



INSTALLATION MANUAL

Split System air conditioners

FHB35Fk7V1	FHYB35Fk7V1
FHB45Fk7V1	FHYB45Fk7V1
FHB60Fk7V1	FHYB60Fk7V1
	FHYB71Fk7V1
	FHYB100Fk7V1
	FHYB125Fk7V1

Daikin Europe N.V.

declares under its sole responsibility that the air conditioning models to which this declaration relates:
erklärt auf seine alleinige Verantwortung daß die Modelle der Klimageräte für die diese Erklärung bestimmt ist:
déclare sous sa seule responsabilité que les appareils d'air conditionné visés par la présente déclaration:

verklaart hierbij op eigen exclusieve verantwoordelijkheid dat de airconditioning units waarop deze verklaring betrekking heeft:
declara baja su única responsabilidad que los modelos de aire acondicionado a los cuales hace referencia la declaración:
dichiara sotto sua responsabilità che i condizionatori modello a cui è riferita questa dichiarazione:

δηλώνει με αποκλειστική της ευθύνη ότι τα μοντέλα των κλιματιστικών συσκευών στα οποία αναφέρεται η παρούσα δήλωση:
declara sob sua exclusiva responsabilidade que os modelos de ar condicionado a que esta declaração se refere:
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deklarerar i egenskap av huvudansvarig, att luftkonditioneringsmodellerna som berörs av denna deklaration innebär att:
erklærer et fullstendig ansvar for at de luftkonditioneringsmodeller som berøres av denne erklæring innebærer at:
ilmoittaa yksinomaan omalla vastuullaan, että tämän ilmoituksen tarkoitamat ilmastointilaitteiden mallit:

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FHYB35FK7V1, FHYB45FK7V1, FHYB60FK7V1, FHYB71FK7V1, FHYB100FK7V1, FHYB125FK7V1,

are in conformity with the following standard(s) or other normative document(s), provided that these are used in accordance with our instructions:
der/den folgenden Norm(en) oder einem anderen Normdokument oder -dokumenten entspricht/entsprechen, unter der Voraussetzung, daß sie gemäß unseren Anweisungen eingesetzt werden:
sont conformes à la/aux norme(s) ou autre(s) document(s) normatif(s), pour autant qu'ils soient utilisés conformément à nos instructions:

conform de volgende norm(en) of één of meer andere bindende documenten zijn, op voorwaarde dat ze worden gebruikt overeenkomstig onze instructies:
están en conformidad con la(s) siguiente(s) norma(s) u otro(s) documento(s) normativo(s), siempre que sean utilizados de acuerdo con nuestras instrucciones:
sono conformi al(i) seguente(i) standard(s) o altro(i) documento(i) a carattere normativo, a patto che vengano usati in conformità alle nostre istruzioni:

είναι σύμφωνα με το(α) ακόλουθο(α) πρότυπο(α) ή άλλο έγγραφο(α) κανονισμών, υπό την προϋπόθεση ότι χρησιμοποιούνται σύμφωνα με τις οδηγίες μας:
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respektive utrustning är utförd i överensstämmelse med och följer följande standard(er) eller andra normgivande dokument, under förutsättning att användning sker i överensstämmelse med våra instruktioner :
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EN60335-2-40,

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overeenkomstig de bepalingen van:
siguiendo las disposiciones de:
secondo le prescrizioni per:

με τήρηση των διατάξεων των:
de acordo com o previsto em:
under iagttagelse af bestemmelserne i:

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Low Voltage 73/23/EEC
Machinery Safety 89/392/EEC
Electromagnetic Compatibility 89/336/EEC *

Directives, as amended.
Direktiven, gemäß Änderung.
Directives, telles que modifiées.

Richtlijnen, zoals geamendeerd.
Directivas, según lo enmendado.
Direttive, come da modifica.

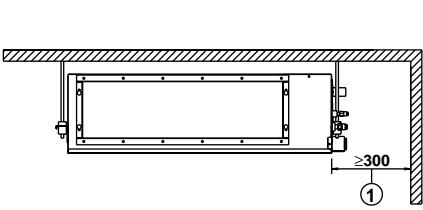
Οδηγιών, όπως έχουν τροποποιηθεί.
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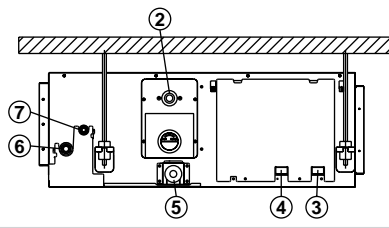
* Note	as set out in the Technical Construction File DAIKIN.TCF.004 and judged positively by KEMA according to the Certificate 59277-KRQ/ECM95-4233 .
Hinweis	wie in der Technischen Konstruktionsakte DAIKIN.TCF.004 aufgeführt und von KEMA positiv ausgezeichnet gemäß Zertifikat 59277-KRQ/ECM95-4233 .
Remarque	tel que stipulé dans le Fichier de Construction Technique DAIKIN.TCF.004 et jugé positivement par KEMA conformément au Certificat 59277-KRQ/ECM95-4233 .
Bemerk	zoals vermeld in het Technisch Constructiedossier DAIKIN.TCF.004 en in orde bevonden door KEMA overeenkomstig Certificaat 59277-KRQ/ECM95-4233 .
Nota	tal como se expone en el Archivo de Construcción Técnica DAIKIN.TCF.004 y juzgado positivamente por KEMA según el Certificado 59277-KRQ/ECM95-4233 .
Nota	delineato nel File Tecnico di Costruzione DAIKIN.TCF.004 e giudicato positivamente da KEMA secondo il Certificato 59277-KRQ/ECM95-4233 .
Σημείωση	όπως προσδιορίζεται στο Αρχείο Τεχνικής Κατασκευής DAIKIN.TCF.004 και κρίνεται θετικά από το KEMA σύμφωνα με το Πιστοποιητικό 59277-KRQ/ECM95-4233 .
Nota	tal como estabelecido no Ficheiro Técnico de Construção DAIKIN.TCF.004 e com o parecer positivo de KEMA de acordo com o Certificado 59277-KRQ/ECM95-4233 .
Bemærk	som anført i den Tekniske Konstruktionsfil DAIKIN.TCF.004 og positivt vurderet af KEMA i henhold til Certifikat 59277-KRQ/ECM95-4233 .
Information	utrustningen är utförd i enlighet med den Tekniska Konstruktionsfilen DAIKIN.TCF.004 som positivt intygats av KEMA vilket också framgår av Certifikat 59277-KRQ/ECM95-4233 .
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Huom	jotka on esitetty Teknisessä Asiakirjassa DAIKIN.TCF.004 ja jotka KEMA on hyväksynyt Sertifikaatin 59277-KRQ/ECM95-4233 mukaisesti.



