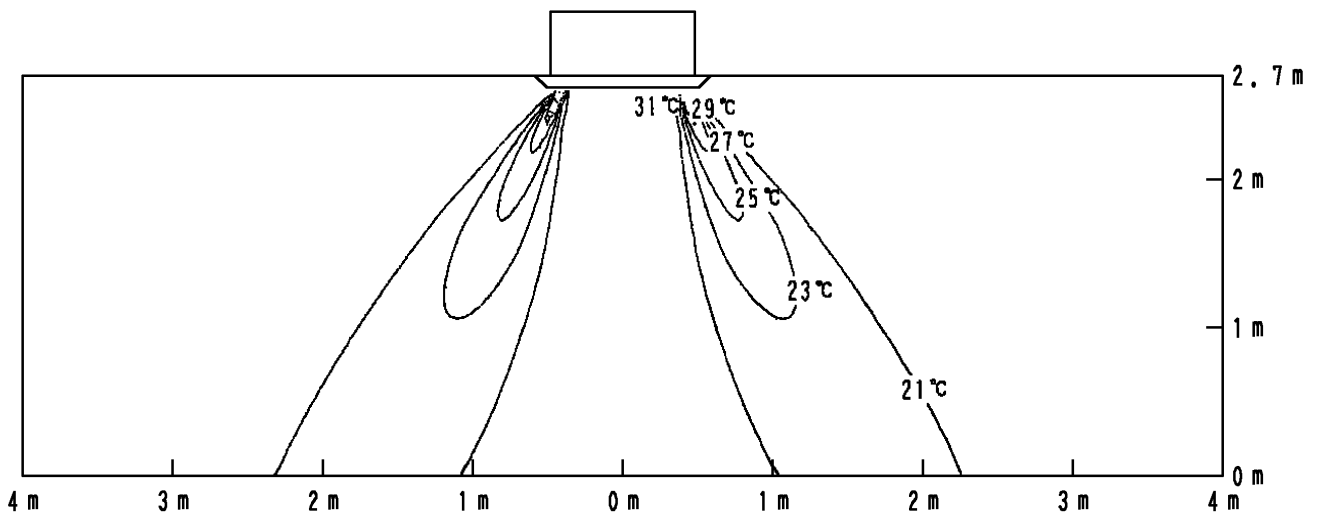
4-way discharge, air flow direction: down



FHYC(P)35B(Z)7

Heating - air temperature distribution

4-way discharge, air flow direction: down



7

4D024116

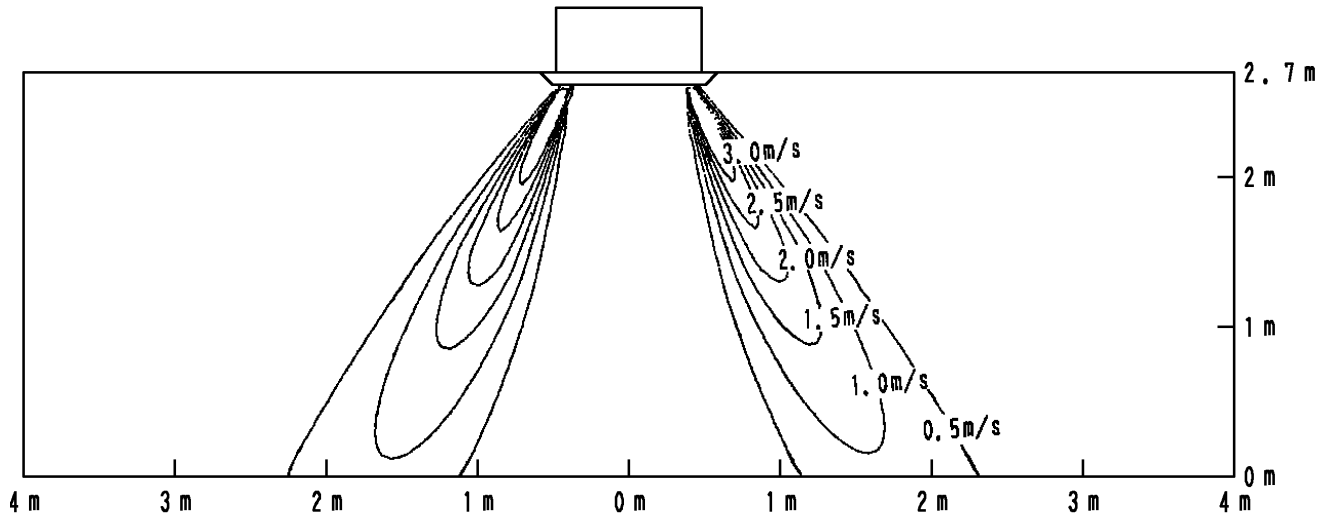


7 Air flow patterns

FHYC(P)45B(Z)7

Heating - air velocity distribution

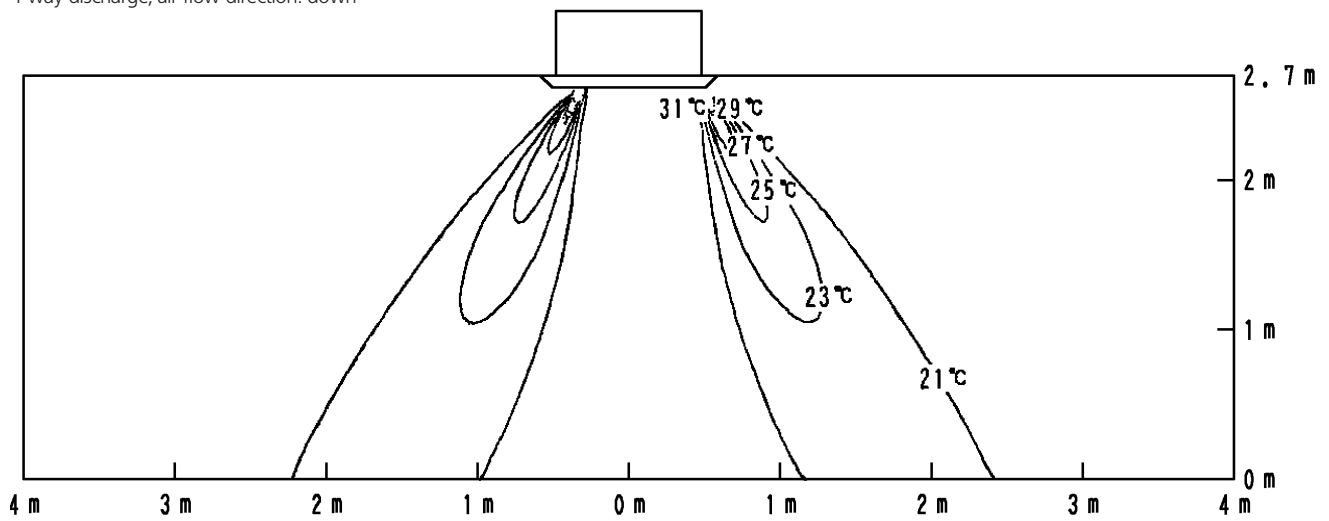
4-way discharge, air flow direction: down



