



# technical data

**FHYBP-B7**



**Concealed Ceiling 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.

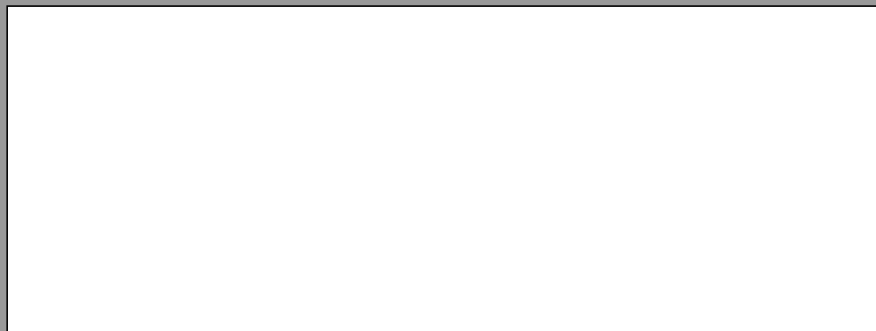


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Specifications are subject to change without prior notice.

## **DAIKIN EUROPE N.V.**

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# TABLE OF CONTENTS

## FHYBP-B7



1	Features .....	208
2	Specifications .....	209
	Nominal capacity, capacity steps and nominal input	
	Technical specifications	
3	Dimensional drawings .....	215
4	Piping diagrams .....	218
5	Wiring diagrams .....	219
6	Sound level .....	220
	Sound level data	
	Sound pressure spectrum	
7	Fan characteristics .....	222
8	Accessories .....	223
	Standard accessories	
	Optional accessories	
9	Control systems .....	225
10	Center of gravity .....	226
11	Safety device settings .....	226
12	Installation .....	227

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





# 1 Features

1

- Lightweight and compact
- Blends unobtrusively with any interior décor
- Extremely quiet in operation both indoors and outdoors
- The position of the individual air discharge grilles can be altered, enabling a uniform temperature, even in irregularly shaped rooms: L-shaped room, U-shaped room, long room
- 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.
- These indoor units can also be connected to the sky air super inverter RZP-D.
- The new 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
  - 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



DRY



AUTO



Heat pump



2 steps



# 2 Specifications



NOMINAL CAPACITY and NOMINAL INPUT					
For indoor units only:					
INDOOR UNITS			FHYBP35BV1	FHYBP45BV1	FHYBP60BV1
NOMINAL INPUT	Cooling	kW	-	-	-
	Heating	kW	-	-	-

For combination indoor + outdoor units (air cooled):					
INDOOR UNITS			FHYBP35BV1	FHYBP45BV1	FHYBP60BV1
OUTDOOR UNITS			-	-	-
CAPACITY (3)	Cooling	kW	Twin/triple/double twin application only: RP-L7/B7		
NOMINAL INPUT	Cooling	kW			
EER					
ENERGY LABEL	Cooling				
ANNUAL ENERGY CONSUMPTION	Cooling	kWh			

For combination indoor + outdoor units (air cooled):					
INDOOR UNITS			FHYBP35BV1	FHYBP45BV1	FHYBP60BV1
OUTDOOR UNITS			-	-	-
CAPACITY (3)	Cooling	kW	Twin/triple/double twin application only: RYP-L7		
	Heating	kW			
NOMINAL INPUT	Cooling	kW			
	Heating	kW			
EER					
COP					
ENERGY LABEL	Cooling				
	Heating				
ANNUAL ENERGY CONSUMPTION	Cooling	kWh			

For combination indoor + outdoor units (air cooled):					
INDOOR UNITS			FHYBP35BV1	FHYBP45BV1	FHYBP60BV1
OUTDOOR UNITS			-	-	-
CAPACITY (3)	Cooling	kW	Twin/triple/double twin application only: RYEP-L7		
	Heating	kW			
NOMINAL INPUT	Cooling	kW			
	Heating	kW			
EER					
COP					
ENERGY LABEL	Cooling				
	Heating				
ANNUAL ENERGY CONSUMPTION	Cooling	kWh			

For combination indoor + outdoor units (air cooled):					
INDOOR UNITS			FHYBP45BV1	FHYBP60BV1	
OUTDOOR UNITS			-	-	
CAPACITY (3)	Cooling	kW	Twin application only: RZP-D		
	Heating	kW			
NOMINAL INPUT	Cooling	kW			
	Heating	kW			
EER					
COP					
ENERGY LABEL	Cooling				
	Heating				
ANNUAL ENERGY CONSUMPTION	Cooling	kWh			

# 2 Specifications



2

NOMINAL CAPACITY and NOMINAL INPUT					
For indoor units only:					
INDOOR UNITS			FHYBP35BV1	FHYBP45BV1	FHYBP60BV1
NOMINAL INPUT	Cooling	kW	-	-	-
	Heating	kW	-	-	-
For indoor units only:					
INDOOR UNITS			FHYBP71BV1	FHYBP100BV1	FHYBP125BV1
NOMINAL INPUT	Cooling	kW	-	-	-
	Heating	kW	-	-	-

For combination indoor + outdoor units (air cooled):					
INDOOR UNITS			FHYBP71BV1	FHYBP100BV1	FHYBP125BV1
OUTDOOR UNITS			RP71L7V1/W1-RP71B7T1	RP100L7V1/W1-RP100B7T1	RP125L7W1-RP125B7T1
CAPACITY (3)	Cooling	kW	10.00	10.00	12.20
NOMINAL INPUT	Cooling	kW	2.66/2.60/2.70	3.78/3.68/3.55	4.62/4.58
	Heating	kW	2.66/2.60/2.70	3.78/3.68/3.55	4.62/4.58
EER					
ENERGY LABEL	Cooling		D/D/D	D/D/C	D/D
ANNUAL ENERGY CONSUMPTION	Cooling	kWh	1,330/1,300/1,350	1,890/1,840/1,775	2,310/2,290

Note: FHYBP35-45-60B7V1: Twin/triple/double twin application only

For combination indoor + outdoor units (air cooled):					
INDOOR UNITS			FHYBP71BV1	FHYBP100BV1	FHYBP125BV1
OUTDOOR UNITS			RYP71L7V1/W1	RYP100L7V1/W1	RYP125L7W1
CAPACITY (3)	Cooling	kW	7.10	10.00	12.20
	Heating	kW	8.00	11.20	14.50
NOMINAL INPUT	Cooling	kW	2.65/2.59	3.78/3.56	4.55
	Heating	kW	2.49/2.49	3.91/3.87	4.52
EER			2.68/2.74	2.65/2.81	2.68
COP			3.21/3.21	2.86/2.89	3.21
ENERGY LABEL	Cooling		D/D	D/C	D
	Heating		C/C	D/D	C
ANNUAL ENERGY CONSUMPTION	Cooling	kWh	1,325/1,295	1,890/1,780	2,275

Note: FHYBP35-45-60B7V1: Twin/triple/double twin application only

For combination indoor + outdoor units (air cooled):					
INDOOR UNITS			FHYBP71BV1	FHYBP100BV1	FHYBP125BV1
OUTDOOR UNITS			RYEP71L7V1/W1	RYEP100L7V1/W1	RYEP125L7W1
CAPACITY (3)	Cooling	kW	7.10	10.00	12.20
	Heating	kW	8.00	11.20	14.50
NOMINAL INPUT	Cooling	kW	2.72/2.64	3.82/3.83	4.55
	Heating	kW	2.66/2.60	3.93/3.99	4.52
EER			2.61/2.69	2.62/2.61	2.68
COP			3.01/3.08	2.85/2.81	3.21
ENERGY LABEL	Cooling		D/D	D/D	D
	Heating		D/D	D/D	C
ANNUAL ENERGY CONSUMPTION	Cooling	kWh	1,360/1,320	1,910/1,915	2,275

Note: FHYBP35-45-60B7V1: Twin/triple/double twin application only

For combination indoor + outdoor units (air cooled):					
INDOOR UNITS			FHYBP71BV1	FHYBP100BV1	FHYBP125BV1
OUTDOOR UNITS			RZP71DV1	RZP100DV1	RZP125DV1
CAPACITY (3)	Cooling	min~nom~max kW	3.29~7.12~7.99	5.00~9.99~11.41	6.00~12.50~14.28
	Heating	min~nom~max kW	3.53~8.02~9.00	5.63~11.20~12.81	6.00~14.01~16.20
NOMINAL INPUT	Cooling	min~nom~max kW	0.61~2.21~2.70	0.90~3.00~3.60	1.14~3.80~4.94
	Heating	min~nom~max kW	0.58~2.19~2.61	1.16~3.50~4.27	1.12~4.52~5.40
EER			3.22	3.33	3.29
COP			3.66	3.20	3.10
ENERGY LABEL	Cooling		A	A	A
	Heating		A	D	D
ANNUAL ENERGY CONSUMPTION	Cooling	kWh	1,105	1,500	1,900

