

**DAIKIN**

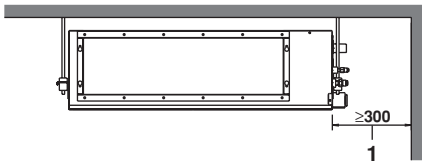


# INSTALLATION MANUAL

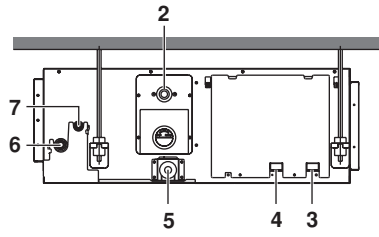
## Split System air conditioners

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FHYBP100B8V1  
FHYBP125B8V1

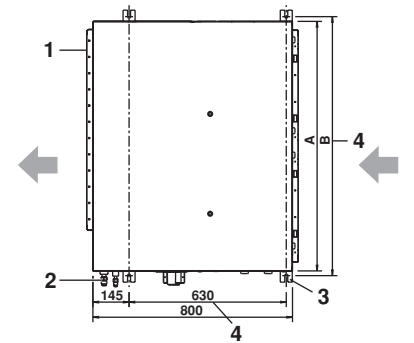
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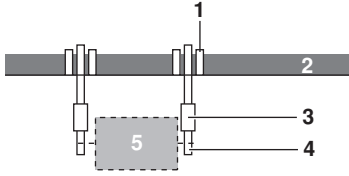
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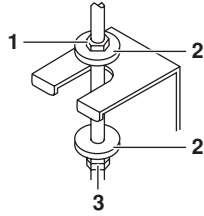
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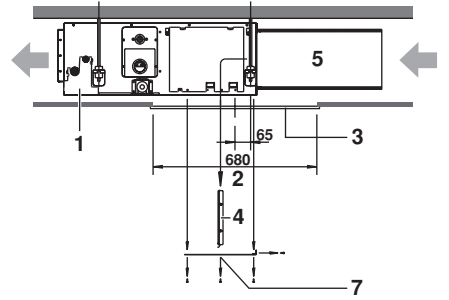
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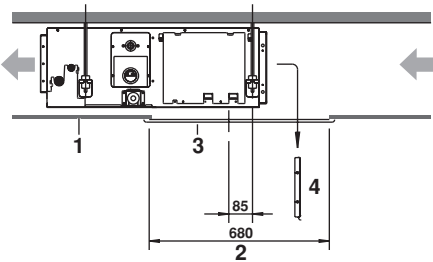
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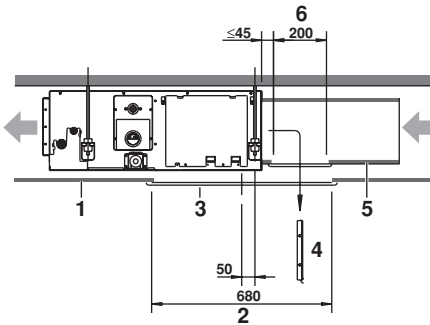
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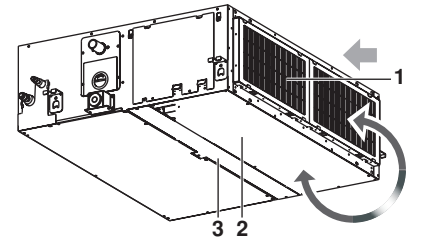
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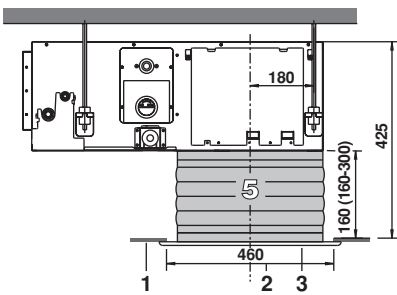
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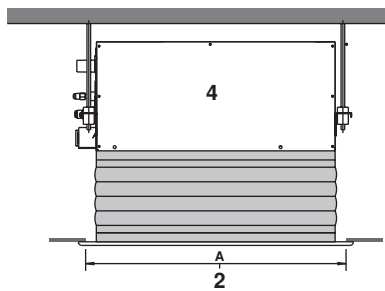
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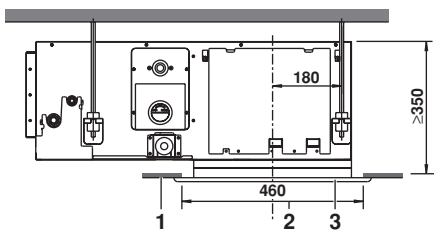
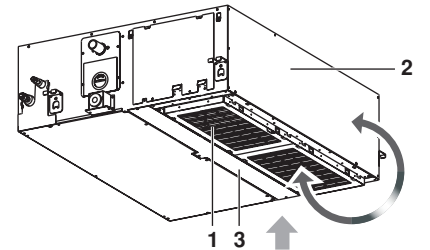
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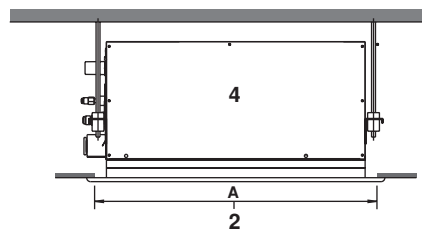
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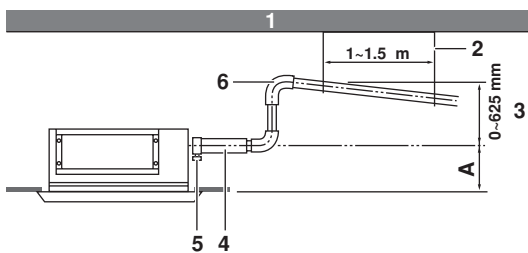
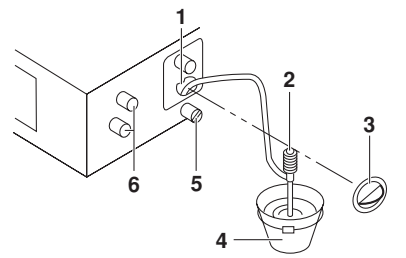
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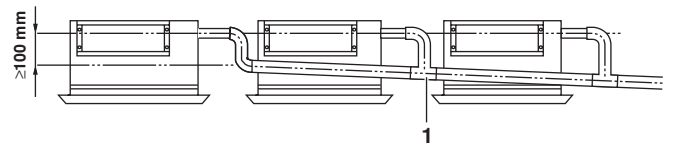
7c