FHYC(P)45B(Z)7

Heating - air temperature distribution

4-way discharge, air flow direction: down



7

4D024117

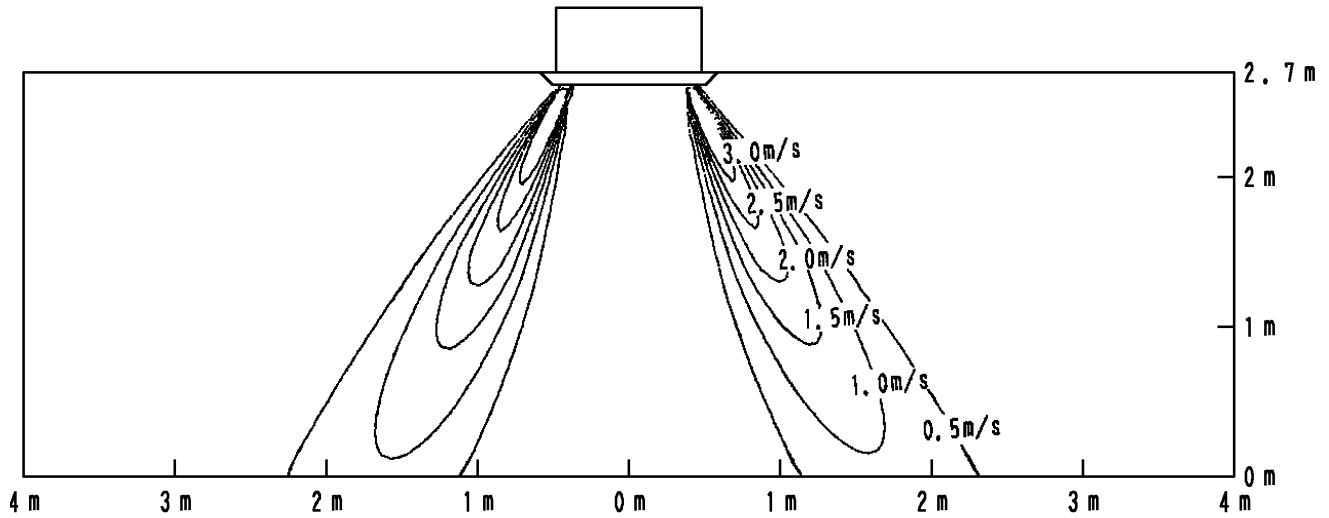


7 Air flow patterns

FHYCP60-71B7

Heating - air velocity distribution

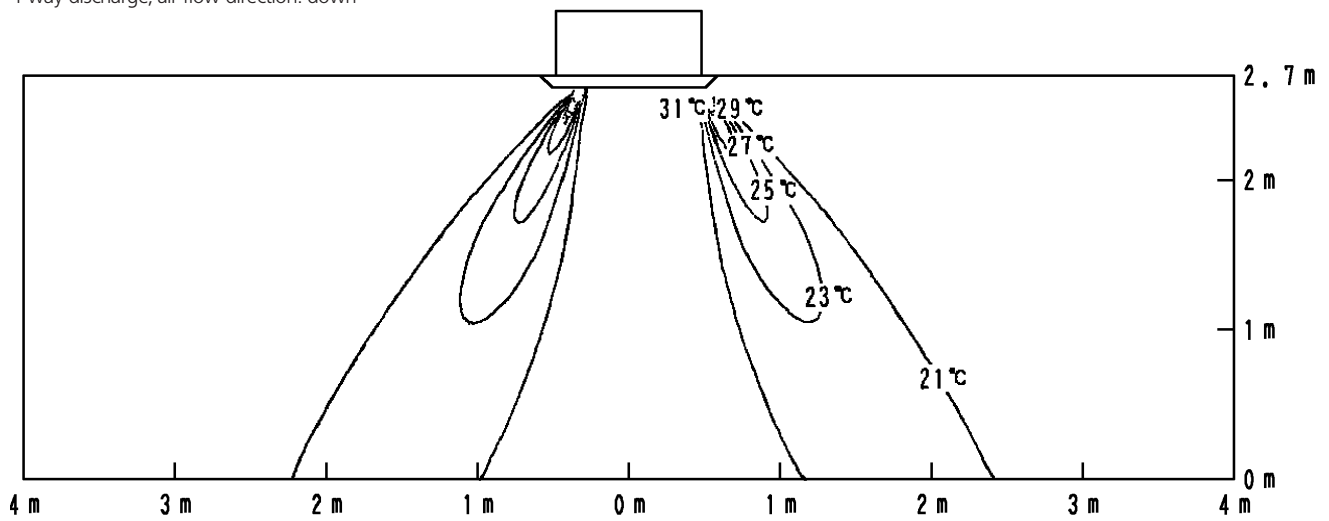
4-way discharge, air flow direction: down