Note: FHYBP45-60B7V1: Twin application only

4

## 2 Specifications



2

TECHNICAL SPECIFICATIONS						
For indoor units only:						
INDOOR UNITS			FHYBP35BV1	FHYBP45BV1	FHYBP60BV1	
DIMENSIONS	Unit	H	mm	300		
		W	mm	700	1,000	
		D	mm	800		
	Decoration panel	H	mm	55		
		W	mm	880	1,100	
		D	mm	500		
WEIGHT	Unit	kg	30	31	41	
	Decoration panel	kg	3.5	4.5		
MATERIAL	Unit	Galvanised steel plate				
COLOUR	Decoration panel	White				
SOUND LEVEL	Sound pressure (cooling/heating) (1)	high	dB(A)	33/33	34/34	
		low	dB(A)	29/29	30/30	
	Sound power		dB(A)	52/52	53/53	60/60
FAN	Air flow rate (cooling/heating)	high	m <sup>3</sup> /min	11.5/11.5	14/14	19/19
		low	m <sup>3</sup> /min	9/9	10/10	14/14
	Speed	steps	2 steps			
	Type	Sirocco fan				
	Qty x motor output	W	1 x 65	1 x 85	1 x 125	
HEAT EXCHANGER	Type	Fin rhombus type, $\phi$ 7 Hi-XA tube				
	Rows x stages x fin pitch	mm	3 x 14 x 1.75			
	Face area	m <sup>2</sup>	0.132	0.221		
AIR FILTER	Resin net (with mold resistant)					
PIPING CONNECTIONS	liquid	mm	$\phi$ 6.35	$\phi$ 9.52		
	gas	mm	$\phi$ 9.52	$\phi$ 12.7	$\phi$ 15.90	
	drain I.D.	mm	$\phi$ 25			
	drain O.D.	mm	$\phi$ 32			
INSULATION MATERIAL	Heat insulation	Both liquid and gas pipes				
	Sound absorbing insulation	Flame and heat resistant foamed polyethylene, regular foamed polyethylene		Foamed polystyrene		
For outdoor units only:	Pair application	See chapters RP-L7/B7, RYP-L7, RYEP-L7, RZP-D				

## 2 Specifications



2

TECHNICAL SPECIFICATIONS							
For indoor units only:							
INDOOR UNITS			FHYBP71BV1	FHYBP100BV1	FHYBP125BV1		
DIMENSIONS	Unit	H	mm	300			
		W	mm	1,000	1,400		
		D	mm	800			
	Decoration panel	H	mm	55			
		W	mm	1,000	1,400		
		D	mm	500			
WEIGHT	Unit		kg	41	51	52	
	Decoration panel		kg	4.5	6.5		
MATERIAL	Unit	Galvanised steel plate					
COLOUR	Decoration panel	White					
SOUND LEVEL	Sound pressure (cooling/heating) (1)	high	dB(A)	34/34	36/36	38/38	
		low	dB(A)	30/30	31/31	32/32	
	Sound power		dB(A)	60/60	62/62	63/63	
FAN	Air flow rate (cooling/heating)	high	m <sup>3</sup> /min	19/19	27/27	35/35	
		low	m <sup>3</sup> /min	14/14	20/20	24/24	
	Speed	steps	2 steps				
	Type	Sirocco fan					
	Qty x motor output		W	1 x 125	1 x 135	1 x 225	
Drive	Direct drive						
HEAT EXCHANGER	Type	Fin rhombus type, $\phi$ 7 Hi-XA tube					
	Rows x stages x fin pitch		mm	3 x 14 x 1.75			
	Face area		m <sup>2</sup>	0.221	0.338		
AIR FILTER	Resin net (with mold resistant)						
PIPING CONNECTIONS	liquid	mm	$\phi$ 9.52				
		gas	mm	$\phi$ 15.90	$\phi$ 19.10		
	drain I.D.	mm	$\phi$ 25				
		drain O.D.	mm	$\phi$ 32			
INSULATION MATERIAL	Heat insulation	Both liquid and gas pipes					
	Sound absorbing insulation	Foamed polyethylene					
For outdoor units only:	Pair application	See chapters RP-L7/B7, RYP-L7, RYEP-L7, RZP-D					



## 2 Specifications

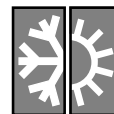


2

ELECTRICAL SPECIFICATIONS						
<b>For indoor units only:</b>				<b>FHYBP35BV1</b>	<b>FHYBP45BV1</b>	<b>FHYBP60BV1</b>
CURRENT	Nominal running current	cooling/heating	A	See chapters RP-L7/B7, RYP-L7, RYEP-L7, RZP-D		
	Max. running current	cooling/heating	A	See chapters RP-L7/B7, RYP-L7, RYEP-L7, RZP-D		
<b>For combination indoor units + outdoor units:</b>				<b>FHYBP35BV1</b>	<b>FHYBP45BV1</b>	<b>FHYBP60BV1</b>
				-	-	-
CURRENT	Nominal running current	cooling	A	Twin/triple/double twin application only: RP-L7/B7		
	Maximum running current	cooling	A			
	Starting current	cooling	A			
<b>For combination indoor units + outdoor units:</b>				<b>FHYBP35BV1</b>	<b>FHYBP45BV1</b>	<b>FHYBP60BV1</b>
				-	-	-
CURRENT	Nominal running current	cooling/heating	A	Twin/triple/double twin application only: RYP-L7		
	Maximum running current	cooling/heating	A			
	Starting current	cooling/heating	A			
<b>For combination indoor units + outdoor units:</b>				<b>FHYBP35BV1</b>	<b>FHYBP45BV1</b>	<b>FHYBP60BV1</b>
				-	-	-
CURRENT	Nominal running current	cooling/heating	A	Twin/triple/double twin application only: RYEP-L7		
	Maximum running current	cooling/heating	A			
	Starting current	cooling/heating	A			
<b>For combination indoor units + outdoor units:</b>				<b>FHYBP35BV1</b>	<b>FHYBP45BV1</b>	<b>FHYBP60BV1</b>
				-	-	-
CURRENT	Nominal running current	cooling/heating	A	Twin/triple/double twin application only: RYEP-L7		
	Maximum running current	cooling/heating	A			
	Starting current	cooling/heating	A			
<b>For combination indoor units + outdoor units:</b>				<b>FHYBP45BV1</b>	<b>FHYBP60BV1</b>	
				-	-	
CURRENT	Nominal running current	cooling/heating	A	Twin application only: RZP-D		
	Maximum running current	cooling/heating	A			
	Starting current	cooling/heating	A			
<b>For indoor units only:</b>				<b>FHYBP35BV1</b>	<b>FHYBP45BV1</b>	<b>FHYBP60BV1</b>
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°CWB \* outdoor temperature 35°CDB \* refrigerant piping length: 7.5m \* level difference: 0m.
- 2 Nominal heating capacities are based on: indoor temperature: 20°CDB \* outdoor temperature: 7°CDB/6°CWB \* refrigerant piping length: 7.5m \* level difference 0m.
- 3 Capacities are net, including a deduction for cooling (an addition for heating) for indoor fan motor heat.
- 4 The sound pressure level is measured at 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.
- 5 The sound power level is an absolute value indicating the "power" which a sound source generates.
- 6 Energy label: scale from A (most efficient) to G (less efficient).
- 7 Annual energy consumption: based on average use of 500 running hours per year at full load (= nominal conditions).



# 2 Specifications

2

ELECTRICAL SPECIFICATIONS				
For indoor units only:				
		FHYBP35BV1	FHYBP45BV1	FHYBP60BV1
CURRENT	Nominal running current	cooling/heating	A	
	Max. running current	cooling/heating	A	
See chapters RP-L7/B7, RYP-L7, RYEP-L7, RZP-D				
See chapters RP-L7/B7, RYP-L7, RYEP-L7, RZP-D				
For indoor units only:				
		FHYBP71BV1	FHYBP100BV1	FHYBP125BV1
CURRENT	Nominal running current	cooling/heating	A	
	Max. running current	cooling/heating	A	
See chapters RP-L7/B7, RYP-L7, RYEP-L7, RZP-D				
See chapters RP-L7/B7, RYP-L7, RYEP-L7, RZP-D				

For combination indoor + outdoor units (air cooled):				
		FHYBP71BV1	FHYBP100BV1	FHYBP125BV1
		RP71L7V1/W1-RP71B7T1	RP100L7V1/W1-RP100B7T1	RP125L7W1-RP125B7T1
CURRENT	Nominal running current	cooling	A	
	Maximum running current	cooling	A	
	Starting current	cooling	A	
See chapters RP-L7/B7				

Note: FHYBP35-45-60B7V1: Twin/triple/double twin application only

For combination indoor + outdoor units (air cooled):				
		FHYBP71BV1	FHYBP100BV1	FHYBP125BV1
		RYP71L7V1/W1	RYP100L7V1/W1	RYP125L7W1
CURRENT	Nominal running current	cooling/heating	A	
	Maximum running current	cooling/heating	A	
	Starting current	cooling/heating	A	
See chapters RYP-L7				

