



# technical data

**FHYKP-B**

**Ceiling Mounted  
Corner 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.



Daikin Europe N.V. is approved by LRQA for its Quality Management System in accordance with the ISO9001 standard. ISO9001 pertains to quality assurance regarding design, development, manufacturing as well as to services related to the product.



Daikin Europe N.V. is participating in the EUROVENT Certification Programme. Products are as listed in the EUROVENT Directory of Certified Products.

Specifications are subject to change without prior notice.

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

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## FHYKP-B

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





# 1 Features

1

- Specially designed for rooms with shallow ceiling voids (unit height: only 21.5cm)
- Leaves maximum floor and wall space for furniture, decoration and fittings
- Fits flush into each ceiling
- Extremely quiet in operation both indoors and outdoors
- Automatic air flow director ensures uniform air flow and temperature distribution
- Choice between downward air discharge, frontal air discharge or a combination of both
- 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



Optional



Optional



Optional



2 steps



## 2 Specifications


**2**

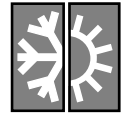
| NOMINAL CAPACITY and NOMINAL INPUT |         |    |             |             |             |             |
|------------------------------------|---------|----|-------------|-------------|-------------|-------------|
| For indoor units only:             |         |    |             |             |             |             |
| INDOOR UNITS                       |         |    | FHYKP35BV17 | FHYKP45BV17 | FHYKP60BV17 | FHYKP71BV17 |
| NOMINAL INPUT                      | Cooling | kW | 0.92        | 0.10        | 0.123       |             |
|                                    | Heating | kW | 0.59        | 0.67        | 0.90        |             |

| For combination indoor + outdoor units (air cooled): |         |      |  |             |             |                      |
|--|---------|------|--|-------------|-------------|----------------------|
| INDOOR UNITS   |         |      | FHYKP35BV17                              | FHYKP45BV17 | FHYKP60BV17 | FHYKP71BV17          |
| OUTDOOR UNITS  |         |      | -  | -           | -           | RP71L7V1/W1-RP71B7T1 |
| CAPACITY (3)   | Cooling | kW   | Twin/triple/double twin application only |             |             |                      |
| NOMINAL INPUT  | Cooling | kW   |  |             |             |                      |
| EER  |         |      |  |             |             |                      |
| ENERGY LABEL   | Cooling |      |  |             |             |                      |
| ANNUAL ENERGY CONSUMPTION                            | Cooling | kW/h |  |             |             |                      |
|  |         |      | 7.10                                     |             |             |                      |
|  |         |      | 2.63/2.56/2.62                           |             |             |                      |
|  |         |      | 2.70/2.77/2.71                           |             |             |                      |
|  |         |      | D/D/D                                    |             |             |                      |
|  |         |      | 1,315/1,280/1,310                        |             |             |                      |

| For combination indoor + outdoor units (air cooled): |         |      |  |             |             |              |
|--|---------|------|--|-------------|-------------|--------------|
| INDOOR UNITS   |         |      | FHYKP35BV17                              | FHYKP45BV17 | FHYKP60BV17 | FHYKP71BV17  |
| OUTDOOR UNITS  |         |      | -  | -           | -           | RYP71L7V1/W1 |
| CAPACITY (3)   | Cooling | kW   | Twin/triple/double twin application only |             |             | 7.10         |
|  | Heating | kW   |  |             |             | 8.00         |
| NOMINAL INPUT  | Cooling | kW   |  |             |             | 2.66/2.53    |
|  | Heating | kW   |  |             |             | 2.63/2.49    |
| EER  |         |      |  |             |             | 2.67/2.81    |
| COP  |         |      |  |             |             | 3.04/3.09    |
| ENERGY LABEL   | Cooling |      |  |             |             | D/C          |
|  | Heating |      |  |             |             | D/D          |
| ANNUAL ENERGY CONSUMPTION                            | Cooling | kW/h |  |             |             | 1,330/1,265  |

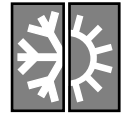
| For combination indoor + outdoor units (air cooled): |         |      |  |             |             |               |
|--|---------|------|--|-------------|-------------|---------------|
| INDOOR UNITS   |         |      | FHYKP35BV17                              | FHYKP45BV17 | FHYKP60BV17 | FHYKP71BV17   |
| OUTDOOR UNITS  |         |      | -  | -           | -           | RYEP71L7V1/W1 |
| CAPACITY (3)   | Cooling | kW   | Twin/triple/double twin application only |             |             | 7.10          |
|  | Heating | kW   |  |             |             | 8.00          |
| NOMINAL INPUT  | Cooling | kW   |  |             |             | 2.63/2.62     |
|  | Heating | kW   |  |             |             | 2.72/2.65     |
| EER  |         |      |  |             |             | 2.70/2.71     |
| COP  |         |      |  |             |             | 2.94/3.02     |
| ENERGY LABEL   | Cooling |      |  |             |             | D/D           |
|  | Heating |      |  |             |             | D/D           |
| ANNUAL ENERGY CONSUMPTION                            | Cooling | kW/h |  |             |             | 1,315/1,310   |