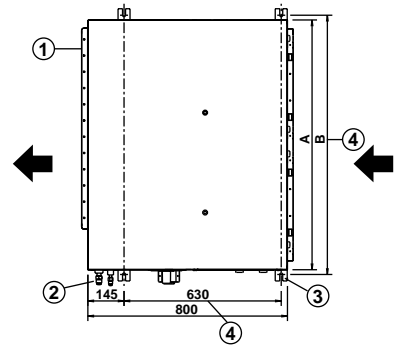
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Zandvoordestraat 300, B-8400 Oostende, Belgium



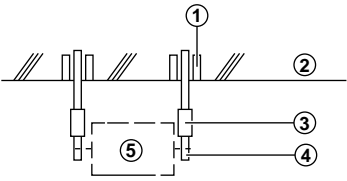
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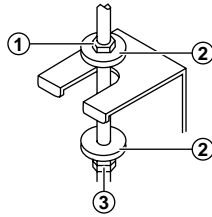
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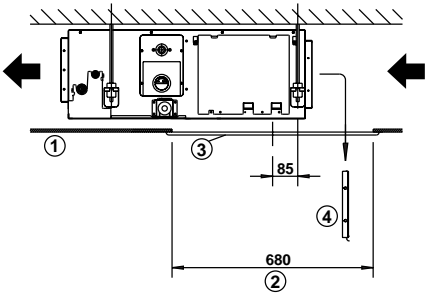
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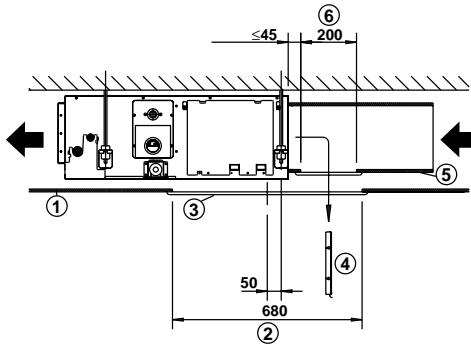
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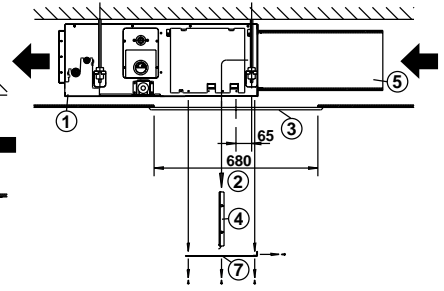
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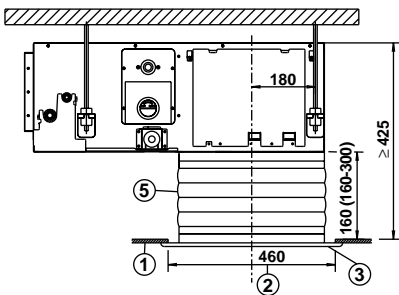
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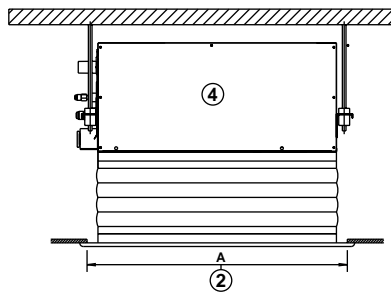
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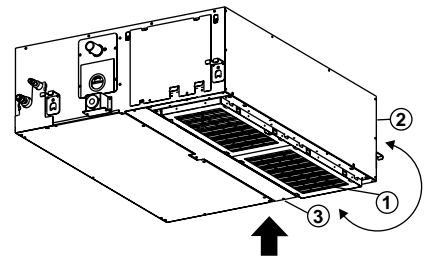
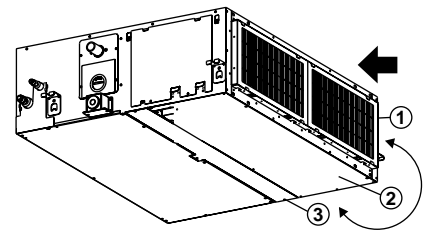
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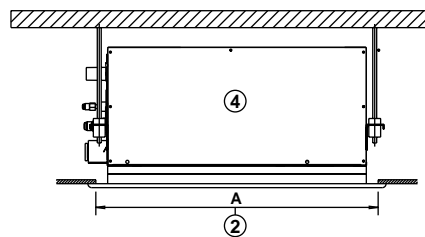
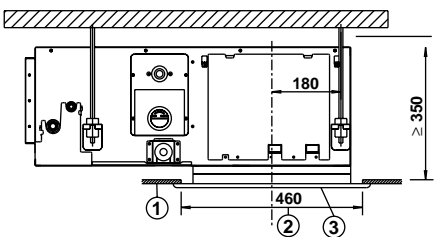
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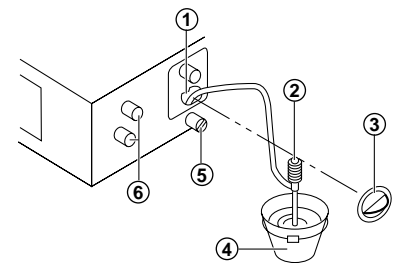
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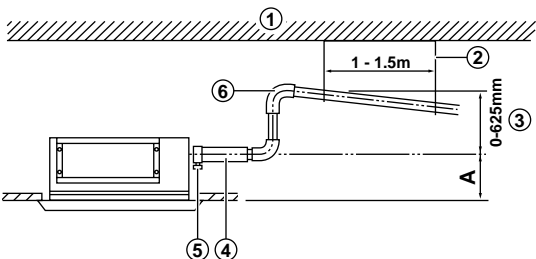
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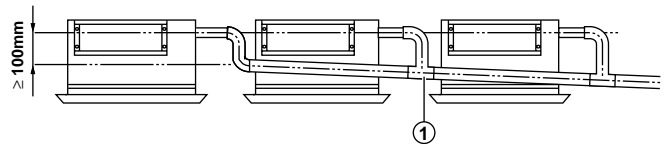
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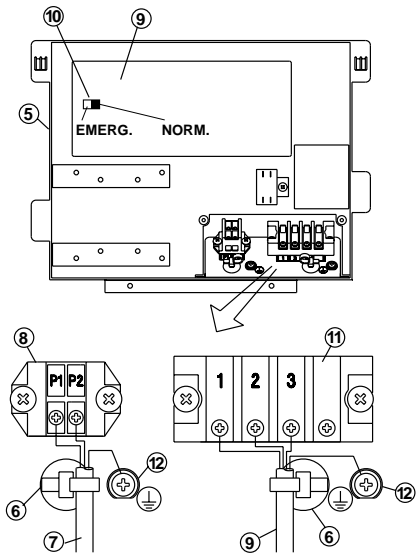