10



8



9

CE - DECLARACION-DE-CONFORMIDAD  
CE - DICHIARAZIONE-DE-CONFORMITA  
CE - DECLARATION-DE-CONFORMITE  
CE - CONFORMITEITS/VERKLARING  
CE - DECLARACIÓN-DE-CONFORMIDAD  
CE - ZARBIENJE-O-COOTBECTBIM  
CE - OPEYDELSERKLERING  
CE - FÖRSÄKRAN-OM-ÖVERENSTÄMMELSE  
CE - IZJAVA-O-USKLABENOSTI  
CE - ILMUOTUS-YHDENMUUKAISLUDESTA  
CE - PROHLÁŠENÍ-O-SHOĐĚ  
CE - ERKLÄRUNG OMSÄMVAR  
CE - ILMOITUS-YHDENMUUKAISLUDESTA  
CE - DEKLARACJA-ZGODNOSCI  
CE - PROHLÁŠENÍ-O-SHOĐĚ  
CE - IZJAVA O SKLADNOSTI  
CE - VASTAVUSEKLARACIJA  
CE - ATBILSTĪBAS-DEKLARĀCIJA  
CE - VYHLÁŠENIE-ZHODY  
CE - UYUMLULUK-BİLDİRİSİ  
CE - DEKLARACIJA-3A-CЪOTBECTBE  
CE - UYUMLULUK-BİLDİRİSİ

**Daikin Europe N.V.**

- 01 (68) déclare sous sa seule responsabilité que le air conditioning models to which this declaraton relates;
- 02 (69) erklärt nur seine alleinige Verantwortung dafür, dass die Klimageräte für, die diese Erklärung bestätigen ist;
- 03 (70) déclare sous sa seule responsabilité que les appareils d'air conditionné visés par la présente déclaration;
- 04 (71) verklaart hierbij op eigen exclusieve verantwoordelijkheid dat de airconditioning units waarop deze verklaring betrekking heeft;
- 05 (72) declara bajo su única responsabilidad que los modelos de aire acondicionado a los cuales hace referencia la declaración;
- 06 (73) declara sotto sua responsabilità che i condizionatori modello A cui è riferita questa dichiarazione;
- 07 (74) являюсь единственным лицом, которое несет ответственность, что продукция, описанная в данной заявлении, соответствует тем характеристикам, которые указаны в заявлении;
- 08 (75) заявляю исключительно под свою ответственность, что модели кондиционеров воздуха, к которым относятся настоящие заявления;
- 10 (86) erklærer under enansvar, at klimaanlægsmødelne, som denne deklaration vedrører;
- 11 (87) deklarerer i egen regi om vurderingsvirgi, at luftkonditioneringsmodellerne som berøres af denne deklaration inderbår at;
- 12 (88) erklærer et fuldstændigt ansvar for at de luftkonditioneringsmodellerne som berøres af denne deklaration inderbær at;
- 13 (89) ilmoittaa yksinomaan omalla vastuullaan, että läänän ilmoituksen varoituksella ilmoitettuihin läänneihin;
- 14 (90) prohlásuje ve své plné odpovědnosti, že modely klimatizace, k nimž se tato prohlášení vztahuje;
- 15 (91) izjavljuje pod svojimi vsemimi odgovornostmi, da su modeli klima uređaja na koje se ova izjava odnosi;
- 16 (92) lielas šķērsšāģē lūdzājam klientiem, hopy a klimaatbeveidzās modeļiem, meklējam ē nylatkozai vionatkoz;
- 17 (93) deklaruję na własną odpowiedzialność, że modele klimatyzatorów, których dotyczy niniejsza deklaracja;
- 18 (94) deklarer pe proprie răspundere că aparatele de aer condițional la care se referă această declarație;

FHYBP71B8V1\*, FHYBP100B8V1\*, FHYBP125B8V1\*,  
FBQ35B8V1\*, FBQ05B8V1\*, FBQ60B8V1\*, FBQ71B8V3B\*, FBQ100B8V3B, FBQ125B8V3B\*, FBQ140B8V3B\*,  
\* = . . . 1, 2, 3, ..., 9

01 are in conformity with the following standard(s) or other normative document(s), provided that these are used in accordance with our instructions:

02 der/den følgende Norm(en) eller anden anden Normdokument oder -dokumenten entsprich/nensprechen, unter der Voraussetzung, daß sie gemäß unserer Anweisungen eingesetzt werden;

03 sont conformes à la/aux norme(s) ou autre(s) document(s) normal(s), pour autant qu'ils soient utilisés conformément à nos instructions;

04 conform de următoarele norme(n) și/căi alt(e) document(e) normative, în condiția ca acestea să fie utilizate în conformitate cu instrucțiunile;

05 están en conformidad con la(s) siguiente(s) norma(s) u otro(s) documento(s) norma(l)ivo(s), siempre que sean utilizados de acuerdo con nuestros instrucciones (al(s) siguiente(s) estándar(s) o otro(s) documento(s) a caractère normatiivo, a patto che vengano usati in conformità alle nostre istruzioni);

06 sono conformi all(i) seguente(i) standard(i) o al(tro) documento(i) a carattere normativo, a patto che vengano usati in conformità alle nostre istruzioni;

07 ovaj odgovor je toj(i) konkretno(i) propisano(i) i da/o su odgovor(i) konvencijom, oni(tiv) propisani/obni(eni) u propisanim/obnavnim odgovorima; je(š) konkretno; je(š).