Note: FHYBP35-45-60B7V1: Twin/triple/double twin application only

For combination indoor + outdoor units (air cooled):				
		FHYBP35BV1	FHYBP45BV1	FHYBP60BV1
		RYEP71L7V1/W1	RYEP100L7V1/W1	RYEP125L7W1
CURRENT	Nominal running current	cooling/heating	A	
	Maximum running current	cooling/heating	A	
	Starting current	cooling/heating	A	
See chapters RYEP-L7				

Note: FHYBP35-45-60B7V1: Twin/triple/double twin application only

For combination indoor + outdoor units (air cooled):				
		FHYBP71BV1	FHYBP100BV1	FHYBP125BV1
		RZP71DV1	RZP100DV1	RZP125DV1
CURRENT	Nominal running current	cooling/heating	A	
	Maximum running current	cooling/heating	A	
	Starting current	cooling/heating	A	
See chapters RZP-D				

Note: FHYBP45-60B7V1: Twin application only

For indoor units only:				
		FHYBP35BV1	FHYBP45BV1	FHYBP60BV1
POWER SUPPLY		V1	V1	V1
NOMINAL DISTRIBUTION SYSTEM VOLTAGE	Phase	1~	1~	1~
	Frequency	Hz	50	50
	Voltage	V	230	230

For indoor units only:				
		FHYBP71BV1	FHYBP100BV1	FHYBP125BV1
POWER SUPPLY		V1	V1	V1
NOMINAL DISTRIBUTION SYSTEM VOLTAGE	Phase	1~	1~	1~
	Frequency	Hz	50	50
	Voltage	V	230	230

3TW23101-1 3TW23111-1A  
3TW23121-1 3TW23131-1  
3TW23141-1 3TW23151-1

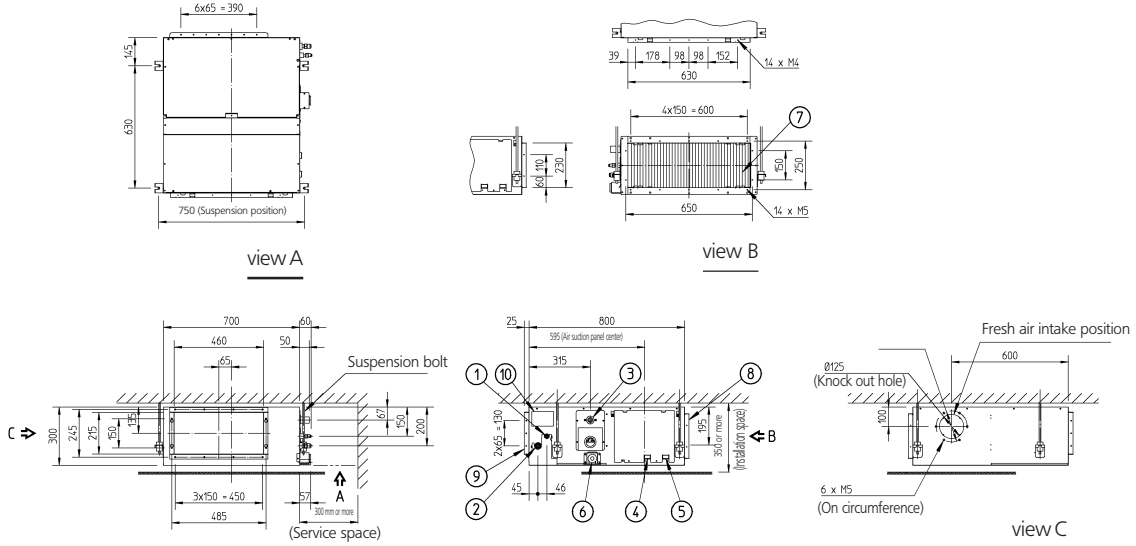
## NOTES

- 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 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.
- Energy label: scale from A (most efficient) to G (less efficient).
- Annual energy consumption: based on average use of 500 running hours per year at full load (= nominal conditions).



### 3 Dimensional drawings

#### FHYBP35-45B7



**Notes:**  
 1. Refer to 'outlook drawing for installing optional accessories' when installing optional accessories.  
 2. The required ceiling depth varies according to configuration of the specific system.  
 3. For maintenance of the air filter, it is necessary to provide a service access panel according to the installation method. (Refer to the 'filter installation method' drawing)

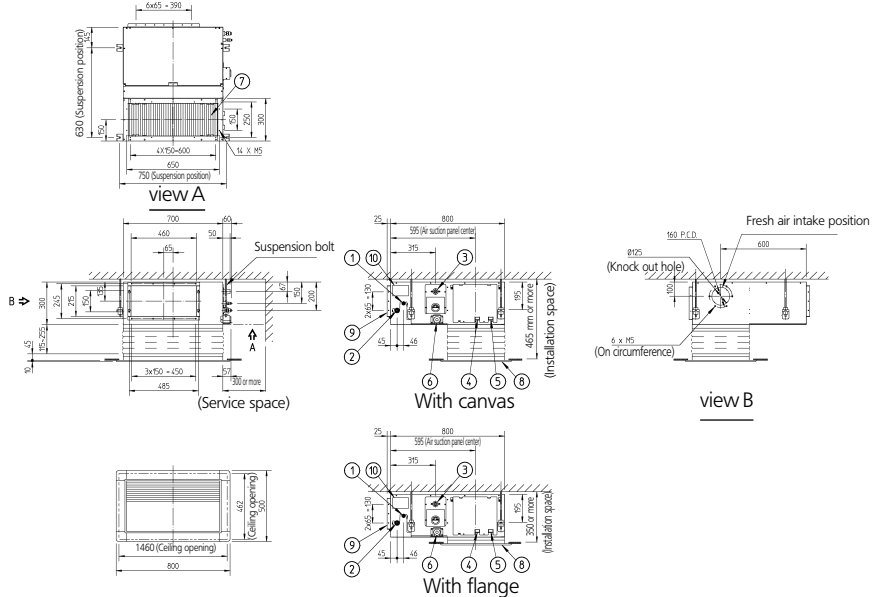
- 1 Liquid pipe connection  $\phi$  A Flare connection
- 2 Gas pipe connection  $\phi$  B Flare connection
- 3 Drain pipe connection VP25 (I.D.  $\phi$  32, I.D.  $\phi$  25)
- 4 Remote control wiring connection
- 5 Power supply connection
- 6 Drain hole (I.D.  $\phi$  32, I.D.  $\phi$  25)
- 7 Air filter
- 8 Air suction side
- 9 Air discharge side
- 10 Name plate

Model	A	B
FHYBP35	6.35	12.70
FHYBP45	6.35	15.90

3TW22224-1C

#### FHYBP35-45B7

#### With canvas

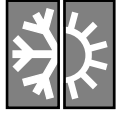


**Notes:**  
 1. Refer to 'outlook drawing for installing optional accessories' when installing optional accessories.  
 2. Optional decoration panel: BYBS45DJW1 (Light ivory white 10Y9/0.5)  
 3. The required ceiling depth varies according to configuration of the specific system

- 1 Liquid pipe connection  $\phi$  A Flare connection
- 2 Gas pipe connection  $\phi$  B Flare connection
- 3 Drain pipe connection VP25 (I.D.  $\phi$  32, I.D.  $\phi$  25)
- 4 Remote control wiring connection
- 5 Power supply connection
- 6 Drain hole VP25 (I.D.  $\phi$  32, I.D.  $\phi$  25)
- 7 Air filter
- 8 Air suction side
- 9 Air discharge side
- 10 Name plate