## 2 Specifications


**2**

| TECHNICAL SPECIFICATIONS |                                 |                |        |  |                                 |             |         |               |  |             |  |
|--------------------------|---------------------------------|----------------|--------|--|---------------------------------|-------------|---------|---------------|--|-------------|--|
| For indoor units only:   |                                 |                |        |  |                                 |             |         |               |  |             |  |
| INDOOR UNITS             |                                 |                |        | FHYKP35BV17  |                                 | FHYKP45BV17 |         | FHYKP60BV17   |  | FHYKP71BV17 |  |
| DIMENSIONS               | Unit                            | H              | mm     |  |                                 | 215         |         |               |  |             |  |
|                          |                                 | W              | mm     | 1,110  |                                 |             |         | 1,310         |  |             |  |
|                          |                                 | D              | mm     |  |                                 | 710         |         |               |  |             |  |
|                          | Decoration panel                | H              | mm     |  |                                 | 70          |         |               |  |             |  |
|                          |                                 | W              | mm     | 1,240  |                                 |             |         | 1,440         |  |             |  |
|                          |                                 | D              | mm     |  |                                 | 800         |         |               |  |             |  |
| WEIGHT                   | Unit                            | kg             |        | 30   |                                 | 31          |         |               |  | 33          |  |
|                          | Decoration panel                | kg             |        | 8.5  |                                 |             |         |               |  | 9.5         |  |
| MATERIAL                 | Unit                            |                |        | Galvanised steel plate                             |                                 |             |         |               |  |             |  |
| COLOUR                   | Decoration panel                |                |        | White  |                                 |             |         |               |  |             |  |
| SOUND LEVEL              | Sound pressure (1)              | high           | dB(A)  | 40   |                                 |             |         |               |  | 42          |  |
|                          |                                 | low            | dB(A)  | 34   |                                 | 35          |         |               |  | 37          |  |
|                          | Sound power (2)                 | high           | dB(A)  | 50   |                                 |             |         |               |  | 52          |  |
|                          |                                 | low            | dB(A)  | 44   |                                 | 45          |         |               |  | 47          |  |
| FAN                      | Air flow rate (cooling/heating) | high           | m³/min | 12/12  |                                 |             |         |               |  | 17/17       |  |
|                          |                                 | low            | m³/min | 9/9  |                                 | 10/10       |         |               |  | 14/14       |  |
|                          | Speed                           | steps          |        |  |                                 |             | 2 steps |               |  |             |  |
|                          | Type                            |                |        |  |                                 | Sirocco fan |         |               |  |             |  |
|                          | Qty x motor output              | W              |        | 1 x 20   |                                 | 1 x 25      |         |               |  | 1 x 45      |  |
| HEAT EXCHANGER           | Type                            |                |        | Cross fin coil (Multi louver fins and N-hiX tubes) |                                 |             |         |               |  |             |  |
|                          | Rows x stages x fin pitch       | mm             |        | 2 x 11 x 1.75                                      |                                 |             |         | 3 x 11 x 1.75 |  |             |  |
|                          | Face area                       | m²             |        | 0.186  |                                 |             |         |               |  | 0.226       |  |
| AIR FILTER               |                                 |                |        |  | Resin net (with mold resistant) |             |         |               |  |             |  |
| PIPING CONNECTIONS       |                                 | liquid (flare) | mm     | φ6.4   |                                 |             |         |               |  | φ9.5        |  |
|                          |                                 | gas (flare)    | mm     | φ12.7  |                                 |             |         | φ15.90        |  |             |  |
|                          |                                 | drain I.D.     | mm     |  |                                 |             |         | φ25           |  |             |  |
|                          |                                 | drain O.D.     | mm     |  |                                 |             |         | φ32           |  |             |  |
| INSULATION MATERIAL      | Heat insulation                 |                |        | Both liquid and gas pipes                          |                                 |             |         |               |  |             |  |
|                          | Sound absorbing insulation      |                |        | Foamed polystyrene/foamed polyethylene             |                                 |             |         |               |  |             |  |
| For outdoor units only:  | Pair application                |                |        | See chapters RP-L7/B7, RYP-L7, RYEP-L7, RZP-D      |                                 |             |         |               |  |             |  |

## 2 Specifications


**2**

| ELECTRICAL SPECIFICATIONS                     |                         |                 |   |   |             |             |                       |
|---|-------------------------|-----------------|---|---|-------------|-------------|-----------------------|
| For indoor units only:                        |                         |                 |   | FHYKP35BV17                                   | FHYKP45BV17 | FHYKP60BV17 | FHYKP71BV17           |
| CURRENT                                       | Nominal running current | cooling/heating | A | See chapters RP-L7/B7, RYP-L7, RYEP-L7, RZP-D |             |             |                       |
|   | Maximum running current | cooling/heating | A | See chapters RP-L7/B7, RYP-L7, RYEP-L7, RZP-D |             |             |                       |
| For combination indoor units + outdoor units: |                         |                 |   | FHYKP35BV17                                   | FHYKP45BV17 | FHYKP60BV17 | FHYKP71BV17           |
|   |                         |                 |   | -   | -           | -           | RP71L7V1/W1-RP71B7T1  |
| CURRENT                                       | Nominal running current | cooling         | A | Twin/triple/double twin application only      |             |             | See chapters RP-L7/B7 |
|   | Maximum running current | cooling         | A |   |             |             |                       |
|   | Starting current        | cooling         | A |   |             |             |                       |
| For combination indoor units + outdoor units: |                         |                 |   | FHYKP35BV17                                   | FHYKP45BV17 | FHYKP60BV17 | FHYKP71BV17           |
|   |                         |                 |   | -   | -           | -           | RYP71L7V1/W1          |
| CURRENT                                       | Nominal running current | cooling/heating | A | Twin/triple/double twin application only      |             |             | See chapters RYP-L7   |
|   | Maximum running current | cooling/heating | A |   |             |             |                       |
|   | Starting current        | cooling/heating | A |   |             |             |                       |
| For combination indoor units + outdoor units: |                         |                 |   | FHYKP35BV17                                   | FHYKP45BV17 | FHYKP60BV17 | FHYKP71BV17           |
|   |                         |                 |   | -   | -           | -           | RYEP71L7V1/W1         |
| CURRENT                                       | Nominal running current | cooling/heating | A | Twin/triple/double twin application only      |             |             | See chapters RYEP-L7  |
|   | Maximum running current | cooling/heating | A |   |             |             |                       |
|   | Starting current        | cooling/heating | A |   |             |             |                       |
| For combination indoor units + outdoor units: |                         |                 |   | FHYKP35BV17                                   | FHYKP45BV17 | FHYKP60BV17 | FHYKP71BV17           |
|   |                         |                 |   | -   | -           | -           | RYEP71L7V1/W1         |
| CURRENT                                       | Nominal running current | cooling/heating | A | Twin/triple/double twin application only      |             |             | See chapters RYEP-L7  |
|   | Maximum running current | cooling/heating | A |   |             |             |                       |
|   | Starting current        | cooling/heating | A |   |             |             |                       |
| For indoor units only:                        |                         |                 |   | FHYKP35BV17                                   | FHYKP45BV17 | FHYKP60BV17 | FHYKP71BV17           |
| 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                   |

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### NOTES

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

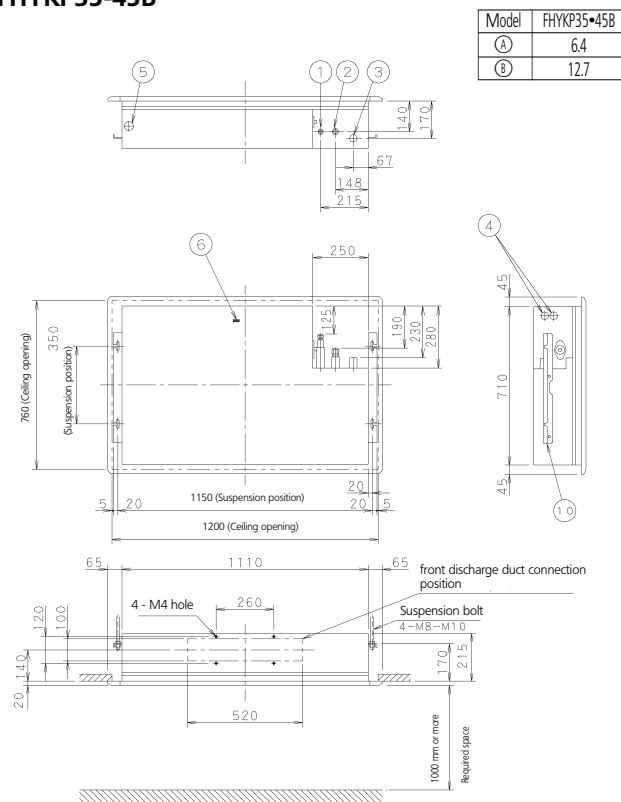


# 3 Dimensional drawings

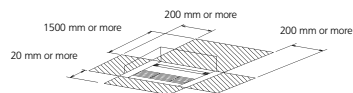
3

## FHYKP35-45B

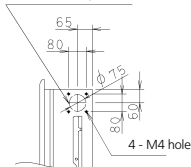
unit (mm)