08 erklærer under enansvar, at klimaanlægsmødelne, som denne deklaration vedrører;

09 erklærer i egen regi om vurderingsvirgi, at luftkonditioneringsmodellerne som berøres af denne deklaration inderbår at;

10 erklærer et fuldstændigt ansvar for at de luftkonditioneringsmodellerne som berøres af denne deklaration inderbær at;

11 ilmoittaa yksinomaan omalla vastuullaan, että läänän ilmoituksen varoituksella ilmoitettuihin läänneihin;

12 prohlásuje ve své plné odpovědnosti, že modely klimatizace, k nimž se tato prohlášení vztahuje;

13 izjavljuje pod svojimi vsemimi odgovornostmi, da su modeli klima uređaja na koje se ova izjava odnosi;

14 lielas šķērsšāģē lūdzājam klientiem, hopy a klimaatbeveidzās modeļiem, meklējam ē nylatkozai vionatkoz;

15 deklaruję na własną odpowiedzialność, że modele klimatyzatorów, których dotyczy niniejsza deklaracja;

16 erklærer under enansvar, at klimaanlægsmødelne, som denne deklaration vedrører;

17 deklarerer i egen regi om vurderingsvirgi, at luftkonditioneringsmodellerne som berøres af denne deklaration inderbår at;

18 erklærer et fuldstændigt ansvar for at de luftkonditioneringsmodellerne som berøres af denne deklaration inderbær at;

19 ilmoittaa yksinomaan omalla vastuullaan, että läänän ilmoituksen varoituksella ilmoitettuihin läänneihin;

20 prohlásuje ve své plné odpovědnosti, že modely klimatizace, k nimž se tato prohlášení vztahuje;

21 izjavljuje pod svojimi vsemimi odgovornostmi, da su modeli klima uređaja na koje se ova izjava odnosi;

22 lielas šķērsšāģē lūdzājam klientiem, hopy a klimaatbeveidzās modeļiem, meklējam ē nylatkozai vionatkoz;

23 deklaruję na własną odpowiedzialność, że modele klimatyzatorów, których dotyczy niniejsza deklaracja;

**EN60335-2-40,**

- 01 following the provisions of:
- 02 gemäß den Vorschriften der:
- 03 conformément aux stipulations des:
- 04 overeenkomstig de bepalingen van:
- 05 siguiendo las disposiciones de:
- 06 secondo le prescrizioni per:
- 07 je tipičan tzv. društveni tzv.;
- 08 de acordo com o previsto em:
- 09 в соответствии с положениями:
- 10 under tillagelse af bestemmelserne i:
- 11 enligt villkoren i:
- 12 gilt i henhold til bestemmelserne i:
- 13 noudattain määräyksiä:
- 14 szerzői előírások, kas vonatkozik:
- 15 prema odredbama:
- 16 kvoletni(zi):
- 17 zgodnie z postanowieniami Dyrektyj:
- 18 in urma prevederilor:
- 19 onder tillagelse af bestemmelserne i:
- 20 vastarfat i hendelet:
- 21 erklærer, med senere ændringer:
- 22 Direktiv, med foretagne ændringer.
- 23 Direktive, s tevarne korekture.
- 24 Direktivs un to papildinājumus.
- 25 Snemnica, kolo je izmijeneno.
- 26 Dəyişikliklər və tövsiyələrə uyğunlaşdırma.
- 27 Dřívějších, čim, sčou vromenomži.
- 28 Dřívějších, conform alterațiilor em.
- 29 Dřívějších, cu amendamentele respective.
- 30 conform celor stabilite în Dosarul tehnic de construcție DAIKIN TCF 016-DAIKIN TCF 021 și apreciate pozitiv de KEIMA în conformitate cu Certificatul 81728-KRO-EMC98-4341 + 2024351-QUA-EMC02-4565.
- 31 keima vilietoska tamgasi ar. Certifikat 81728-KRO-EMC98-4341 + 2024351-QUA-EMC02-4565.
- 32 KEIMA logo Serifikat 81728-KRO-EMC98-4341 + 2024351-QUA-EMC02-4565.
- 33 jukka on esitetty liikkessä Asiakasssa DAIKIN TCF 016-DAIKIN TCF 021 ja mikä KEIMA on hyväksynyt Serifikatoin 81728-KRO-EMC98-4341 + 2024351-QUA-EMC02-4565 mukaisesti.
- 34 jak bylo uvedeno v souboru technické konstrukce DAIKIN TCF 016-DAIKIN TCF 021 a pozitivně zjišeno KEIMA v soultoku s ovedením 81728-KRO-EMC98-4341 + 2024351-QUA-EMC02-4565.
- 35 kako je izloženo u Delovnoj olemkoj konstrukci DAIKIN TCF 016-DAIKIN TCF 021 i pozitivno ocijenjeno od strane KEIMA prema Certifikatu 81728-KRO-EMC98-4341 + 2024351-QUA-EMC02-4565.
- 36 alți DAIKIN TCF 016-DAIKIN TCF 021 misonzi konstruktivis dokumentacis abipin, a/zi KEIMA izpolnita a meglelešt alți 81728-KRO-EMC98-4341 + 2024351-QUA-EMC02-4565 iznituvinis izsuzni.
- 37 Uwaga \* zgodnie z archiwum dokumentacji konstrukcyjnej DAIKIN TCF 016-DAIKIN TCF 021, pozytywną opinią KEIMA i Świadectwem 81728-KRO-EMC98-4341 + 2024351-QUA-EMC02-4565.

