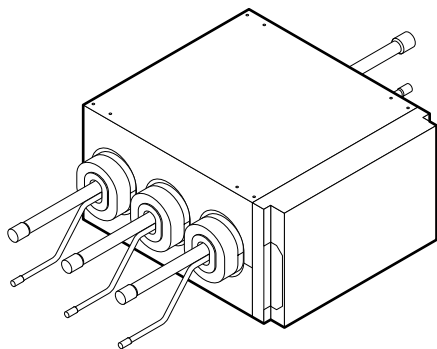




INSTALLATION MANUAL

BP (Branch Provider) Unit



Models

BPMKS967A2B

BPMKS967A3B

BPMKS967B2B

BPMKS967B3B

Installation manual
BP (Branch Provider) Unit

English

Installationsanleitung
BP-Gerät (Abzweigdose)

Deutsch

Manuel d'installation
Unité BP (Fournisseur de branchement)

Français

Montagehandleiding
BP (Branch Provider) Unit

Nederlands

Manual de instalación
Unidad BP (Proveedor de ramificaciones)

Español

Manuale d'installazione
Unità BP (Branch Provider)

Italiano

Εγχειρίδιο εγκατάστασης
Μονάδα BP (Παροχέας Διακλάδωσης)

Ελληνικά

Manual de Instalação
Unidade BP (Fornecedora de Ramificação)

Portugues

Руководство по установке
BP-блок (блок провайдера ветви)

Русский

CE - KONFORMITÄTSEKKLARUNG
CE - DECLARATION-DE-CONFORMITE
CE - CONFORMITEITSVERKLARING

CE - DECLARACION-DE-CONFORMIDAD
CE - DICHIARAZIONE-DI-CONFORMITA
CE - ΔΗΛΩΣΗ ΣΥΜΜΟΡΦΩΣΗΣ

CE - DECLARACIÓN-DE-CONFORMIDADE
CE - ЗАЯВЛЕНИЕ-О-СОПОБЕТСТВИИ
CE - OPTYLDSESESKLERING

CE - FÖRSÄKRAN-OM-ÖVERENSÄMMELSE
CE - ERKLÄRING OM-SÄMSVAR
CE - ILMOITUS-YHDENMUKAISUUDESTA
CE - PROHLÁŠENÍ O-SHODE

CE - IZJAVA-O-USKLABENOSTI
CE - MEGFELELŐSÉGI-NYILATKOZAT
CE - DEKLARACJA-ZGODNOSCI

CE - DECLARATION-DE-CONFORMITATE
CE - IZJAVA O SKLADNOSTI
CE - VASTAVUSDEKLARATSIION

CE - ДЕКЛАРАЦИЯ-ЗА-СОПОБЕТСТВМЕ
CE - АТІТКІТКІЕС-ДЕКЛАРАЦІА
CE - АТІЛІСТІБІБ-ДЕКЛАРАЦІА
CE - VYHLASENIE ZHODY

DAIKIN INDUSTRIES, LTD.

- 01 ㊦ declares under its sole responsibility that the air conditioning models to which this declaration relates:
02 ㊦ erklärt auf seine alleinige Verantwortung daß die Modelle der Klimaanlage für die diese Erklärung bestimmt ist:
03 ㊦ déclare sous sa seule responsabilité que les appareils d'air conditionné visés par la présente déclaration:
04 ㊦ verklaart hierbij op eigen exclusieve verantwoordelijkheid dat de airconditioning units waarop deze verklaring betrekking heeft:
05 ㊦ declare bajo su única responsabilidad que los modelos de aire acondicionado a los cuales hace referencia la declaración:
06 ㊦ dichiara sotto sua responsabilità che i condizionatori modello a cui è riferita questa dichiarazione:
07 ㊦ δηλώνει με αποκλειστική της ευθύνη ότι τα προϊόντα των κλιματιστικών συσκευών στα οποία αναφέρεται η παρούσα δήλωση:
08 ㊦ declare sob sua exclusiva responsabilidade que os modelos de ar condicionado a que esta declaração se refere:

BPMKS967A2B, BPMKS967A3B, BPMKS967B2B, BPMKS967B3B

- 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 folgenden Norm(en) oder einen anderen Normdokument oder dokumenten entsprich(t)ensprechen, unter der Voraussetzung, daß sie gemäß unseren Anweisungen eingesetzt werden:
03 sont conformes à la/aux norm(e)s ou autre(s) document(s) normatif(s), pour autant qu'ils soient utilisés conformément à nos instructions:
04 conform of volgende norm(en) of één of meer andere bindende documenten zijn, op voorwaarde dat ze worden gebruikt overeenkomstig onze instructies:
05 están en conformidad con la(s) siguiente(s) norma(s) u otro(s) document(s) normativo(s), siempre que sean utilizados de acuerdo con nuestras instrucciones:
06 sono conformi all(oi) seguente(i) standard(o) u altro(i) document(o) a carattere normativo, a patto che vengano usati in conformità alle nostre istruzioni:
07 είναι σύμφωνα με το(α) ακόλουθο(α) πρότυπο(α) ή άλλο έγγραφο(α) κανονισμών, υπό την προϋπόθεση ότι χρησιμοποιούνται σύμφωνα με τις οδηγίες μας:

EN60335-2-40,

- 01 following the provisions of:
02 gemäß den Vorschriften der:
03 conformément aux stipulations des:
04 overeenkomstig de bepalingen van:
05 seguindo las disposiciones de:
06 secondo le prescrizioni per:
07 με τη/την των διατάξεων των:
08 de acordo com o previsto em:

- 17 zgodnie z postanowieniami Dyrektyw:
18 in una previsione:
19 ob upostavenju dobod:
20 vastavalt rüetule:
21 suhtutakse käesoleva hoiatusega:
22 lakantis nusaoteni pöördpisi:
23 tsiviiljõu püstitas, kas indetikas:
24 odzwaiauc ustanoviena:

- 01 Note * as set out in the Technical Construction File **Daikin.TCF.015** and judged positively by **KEIMA** according to the Certificate **74736-KROEIC97-4957**.
02 Hinweis * wie in der Technischen Konstruktionsakte **Daikin.TCF.015** aufgeführt und von **KEIMA** positiv ausgedzeichnet gemäß Zertifikat **74736-KROEIC97-4957**.
03 Remarque * tel que stipulé dans le Fichier de Construction Technique **Daikin.TCF.015** et jugé positivement par **KEIMA** conformément au Certificat **74736-KROEIC97-4957**.
04 Bemerk * zoals vermeld in het Technische Constructie dossier **Daikin.TCF.015** en in orde beoornden door **KEIMA** overeenkomstig Certificat **74736-KROEIC97-4957**.
05 Nota * tal como se expone en el Archivo de Construcción Técnica **Daikin.TCF.015** y juzgado positivamente por **KEIMA** según el Certificado **74736-KROEIC97-4957**.
06 Nota * delineato nel File Tecnico di Costruzione **Daikin.TCF.015** e giudicato positivamente da **KEIMA** secondo il Certificato **74736-KROEIC97-4957**.
07 Σημείωση * όπως προορίζεται στο Αρχείο Τεχνικής Κonstrukτικής **Daikin.TCF.015** και κρίνεται θετικά από το **KEIMA** σύμφωνα με το Πρωτόκολλο **74736-KROEIC97-4957**.
08 Nota * tal como estabelecido no Ficheiro Técnico de Construção **Daikin.TCF.015** e com o parecer positivo de **KEIMA** de acordo com o Certificado **74736-KROEIC97-4957**.

- 09 ㊦ заверяет, исключительно под свою ответственность, что модели кондиционеров воздуха, к которым относится настоящее заявление:
10 ㊦ erklærer under enansvar, at klimaanlægsmodelerne, som denne deklaration vedrører:
11 ㊦ deklarerer i egenkap av huvudsaksvar, att luftkonditioneringsmodellerna som berörs av denna deklaration innebär att:
12 ㊦ erklærer at tillståndet anses av att de luftkonditioneringsmodeller som beröres av denna deklaration innebär att:
13 ㊦ ilmoittaa yksinomaan omalla vastuullaan, että tämän ilmoituksen tarkoitamat ilmastointilaitteiden mallit:
14 ㊦ prohlásuje ve své plné odpovědnosti, že modely klimatizace, k nimž se tato prohlášení vztahuje:
15 ㊦ izjavljuje pod jedinojivo vlastitom odgovornošću da su modeli klima uređaja na koje se ova izjava odnosi:
16 ㊦ teljes felelőssége tudatában kijelenti, hogy a klímaberendezés modellek, melyekre e nyilatkozat vonatkozik:

- 08 estão em conformidade com a(s) seguinte(s) norma(s) ou outro(s) documento(s) normativo(s), desde que estes sejam utilizados de acordo com as nossas instruções:
09 соответствуют следующим стандартам или другим нормативным документам, при условии их использования согласно нашим инструкциям:
10 overholder følgende standard(er) eller andelandre retningsreglerde dokument(er), brudsat at disse anvendes i henhold til vore instruktioner:
11 respektive utstilling är utförd i överensstämmelse med och följer följande standard(er) eller andra normgivande dokument, under förutsättning att användning sker i överensstämmelse med våra instruktioner:
12 respektive usly er i overensstemmelse med følgende standard(er) eller andre normgivende dokument(er), under brugsretning av at disse bruges i henhold til våre instrukser:
13 vastavalt seiraaven standarden ja muiden õhjeklietsten dokumentiten vastmukksia edellytäten, että niitä käytetään ohjeidemme mukaisesti:
14 za předpokladu, že jsou využívány v souladu s našimi pokyny, odpovídaj následujícím normám nebo normativním dokumentům:

Low Voltage 73/23/EEC
Machinery Safety 98/37/EC
Electromagnetic Compatibility 89/336/EEC *

- 01 Directies, als amended.
02 Direktiven, gemäß Änderung.
03 Directies, telles que modifiées.
04 Richtlijnen, zoals geamendard.
05 Directivas, según lo emendado.
06 Directive, come da modifica.
07 Οδηγίες, όπως έχουν τροποποιηθεί.
08 Directivas, conforme alteração em.

- 09 Директив, со всеми поправками.
10 Direktiver, med senere ændringer.
11 Direktiv, med foretagne ændringer.
12 Direktiv, med foretatte endringer.
13 Direktiivä, sellaisia kuin ne ovat muuttatuna.
14 v pätenä zneni.
15 Sihtmetas, kako je izmijenjeno.
16 irányelvek és módosítások rendelkezését.

- 17 z późniejszymi poprawkami.
18 Direktivtor, cu amendamentele respective.
19 Direktive, med foretagne ændringer.
20 Direktivd koos muudatustega.
21 Директивни, со творене измененија.
22 Direktý vose su paplýmáas.
23 Direktívas un to papildinájumus.
24 Snemica, v platnom zneni.

- 17 Uwaga * zgodnie z archiwem dokumentacji konstrukcyjną **Daikin.TCF.015**, pozytywną opinią **KEIMA** i świadectwem **74736-KROEIC97-4957**.
18 Notă * conform esei stabilite în Dosarul tehnic de construcție **Daikin.TCF.015** și apreciate pozitiv de **KEIMA** în conformitate cu Certificat **74736-KROEIC97-4957**.
19 Opomba * kol je dobljeno v tehnični mapi **Daikin.TCF.015** in odobreno s strani **KEIMA** v skladu s certifikatom **74736-KROEIC97-4957**.
20 Märkus * nagu on näidatud tehnilises dokumentatsioonis **Daikin.TCF.015** ja heaks kiidnud **KEIMA** järg vastavalt sertifikaadile **74736-KROEIC97-4957**.
21 Забелешка * както е записано в Архив за техническа конструкция **Daikin.TCF.015** и одобрено положително от **KEIMA** съгласно свидетелство **74736-KROEIC97-4957**.
22 Pastaba * kaip nurodyta Techninėje konstrukcijos bylose **Daikin.TCF.015** ir patvirtinta **KEIMA** pagal pažymimą **74736-KROEIC97-4957**.
23 Pzīmēs * ka noteikts tehniskajā dokumentācijā **Daikin.TCF.015**, atbilstoši **KEIMA** pozitīvajam lēmumam ko apliecina sertifikāts **74736-KROEIC97-4957**.
24 Poznamka * ako je to stanoveno u Štoreni tehnické konstrukcije **Daikin.TCF.015** a iadne posuđene **KEIMA** podľa Certifikatu **74736-KROEIC97-4957**.