### Required space



### Fresh air intake position



- 1 Liquid pipe connection - flare ①
- 2 Gas pipe connection - flare ②
- 3 Drain pipe connection V.P.25
- 4 Wire intake
- 5 Wire intake for remote control cord
- 6 Grounding terminal (M4 in switch box)
- 7 Air discharge grille
- 8 Air suction grille
- 9 Long life air filter
- 10 Suspension bracket

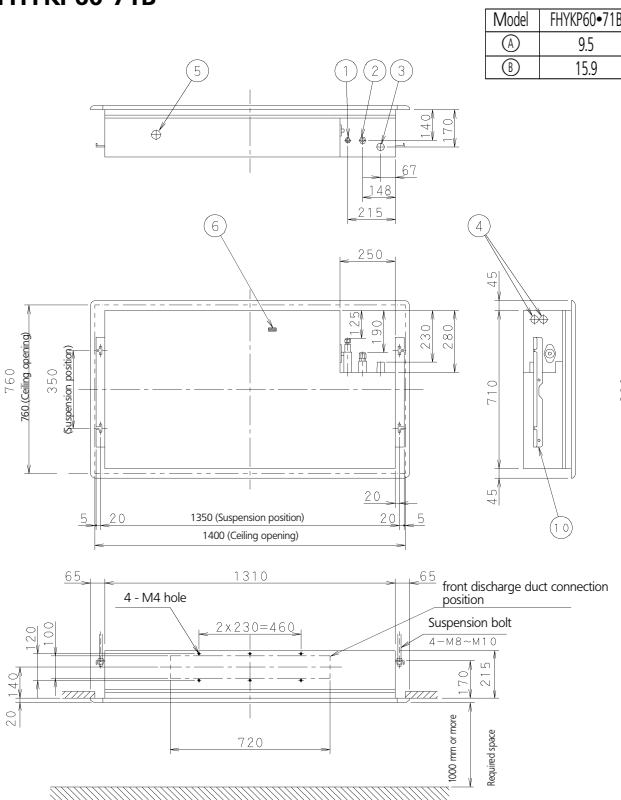
### Notes:

1. Location of unit's name plate
  - For main body: bottom part of fan housing inside of air discharge
  - For decoration panel: service lid face inside of air suction grille

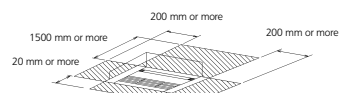
3D027409

## FHYKP60-71B

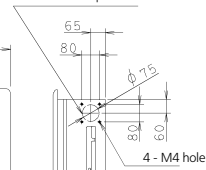
unit (mm)



### Required space



### Fresh air intake position



- 1 Liquid pipe connection - flare ①
- 2 Gas pipe connection - flare ②
- 3 Drain pipe connection V.P.25
- 4 Wire intake
- 5 Wire intake for remote control cord
- 6 Grounding terminal (M4 in switch box)
- 7 Air discharge grille
- 8 Air suction grille
- 9 Long life air filter
- 10 Suspension bracket

### Notes:

1. Location of unit's name plate
  - For main body: bottom part of fan housing inside of air discharge
  - For decoration panel: service lid face inside of air suction grille

3D027408





4

Piping diagrams

4

**FHYKP35-71B**

| Model          | Gas | Liquid |
|----------------|-----|--------|
| FHYKP35-45BV17 | 6.4 | 12.7   |
| FHYKP60-71BV17 | 9.5 | 15.9   |

Indoor heat exchanger

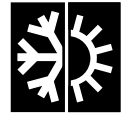
Indoor unit

Field piping φ A C1220T-0

Field piping φ B C1220T-0

To outdoor unit

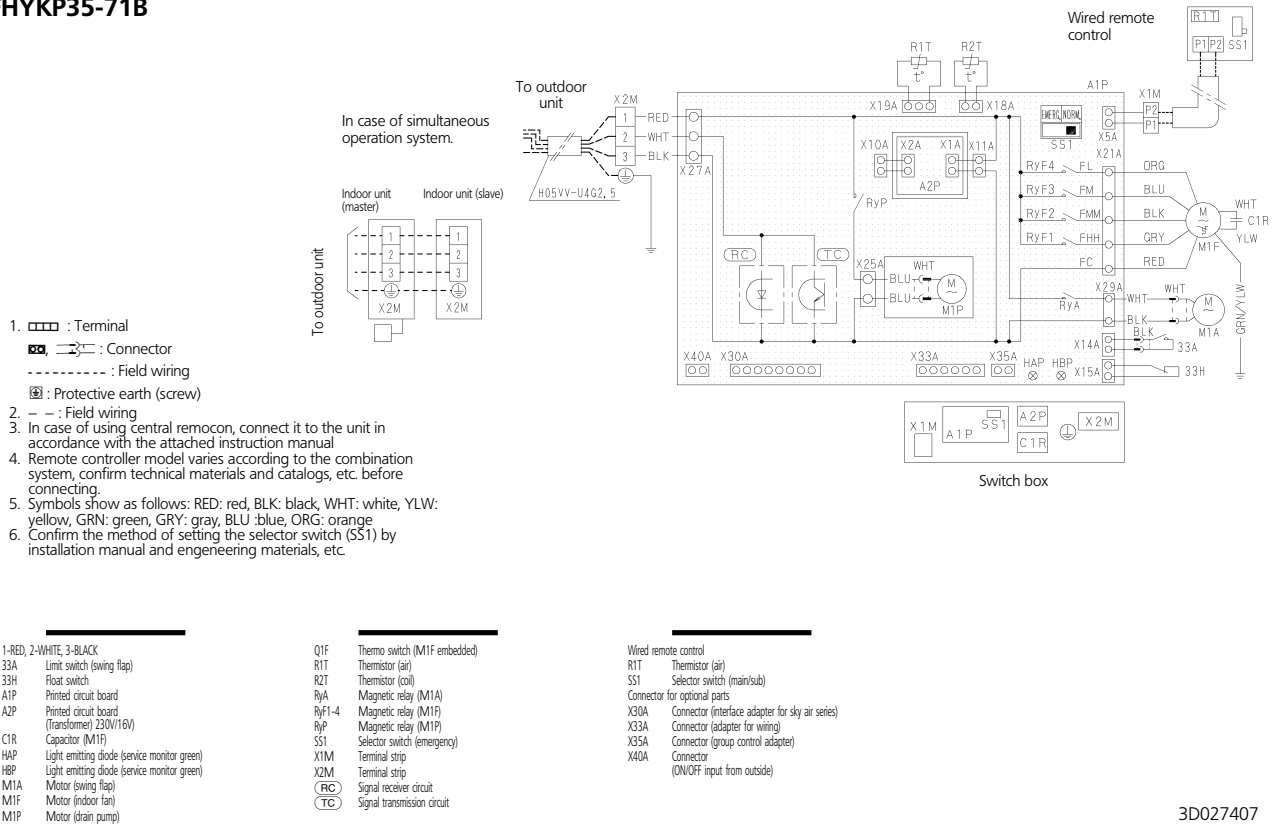
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# 5 Wiring diagrams