FHYCP60-71B7

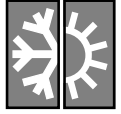
Heating - air temperature distribution

4-way discharge, air flow direction: down



7

4D024118

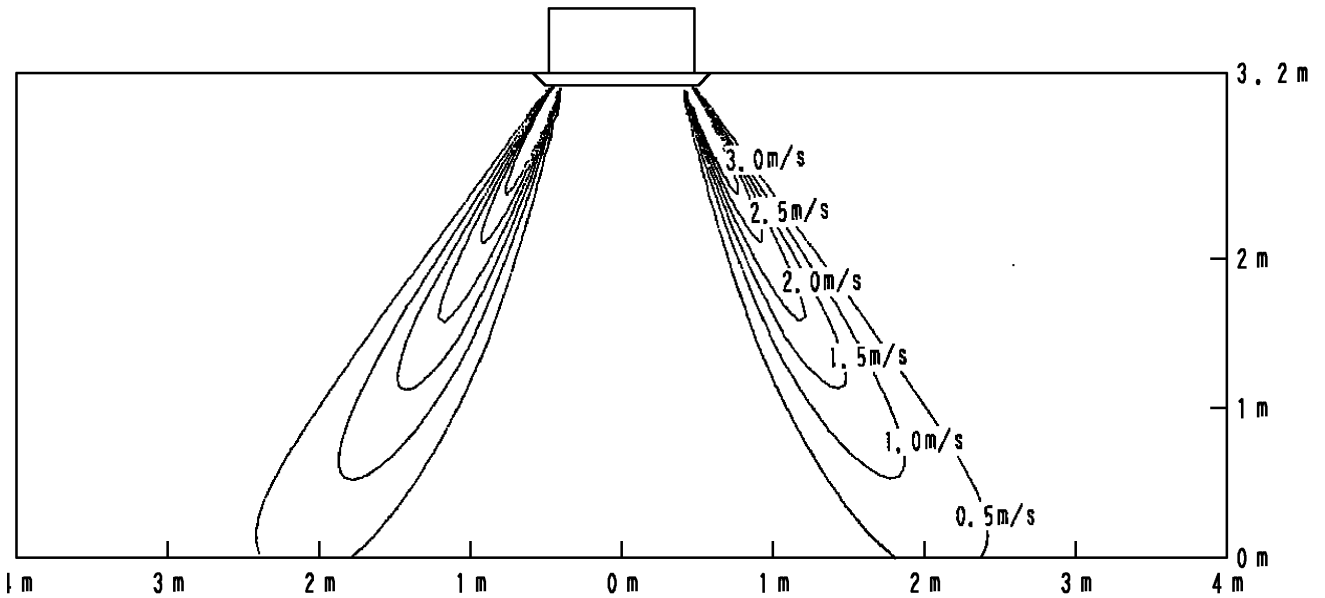


7 Air flow patterns

FHYCP100B7

Heating - air velocity distribution

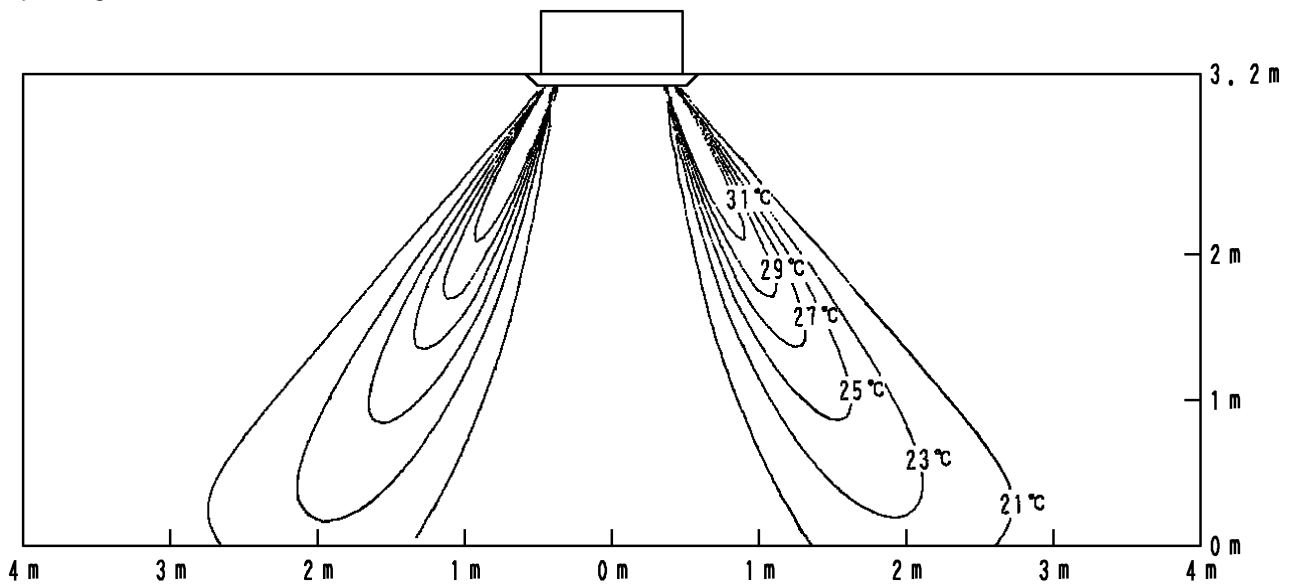
4-way discharge, air flow direction: down



FHYCP100B7

Heating - air temperature distribution

4-way discharge, air flow direction: down



4D024119

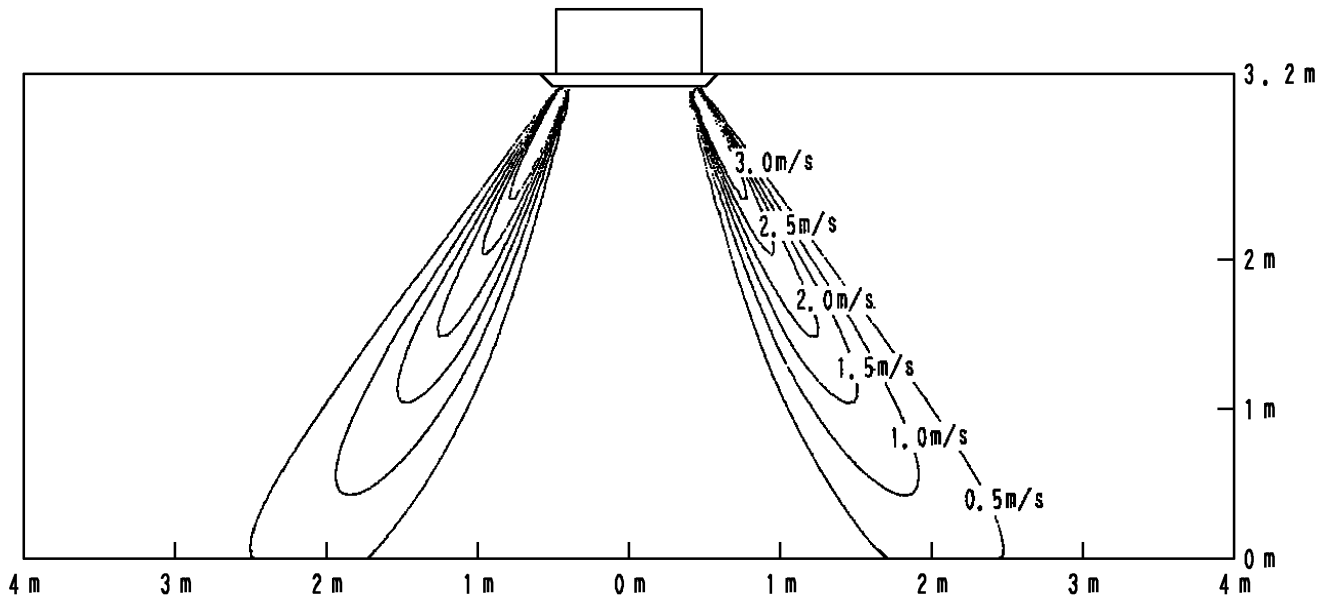


7 Air flow patterns

FHYCP125B7

Heating - air velocity distribution

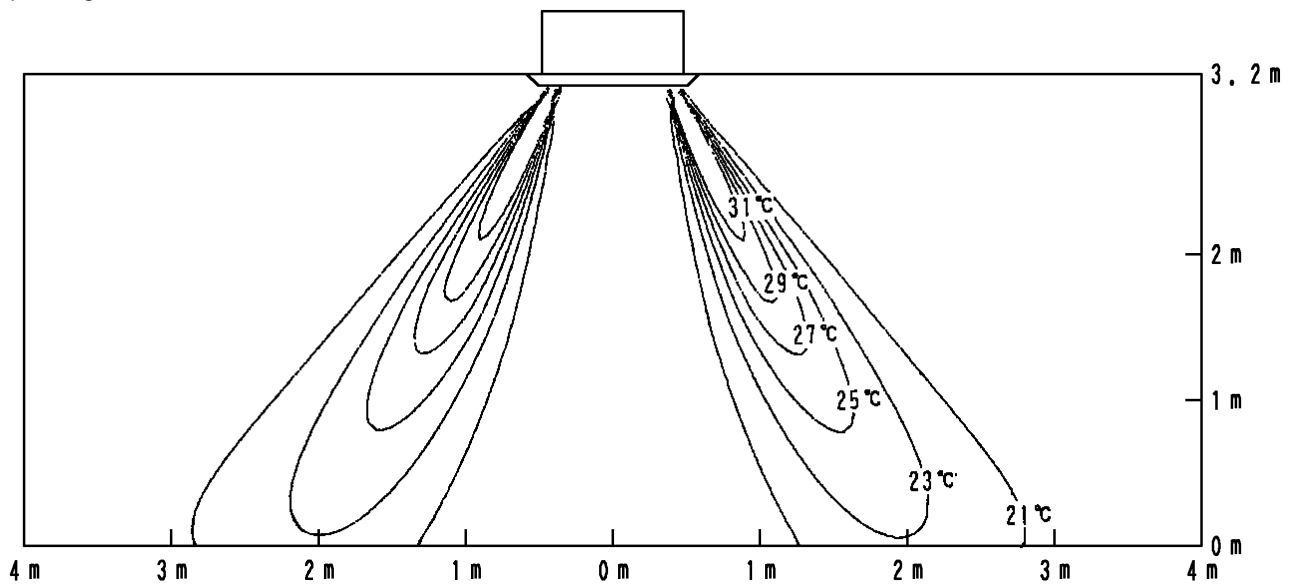
4-way discharge, air flow direction: down