Ch. Murata

Noboru Murata
Manager Quality Control Department
Shiga, 1st of Oct. 2005

DAIKIN INDUSTRIES, LTD.
Umeda Center Bldg., 4-12, Nakazaki-Nishi 2-chome,
Kita-ku, Osaka, 530-8323 Japan




Safety Precautions

- Read these Safety Precautions carefully to ensure correct installation.
- This manual classifies the precautions into WARNING and CAUTION.
Be sure to follow all the precautions below: they are all important for ensuring safety.




⚠ WARNING.....Failure to follow any of WARNING is likely to result in such grave consequences as death or serious injury.



⚠ CAUTION.....Failure to follow any of CAUTION may in some cases result in grave consequences.

- The following safety symbols are used throughout this manual:

 Be sure to observe this instruction.	 Be sure to establish an earth connection.	 Never attempt.
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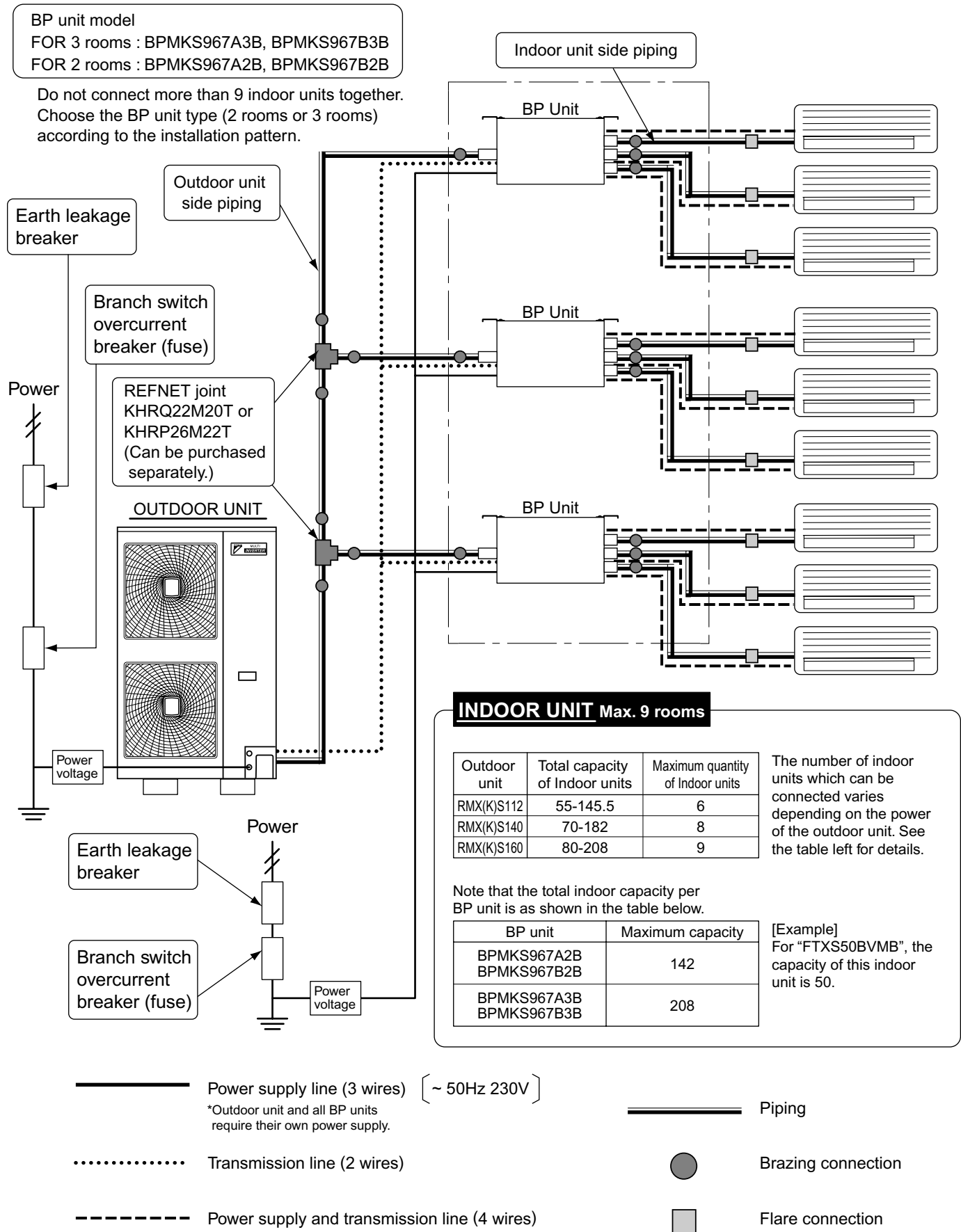
- After completing installation, test the unit to check for installation errors. Give the user adequate instructions concerning the use and cleaning of the unit according to the Operation Manual.