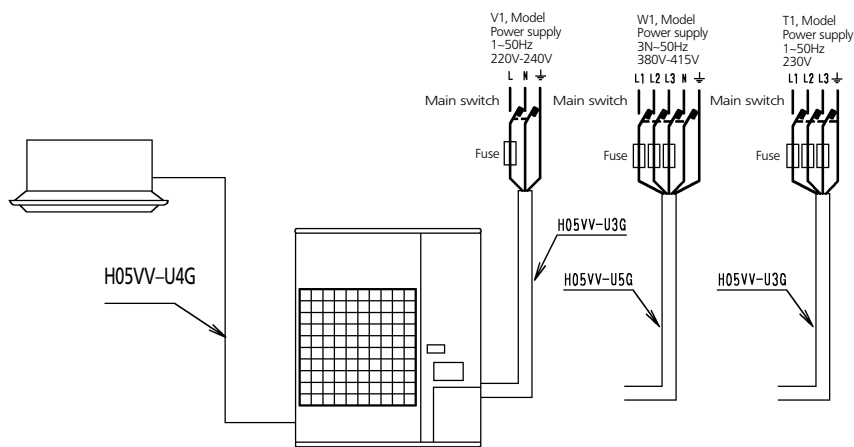
5

## FHYKP35-71B



## NOTES

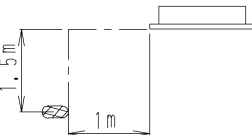
1. Line voltage wiring  
 Control circuit wiring
2. All wiring, components and materials to be produced on the site must comply with the applicable local and national codes.
3. Use copper conductors only.
4. See wiring diagrams for details.
5. Install fuse and main switch for safety.
6. All field wiring 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.





## 6 Sound level

### 6-1 Sound level data

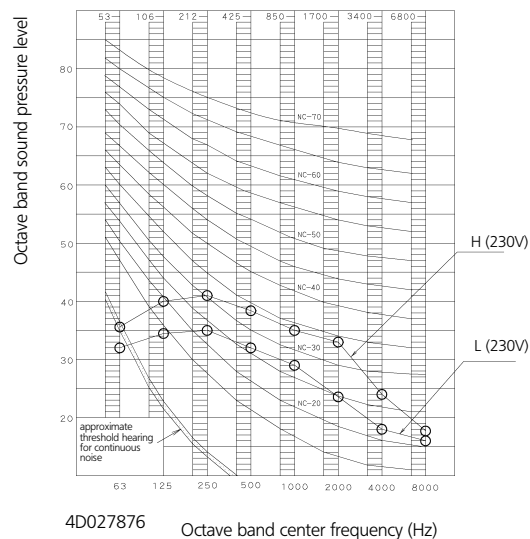
| Model       | Sound pressure level |                 | Measuring location  | Sound power level |                 |
|-------------|----------------------|-----------------|---|-------------------|-----------------|
|             | 50Hz-230V            |                 |   | H                 | L               |
|             | H                    | L               |   | H                 | L               |
|             | cooling/heating      | cooling/heating |   | cooling/heating   | cooling/heating |
| FHYKP35BV17 | 40/40                | 34/34           | <div>Location of microphone</div>  | 50/50             | 44/44           |
| FHYKP45BV17 | 40/40                | 35/35           |   | 50/50             | 45/45           |
| FHYKP60BV17 | 42/42                | 37/37           |   | 52/52             | 47/47           |
| FHYKP71BV17 | 42/42                | 37/37           |   | 52/52             | 47/47           |