- 01 Note \*
  - 02 Hinweis \*
  - 03 Remarque \*
  - 04 Bemerk \*
  - 05 Nota \*
  - 06 Nota \*
  - 07 Zbiruzion \*
  - 08 Nota \*
  - 09 Примячание \*
- 01 Note \* conform celor stabilite în Dosarul tehnic de construcție DAIKIN TCF 016-DAIKIN TCF 021 și apreciate pozitiv de KEIMA în conformitate cu Certificatul 81728-KRO-EMC98-4341 + 2024351-QUA-EMC02-4565.
- 02 Hinweis \* certifikatoin 81728-KRO-EMC98-4341 + 2024351-QUA-EMC02-4565.
- 03 Remarque \* tel que stipulé dans le Fichier de Construction Technique DAIKIN TCF 016-DAIKIN TCF 021 et jugé positivement par KEIMA conformément au Certificat 81728-KRO-EMC98-4341 + 2024351-QUA-EMC02-4565.
- 04 Bemerk \* zoals vermeld in het Technische Constructiebesluit DAIKIN TCF 016-DAIKIN TCF 021 en in orde bevonden door KEIMA overeenkomstig Certificaat 81728-KRO-EMC98-4341 + 2024351-QUA-EMC02-4565.
- 05 Nota \* tal como se expone en el Archivo de Construcción Técnica DAIKIN TCF 016-DAIKIN TCF 021 i juzgado positivamente por KEIMA según el Certificado 81728-KRO-EMC98-4341 + 2024351-QUA-EMC02-4565.
- 06 Nota \* delineat nel Fila Iscuzio de Construzio DAIKIN TCF 016-DAIKIN TCF 021 i giudicat pozitivamente de KEIMA secondo il Certificato 81728-KRO-EMC98-4341 + 2024351-QUA-EMC02-4565.
- 07 Zbiruzion \* omuk proizvodzitej stroj Apribz. Tevuzir, korrekcijz, DAIKIN TCF 016-DAIKIN TCF 021 i uopite tv. bzdno omio to KEIMA otupvno po tioritnoju 81728-KRO-EMC98-4341 + 2024351-QUA-EMC02-4565.
- 08 Nota \* tal como estabelecido no Ficheiro Técnico de Construção DAIKIN TCF 016-DAIKIN TCF 021 e com o parecer positivo de KEIMA de acordo com o Certificado 81728-KRO-EMC98-4341 + 2024351-QUA-EMC02-4565.
- 09 Примячание \* как указано в Досье технического описания DAIKIN TCF 016-DAIKIN TCF 021 и в соответствии с положительным решением KEIMA согласно Свидетельству 81728-KRO-EMC98-4341 + 2024351-QUA-EMC02-4565.

3PW25005-6A

DAIKIN EUROPE NV

Zandvoordestraat 300, B-8400 Oostende, Belgium

Jiro Tomita  
Director Quality Assurance  
Ostend, 1st of February 2007

**EN60335-2-40,**

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- 11 enligt villkoren i:
- 12 gilt i henhold til bestemmelserne i:
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- 28 Dřívějších, conform alterațiilor em.
- 29 Dřívějších, cu amendamentele respective.
- 30 conform celor stabilite în Dosarul tehnic de construcție DAIKIN TCF 016-DAIKIN TCF 021 și apreciate pozitiv de KEIMA în conformitate cu Certificatul 81728-KRO-EMC98-4341 + 2024351-QUA-EMC02-4565.
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- 34 jak bylo uvedeno v souboru technické konstrukce DAIKIN TCF 016-DAIKIN TCF 021 a pozitivně zjišeno KEIMA v soultoku s ovedením 81728-KRO-EMC98-4341 + 2024351-QUA-EMC02-4565.
- 35 kako je izloženo u Delovnoj olemkoj konstrukci DAIKIN TCF 016-DAIKIN TCF 021 i pozitivno ocijenjeno od strane KEIMA prema Certifikatu 81728-KRO-EMC98-4341 + 2024351-QUA-EMC02-4565.
- 36 alți DAIKIN TCF 016-DAIKIN TCF 021 misonzi konstruktivis dokumentacis abipin, a/zi KEIMA izpolnita a meglelešt alți 81728-KRO-EMC98-4341 + 2024351-QUA-EMC02-4565 iznituvinis izsuzni.
- 37 Uwaga \* zgodnie z archiwum dokumentacji konstrukcyjnej DAIKIN TCF 016-DAIKIN TCF 021, pozytywną opinią KEIMA i Świadectwem 81728-KRO-EMC98-4341 + 2024351-QUA-EMC02-4565.

3PW25005-6A

DAIKIN EUROPE NV

Zandvoordestraat 300, B-8400 Oostende, Belgium

Jiro Tomita  
Director Quality Assurance  
Ostend, 1st of February 2007

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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**


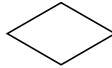






- Leave the unit inside its packaging until you reach the installation site. Where unpacking is unavoidable, use a sling of soft material or protective plates together with a rope when lifting, this to avoid damage or scratches to the unit.
- Refer to the installation manual of the outdoor unit for items not described in this manual.
- Caution concerning refrigerant series R407C:
  - The connectable outdoor units must be designed exclusively for R407C.
  - If outdoor units for R22, R410A are connected, the system will not work properly.
- Caution concerning refrigerant series R410A:
  - The connectable outdoor units must be designed exclusively for R410A.
  - If outdoor units for R22, R407C are connected, the system will not work properly.