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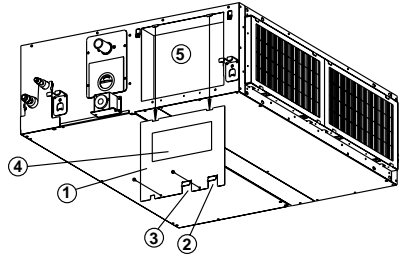
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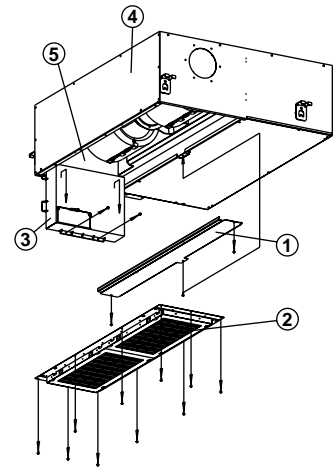
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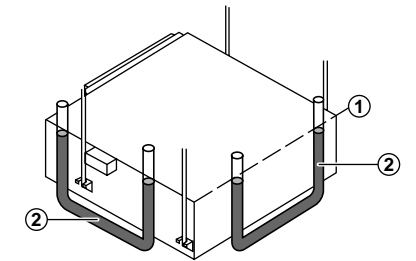
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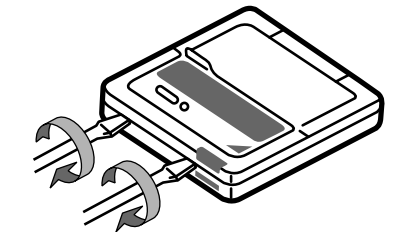
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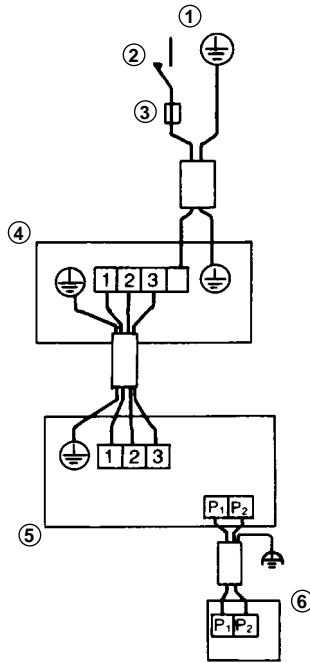
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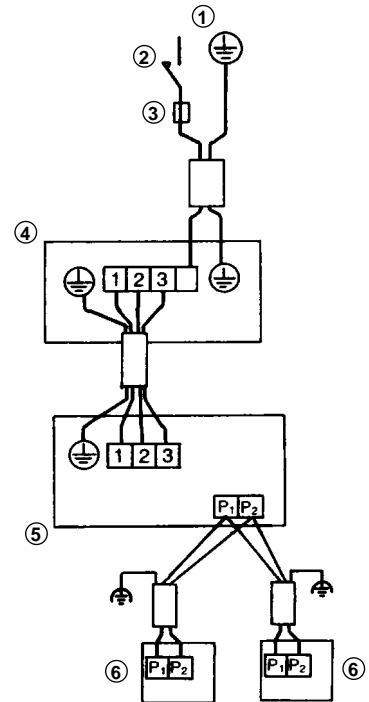
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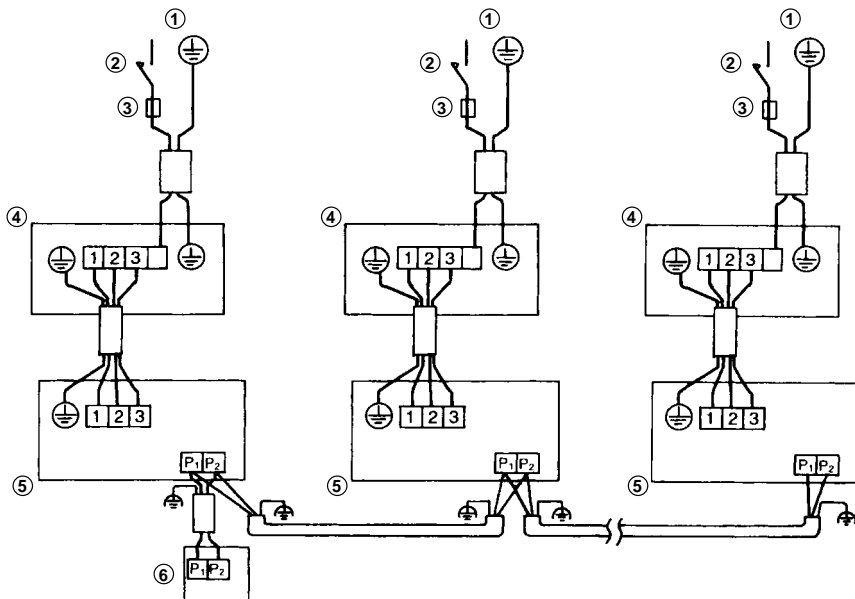
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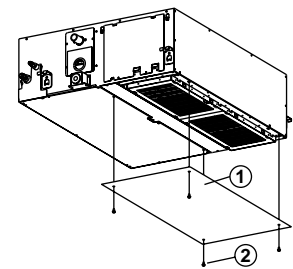
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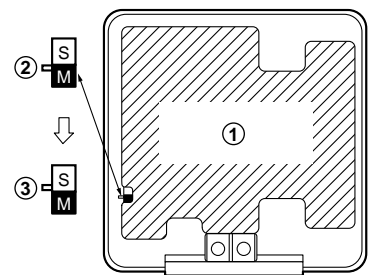
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READ THESE INSTRUCTIONS CAREFULLY BEFORE INSTALLATION. KEEP THIS MANUAL IN A HANDY PLACE FOR FUTURE REFERENCE. IMPROPER INSTALLATION OR ATTACHMENT OF EQUIPMENT OR ACCESSORIES COULD RESULT IN ELECTRIC SHOCK, SHORT-CIRCUIT, LEAKS, FIRE OR OTHER DAMAGE TO THE EQUIPMENT. BE SURE ONLY TO USE ACCESSORIES MADE BY DAIKIN WHICH ARE SPECIFICALLY DESIGNED FOR USE WITH THE EQUIPMENT AND HAVE THEM INSTALLED BY A PROFESSIONAL. IF UNSURE OF INSTALLATION PROCEDURES OR USE, ALWAYS CONTACT YOUR DAIKIN DEALER FOR ADVICE AND INFORMATION.