6

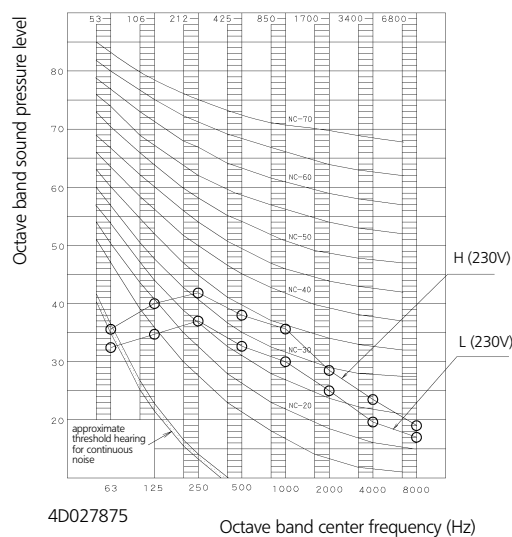
6-1

### 6-2 Sound pressure spectrum

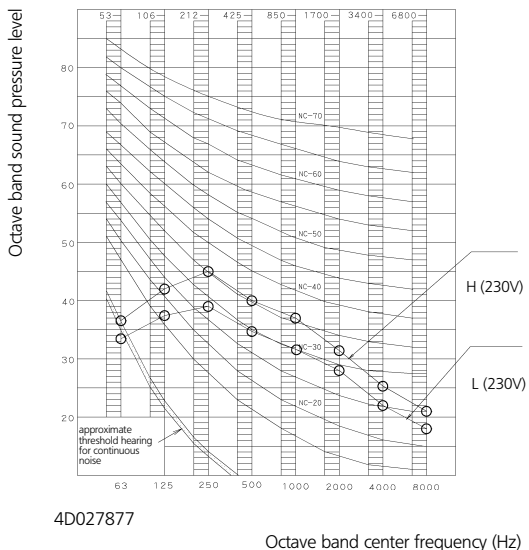
FHK35BZV17  
FHYKP35BV17



FHK45BZV17  
FHYKP45BV17



FHK60BZV17  
FHYKP60-71BV17



#### NOTES

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

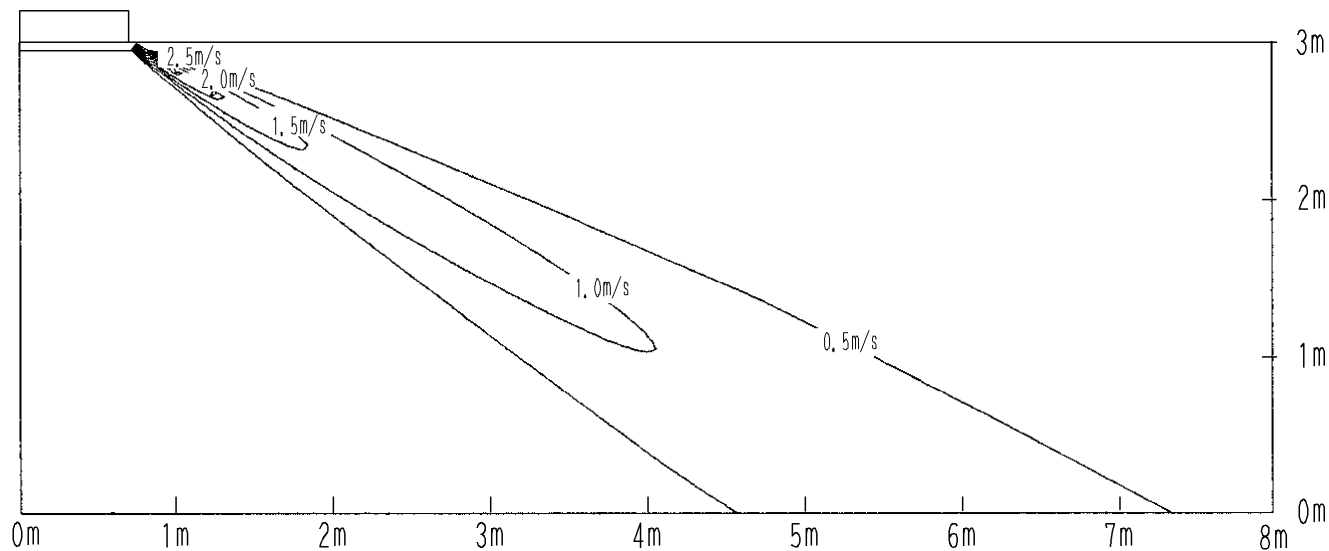


## 7 Air flow patterns

### 7 FHYKP35-45BV17

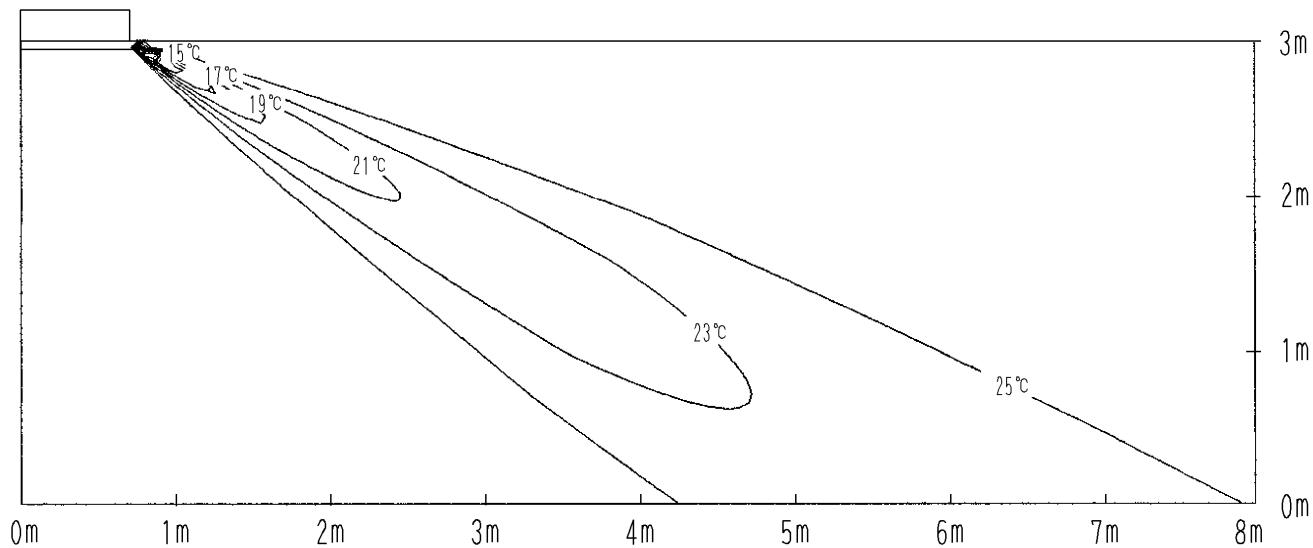
#### Cooling - air velocity distribution

Air flow direction: 30° (downward)



#### Cooling - air temperature distribution

Air flow direction: 30° (downward)