Model	A	B
FHYBP35	6.35	12.70
FHYBP45	6.35	12.70

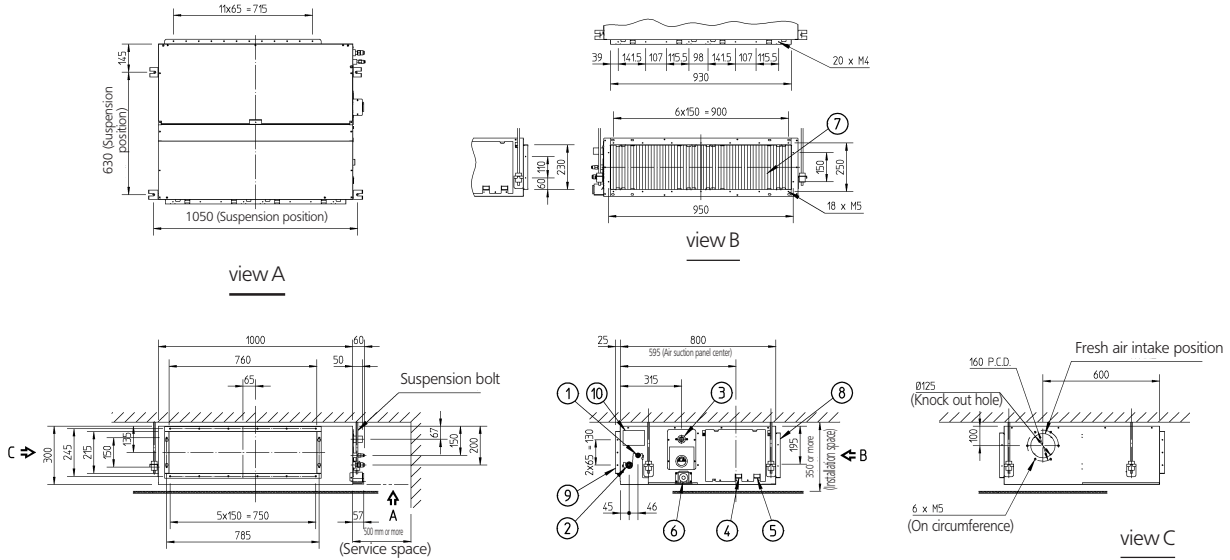
3TW22224-2C



# 3 Dimensional drawings

3

## FHYBP60-71B7



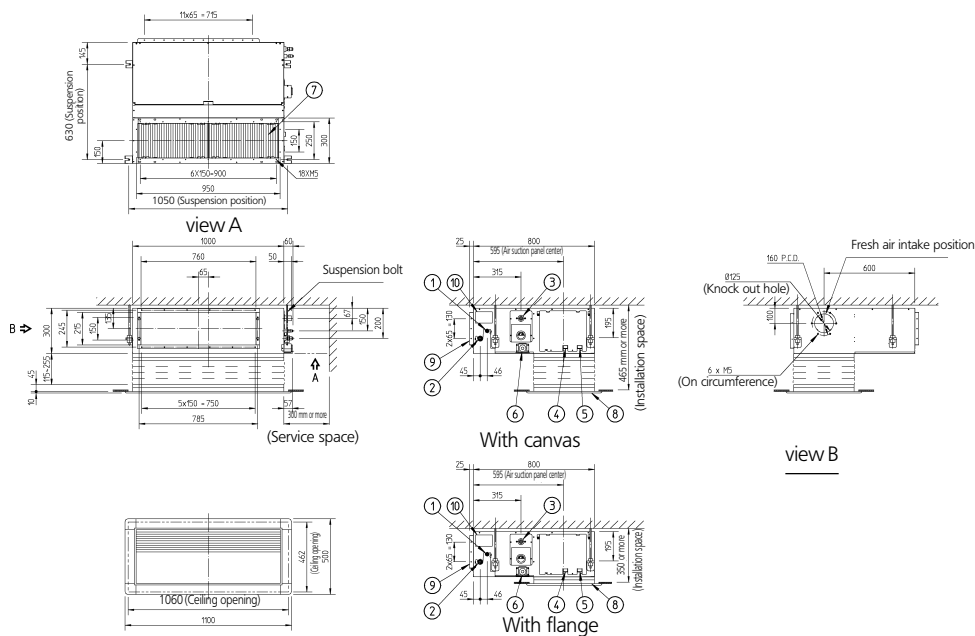
**Notes:**  
 1. Refer to 'outlook drawing for installing optional accessories' when installing optional accessories.  
 2. The required ceiling depth varies according to configuration of the specific system.  
 3. For maintenance of the air filter, it is necessary to provide a service access panel according to the installation method. (Refer to the 'filter installation method' drawing)

- 1 Liquid pipe connection  $\phi$  A Flare connection
- 2 Gas pipe connection  $\phi$  B Flare connection
- 3 Drain pipe connection VP25 (I.D.  $\phi$  32, I.D.  $\phi$  25)
- 4 Remote control wiring connection
- 5 Power supply connection
- 6 Drain hole (I.D.  $\phi$  32, I.D.  $\phi$  25)
- 7 Air filter
- 8 Air suction side
- 9 Air discharge side
- 10 Name plate

Model	A	B
FHYBP60	9.52	15.90
FHYBP71	9.52	15.90

3TW22244-1C

## FHYBP60-71B7 With canvas



**Notes:**  
 1. Refer to 'outlook drawing for installing optional accessories' when installing optional accessories.  
 2. Optional decoration panel: BYBS12SDJW1 (Light ivory white 10Y9/0.5)  
 3. The required ceiling depth varies according to configuration of the specific system

- 1 Liquid pipe connection  $\phi$  A Flare connection
- 2 Gas pipe connection  $\phi$  B Flare connection
- 3 Drain pipe connection VP25 (I.D.  $\phi$  32, I.D.  $\phi$  25)
- 4 Remote control wiring connection
- 5 Power supply connection
- 6 Drain hole VP25 (I.D.  $\phi$  32, I.D.  $\phi$  25)
- 7 Air filter
- 8 Air suction side
- 9 Air discharge side
- 10 Name plate

Model	A	B
FHYBP60	9.52	15.90
FHYBP71	9.52	15.90

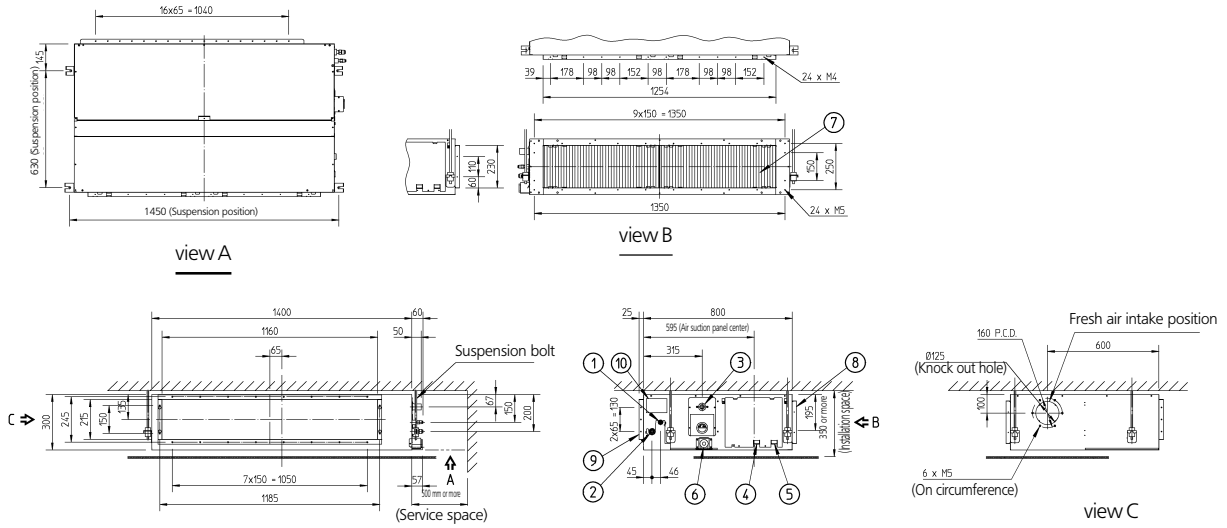
3TW22244-2C



# 3 Dimensional drawings

3

## FHYBP100-125B7



**Notes:**

1. Refer to 'outlook drawing for installing optional accessories' when installing optional accessories.
2. The required ceiling depth varies according to configuration of the specific system.
3. For maintenance of the air filter, it is necessary to provide a service access panel according to the installation method. (Refer to the 'filter installation method' drawing)

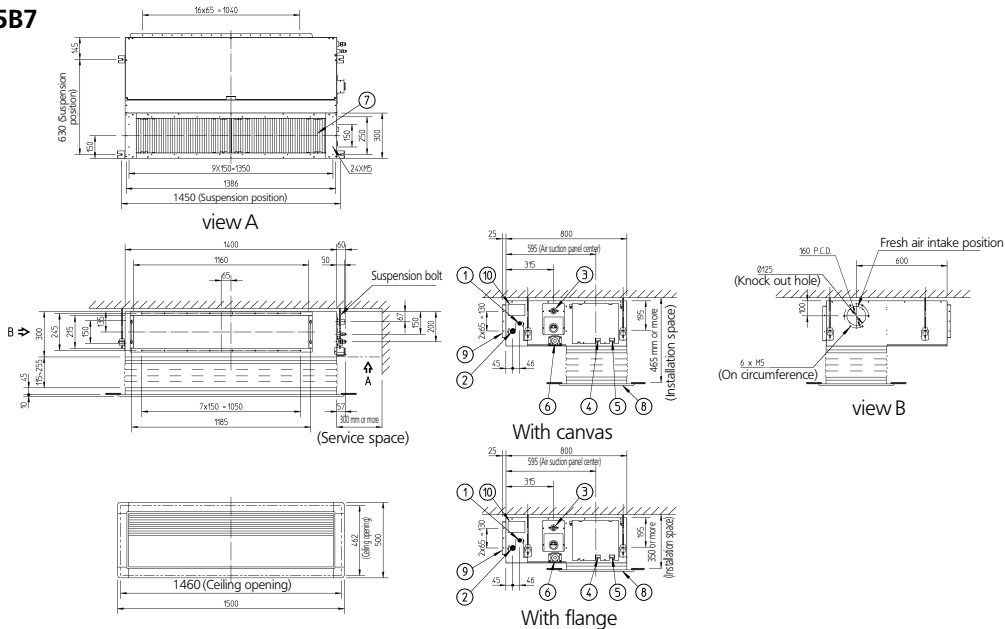
- 1 Liquid pipe connection  $\phi$  A Flare connection
- 2 Gas pipe connection  $\phi$  B Flare connection
- 3 Drain pipe connection VP25 (I.D.  $\phi$  32, I.D.  $\phi$  25)
- 4 Remote control wiring connection
- 5 Power supply connection
- 6 Drain hole (I.D.  $\phi$  32, I.D.  $\phi$  25)
- 7 Air filter
- 8 Air suction side
- 9 Air discharge side
- 10 Name plate