FHYCP125B7

Heating - air temperature distribution

4-way discharge, air flow direction: down



4D024120

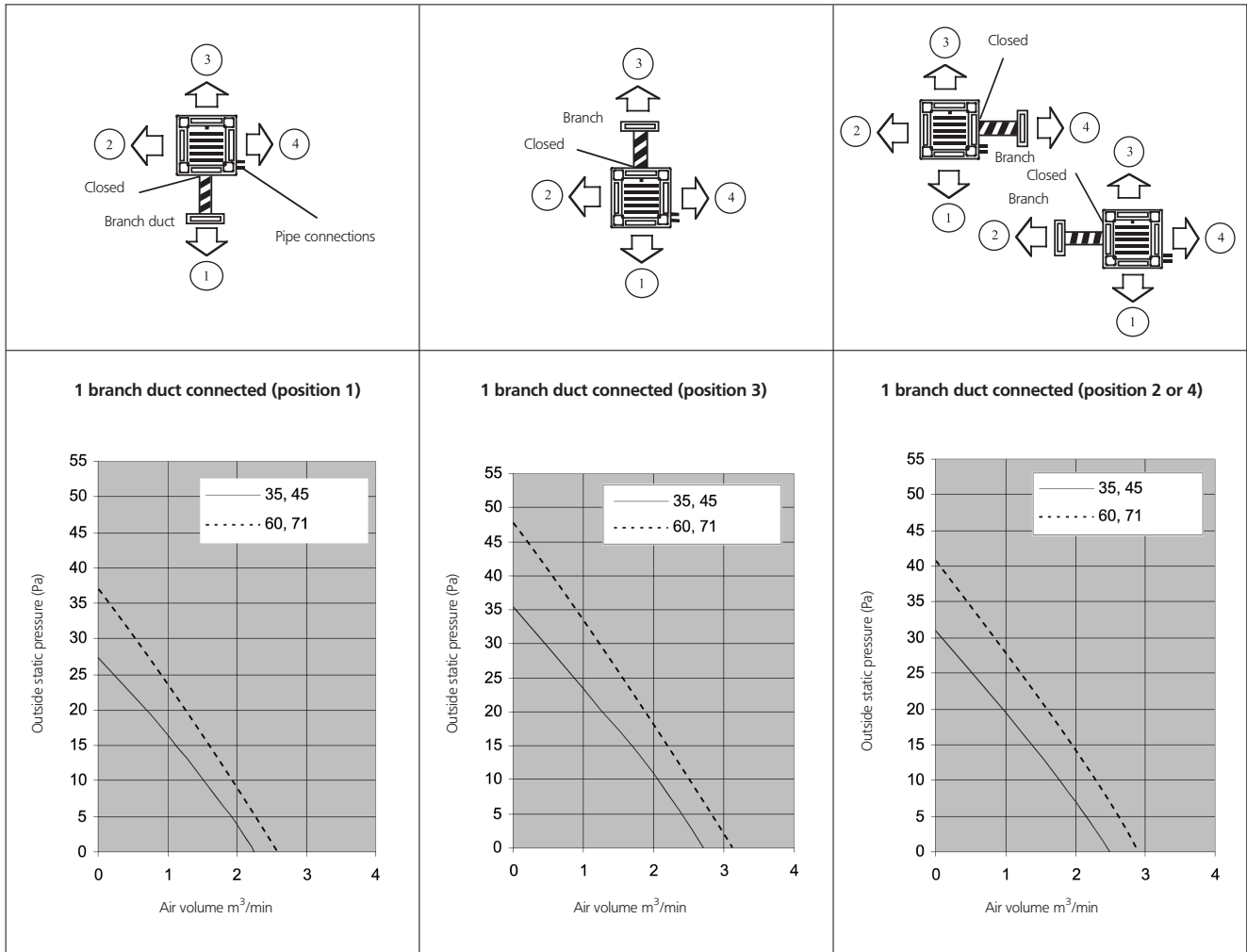


7 Air flow patterns

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



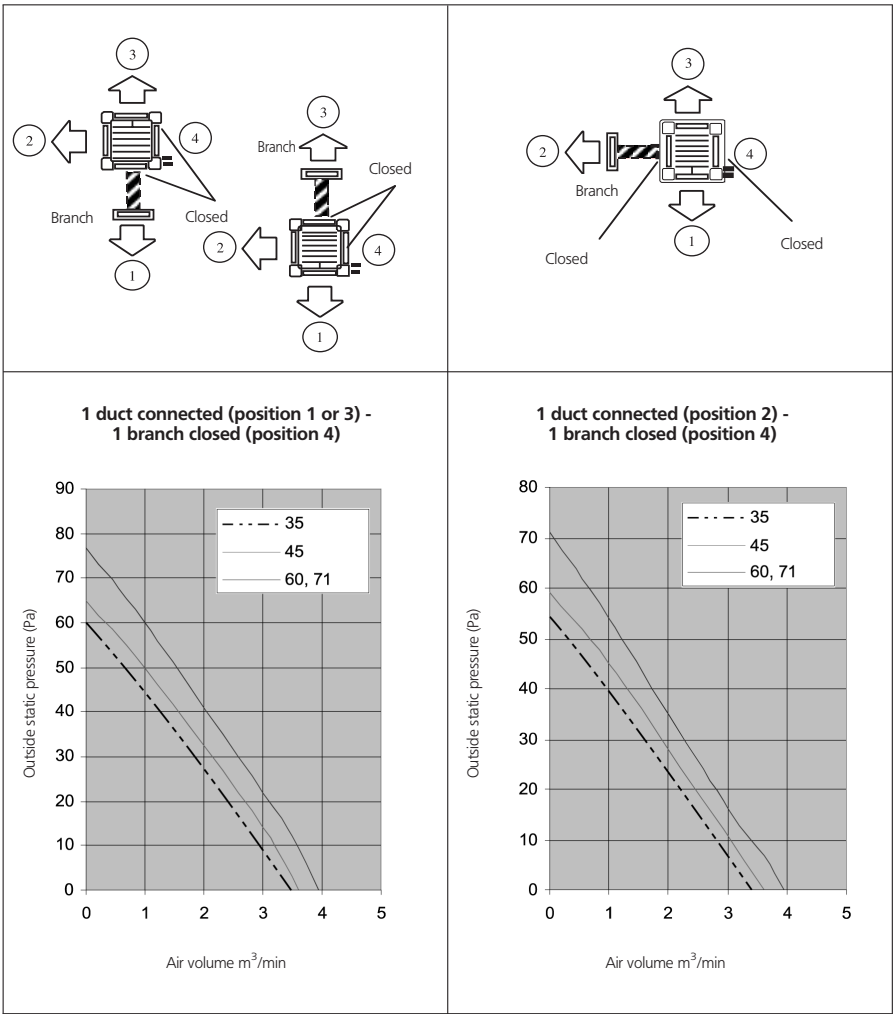


7 Air flow patterns

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



3TW22839-8

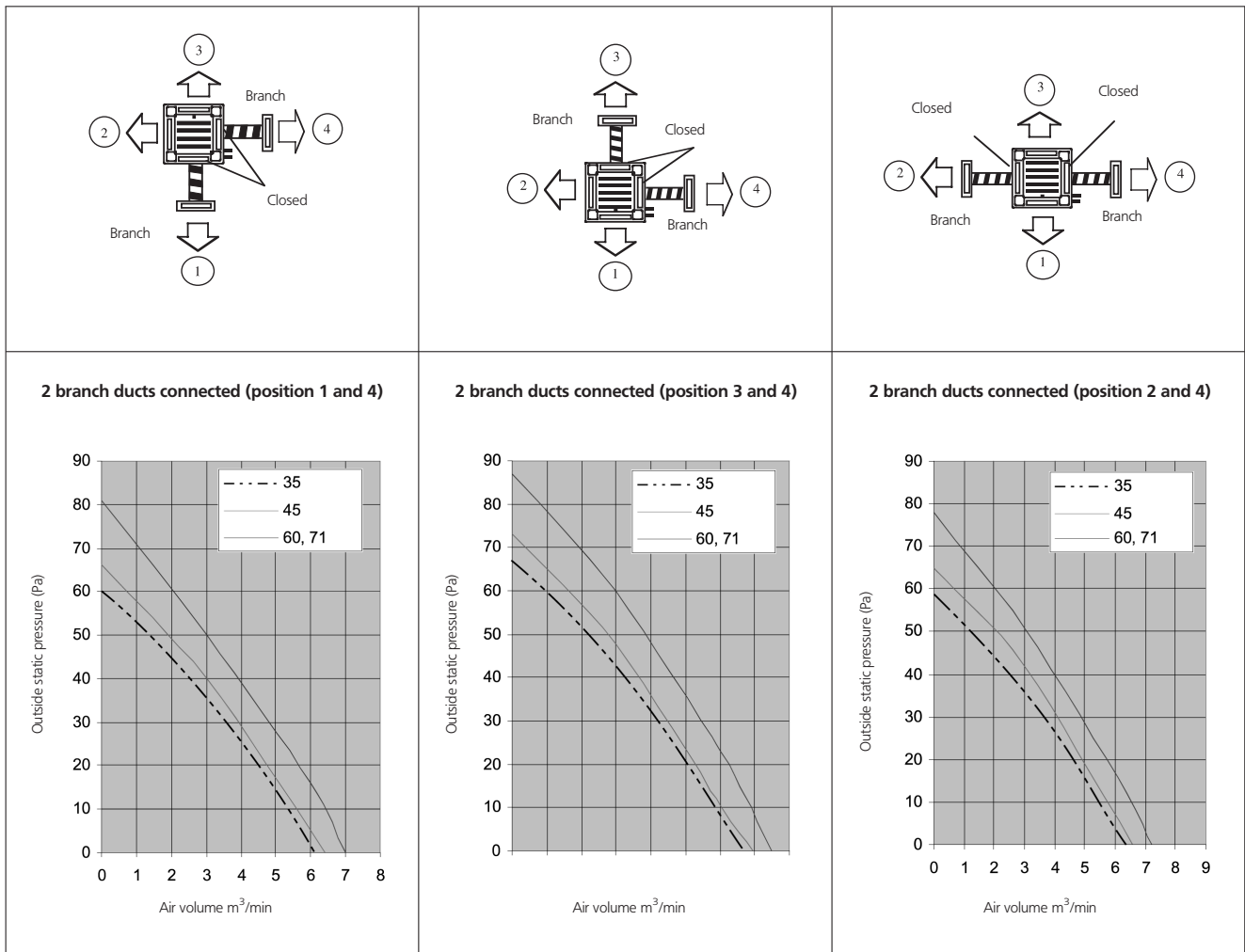


7 Air flow patterns

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



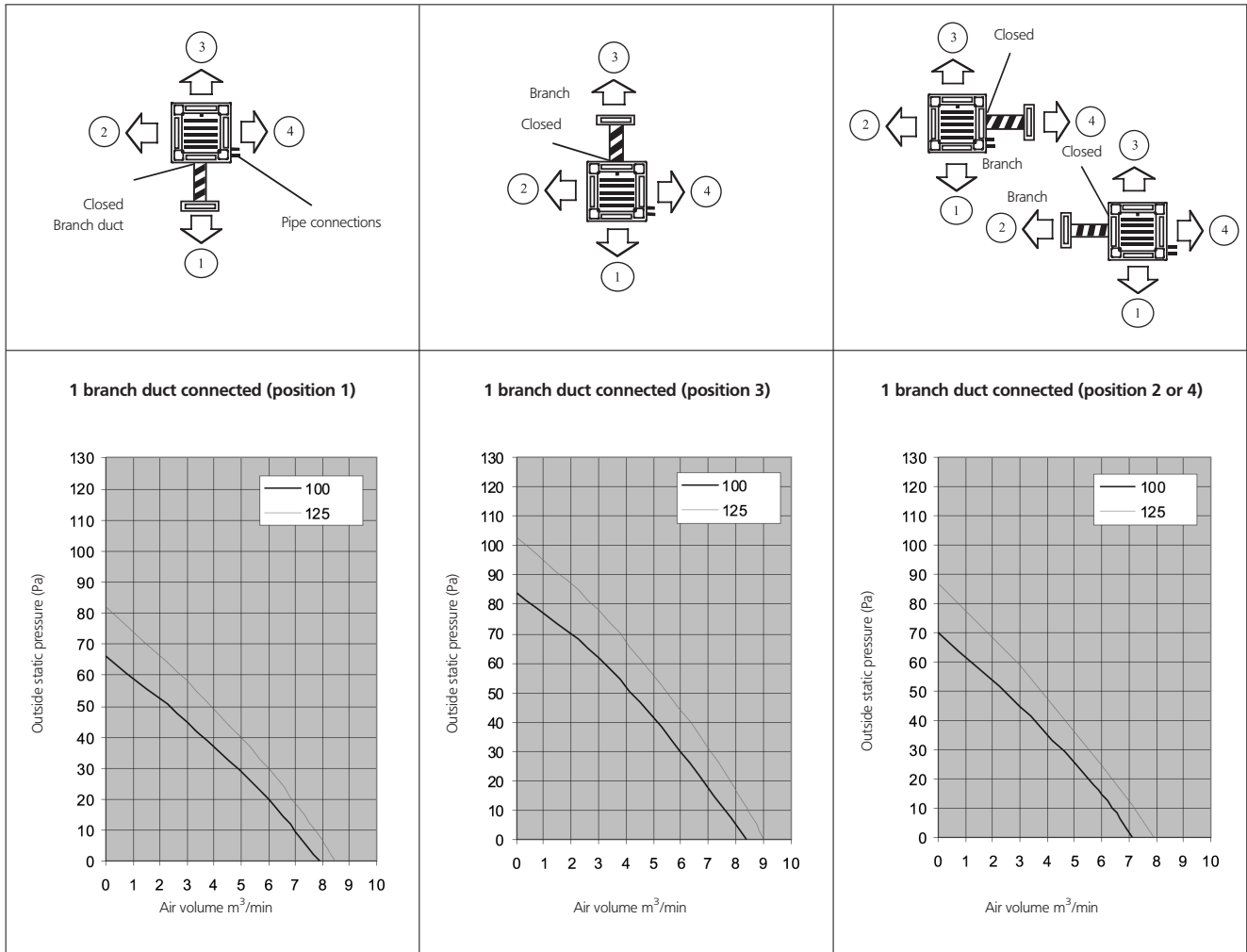