⚠ WARNING	
• Installation should be left to the dealer or another professional. Improper installation may cause water leakage, electrical shock, or fire.	
• Install the air conditioner according to the instructions given in this manual. Incomplete installation may cause water leakage, electrical shock, or fire.	
• Be sure to use the supplied or specified installation parts. Use of other parts may cause the unit to come to lose, water leakage, electrical shock, or fire.	
• Install the air conditioner on a solid base that can support the weight of the unit. An inadequate base or incomplete installation may cause injury in the event the unit falls off the base.	
• Electrical work should be carried out in accordance with the installation manual and the national electrical wiring rules or code of practice. Insufficient capacity or incomplete electrical work may cause electrical shock or fire.	
• Be sure to use a dedicated power circuit. Never use a power supply shared by another appliance.	
• For wiring, use a cable length enough to cover the entire distance with no connection. Do not use an extension cord. Do not put other loads on the power supply, use a dedicated power circuit. (Failure to do so may cause abnormal heat, electrical shock or fire.)	
• Use the specified types of wires for electrical connections from the BP unit to the indoor and outdoor units. Firmly clamp the interconnecting wires so their terminals receive no external stresses. Incomplete connections or clamping may cause terminal overheating or fire.	
• After connecting interconnecting and supply wiring be sure to shape the cables so that they do not put undue force on the electrical covers or panels. Install covers over the wires. Incomplete cover installation may cause terminal overheating, electrical shock, or fire.	
• If any refrigerant has leaked out during the installation work, ventilate the room. (The refrigerant produces a toxic gas if exposed to flames.)	
• After all installation is complete, check to make sure that no refrigerant is leaking out. (The refrigerant produces a toxic gas if exposed to flames.)	
• When installing or relocating the system, be sure to keep the refrigerant circuit free from substances other than the specified refrigerant (R410A), such as air. (Any presence of air or other foreign substance in the refrigerant circuit causes an abnormal pressure rise or rupture, resulting in injury.)	
• During pump-down, stop the compressor before removing the refrigerant piping. If the compressor is still running and the shut-off valve is open during pump-down, air will be sucked in when the refrigerant piping is removed, causing abnormal pressure in the freezer cycle which will lead to breakage and even injury.	
• During installation, attach the refrigerant piping securely before running the compressor. If the compressor is not attached and the shut-off valve is open during pump-down, air will be sucked in when the compressor is run, causing abnormal pressure in the freezer cycle which will lead to breakage and even injury.	
• Be sure to establish a ground. Do not ground the unit to a utility pipe, arrester, or telephone ground. Incomplete earth may cause electrical shock, or fire. A high surge current from lightning or other sources may cause damage to the air conditioner.	
• Be sure to install an earth leakage breaker. Failure to install an earth leakage breaker may result in electric shocks, or fire.	


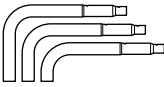
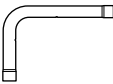
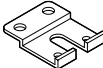






⚠ CAUTION	
• Do not install the air conditioner in a place where there is danger of exposure to inflammable gas leakage. If the gas leaks and builds up around the unit, it may catch fire.	
• This unit is for indoor use. (If installing outdoors, place in a location away from wind and rain.)	

System Layout

For installation of the indoor and outdoor units, follow the instructions in the Installation manual for each unit.