4D028539



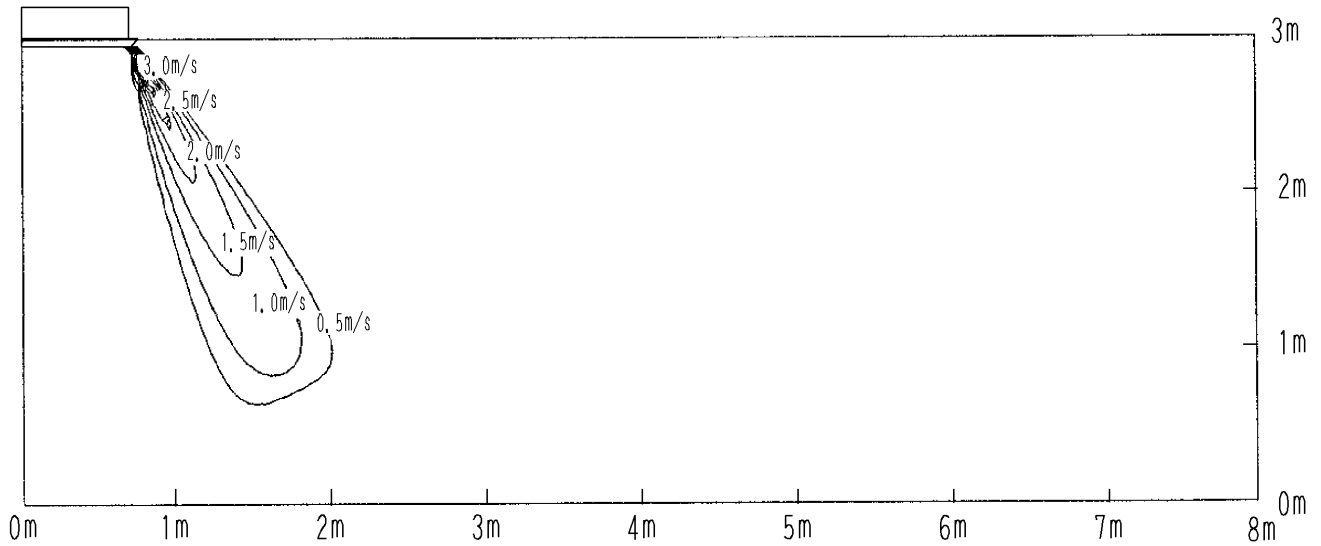
## 7 Air flow patterns

7

### FHYKP35-45BV17

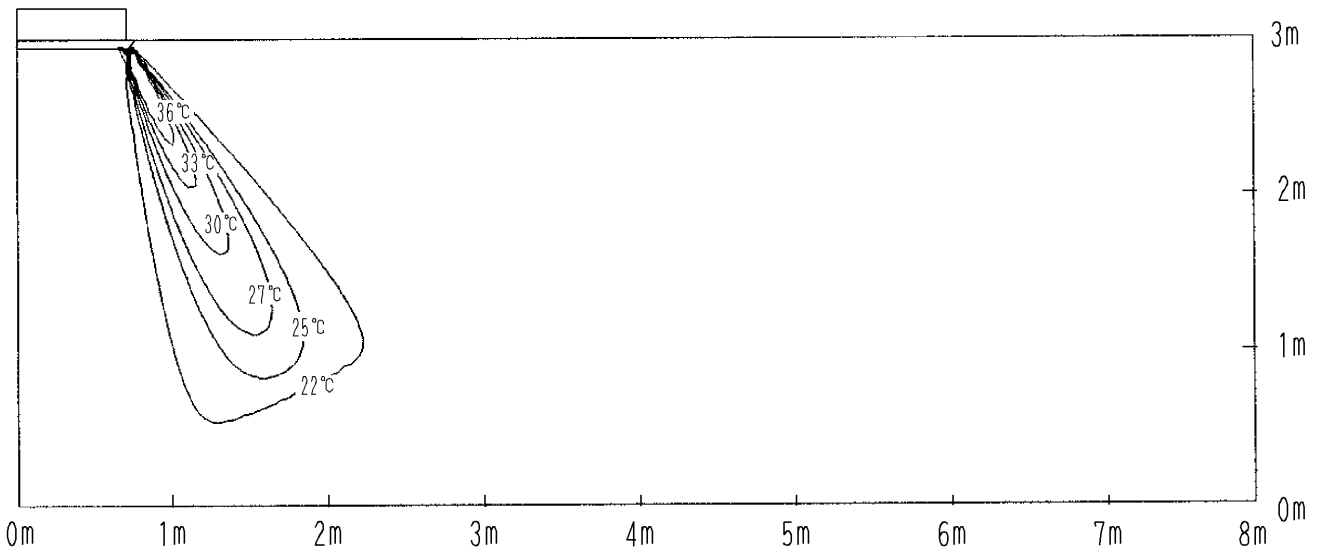
Heating - air velocity distribution

Air flow direction: 65°C (downward)



Heating - air temperature distribution

Air flow direction: 65°C (downward)