BEFORE INSTALLATION


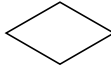


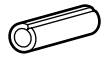



- Leave the unit inside its packaging until you reach the installation site. Where unpacking is unavoidable, use a sling of soft material or protective plates together with a rope when lifting, this to avoid damage or scratches to the unit.
- Refer to the installation manual of the outdoor unit for items not described in this manual.

Precautions

- Do not install or operate the unit in rooms mentioned below.
 - Places with mineral oil, or filled with oil vapour or spray like in kitchens. (Plastic parts may deteriorate.)
 - Where corrosive gas like sulphurous gas exists. (Copper tubing and brazed spots may corrode.)
 - Where volatile flammable gas like thinner or gasoline is used.
 - Where machines generating electromagnetic waves exist. (Control system may malfunction.)
 - Where the air contains high levels of salt such as air near the ocean and where voltage fluctuates a lot (e.g. in factories). Also in vehicles or vessels.
- When selecting the installation site, use the supplied paper pattern for installation.

Accessories

Check if the following accessories are included with your unit.

 Metal clamp 1 pc.	 Paper pattern for installation 1 pc.	 Drain hose 1 pc.
Insulation for fitting 1 each		 Washer for hanging bracket 8 pcs.
 for gas pipe	 for liquid pipe	
FH(Y)B35•45 8 pcs. FH(Y)B60•71 12 pcs. FHYB100•125 16 pcs.	 Screws for duct flanges 1 set	 Screws for fixing the paper pattern for installation 6 pcs.
Other: installation and operation manual		

Screws for fixing panels are attached to the air inlet panel.

Optional accessories

- Select an optional remote controller according to customer request and install in an appropriate place. Refer to catalogues and technical literature for selecting a suitable remote controller.
- When installing bottom suction: air inlet panel and canvas connection for the air inlet panel.

For the following items, take special care during construction and check after installation is finished

Tick when checked

- Is the indoor unit fixed firmly?
The unit may drop, vibrate or make noise.
- Is the gas leak test finished?
It may result in insufficient cooling.
- Is the unit fully insulated?
Condensate water may drip.
- Does drainage flow smoothly?
Condensate water may drip.
- Does the power supply voltage correspond to that shown on the name plate?
The unit may malfunction or components may burn out.
- Are wiring and piping correct?
The unit may malfunction or components may burn out.
- Is the unit safely grounded?
Dangerous at electric leakage.
- Is the wiring size according to specifications?
The unit may malfunction or components may burn out.
- Is nothing blocking the air outlet or inlet of either the indoor or outdoor units?
It may result in insufficient cooling.
- Are refrigerant piping length and additional refrigerant charge noted down?
The refrigerant charge in the system might not be clear.
- Are the air filters fixed properly (when installing with rear duct)?
Maintenance of the air filters can be impossible.