Model	A	B
FHYBP100	9.52	19.10
FHYBP125	9.52	19.10

3TW22254-1B

## FHYBP100-125B7

### With canvas



**Notes:**

1. Refer to 'outlook drawing for installing optional accessories' when installing optional accessories.
2. Optional decoration panel: BYB125DJW1
3. The required ceiling depth varies according to configuration of the specific system

- 1 Liquid pipe connection  $\phi$  A Flare connection
- 2 Gas pipe connection  $\phi$  B Flare connection
- 3 Drain pipe connection VP25 (I.D.  $\phi$  32, I.D.  $\phi$  25)
- 4 Remote control wiring connection
- 5 Power supply connection
- 6 Drain hole VP25 (I.D.  $\phi$  32, I.D.  $\phi$  25)
- 7 Air filter
- 8 Air suction side
- 9 Air discharge side
- 10 Name plate

Model	A	B
FHYBP100	9.52	19.10
FHYBP125	9.52	19.10

3TW22254-2B



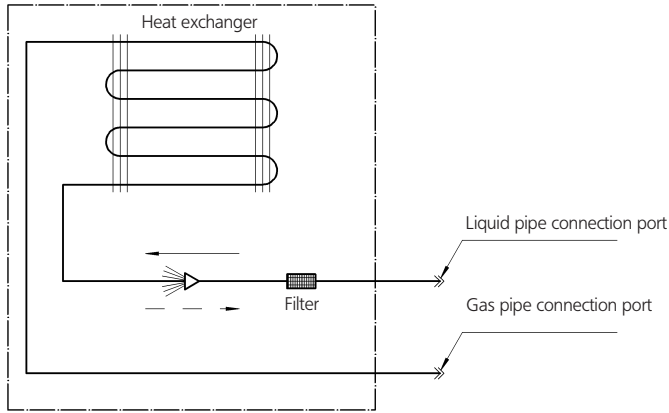
# 4 Piping diagrams

4

FHYBP-B7

Refrigerant flow

Cooling ———→  
Heating - - - ->

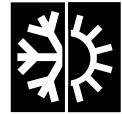


Refrigerant pipe connection port diameters

Model	Gas	Liquid
FHYBP35B	φ 12.70	φ 6.35
FHYBP45B	φ 15.90	φ 6.35
FHYBP60B, FHYBP71B	φ 15.90	φ 9.52
FHYBP100B, FHYBP125B	φ 19.10	φ 9.52

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

3TW20435-1H



# 5 Wiring diagrams

5

## FHYBP35-45-60-71B7

**Notes**

- When using the central remote control, see manual for connection to the unit.
- The infrared remote control model varies according to the combination system.  
See technical data and catalogs before connecting.

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

**Colours**  
 BLK: Black/ PPL: purple/ BLU: Blue/  
 WHT: White/ RED: Red/ GRN: green/  
 GRY: grey/ YLW:Yellow

33H	Floot switch	RyP	Magnetic relay (drain pump)	X35A	Connector (group control adapter)	H1P	Light emitting diode (service monitor red)
A1P	Printed circuit board	SS1	Selecter switch (emergency)	X40A	Connector (remote ON/OFF, forced off, only SKY-AIR Pseries)	LCD	Liquid crystal display (LCD)
T1R	Power supply transformer (transformer 220-240V/ 218V)	X1M	Terminal strip	Wired remote control		SS1	Selecter switch (main/sub)
C1R	Capacitor (fan)	X2M	Terminal strip	BS1	On/Off button		
F1T	Thermal fuse (152°C (M1F embedded))	RC	Signal receiver circuit	BS2	Timer mode start/stop button		
H1P/H2P	Light emitting diode (service monitor green)	TC	Signal transmission circuit	BS3,BS8	Programming time button		
M1F	Motor (fan)	Adapter for wiring		BS4,BS9	Temperature setting button		
M1P	Motor (drain pump)	RyC/RyF	Magnetic relay	BS6	Operation mode selector button		
R1T	Thermistor (air)	Connector for optional parts		BS7	Timer on/off button		
R2T	Thermistor (coil)	X30A	Connector (interface adapter for sky air series)	BS11	Fan speed control button		
RyF1-4	Magnetic relay (fan)	X33A	Connector (adapter for wiring)	BS12	Inspection/test operation button		
				BS14	Filter sign reset button		

2TW23106-1B

## FHYBP100-125B7

**Notes**

- When using the central remote control, see manual for connection to the unit.
- The infrared remote control model varies according to the combination system.  
See technical data and catalogs before connecting.

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

**Colours**  
 BLK: Black/ PPL: purple/ BLU: Blue/  
 WHT: White/ RED: Red/ GRN: green/  
 GRY: grey/ YLW:Yellow

33H	Floot switch	RyP	Magnetic relay (drain pump)	X35A	Connector (group control adapter)	H1P	Light emitting diode (service monitor red)
A1P	Printed circuit board	SS1	Selecter switch (emergency)	X40A	Connector (remote ON/OFF, forced off, only SKY-AIR Pseries)	LCD	Liquid crystal display (LCD)
T1R	Power supply transformer (transformer 220-240V/ 218V)	X1M	Terminal strip	Wired remote control		SS1	Selecter switch (main/sub)
C1R	Capacitor (fan)	X2M	Terminal strip	BS1	On/Off button		
F1T	Thermal fuse (152°C (M1F embedded))	RC	Signal receiver circuit	BS2	Timer mode start/stop button		
H1P/H2P	Light emitting diode (service monitor green)	TC	Signal transmission circuit	BS3,BS8	Programming time button		
M1F	Motor (fan)	Adapter for wiring		BS4,BS9	Temperature setting button		
M1P	Motor (drain pump)	RyC/RyF	Magnetic relay	BS6	Operation mode selector button		
R1T	Thermistor (air)	Connector for optional parts		BS7	Timer on/off button		
R2T	Thermistor (coil)	X30A	Connector (interface adapter for sky air series)	BS11	Fan speed control button		
RyF1-4	Magnetic relay (fan)	X33A	Connector (adapter for wiring)	BS12	Inspection/test operation button		
				BS14	Filter sign reset button		

2TW23146-1C



# 6 Sound level

## 6-1 Sound level data

### 6 Cooling only

6-1

Model	Sound pressure level		Measuring location	Sound power level (H) (cooling)
	230V			
	50Hz			
	H	L		
FHYBP71B7	34	30		60
FHYBP100B7	36	31		62
FHYBP125B7	38	32		63

### Heat pump

Model	Sound pressure level		Measuring location	Sound power level (H) (cooling/heating)
	230V			
	50Hz			
	H (cooling/heating)	L (cooling/heating)		
FHYBP35B7	33/33	29/29		52/52
FHYBP45B7	33/33	29/29		53/53
FHYBP60B7	34/34	30/30		60/60
FHYBP71B7	34/34	30/30		60/60
FHYBP100B7	36/36	31/31		62/62
FHYBP125B7	38/38	32/32		63/63