**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.)
  - The unit should be installed at least 2.5 m from the floor.
  - 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.
- Do not install accessories on the casing directly. Drilling holes in the casing may damage electrical wires and consequently cause fire.

**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	
FHQ35+50 8 pcs. FHYBP71 12 pcs. FBQ60+71 12 pcs. FHYBP100+125 16 pcs. FBQ100~140 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	
<input type="checkbox"/>	Is the indoor unit fixed firmly? The unit may drop, vibrate or make noise.
<input type="checkbox"/>	Is the gas leak test finished? It may result in insufficient cooling.
<input type="checkbox"/>	Is the unit fully insulated? Condensate water may drip.
<input type="checkbox"/>	Does drainage flow smoothly? Condensate water may drip.
<input type="checkbox"/>	Does the power supply voltage correspond to that shown on the name plate? The unit may malfunction or components may burn out.
<input type="checkbox"/>	Are wiring and piping correct? The unit may malfunction or components may burn out.
<input type="checkbox"/>	Is the unit safely grounded? Dangerous at electric leakage.
<input type="checkbox"/>	Is the wiring size according to specifications? The unit may malfunction or components may burn out.
<input type="checkbox"/>	Is nothing blocking the air outlet or inlet of either the indoor or outdoor units? It may result in insufficient cooling.
<input type="checkbox"/>	Are refrigerant piping length and additional refrigerant charge noted down? The refrigerant charge in the system might not be clear. This to avoid confusion for future maintenance and serving of the installation.
<input type="checkbox"/>	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 interference in those electrical appliances.  
(Electric 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  $\geq 300$
- 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
35+50	700	750
60+71	1000	1050
100~140	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)

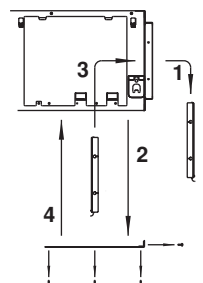
- 1 Ceiling surface
- 2 Ceiling opening
- 3 Service access panel (optional accessory)
- 4 Air filter
- 5 Air inlet duct
- 6 Duct service opening
- 7 Interchangeable plate

**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)

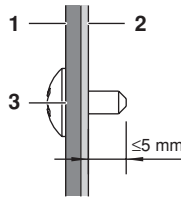
## Mounting the air inlet panel directly (See figure 7c)

- 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
35+50	760
60+71	1060
100~140	1460

**NOTE** When installing an air inlet duct, select fixing screws that shall stick out maximum 5 mm 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" on page 6.
  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.

Execute heat insulation work completely on both sides of the gas piping and the liquid piping. Otherwise, this can sometimes result in water leakage.

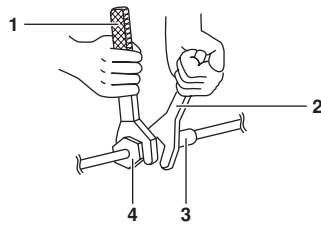
Before rigging tubes, check which type of refrigerant is used.



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

- Use a pipe cutter and flare suitable for the used refrigerant.
- If R407C or R410A refrigerant is used, apply ether or ester oil around the flare portions before connecting.
- To prevent dust, moisture or other foreign matters from entering the tube, either pinch the end or cover it with tape.
- Use copper alloy seamless pipes (ISO 1337).
- 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

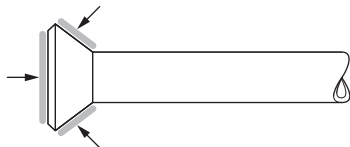


- Refer to [Table 1](#) for the dimensions of flare nut spaces and the appropriate tightening torque. (Overtightening may damage the flare and cause leaks.)

Table 1

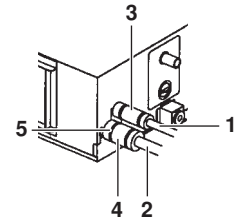
Pipe gauge	Tightening torque	Flare dimension A (mm)		Flare shape
		R407C	R410A	
Ø6.4	14.2~17.2 N•m (144~176 kgf•cm)	8.3~8.7	8.7~9.1	
Ø9.5	32.7~39.9 N•m (333~407 kgf•cm)	12.0~12.4	12.8~13.2	
Ø12.7	49.5~60.3 N•m (504~616 kgf•cm)	15.4~15.8	16.2~16.6	
Ø15.9	61.8~75.4 N•m (630~770 kgf•cm)	18.6~19.0	19.3~19.7	
Ø19.1	97.2~118.6 N•m (990~1210 kgf•cm)	22.9~23.3	—	

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



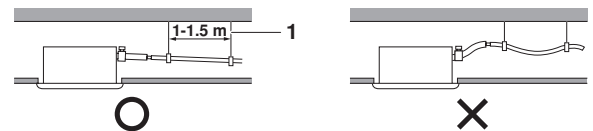
- Check the pipe connector for gas leaks, then insulate it.

- 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

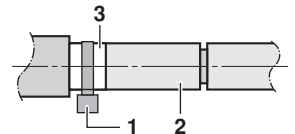
Rig the drain piping as shown in the figure and take measures against condensation. Improperly rigged piping could lead to leaks and eventually wet furniture and belongings.



- 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 25 mm nominal diameter and 32 mm outer diameter).
  - Use the supplied drain hose and metal clamp. Tighten the clamp firmly.

- 1 Metal clamp
- 2 Drain hose
- 3 White tape (field supply)



- 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 Hanger bar
- 3 Adjustable range
- 4 Drain hose (supplied with the unit)
- 5 Metal clamp (supplied with the unit)
- 6 Drain rising pipe (supplied with the unit)

- 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 1.5 m.
- 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 1 l 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

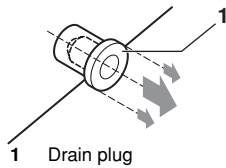


### Caution for drain socket

Do not remove the drain pipe plug. Water might leak out.