7 Air flow patterns

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



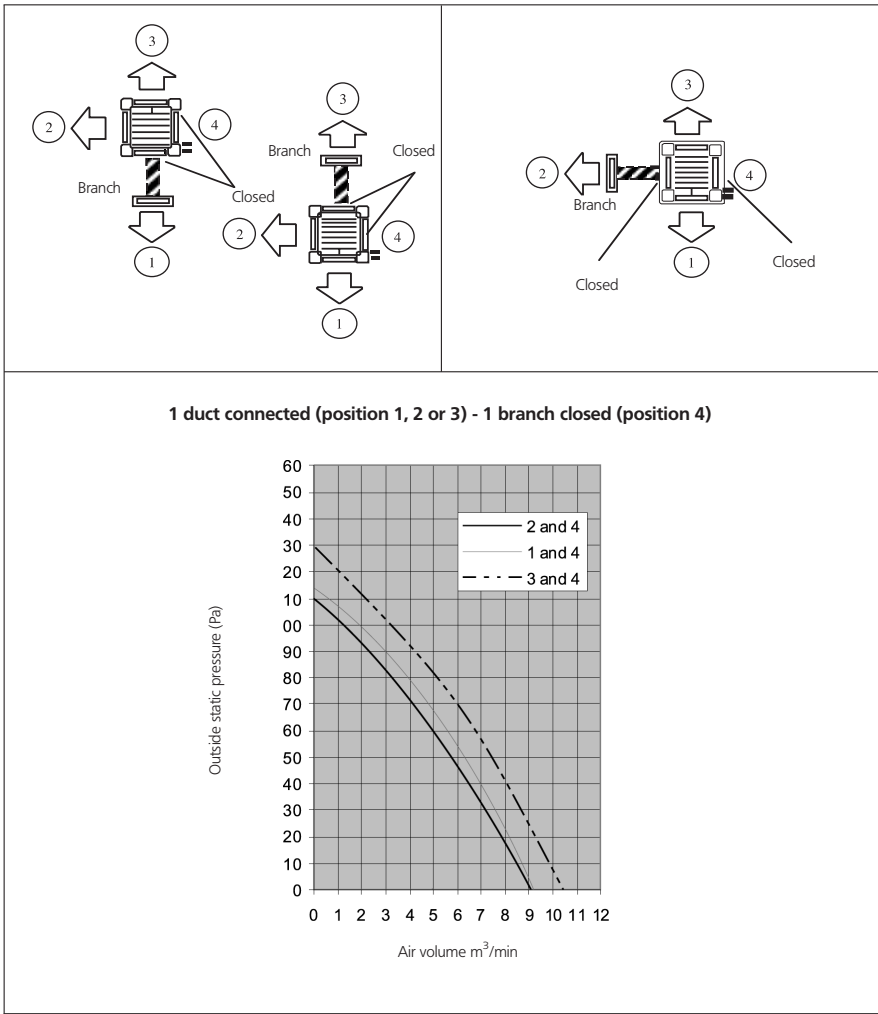


7 Air flow patterns

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



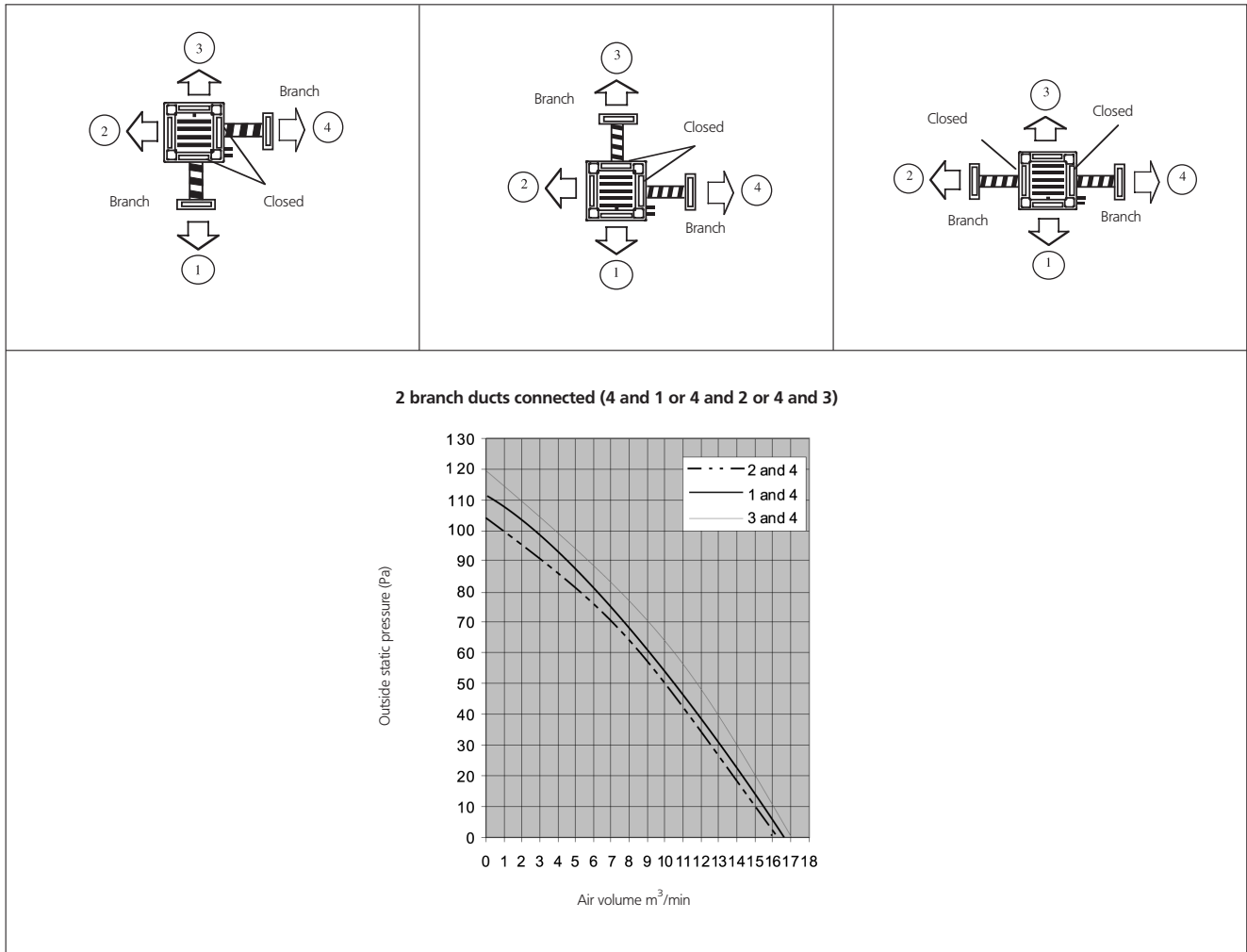


7 Air flow patterns

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







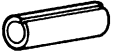





8 Accessories

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.
Insulation for fitting 1 of each  For gas pipe		 For liquid pipe Other: installation manual, operation manual



8 Accessories

8-2 Optional accessories

Options

Item	Model		FH(Y)C35	FH(Y)C45	FH(Y)C60	FHYC71	FHYC100	FHYC125
Decoration panel			BYC125KW1					
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							

Control systems

Item	Model		FH(Y)C35	FH(Y)C45	FH(Y)C60	FHYC71	FHYC100	FHYC125
Infrared remote controller	Infrared	H/P	BRC7C512W					
		C/O	BRC7C513W					
	Wired	BRC1C517						
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							