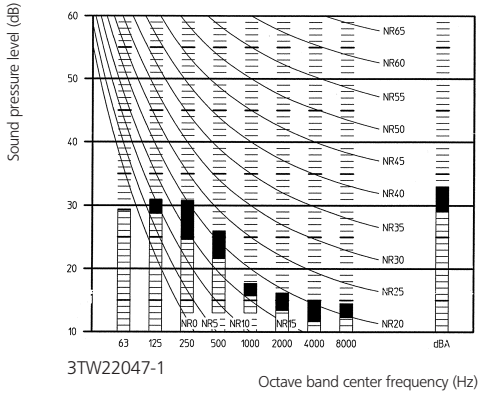




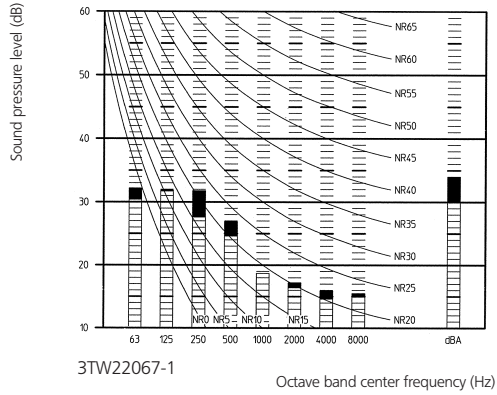
# 6 Sound level

## 6-2 Sound pressure spectrum

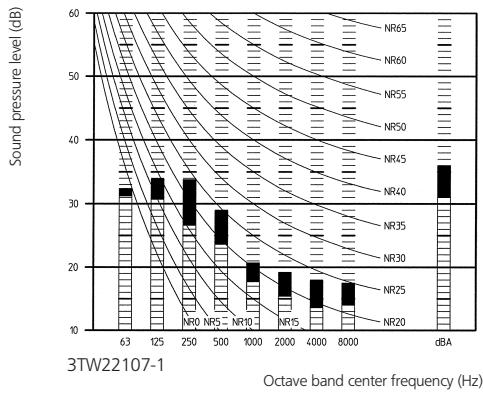
FHYBP35,45B7



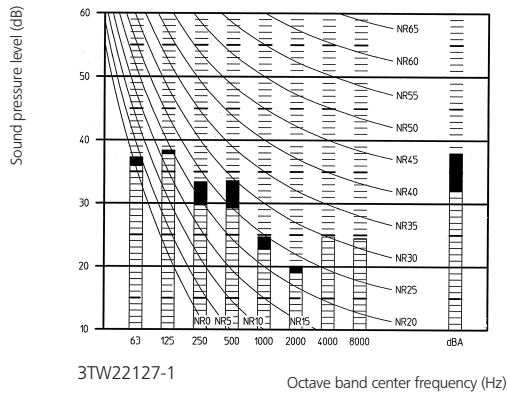
FHYBP60,71B7



FHYBP100B7



FHYBP125B



### NOTES

- 1 Data is valid at free field condition
- 2 Operation sound levels are valid at nominal operation condition 230V
- 3 dBA = A-weighted sound pressure level (A-scale according to IEC)
- 4 Reference acoustic pressure 0dB = 20μPa

### Legend

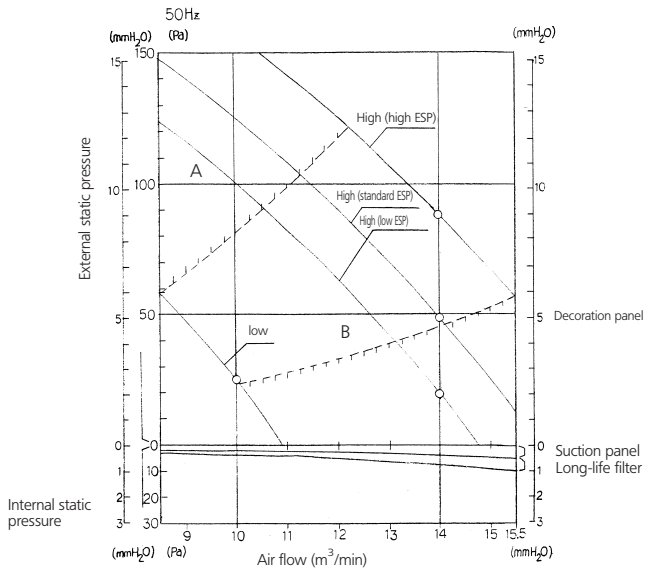
- High speed
- Low speed

# 7 Fan characteristics



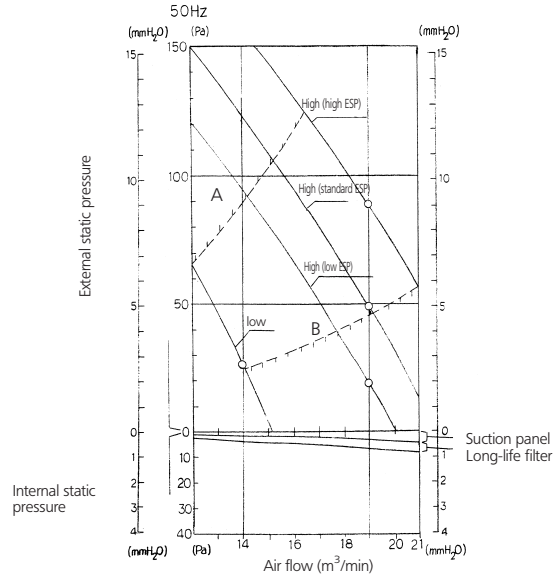
## 7 Cooling only

FHYBP35-45B7



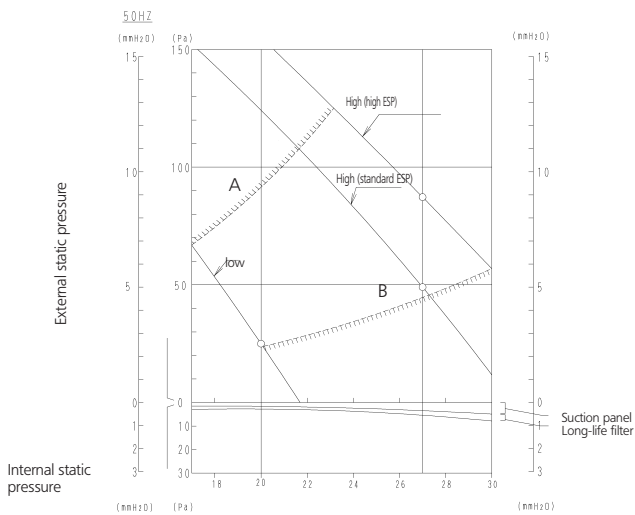
DU220-412A

FHYBP60-71B7



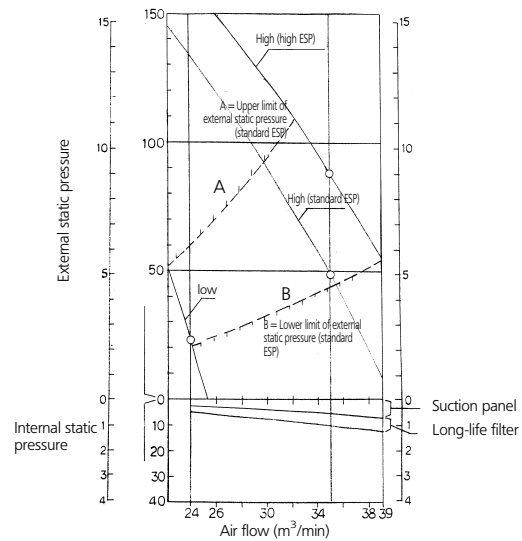
DU220-413A

FHYBP100B7



DU220-414C

FHYBP125B7



DU220-415A

### NOTES

1. The wired remote control can be used to switch between 'high' and 'low'
2. The air flow is set to 'standard' before leaving the factory.  
It is possible to switch between 'standard EPS' and 'high EPS' by programming on the remote control.
3. The internal static pressure indicates the characteristics of the fan when a suction panel (optional accessory) and a canvas for the suction panel (optional accessory) are incorporated into the main unit (with a long-life filter).

A = Upper limit of external static pressure (high ESP)  
B = Lower limit of external static pressure (high ESP)



## 8 Accessories

### 8-1 Standard accessories

Operation manual, installation manual, drain hose, clamp material, insulation for piping, sealing pads, clamps, screws, washers.

8

8-1

### 8-2 Optional accessories

Nr	Item	FHYBP35,45	FHYBP60,71	FHYBP100,125	
1	Panel related	Decoration panel	BYBS45DJW18	BYBS71DJW18	BYBS125DJW18
		Service access panel	KTBJ25K56W	KTBJ25K80W	KTBJ25K160W
2	Filter related	High-efficiency filter 65% (colorimetric method) *1	KAFJ252L56	KAFJ252L80	KAFJ252L160
		High-efficiency filter 90% (colorimetric method) *1	KAFJ253L56	KAFJ253L80	KAFJ253L160
		Filter chamber for bottom suction	KAJ25L56D	KAJ25L80D	KAJ25L160D
		Filter chamber for rear suction	KAJ25L56B	KAJ25L80B	KAJ25L160B
3	Air inlet and air discharge outlet related	Air suction canvas	KSAJ25K56	KSAJ25K80	KSA-25K160
		Blind board/screening door	KBBJ25K56	KBBJ25K80	KBBJ25K160
		Air discharge adapter for round duct	KDAJ25K56	KDAJ25K71	KDAJ25K140

Nr	Item	Type	FHYBP35,45	FHYBP60,71	FHYBP100,125
1	Remote control	Wired type		BRC1D517	
2	Central remote control			DCS302B51	
3	unified ON/OFF control			DCS301B51	
4	Schedule timer			DST301B51	
5	Adapter for wiring (interlock for fresh air intake fan)			KRP1B54	
6	Wiring adaptor for electrical appendices			KRP4A51	
7	Interface adapter for Sky Air series			DTA102A52	
8	Remote ON/OFF, forced OFF			EKRORO	
9	Option PCB for external electrical heater, humidifier and/or hour meter *2			EKRP1B2	

3TW22049-6E

\*1 If installing a high efficiency filter on the unit, an assembly chamber for either bottom or rear suction is required.

\*2 Electrical heater, humidifier and hour meter are field supply. These parts should not be installed inside the equipment. (Refer to installation manual EKRP1B2).