Accessories

① Installation Manual 	1pc.	⑥ For indoor unit side piping (gas) (pipe joint) 	BPMKS967A3B BPMKS967B3B (For 3 rooms) : 3pcs. BPMKS967A2B BPMKS967B2B (For 2 rooms) : 2pcs.
② For outdoor unit side piping (gas) (pipe joint) 	1pc.	⑦ Hanger metal 	4pcs.
③ For outdoor unit side piping (gas) (pipe joint) 	1pc.	⑧ Screws 	8pcs.
④ For outdoor unit side piping (liquid) (pipe joint) 	1pc.	⑨ Binding band 	2pcs.
⑤ For Mindoor unit side piping (liquid) (pipe joint) 	1pc.	⑩ Heat insulation (2pcs. is 1set) 	BPMKS967A3B BPMKS967B3B (For 3 rooms) : 4sets BPMKS967A2B BPMKS967B2B (For 2 rooms) : 3sets

Items to be prepared in the field

- Connecting wires between BP unit and indoor unit (H05VV(*), 4 wires, 1.6mm or 2.0mm)
- Connecting wires (H05VV(*), 3 wires, 1.6mm or 2.0mm)
- Transmission wires (H05VV(*), 2 wires, 0.75mm² to 1.25mm²)
- Installation parts (hanging bolts: 4 × M10 or M8; nuts: 8; flat washers: 8)
- Screws for wall-mounting: 6 × M5
- Heat insulation (joint) [Thermal conductivity: **0.041 - 0.052W/mK (0.035 - 0.045kcal/mh°C)** / thickness **13mm (1/2 inch) or more** / Heat resistance: 100°C or higher]

(*) Only in protected pipes, use H07RN-F when protected pipes are not use.

Specifications for local wiring power cord and branch wiring are in compliance with IEC60245.

Precautions for Selecting the Location

The BP unit is for indoor use.

Install in a location such as above a ceiling or behind a wall in accordance with the following conditions:

- That the unit is fully supported, and is in a location with little or no vibration.
- That the refrigerant pipes for the indoor and outdoor units can be repaired with ease, and that the units are placed well within the distance from each other allowed by the pipe length.
- That there is nothing nearby that produces heat or steam (gas).
- When installing, that there is enough room for servicing the unit.
- Do not install in location that is hot or humid for long periods of time.
A location where the dry-bulb (DB) temperature around the BP unit reaches 60°C or higher.
- A well-ventilated area.
- Do not install near bedrooms. The sound of refrigerant flowing through the piping may sometimes be audible.
For restrictions on installation, refer to P5~6. "Installation".