Notes to the installer

- Read this manual carefully to ensure correct installation. Be sure to instruct the customer how to properly operate the system and show him/her the enclosed operation manual.
- Explain to the customer what system is installed on the site. Be sure to fill out the appropriate installation specifications in the chapter "What to do before operation" of the operation manual.

SELECTING INSTALLATION SITE (SEE FIGURE 1 AND 2)

- 1. Select an installation site where the following conditions are fulfilled and that meets your customer's approval.**
- Where optimum air distribution can be ensured.
 - Where nothing blocks air passage.
 - Where condensate water can be properly drained.
 - Where the false ceiling is not noticeably on an incline.
 - Where sufficient clearance for maintenance and service can be ensured.
 - Where piping between indoor and outdoor units is possible within the allowable limit. (Refer to the installation manual of the outdoor unit.)
 - Keep indoor unit, outdoor unit, power supply wiring and transmission wiring at least 1 meter away from televisions and radios. This is to prevent image interference and noise in those electrical appliances.
(Noise may be generated depending on the conditions under which the electric wave is generated, even if 1 meter is kept.)

2. Use suspension bolts for installation. Check whether the ceiling is strong enough to support the weight of the indoor unit. If there is a risk, reinforce the ceiling before installing the unit.

- 1 Service space 300
- 2 Drain pipe
- 3 Power supply wiring port
- 4 Transmission wiring port
- 5 Maintenance drain outlet
- 6 Gas pipe
- 7 Liquid pipe

PREPARATIONS BEFORE INSTALLATION

1. Relation of ceiling opening to unit and suspension bolt position. (see figure 3)

Model	A	B
FH(Y)B35•45	700	750
FH(Y)B60•71	1000	1050
FHYB100•125	1400	1450

- 1 Indoor unit
- 2 Pipe
- 3 Suspension bolt pitch (x4)
- 4 Suspension bolt pitch distance

For installation, choose one of the possibilities as listed further.

Standard rear suction

See figure 6a

- 1 Ceiling surface
- 2 Ceiling opening
- 3 Service access panel (optional accessory)
- 4 Air filter
- 5 Air inlet duct
- 6 Duct service opening
- 7 Interchangeable plate

Installation with rear duct and duct service opening

See figure 6b

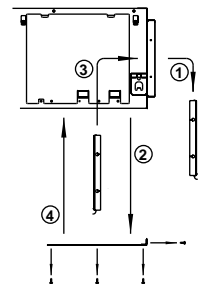
Installation with rear duct, no duct service opening

See figure 6c

NOTE

Before installation of the unit (in case of installation with duct, but no duct service opening): modify the position of the air filters.

- 1 Remove the air filter(s) at the outside of the unit
- 2 Remove the interchangeable plate
- 3 Install the air filter(s) from the inside of the unit
- 4 Reinstall the interchangeable plate.



Bottom suction

See figure 7a

NOTE

The unit can be used with bottom suction by replacing the interchangeable plate by the air filter holding plate.

- 1 air filter holding plate with air filter(s)
- 2 interchangeable plate
- 3 small bottom plate

Mounting the air inlet panel with a canvas connection

See figure 7b

- 1 Ceiling surface
- 2 Ceiling opening
- 3 Air inlet panel (Optional accessory)
- 4 Indoor unit (Back side)
- 5 Canvas connection for air inlet panel (Optional accessory)

Model	A
FH(Y)B35•45	760
FH(Y)B60•71	1060
FHYB100•125	1460

Mounting the air inlet panel directly

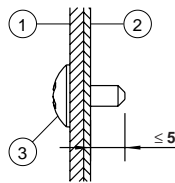
See figure 7c

NOTE

When installing an air inlet duct, select fixing screws that shall stick out maximum 5mm at the inside of the flange.

- 1 Air inlet duct
- 2 Inside of the flange
- 3 Fixing screw

This is to protect the air filter from damage during maintenance of the filter.



- For other installation than standard installation, contact your Daikin dealer for details.

2. The fan speed for this indoor unit is preset to provide standard external static pressure.

If higher or lower external static pressure is required, reset the external static pressure by changing the initial setting from the remote controller.

Refer to "Setting of static pressure".

3. Install the suspension bolts.

(Use M10 size bolt for the suspension bolt.) Use anchors for existing ceilings, and a sunken insert, sunken anchors or other field supplied parts for new ceilings to reinforce the ceiling in order to bear the weight of the unit.

Installation example

See figure 4

- 1 Anchor
- 2 Ceiling slab
- 3 Long nut or turn-buckle
- 4 Suspension bolt
- 5 Indoor unit

NOTE

All the above parts are field supplied.

INDOOR UNIT INSTALLATION

When installing optional accessories (except for the air inlet panel), read also the installation manual of the optional accessories. Depending on the field conditions, it may be easier to install optional accessories before the indoor unit is installed.

1. Install the indoor unit temporarily.

- Attach the hanger bracket to the suspension bolt. Be sure to fix it securely by using a nut and washer from the upper and lower sides of the hanger bracket (see figure 5).

- 1 Nut (field supply)
- 2 Washer for hanger bracket (supplied with the unit)
- 3 Tighten (double nut)

2. Check if the unit is horizontally levelled.

- Do not install the unit tilted. The indoor unit is equipped with a built-in drain pump and float switch. (If the unit is tilted against condensate flow, the float switch may malfunction and cause water to drip.)
- Check if the unit is levelled at all four corners with a water level or a water-filled vinyl tube as shown in figure 12.

- 1 Water level
- 2 Vinyl tube

3. Tighten the upper nut.

4. Fix the paper pattern for installation.

- The paper pattern for installation corresponds with the measurements of the ceiling opening. Consult the builder for details.
- Attach the paper pattern for installation to the unit with the attached screws as shown in figure 17.