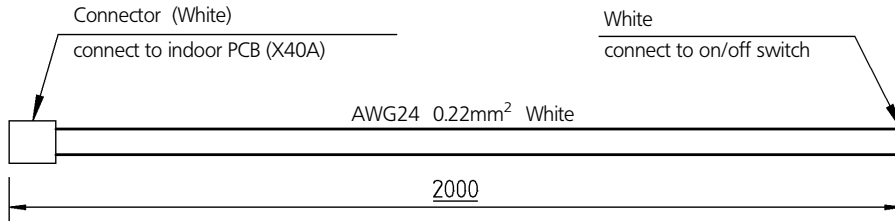
# 8 Accessories

## 8-2 Optional accessories

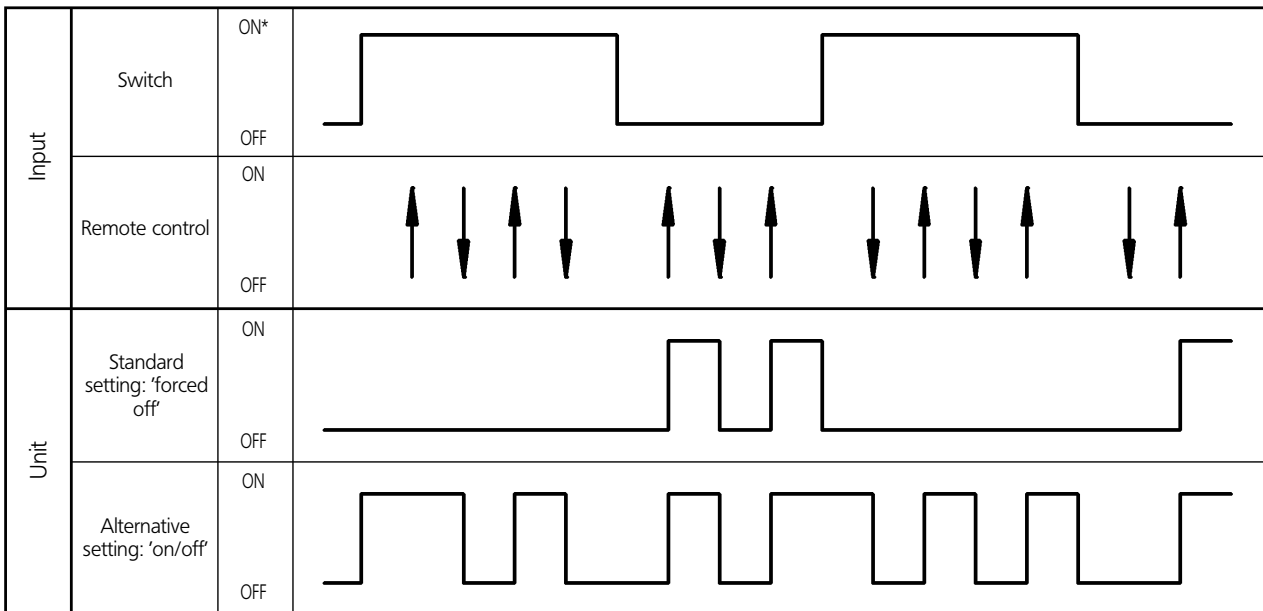
### 8 Specifications EKRORO

8-2

Wire specifications



Operating method



\* Input 'ON' = closed contact.

Forced off	On/off operation
Input 'on' stops operation + disables control	Input off→on: starts operation, remote control is still enabled.
Input 'off' enables control	Input on→off: stops operation, remote control is still enabled.

Selection of 'FORCED OFF' and 'ON/OFF' operation

Setting	Mode NO	First code NO	Second code NO
Forced off	12 (22)	1	01
On/off operation			02

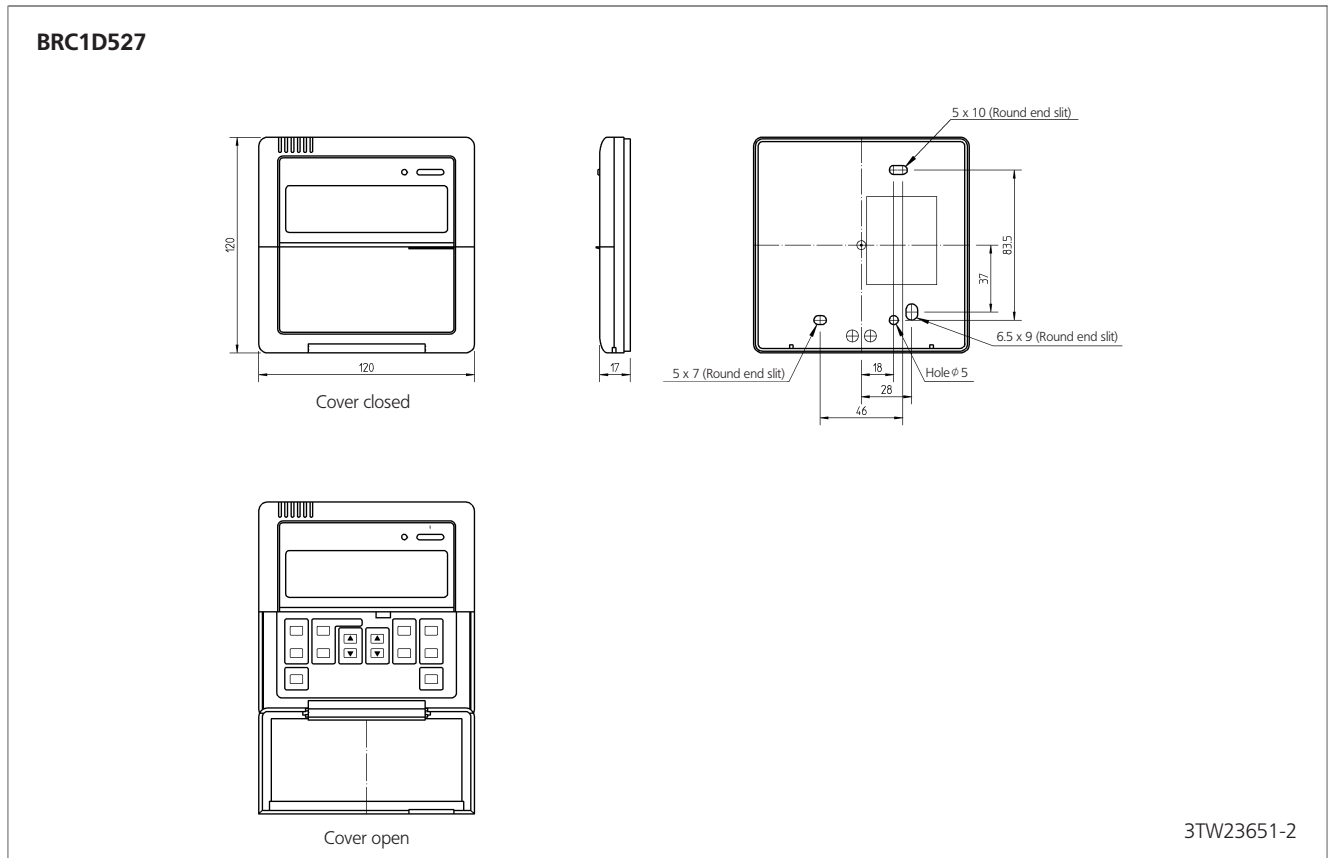
4TW23941-1



# 9 Control systems

## 9-1 Wired remote control

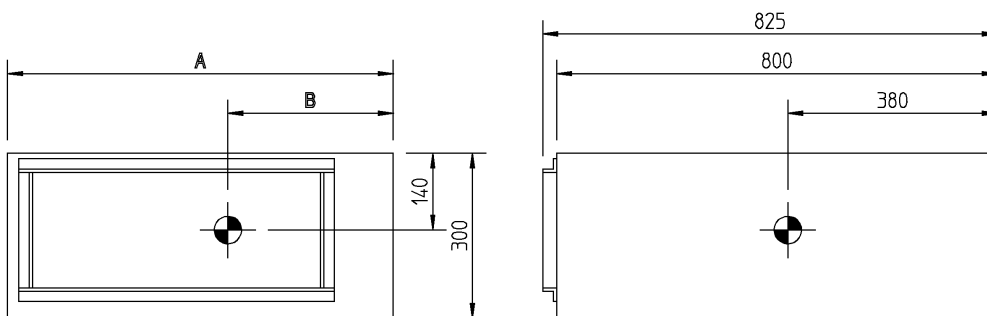
9  
9-1





# 10 Center of gravity

10



Model	A	B
FHYBP35,45	700	300
FHYBP60,71	1,000	460
FHYBP71	1,000	460
FHYBP100,125	1,400	640

4TW20169-2E

# 11 Safety device settings

Model	Safety devices	35	45	60	71	100	125
FHYBP-B	Fuse	—	—	—	—	—	—
	Fan motor thermal fuse (°C)	152±2	152±2	152±2	152±2	152±2	152±2
	Fan motor thermal protector (°C)	—	—	—	—	—	—