4D028540

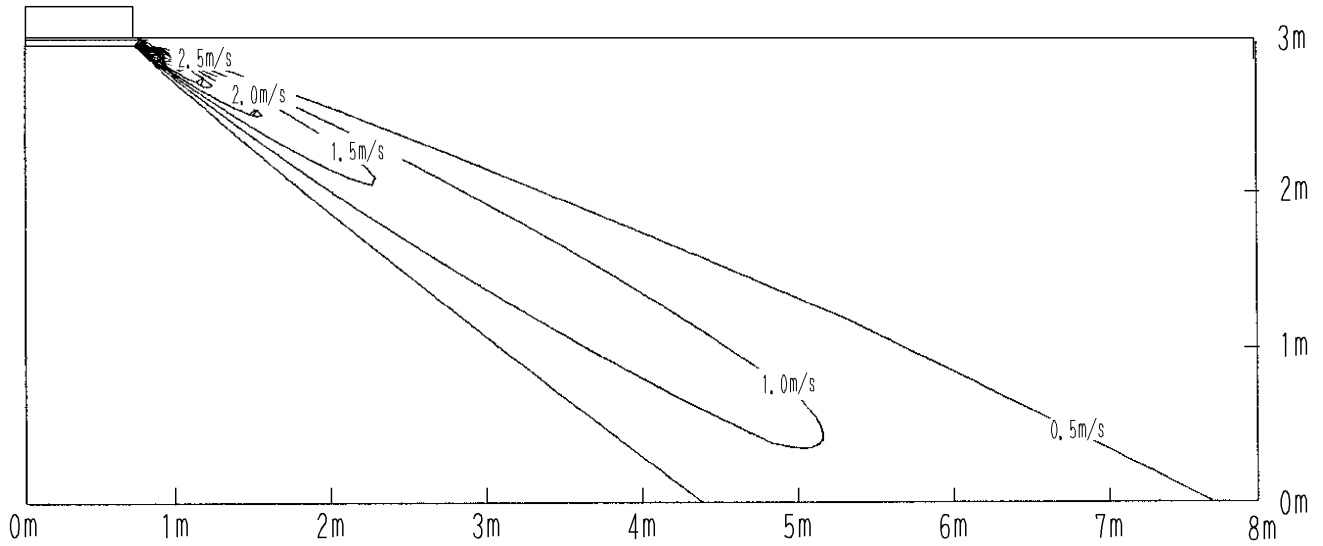


## 7 Air flow patterns

### 7 FHYKP60-71BV17

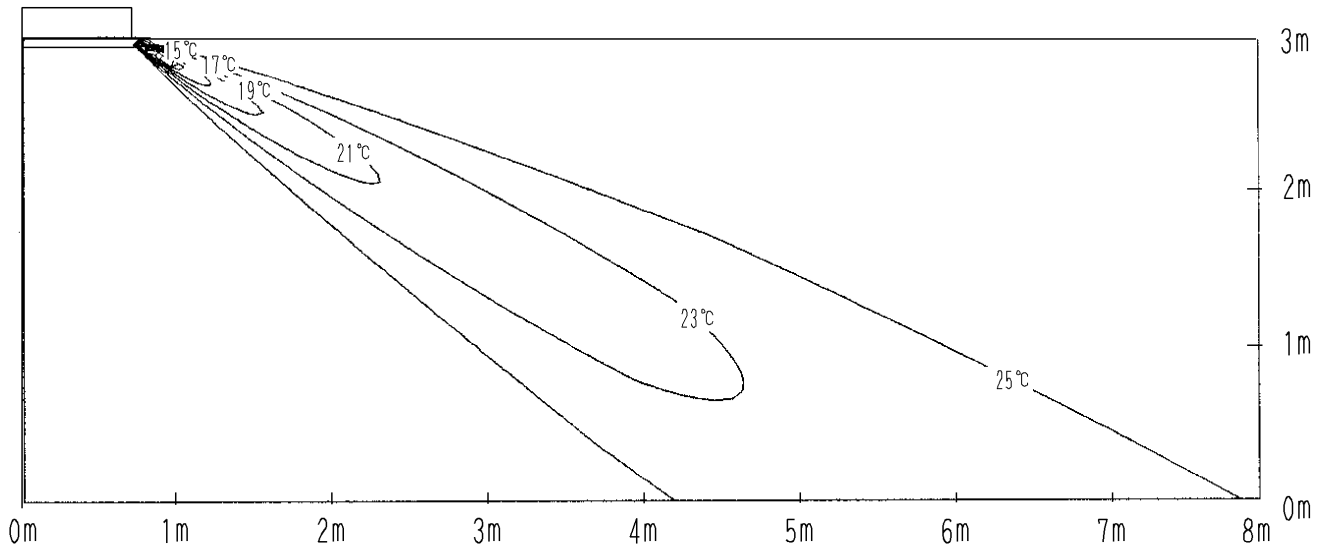
#### Cooling - air velocity distribution

Air flow direction: 30° (downward)



#### Cooling - air temperature distribution

Air flow direction: 30° (downward)



4D028543



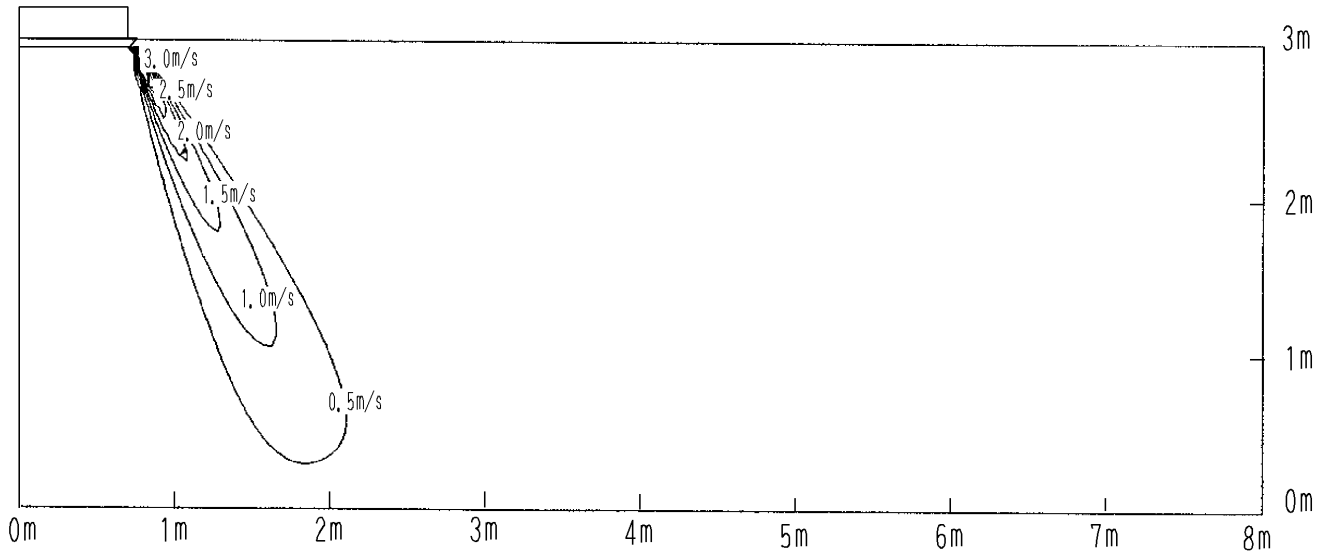
## 7 Air flow patterns

7

### FHYKP60-71BV17

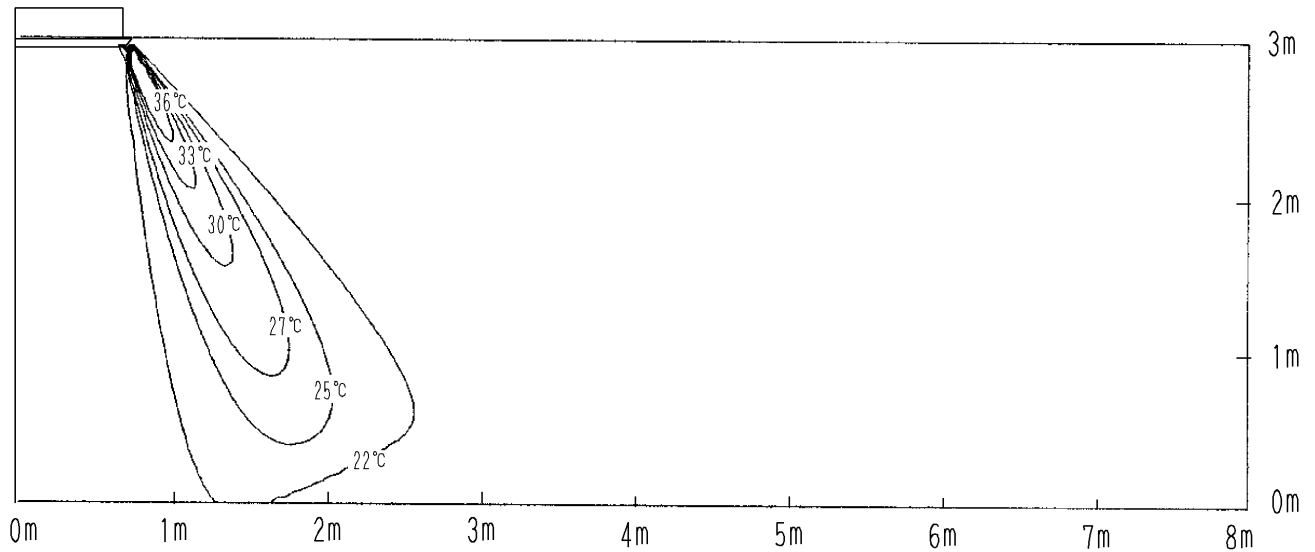
#### Heating - air velocity distribution