The paper pattern for installation is marked for 3 types of ceiling openings. Read the notations carefully when installing.

- 1 Paper pattern for installation (supplied with the unit)
- 2 Screws for fixing the paper pattern for installation (supplied with the unit (6))

REFRIGERANT PIPING WORK

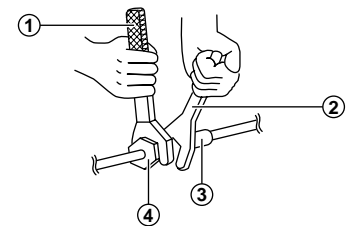
For refrigerant piping of outdoor unit, refer to the installation manual supplied with the outdoor unit.



All field piping must be provided by a licensed refrigeration technician and must comply with the relevant local and national codes.

- The outdoor unit is charged with refrigerant.
- Be sure to use both a spanner and torque wrench together when connecting or disconnecting pipes to/from the unit.

- 1 Torque wrench
- 2 Spanner
- 3 Piping union
- 4 Flare nut



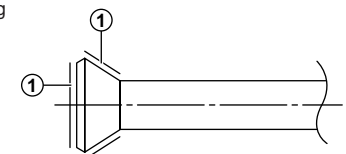
- Refer to Table 1 for the dimensions of flare nut spaces and the appropriate tightening torque. (Overtightening may damage the flare and cause leaks.)

Table 1

Pipe gauge	Tightening torque	Flare dimension A (mm)	Flare shape
Ø 6.4	1420~1720 N•cm (144~176 kgf•cm)	8.3~8.7	
Ø 9.5	3270~3990 N•cm (333~407 kgf•cm)	12.0~12.4	
Ø 12.7	4950~6030 N•cm (504~616 kgf•cm)	15.4~15.8	
Ø 15.9	6180~7540 N•cm (630~770 kgf•cm)	18.6~19.0	
Ø 19.1	9720~11860 N•cm (990~1210 kgf•cm)	22.9~23.3	

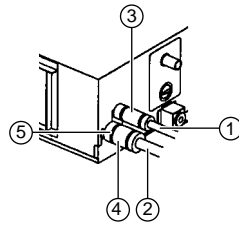
- When connecting the flare nut, coat the flare both inside and outside with refrigerating machine oil and initially tighten by hand 3 or 4 turns before tightening firmly.

- 1 Coat here with refrigerating machine oil



- Check the pipe connector for gas leaks

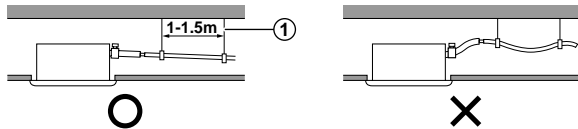
- 1 Liquid pipe
- 2 Gas pipe
- 3 Insulation for fitting of liquid line (supplied with the unit)
- 4 Insulation for fitting of gas line (supplied with the unit)
- 5 Clamps (use 2 clamps per insulation)



DRAIN PIPING WORK

Rig the drain piping as shown in the figure and take measures against condensation. Improperly rigged piping could lead to leaks and eventually wet furniture and belongings.

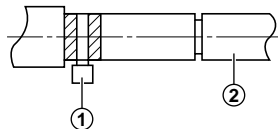
- 1 Hanging bar



1. Install the drain pipes.

- Keep piping as short as possible and slope it downwards so that air may not remain trapped inside the pipe.
- Keep pipe size equal to or greater than that of the connecting pipe (Vinyl pipe of 25mm nominal diameter and 32mm outer diameter).
- Use the supplied drain hose and metal clamp. Tighten the clamp firmly.

- 1 Metal clamp
- 2 Drain hose



- Insulate the drain hose inside the building.
- If the drain hose cannot be sufficiently set on a slope, fit the hose with drain raising piping (field supply).

HOW TO PERFORM PIPING (see figure 8)

- 1 Ceiling slab
- 2 Hanging bar
- 3 Adjustable range
- 4 Drain hose (supplied with the unit)
- 5 Metal clamp (supplied with the unit)
- 6 Drain raising pipe (field supply)

- 1 Connect the drain hose to the drain raising pipes, and insulate them.
- 2 Connect the drain hose to the drain pipe on the indoor unit, and tighten it with the metal clamp.

Installation	A
Rear suction installation	275
When canvas duct is installed	350-530
When air inlet panel is directly installed	275

- To ensure a downward slope of 1:100, install hanging bars every 1 to 1.5m.
- If unifying multiple drain pipes, install the pipes as shown in figure 9.

- 1 Multiple drain piping

2. After piping work is finished, check if drainage flows smoothly.

- Open the water inlet lid, add approximately 1l of water gradually and check the drainage flow (see figure 10).

- 1 Water inlet
- 2 Portable pump
- 3 Water inlet lid
- 4 Bucket (adding water from water inlet)
- 5 Drain outlet for maintenance (with rubber drain plug)
- 6 Refrigerant pipes

NOTE

The drain outlet is only used to discharge water if the drain pump is not used or before maintenance. Gently put in and out the drain plug. Excessive force may deform the drain socket of the drain pan.

WHEN ELECTRIC WIRING WORK IS FINISHED

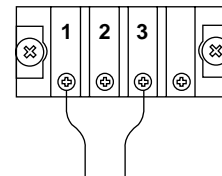
Check drainage flow during COOL running, explained in chapter "TEST OPERATION".