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.

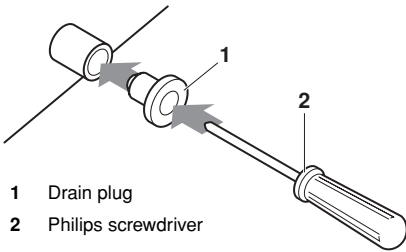
- Pulling out the plug



1 Drain plug

Do not wiggle the plug up and down

- Pushing in the plug



1 Drain plug  
2 Philips screwdriver

Set the plug and push it by using a Philips screwdriver

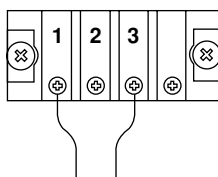
### When electric wiring work is finished

Check drainage flow during COOL running, explained in "Test operation" on page 7.

### When electric wiring work is not finished

#### For FHYBP only

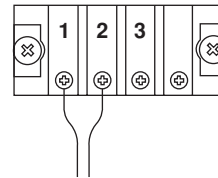
- Remove the switch box cover and connect the single-phase power supply and the remote controller to the terminals. (Refer to chapter "Electric wiring work" on page 5 for switch box attachment/detachment) (Refer to figure 11a and 11b)
- Remove the switch box cover and change the emergency switch on the 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 (50 Hz; 230 V) 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".



#### For FBQ only

- 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" on page 5 for switch box attachment/detachment) (Refer to figure 11a and 11b)
- Connect the single-phase power supply (50 Hz; 230 V) to connections 1 and 2 (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.

- 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



## 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

NOTE For details, refer to "Electrical data".



### Specifications for field wire

	Wire	Size (mm <sup>2</sup> )	Length
Between indoor units	H05VV-U4G <sup>(1),(2)</sup>	2.5	—
Unit-Remote controller	Sheathed wire (2 wire) <sup>(3)</sup>	0.75–1.25	Max. 500 m <sup>(4)</sup>

- (1) Shows only in case of protected pipes. Use H07RN-F in case of no protection.
- (2) Run transmission wiring between the indoor and outdoor units through a conduit to protect against external forces, and feed the conduit through the wall together with refrigerant piping.
- (3) Use double insulation wire for remote controller (sheath thickness: ≥1 mm) or run wires through a wall or conduit so that the user cannot come in contact with them.
- (4) This length shall be the total extended length in the system of the group control.



## 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 50 mm 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.

**NOTE**  The customer has the ability to select the remote controller thermistor.

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.

## 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 "Field setting" in the installation manual of the remote controller.

### Setting of static pressure

- Change the SECOND CODE No. according to [Table 2](#) depending on the resistance of the connection duct.

Table 2

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

**NOTE**  Low static pressure is only able to set for FHYBP71, FBQ35~71.

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

## 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 3 depending on the amount of dirt or dust in the room. (SECOND CODE No. Is factory set to "01" for filter contamination-light.)

Table 3

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

## Computerised control (forced off and on/off operation)

- Wire specifications and how to perform wiring
  - Connect the input wire (option) to connector X40A on the indoor PCB.

Wire specifications (to extend the optional wire):

Wire specification	Sheathed vinyl cord or cable (2 wire)
Gauge	0.75-1.25 mm <sup>2</sup>
Length	Max. 100 m
External terminal	Contact that can ensure the minimum applicable load of 15 V DC, 10 mA

(See figure 13)

- Input A (Input "ON" = closed contact)
- Actuation
  - The following table explains "forced off" and "on/off operations" in response to input A.

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

- How to select forced off and on/off operation
 

Change the second code No. according to the table below. (Second code No. is factory set to "01" for forced off.)

Setting	Mode No.	FIRST CODE No.	SECOND CODE No.
Forced off	12 (22)	1	01
ON/OFF operation			02

## 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" on page 2.

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

### NOTE



If the main power supply is turned off during operation, operation will restart automatically after the power turns back on again.

## 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
C1R	.....	CAPACITOR (FAN MOTOR)
F1T	.....	THERMAL FUSE 152°C (M1F EMBEDDED)
F1U	.....	FUSE (250 V/5 A) (only for FBQ35~60)
H1P,H2P,HAP	.....	LIGHT EMITTING DIODE (SERVICE MONITOR - GREEN)
M1F	.....	MOTOR (FAN)
M1P	.....	MOTOR (DRAIN PUMP)
R1T	.....	THERMISTOR (AIR)
R2T	.....	THERMISTOR (LIQUID)
R3T	.....	THERMISTOR (COIL) (only for FBQ35~60)
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
T1R	.....	TRANSFORMER (for FHYBP71~125 only)
TC	.....	SIGNAL TRANSMISSION CIRCUIT

## 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)

## ADAPTOR FOR WIRING

RyC,RyF	.....	MAGNETIC RELAY
---------	-------	----------------

## CONNECTOR FOR OPTIONAL PARTS

X30A	.....	CONNECTOR (INTERFACE ADAPTOR FOR SKY AIR SERIES) (only for FHYBP)
X33A	.....	CONNECTOR (ADAPTOR FOR WIRING)
X35A	.....	CONNECTOR (GROUP CONTROL ADAPTOR)
X40A	.....	CONNECTOR (REMOTE ON/OFF, FORCED OFF)
X60A,X61A	.....	CONNECTOR (INTERFACE ADAPTOR FOR SKY AIR SERIES) (only for FBQ)