3TW22839-6A



9 Control systems

9-1 Wired remote control

Fig. 1

BRC1C517

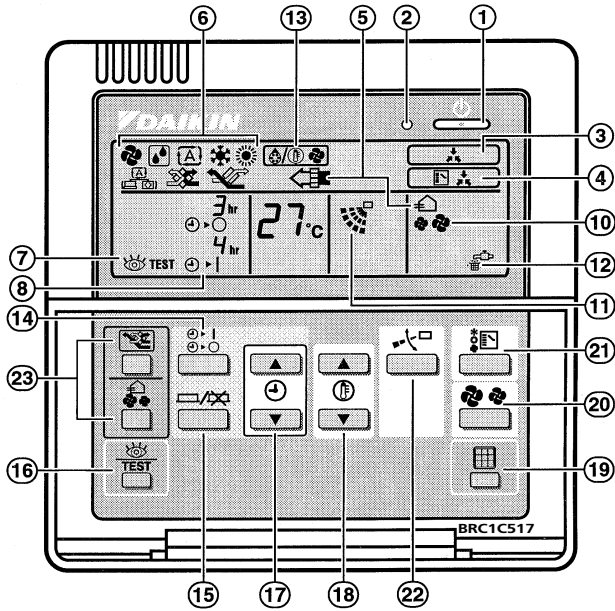
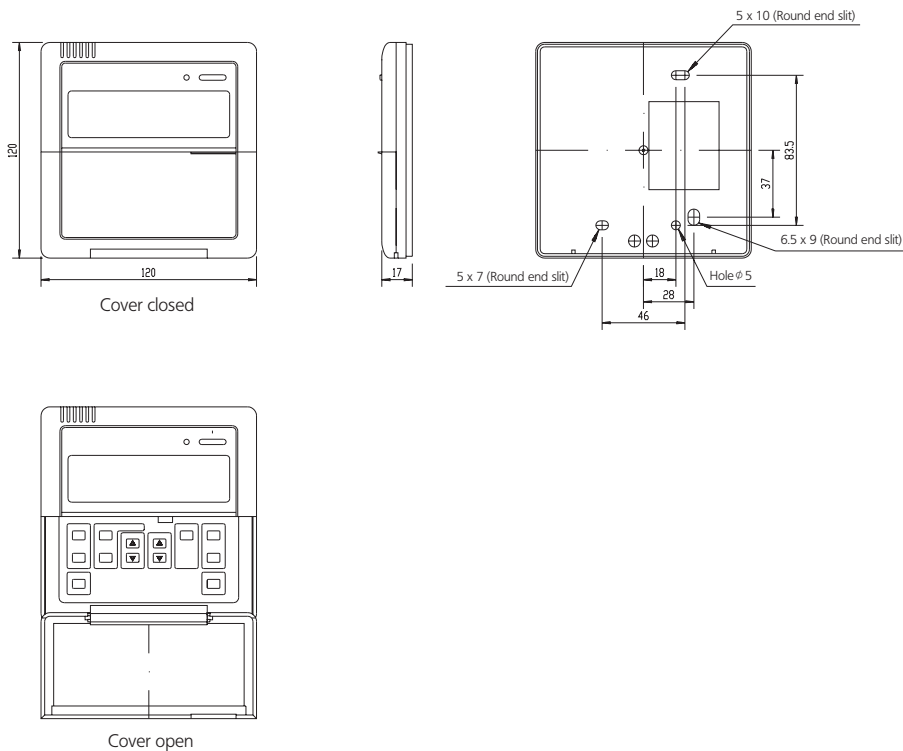
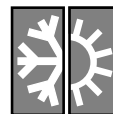


Fig. 2



3TW23651-1A



9 Control systems

9-1 Wired remote control

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

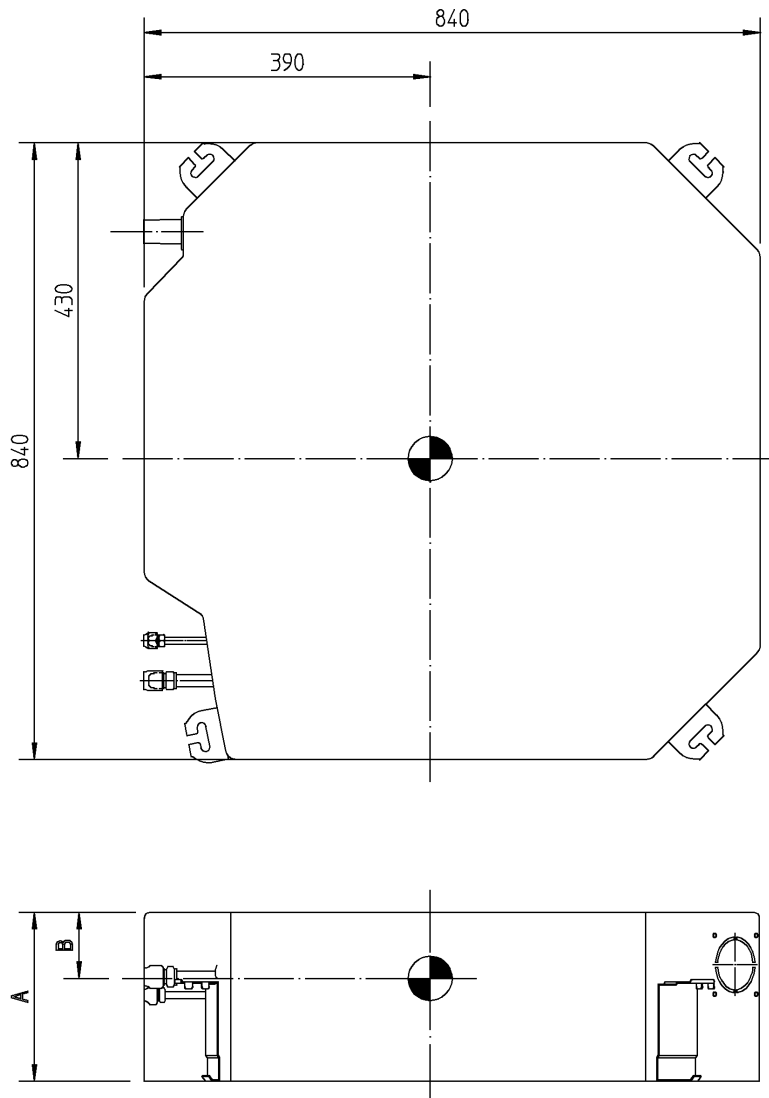
1	ON/OFF BUTTON	13	DISPLAY " " (DEFROST)
	Press the button and the system will start. Press the button again and the system will stop.	14	TIMER MODE START/STOP BUTTON
2	OPERATION LAMP (RED)	15	TIMER ON/OFF BUTTON
	The lamp lights up during operation.	16	INSPECTION/TEST OPERATION BUTTON
3	DISPLAY ' ' (UNDER CENTRALISED CONTROL)	17	PROGRAMMING TIME BUTTON
	When this display shows, the system is UNDER CENTRALISED CONTROL. (This is not a standard specification).		Use this button for programming 'START and/or STOP' time.
4	DISPLAY ' ' (CHANGEOVER UNDER CONTROL)	18	TEMPERATURE SETTING BUTTON
	This display shows when the outdoor unit is individual operation system.		Use this button for SETTING TEMPERATURE.
5	DISPLAY " ", " ", " ", " " (VENTILATION / AIR CLEANING)	19	FILTER SIGN RESET BUTTON
	This display shows that the total heat exchange unit and the air cleaning unit are in operation. These are optional accessories.	20	FAN SPEED CONTROL BUTTON
6	DISPLAY ' ' ' ' ' ' (OPERATION MODE)	21	OPERATION MODE SELECTOR BUTTON
	This display shows the current OPERATION MODE. For cooling only type, ' ' (Auto) and ' ' (Heating) are not installed.		Press this button to select OPERATION MODE.
7	DISPLAY ' ' (INSPECTION/TEST OPERATION)	22	AIR FLOW DIRECTION ADJUST BUTTON
	When the INSPECTION/TEST OPERATION BUTTON is pressed, the display shows the system mode is in.	23	NOT APPLICABLE
8	DISPLAY ' ' (PROGRAMMED TIME)		
	This display shows PROGRAMMED TIME of the system start or stop.		
9	DISPLAY ' ' (SET TEMPERATURE)		
	This display shows the set temperature.		
10	DISPLAY ' ' (FAN SPEED)		
	The display shows the set fan speed.		
11	DISPLAY ' ' (AIR FLOW FLAP)		
12	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