WHEN ELECTRIC WIRING WORK IS NOT FINISHED

- Remove the switch box cover and connect the single-phase power supply and the remote controller to the terminals. (Refer to chapter "ELECTRIC WIRING WORK" for switch box attachment/detachment) (Refer to figure 11a and 11b)

- 1 Switch box cover
- 2 Power supply wiring port
- 3 Transmission wiring port
- 4 Wiring diagram
- 5 Switch box
- 6 Plastic clamp
- 7 Remote controller wiring
- 8 Terminal board for unit transmission wiring
- 9 Power supply wiring
- 10 Emergency switch
- 11 Power supply terminal board
- 12 Earth screw

- Remove the switch box cover and change the emergency switch on the PC board of the indoor unit from "NORMAL" to "EMERGENCY". Be sure to change the switch to "EMERGENCY" before turning on the power.
- Connect the single-phase power supply (50Hz; 230V) to connections 1 and 3 (see figure below) on the power supply terminal board and confirm drain operation.
- Be aware that the fan will turn during the operation.
- After confirming drainage, turn off the power and be sure to change the emergency switch back to "NORMAL".



ELECTRIC WIRING WORK

General instructions

- All field supplied parts and materials and electric works must conform to local codes.
- Use copper wire only.
- Follow the "Wiring diagram" attached to the switch box cover to wire the outdoor unit, indoor units and the remote controller. For details on hooking up the remote controller, refer to the "Installation manual of the remote controller".
- All wiring must be performed by an authorized electrician.
- A circuit breaker capable of shutting down power supply to the entire system must be installed.

Electrical characteristics

Model	Hz	Volts	Voltage range
FH(Y)B35-125	50	230	min.198-max.264

NOTE

For details, refer to "Electrical data".

Specifications for field supplied wires

Connection	Wire	Size
between indoor units	H05VV-U4G	2mm ²
unit-remote controller	Shielded wire (2)	0.75-1.25mm ²

NOTE

For details, refer to the chapter "Wiring example".

Use H07RN-F as wiring between indoor units in case of no protection.

Allowable length of transmission wiring between the indoor unit and the remote controller is max. 500m.

WIRING EXAMPLE AND HOW TO SET THE REMOTE CONTROLLER

How to connect wiring

From the outside of the unit

Remove the switch box cover as shown in figure 11b, and make the connections.

From the inside of the unit

Remove the small bottom plate and the interchangeable plate (in case of rear suction) or the air filter holding plate (in case of bottom suction). Lower the switch box as shown in figure 11c. Put the wires through the wiring ports of the switch box cover before connecting them.

- 1 Small bottom plate
- 2 Air filter holding plate
- 3 Switch box
- 4 Interchangeable plate
- 5 Square hole (covered by the switch box cover)

PRECAUTIONS

- 1 Observe the notes mentioned below when wiring to the power supply terminal board.
 - Do not connect wires of different gauge to the same power supply terminal. (Looseness in the connection may cause overheating.)
 - When connecting wires of the same gauge, connect them according to the figure.



- 2 Do not connect wires of different gauge to the same grounding terminal. Looseness in the connection may deteriorate the protection.

- 3 Remote controller cords and wires connecting the units should be located at least 50mm away from power supply wiring. Not following this guideline may result in malfunction due to electrical noise.
- 4 For the remote controller wiring, refer to the "Installation manual of the remote controller" supplied with the remote controller.
- 5 Never connect the power supply wiring to the terminal board for transmission wiring. This mistake could damage the entire system.
- 6 Use only specified wires and tightly connect wires to the terminals. Be careful that wires do not place external stress on the terminals. Keep wiring in neat order so that they do not obstruct other equipment such as popping open the switch box cover. Make sure the cover closes tight. Incomplete connections could result in overheating, and in the worse case, electric shock or fire.
- 7 Ground the shield of the shield wire of the remote controller cord to the earth screw inside the switch box.

WIRING EXAMPLE

- Fit the power supply wiring of each system with a switch and fuse as shown in figure 14.
 - 1 Power supply
 - 2 Main switch
 - 3 Fuse
 - 4 Outdoor unit
 - 5 Indoor unit
 - 6 Remote controller (optional accessory)

COMPLETE SYSTEM EXAMPLE (3 systems)

When using 1 remote controller for 1 indoor unit (normal operation) (see figure 14)

For group control (see figure 16)

Use with 2 remote controllers (see figure 15)

NOTE

- It is not necessary to designate an indoor unit address when using group control. The address is automatically set when the power is activated.

PRECAUTIONS

1. A single switch can be used to supply power to units on the same system. However, branch switches and branch circuit breakers must be selected carefully.
2. For a group control remote controller, choose the remote controller that suits the indoor unit which has the most functions.
3. Do not ground the equipment on gas pipes, water pipes, lightning rods or crossground with telephones. Improper grounding could result in electric shock.

FIELD SETTING

Field setting must be made from the remote controller in accordance with the installation condition.

- Setting can be made by changing the "Mode number", "First CODE No." and "SECOND CODE No".
- For setting and operation, refer to the "FIELD SETTING" in the installation manual of the remote controller.

Setting of static pressure

- Change the SECOND CODE No. according to Table 3 depending on the resistance of the connection duct.

External static pressure	Mode No.	FIRST CODE No.	SECOND CODE No.
Standard: 49 Pa (5mm H ₂ O)	13 (23)	6	01
High static pressure: 88/108 Pa (9/11mm H ₂ O)			02
Low static pressure: 20 Pa (2mm H ₂ O) (NOTE)			03

NOTE

Low static pressure is only able to set for FH(Y)B35•45•60, FHYB71.

The unit is factory set for standard static pressure (SECOND CODE No. 01) at the time of skipping.

Setting air filter sign

- Remote controllers are equipped with liquid crystal display air filter signs to display the time to clean air filters.
- Change the SECOND CODE No. According to Table 4 depending on the amount of dirt or dust in the room. (SECOND CODE No. Is factory set to "01" for filter contamination-light.)