Air flow direction: 65°C (downward)



#### Heating - air temperature distribution

Air flow direction: 65°C (downward)



4D028544










# 8 Accessories





## 8-1 Standard accessories


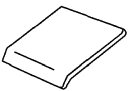
**8**

8-1

| Name     | ① Clamp   | ② Paper pattern for installation  | ③ Drain hose   | Insulation for fitting  |
|----------|---|---|--|---|
| Quantity | 1 pc.   | 1 pc.   | 1 pc.  | 1 of each   |
| Shape    |  |  |  | <br>④ For gas pipe<br><br>⑤ For liquid pipe |

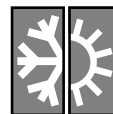
| Name     | Sealing pad  |
|----------|--|
| Quantity | 1 of each  |
| Shape    | <br>⑥ Large<br><br>⑦ Small |

| Name     | ⑩ Installation guide   | ⑪ Washer for hanging bracket  | ⑫ Clamp   |
|----------|--|---|---|
| Quantity | 2 each   | 8 pcs.  | 7 pcs.  |
| Shape    | <br><br>Screws x 4 |  |  |

| Name     | ⑬ Insulation for hanging bracket  | ⑭ Air outlet blocking pad   | (Other)<br>• Installation manual<br>• Operation manual |
|----------|---|---|--|
| Quantity | 4 pcs.  | 1 pc.   |  |
| Shape    |  |  |  |

- Screws for fixing panels are attached to the decoration panel.





## 8 Accessories

### 8-2 Optional accessories

| Name of option  |               | Remark       | FHYKP-BV17 |    |            |    |
|---|---------------|--------------|------------|----|------------|----|
|   |               |              | 35         | 45 | 60         | 71 |
| Decoration panel  |               |              | BYK45FJW1  |    | BYK71FJW1  |    |
| Panel spacer  |               |              | KPBJ52F56W |    | KPBJ52F80W |    |
| Air discharge blind panel   |               |              | KDBJ52F56W |    | KDBJ52F80W |    |
| Replacement long-life filter  |               | Resin net    | KAFJ521F56 |    | KAFJ521F80 |    |
| Discharge grille  |               |              | KDGJ52F56W |    | KDGJ52F80W |    |
| Flexible duct with shutter  |               |              | KFDJ52F56  |    | KFDJ52F80  |    |
| Remote control  | Wired type    |              | BRC1D517   |    |            |    |
|   | Infrared type | Heat pump    | BRC4C61    |    |            |    |
|   |               | Cooling only | BRC4C63    |    |            |    |
| Central remote control  |               |              | DCS302B51  |    |            |    |
| Unified ON/OFF control  |               |              | DCS301B51  |    |            |    |
| Schedule timer  |               |              | DST301B51  |    |            |    |
| Option PCB for external electrical heater, humidifier and/or hour meter |               |              | EKR1B2     |    |            |    |
| Adapter for wiring (interlock for fresh air intake fan)                 |               |              | KRP1B51    |    |            |    |
| Group control adapter   |               |              | KRP4A51    |    |            |    |
| Interface adapter for Sky Air series                                    |               |              | DTA102A52  |    |            |    |
| Remote sensor   |               |              | KRCS01-1   |    |            |    |
| Remote ON/OFF, forced OFF   |               |              | EKRORO     |    |            |    |

DU423-9100B

**8**

8-2



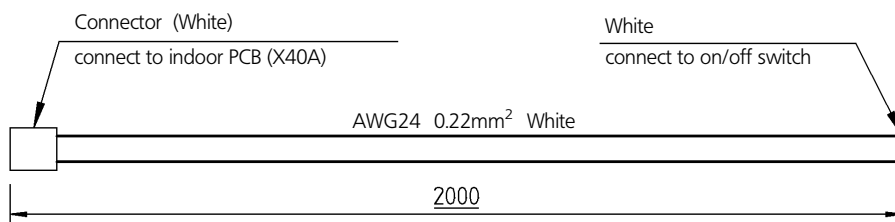
## 8 Accessories

### 8-2 Optional accessories

#### 8 Specifications EKRORO

8-2

Wire specifications



Operating method

|       |                                |     |  |
|-------|--------------------------------|-----|--|
| Input | Switch                         | ON* |  |
|       | Remote control                 | ON  |  |
| Unit  | Standard setting: 'forced off' | ON  |  |
|       | Alternative setting: 'on/off'  | ON  |  |

\* 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



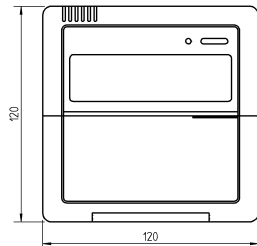
## 9 Control systems

### 9-1 Wired remote control

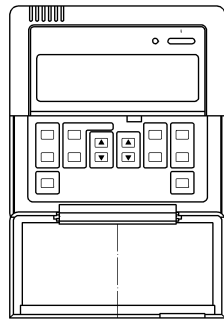
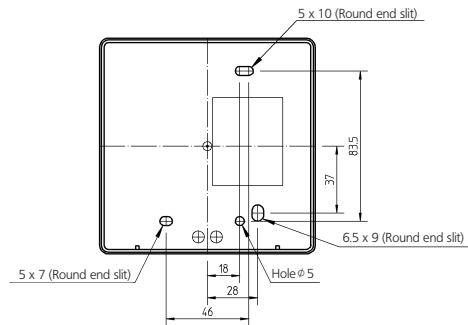
9

9-1

BRC1D517



Cover closed



Cover open

3TW23651-2



## 10 Safety device settings

10

| Model      | Safety devices                   | 35                            | 45                            | 60                            | 71                            |
|------------|----------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|
| FHYKP-BV17 | Fuse                             | —                             | —                             | —                             | —                             |
|            | Fan motor thermal fuse (°C)      | —                             | —                             | —                             | —                             |
|            | Fan motor thermal protector (°C) | OFF: 120±5<br>ON: 105 or less | OFF: 120±5<br>ON: 105 or less | OFF: 120±5<br>ON: 105 or less | OFF: 120±5<br>ON: 105 or less |

DU423-9101H

## 11 Installation

### Names and functions of parts

- (a) Indoor unit
- (b) Outdoor unit
- (c) Infrared remote control
- (d) Inlet air
- (e) Discharged air
- (f) Air outlet
- (g) Air flow flap (at air outlet)
- (h) Refrigerant piping, connection electric wire
- (i) Drain pipe
- (j) Air inlet
- (k) The built-in air filter removes dust and dirt.
- (l) Ground wire
- Wire to ground from the outdoor unit to prevent electrical shocks.
- ① Drain pumping out device (built-in)
- Drains water removed from the room during cooling