Model	A	B
FH(Y)C(P)35-71B(Z)	230	90
FHYC(P)100-125B	288	120

4TW22839-2

10

11 Safety device settings

Model	Safety devices	35	45	60	71	100	125
FHYCP-B FHYC-BZ	PC board fuse (°C)	-	-	-	-	-	-
	Fan motor thermal fuse (°C)	-	-	-	-	-	-
	Fan motor thermal protector (°C)	OFF: 130±5 ON: 80±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	OFF: 130±5 ON: 80±20
	Drain pump fuse (°C)	145	145	145	145	145	145

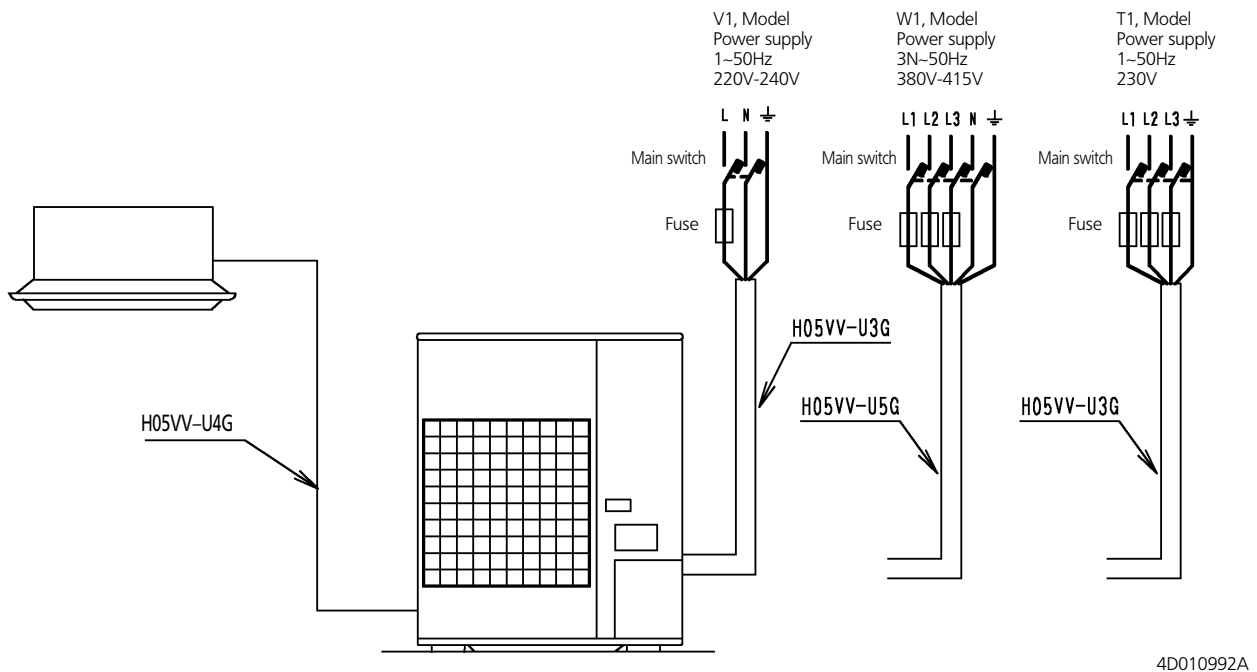
3TW22831-3



12 Installation

NOTES

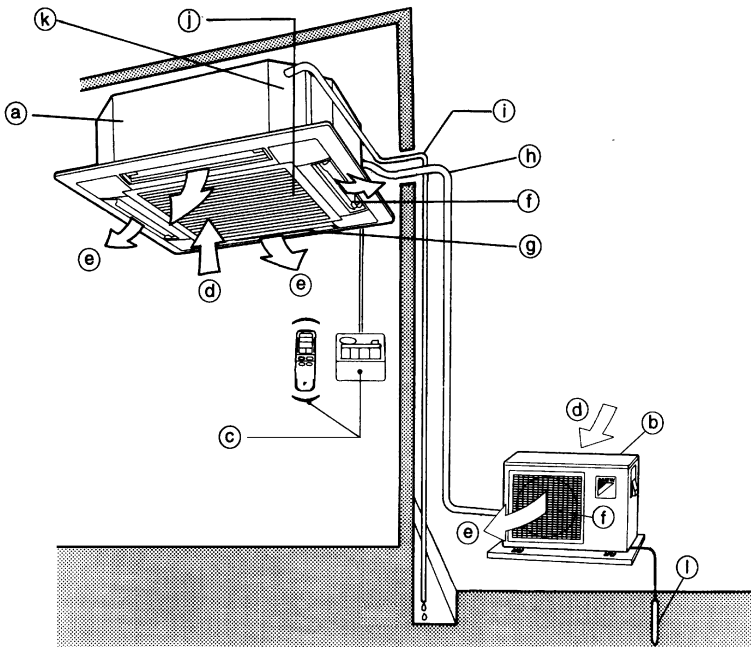
- 1 Line voltage wiring
 Control circuit wiring
- 2 All wiring, components and materials to be produced on the site must comply with the applicable local and national codes.
- 3 Use copper conductors only.
- 4 See wiring diagrams for details.
- 5 Install fuse and mainswitch for safety.
- 6 All field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





12 Installation

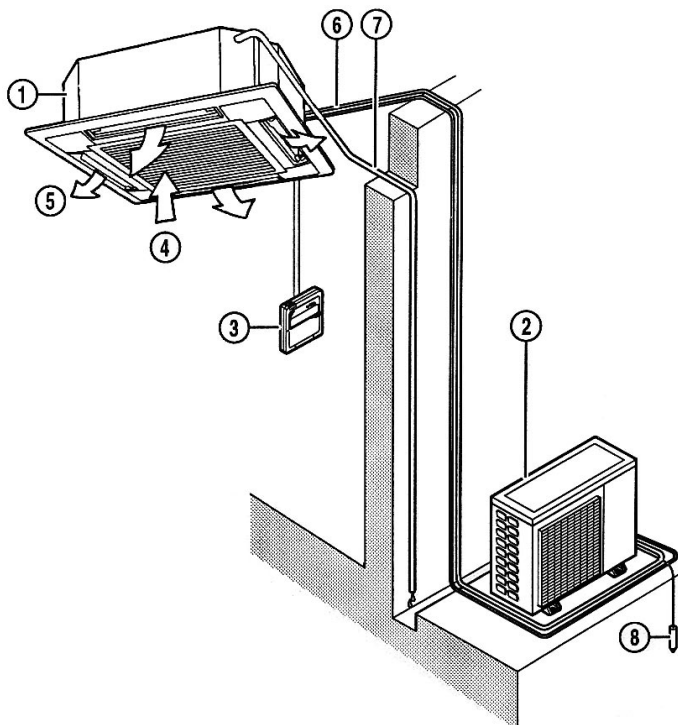
FH(Y)C-BZ



Names and functions of parts

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

FHYCP-B



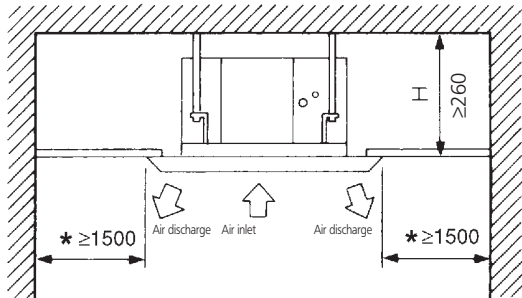
Number	Description
1	Indoor unit
2	Outdoor unit
3	Infrared remote controller
4	Inlet air
5	Discharged air
6	Refrigerant piping, connection electric wire
7	Drain pipe
8	Ground wire Wire to ground from the outdoor unit to prevent electrical shocks.
9	Air filter



12 Installation

FH(Y)C-BZ

Selecting the location



	H
FHYC35-45BZ	≥ 260

FHYCP-B