Setting	Spacing time of display air filter sign (long life type)	Mode No.	FIRST CODE No.	SECOND CODE No.
Air filter contamination-light	Approx. 2500 hrs	10 (20)	0	01
Air filter contamination-heavy	Approx. 1250 hrs			02

Control by 2 Remote Controllers (Controlling 1 indoor unit by 2 remote controllers)

- When using 2 remote controllers, one must be set to "MAIN" and the other to "SUB".

MAIN/SUB CHANGEOVER

1. Insert a wedge-head screwdriver into the recess between the upper and lower part of the remote controller and, working from the 2 positions, pry off the upper part. (see figure 13)
(The remote controller PC board is attached to the upper part of the remote controller.)
2. Turn the main/sub changeover switch on one of the two remote controller PC boards to "S". (see figure 18)
(Leave the switch of the other remote controller set to "M".)
 - 1 Remote controller PC board
 - 2 Factory setting
 - 3 Only one remote controller needs to be changed

INSTALLATION OF THE DECORATION PANEL

Refer to the installation manual attached to the decoration panel.

After installing the decoration panel, ensure that there is no space between the unit body and decoration panel.

TEST OPERATION

Refer to the section of "FOR THE FOLLOWING ITEMS, TAKE SPECIAL CARE DURING CONSTRUCTION AND CHECK AFTER INSTALLATION IS FINISHED".

- After finishing the construction of refrigerant piping, drain piping, and electric wiring, conduct test operation accordingly to protect the unit.
 1. Open the gas side stop valve.
 2. Open the liquid side stop valve.
 3. Electrify crank case heater for 6 hours. (Not necessary for the straight cooling type)
 4. Set to cooling operation with the remote controller and start operation by pushing ON/OFF button.
 5. Press Inspection/Test Operation button 4 times and operate at Test Operation mode for 3 minutes.
 6. Press Inspection/Test Operation button and operate normally.
 7. Confirm function of unit according to the operation manual.

PRECAUTIONS

In case something is wrong with the unit and it does not operate, refer to the malfunction diagnosis label attached to the unit.

WIRING DIAGRAM

	: FIELD WIRING
	: TERMINAL
	: CONNECTOR
	: WIRE CLAMP
	: PROTECTIVE EARTH (SCREW)

BLK	: BLACK
BLU	: BLUE
BRN	: BROWN
GRN	: GREEN
GRY	: GRAY
ORG	: ORANGE
RED	: RED
WHT	: WHITE
YLW	: YELLOW

33H	.....	FLOAT SWITCH
A1P	.....	PRINTED CIRCUIT BOARD
A2P	.....	PRINTED CIRCUIT BOARD (TRANSFORMER 220-240V/16V)
C1R	.....	CAPACITOR (FAN MOTOR)
F1T	.....	THERMAL FUSE 152°C (M1F EMBEDDED)
F1U	.....	FUSE (250V/5A)
H1P,H2P	.....	LIGHT EMITTING DIODE (SERVICE MONITOR - GREEN)
M1F	.....	MOTOR (FAN)
M1P	.....	MOTOR (DRAIN PUMP)
R1T	.....	THERMISTOR (AIR)
R2T	.....	THERMISTOR (COIL)
RyC	.....	MAGNETIC RELAY (OUTDOOR UNIT COMPRESSOR)
RyF1-4	.....	MAGNETIC RELAY (FAN)
RyP	.....	MAGNETIC RELAY (DRAIN PUMP)
SS1	.....	SELECTOR SWITCH (EMERGENCY)
X1M,X2M	.....	TERMINAL STRIP
RC	.....	SIGNAL RECEIVER CIRCUIT
TC	.....	SIGNAL TRANSMISSION CIRCUIT

ADAPTOR FOR WIRING

RyC,RyF MAGNETIC RELAY

CONNECTOR FOR OPTIONAL PARTS

X30A	.....	CONNECTOR (INTERFACE ADAPTOR FOR SKY AIR SERIES)
X33A	.....	CONNECTOR (ADAPTOR FOR WIRING)
X35A	.....	CONNECTOR (GROUP CONTROL ADAPTOR)

WIRED REMOTE CONTROLLER

BS1	.....	ON/OFF BUTTON
BS2	.....	TIMER MODE START/STOP BUTTON
BS3,BS8	.....	PROGRAMMING TIME BUTTON
BS4,BS9	.....	TEMPERATURE SETTING BUTTON
BS6	.....	OPERATION MODE SELECTOR BUTTON
BS7	.....	TIMER ON/OFF BUTTON
BS11	.....	FAN SPEED CONTROL BUTTON
BS12	.....	INSPECTION/TEST OPERATION BUTTON
BS14	.....	FILTER SIGN RESET BUTTON
H1P	.....	LIGHT EMITTING DIODE (SERVICE MONITOR - RED)
LCD	.....	LIQUID CRYSTAL DISPLAY
SS1	.....	SELECTOR SWITCH (MAIN/SUB)

WIRED REMOTE CONTROLLER	:
DETAILS OF WIRED REMOTE CONTROLLER	:
ADAPTOR FOR WIRING	:
TERMINALS FOR OPERATION INDICATOR	:
FAN OPERATION	:
COMPRESSOR OPERATION	:
SWITCH BOX	:

NOTES

1. WHEN USING THE CENTRAL REMOTE CONTROLLER, SEE MANUAL FOR CONNECTION TO THE UNIT.
2. THE REMOTE CONTROLLER MODEL VARIES ACCORDING TO THE COMBINATION SYSTEM. SEE TECHNICAL MATERIALS AND CATALOGS, ETC. BEFORE CONNECTING.
3. GROUND THE SHIELD OF THE REMOTE CONTROLLER CORD TO THE INDOOR UNIT.

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