Installation

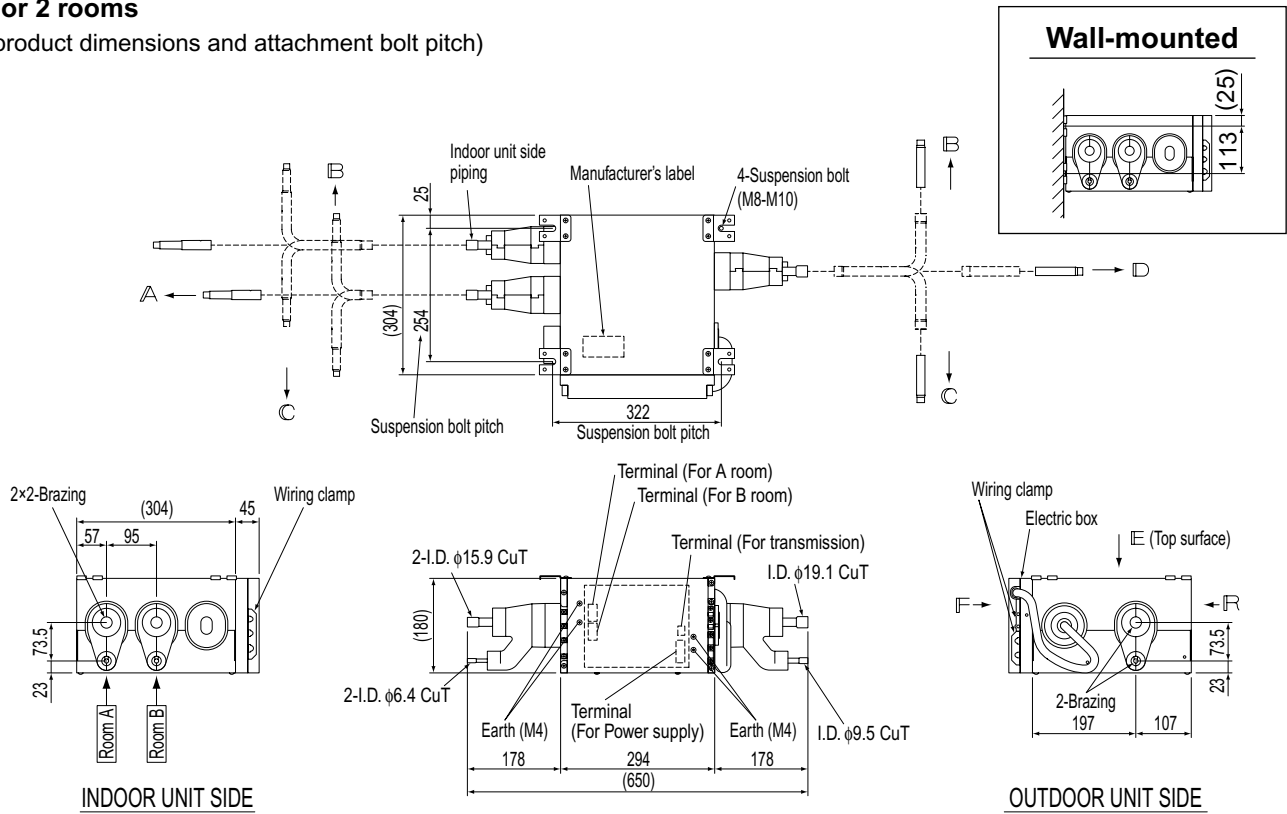
Example of connection (Connection of 8 units heat pump system)			Branch with refnet joint																		
<div><div>1</div>indoor unit</div> <div><div>BP ①</div>BP unit</div> <div><div>A</div>refrigerant branch kit (refnet joint)</div>																					
Maximum allowable length	Between outdoor and BP units	Total piping length	Pipe length between outdoor and BP units ≤ 55m																		
			[Example] a+b+c+d+e ≤ 55m																		
	Between BP and indoor units	Total piping length	Piping length between BP and indoor units: RMX(K)S112 ≤ 60m / RMX(K)S140 ≤ 80m / RMX(K)S160 ≤ 90m																		
			[Example] RMXS140: f+g+h+i+j+k+l+m ≤ 80m																		
	Between BP and indoor unit	1 room length	Piping length between BP and indoor unit ≤ 15m																		
			[Example] f, g, h, i, j, k, l, m ≤ 15m																		
Allowable height	Between outdoor and indoor units	Difference in height	Difference in height between outdoor and indoor units (H1) ≤ 30m																		
	Between outdoor and BP units	Difference in height	Difference in height between outdoor and BP units (H2) ≤ 30m																		
	Between BP and BP units	Difference in height	Difference in height between BP unit and BP units (H3) ≤ 15m																		
	Between indoor and indoor units	Difference in height	Difference in height between indoor and indoor units (H4) ≤ 15m																		
Minimum allowable length *1 Since the sound of refrigerant may be transferred from the outdoor unit to the indoor unit, make the pipe length from the outdoor unit to the first junction 5m or longer.		Piping length	Pipe length between outdoor and first refrigerant branch kit (refnet joint) ≥ 5m																		
			[Example] a ≥ 5m																		
Allowable length after the branch *2 Branch kit are recommended to set as possible as near the BP units. c, d, e are recommended to be as possible as short.		Piping length	Piping length from first refrigerant branch kit (refnet joint) to indoor unit ≤ 40m																		
			[Example] unit 8: b+c+m ≤ 40m																		
			[Example] unit 6: b+e+k ≤ 40m																		
			[Example] unit 3: d+h ≤ 40m																		
Refrigerant branch kit selection (refrigerant branch kits can only be used with R410A)			Refrigerant branch kit (refnet joint) name: KHRQ22M20T or KHRP26M22T																		
Piping size selection			• Piping size (Outer diameter × minimum thickness)																		
			<table><tr><td></td><td>symbol</td><td>Gas pipe</td><td>Liquid pipe</td></tr><tr><td>Between outdoor unit and first refrigerant branch kit</td><td>a</td><td>φ19.1 × 1.0</td><td>φ9.5 × 0.8</td></tr><tr><td>Between first refrigerant branch kit and the other branch kit</td><td>b</td><td>φ15.9 × 1.0</td><td>φ9.5 × 0.8</td></tr><tr><td>Between refrigerant branch kit and BP unit</td><td>c, d, e</td><td colspan="2">See the table A</td></tr></table>				symbol	Gas pipe	Liquid pipe	Between outdoor unit and first refrigerant branch kit	a	φ19.1 × 1.0	φ9.5 × 0.8	Between first refrigerant branch kit and the other branch kit	b	φ15.9 × 1.0	φ9.5 × 0.8	Between refrigerant branch kit and BP unit	c, d, e	See the table A	
	symbol	Gas pipe	Liquid pipe																		
Between outdoor unit and first refrigerant branch kit	a	φ19.1 × 1.0	φ9.5 × 0.8																		
Between first refrigerant branch kit and the other branch kit	b	φ15.9 × 1.0	φ9.5 × 0.8																		
Between refrigerant branch kit and BP unit	c, d, e	See the table A																			
			Table A																		
			<table><tr><td>Total indoor capacity Q</td><td>Gas pipe</td><td>Liquid pipe</td></tr><tr><td>Qc, Qd, Qe ≤ 5.0kw</td><td>φ12.7 × 0.8</td><td>φ6.4 × 0.8</td></tr><tr><td>Qc, Qd, Qe > 5.0kw</td><td>φ15.9 × 1.0</td><td>φ9.5 × 0.8</td></tr></table>			Total indoor capacity Q	Gas pipe	Liquid pipe	Qc, Qd, Qe ≤ 5.0kw	φ12.7 × 0.8	φ6.4 × 0.8	Qc, Qd, Qe > 5.0kw	φ15.9 × 1.0	φ9.5 × 0.8							
Total indoor capacity Q	Gas pipe	Liquid pipe																			
Qc, Qd, Qe ≤ 5.0kw	φ12.7 × 0.8	φ6.4 × 0.8																			
Qc, Qd, Qe > 5.0kw	φ15.9 × 1.0	φ9.5 × 0.8																			
			*Qc, Qd, Qe is total connected indoor capacity *Subscript c, d, e indicates the above symbol																		
			<div>[Example]</div> <div>indoor 4: 2.5kW indoor 5: 3.5kW indoor 6: 5.0kW</div> <div>} Qe = 11.0kW</div> <div>=> (Gas pipe) φ15.9 × 1.0 / (Liquid pipe) φ9.5 × 0.8</div>																		