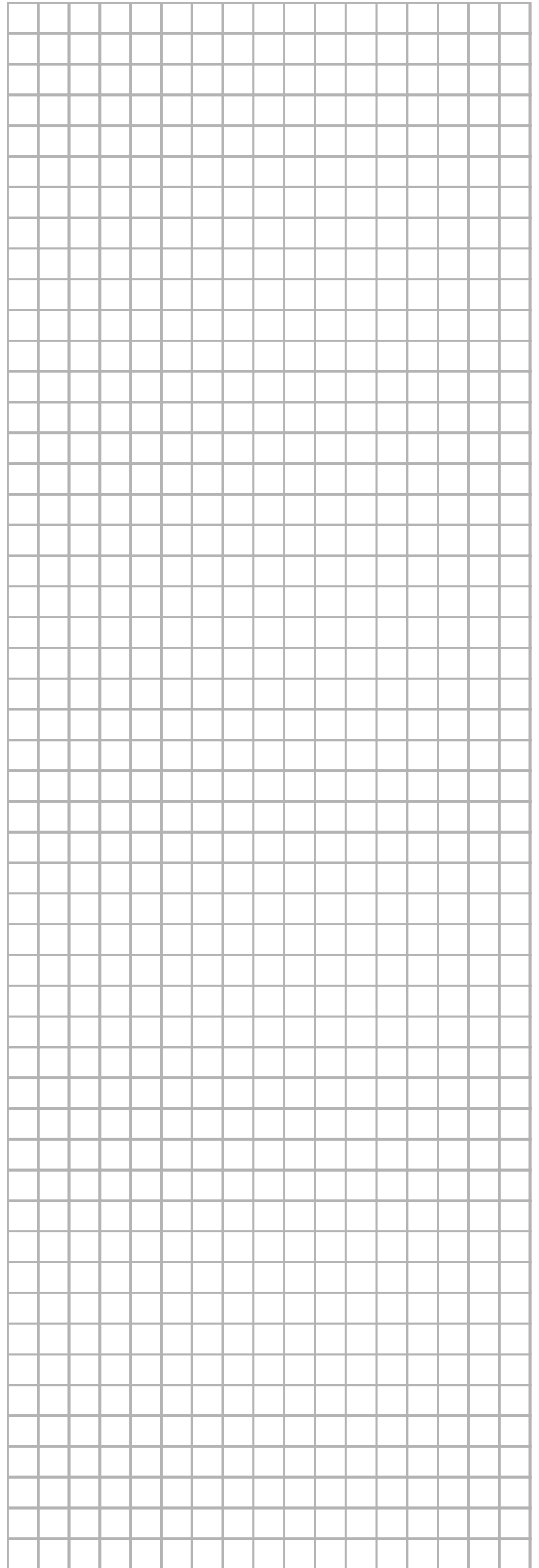
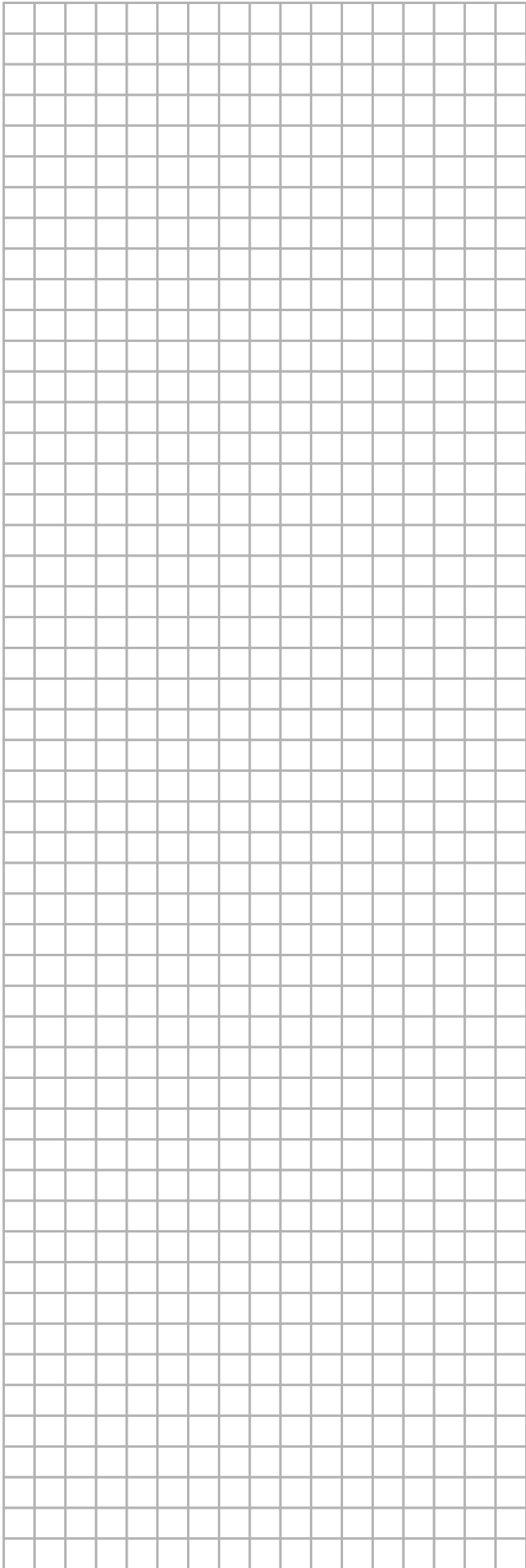
WIRED REMOTE CONTROLLER	:
DETAILS OF WIRED REMOTE CONTROLLER	:
ADAPTOR FOR WIRING	:
TERMINALS FOR OPERATION INDICATOR	:
FAN OPERATION	:
COMPRESSOR OPERATION	:
SWITCH BOX	:

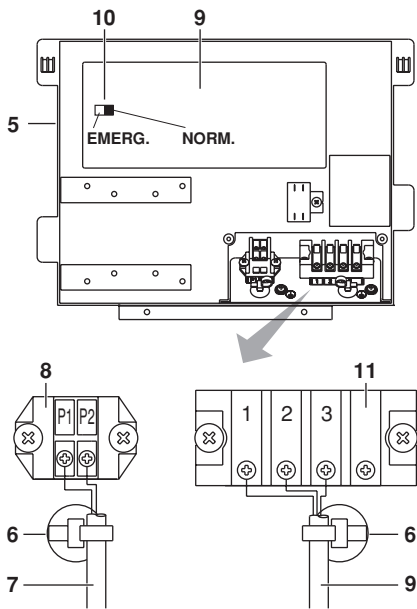
### NOTE



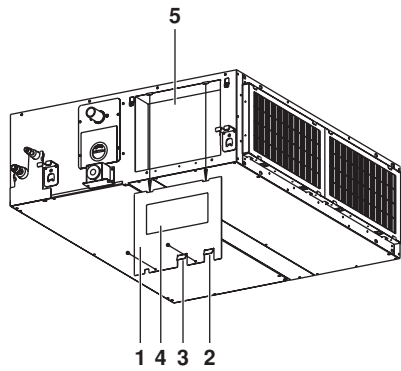
1. WHEN USING THE CENTRAL REMOTE CONTROLLER, SEE MANUAL FOR CONNECTION TO THE UNIT.
2. THE REMOTE CONTROLLER MODEL VARIES ACCORDING TO THE COMBINATION SYSTEM. SEE TECHNICAL MATERIALS AND CATALOGS, ETC. BEFORE CONNECTING.

# NOTES

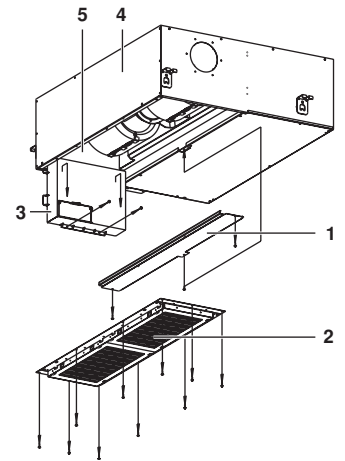




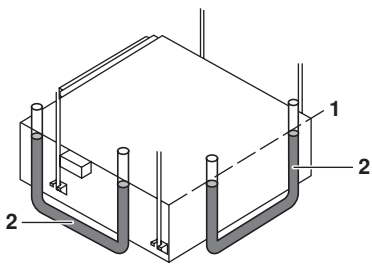
11a



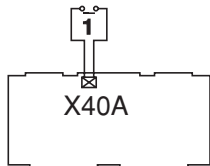
11b



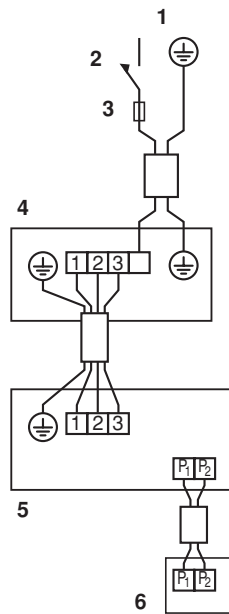
11c



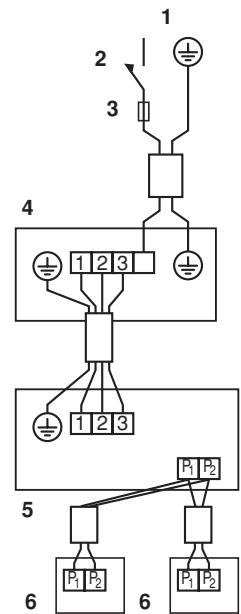
12



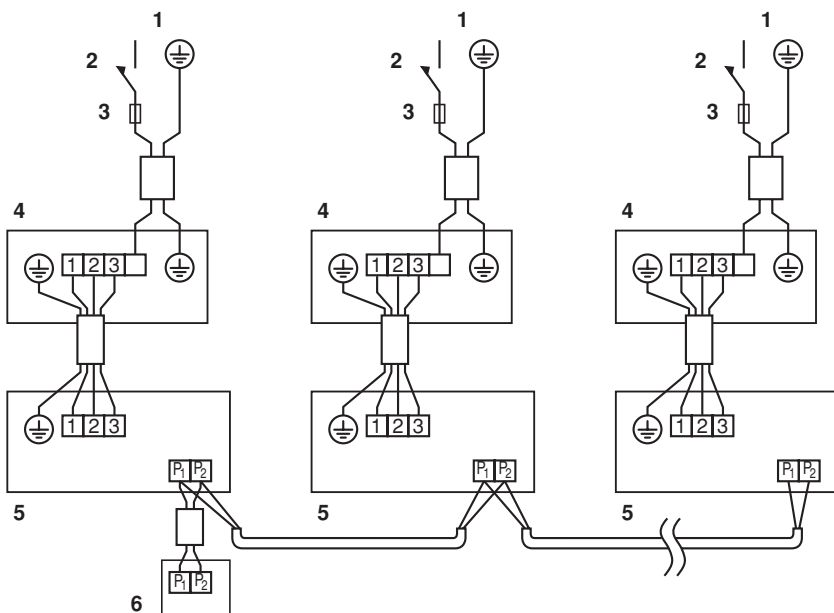
13



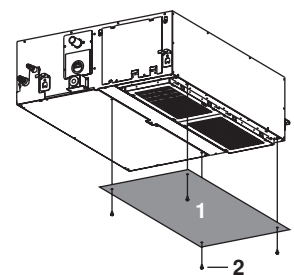
14



15



16



17

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