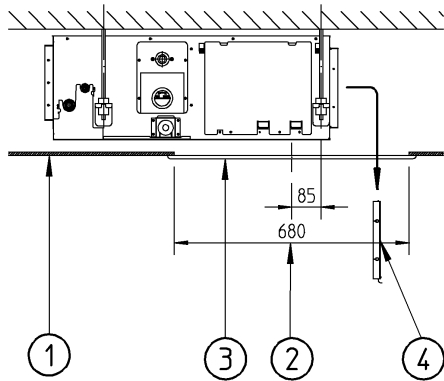
3TW21009-2D



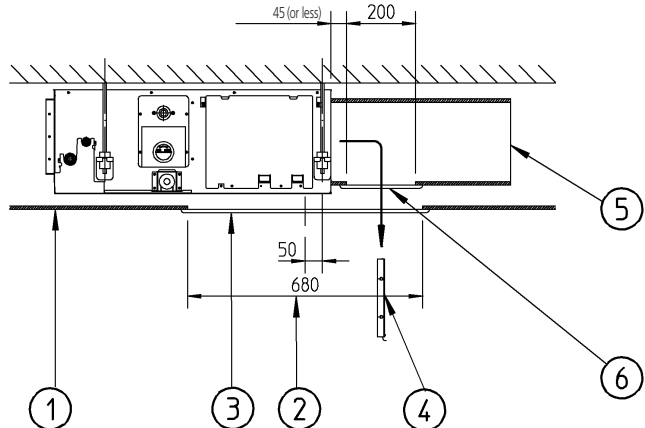
# 12 Installation instructions

## 12-1 Filter installation method

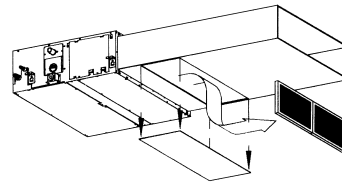
12  
12-1



Installation without duct



Installation with duct

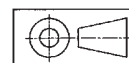


Number	Description
1	False ceiling
2	Ceiling opening
3	Service access panel (optional)
4	Air filter
5	Air inlet duct
6	Duct service opening

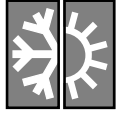
### NOTES

- When installing the unit with rear suction, a service opening is necessary for the maintenance of the air filters.
- When installing the unit with a suction duct, a service opening must be provided in the duct.
- An optional service access panel is available:

Model	Service access panel
FHYBP35,45	KTBJ25K56W
FHYBP60,71	KTBJ25K80W
FHYBP100,125	KTBJ25K160W



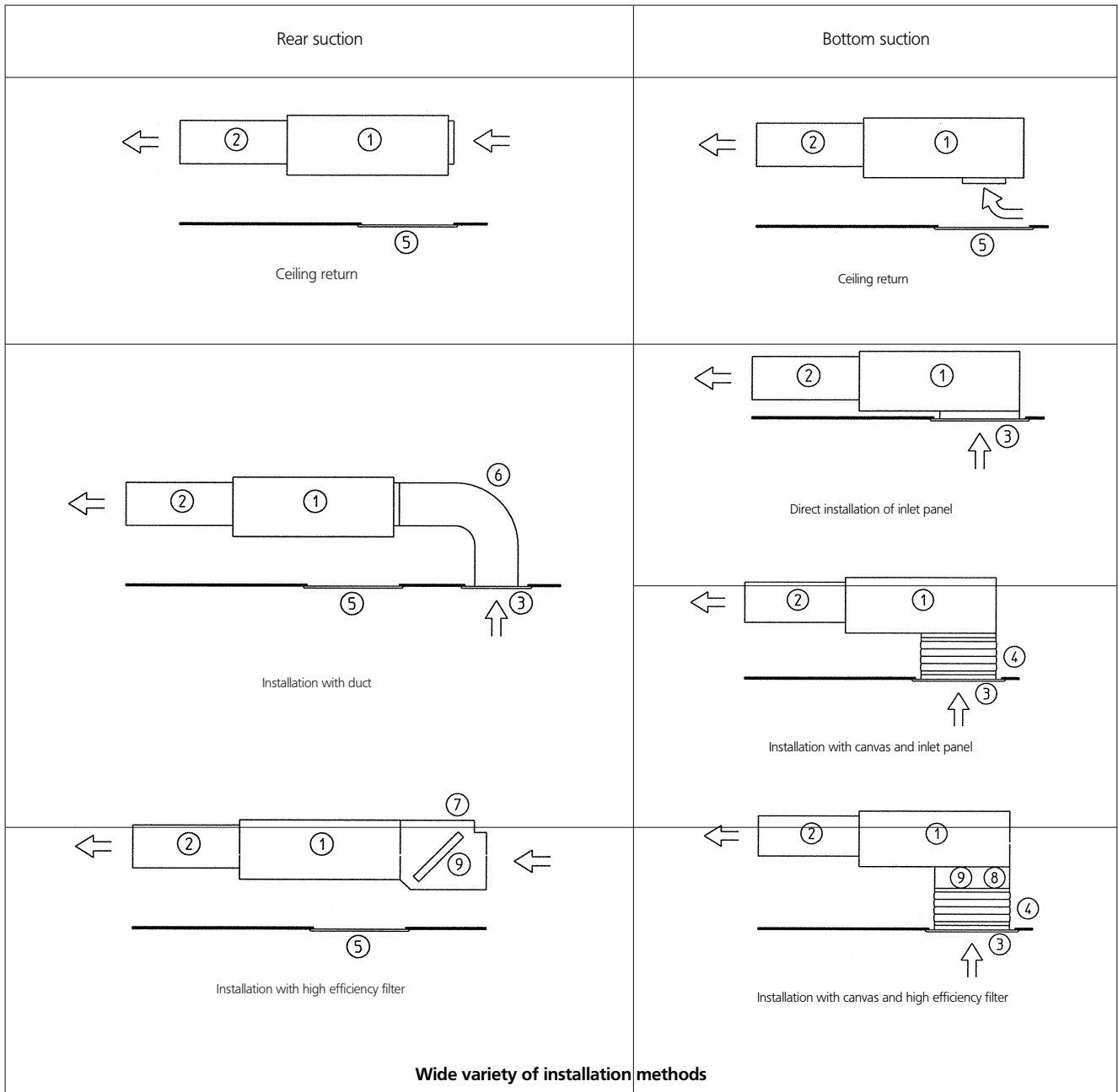
3TW22044-3B



# 12 Installation

## 12-2 Installation characteristics

**12**  
12-2



Number	Description
1	Main body
2	Air outlet duct
3	Inlet panel
4	Air suction canvas
5	Access panel
6	Air inlet duct
7	Filter chamber for rear suction
8	Filter chamber for bottom suction
9	High efficiency filter

3TW22043-4



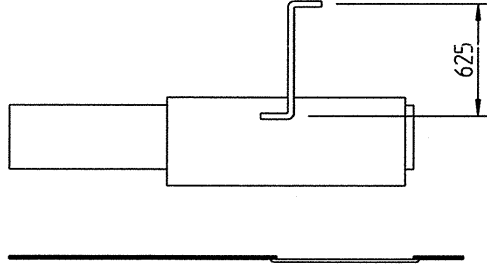


# 12 Installation

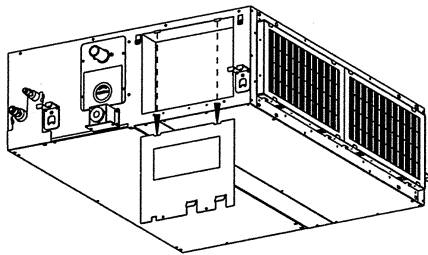
## 12-2 Installation characteristics

12

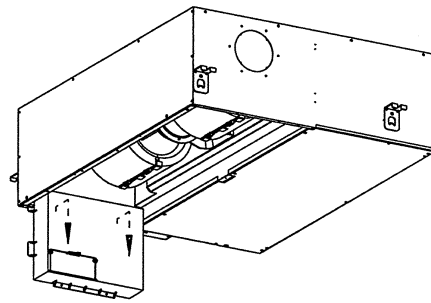
12-2



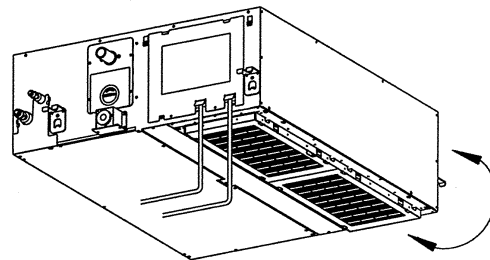
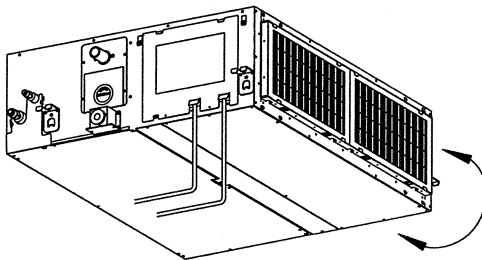
Drain pump up height



From the outside of the switch box:  
remove the switch box cover

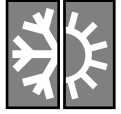


Easy access to the switch box



Easy modification from rear to bottom suction

3TW22043-4



# 12 Installation

## 12-2 Installation characteristics

12

12-2