Installation

- This unit may be installed suspended from the ceiling or mounted on the wall.
- **This unit may only be installed, as shown in the diagram below.** (The side E should be facing upwards.)
However, it may be freely installed in any direction forward or back, and to the sides.
- Be sure to leave a **650mm square** opening for service and inspection as shown in the diagram below, for both ceiling-suspended installation and wall-mounted installation.
- This unit “**does not require drain treatment**”.
- This unit may be installed with sides F or R facing forward (servicing direction).
- The piping for the indoor unit may be freely led around in directions A , B , C or D .
- The inclination of side E must be within ± 5 degrees forward or back or to the sides.

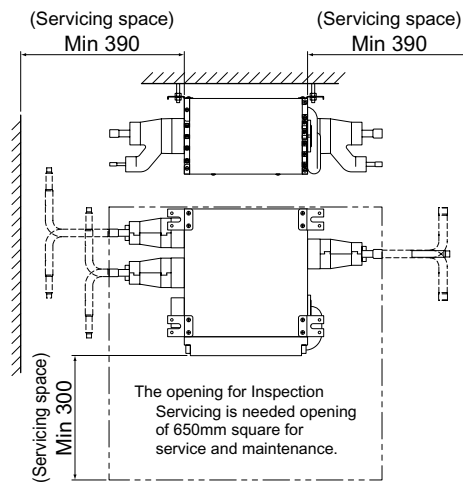
◆ For 2 rooms

(product dimensions and attachment bolt pitch)

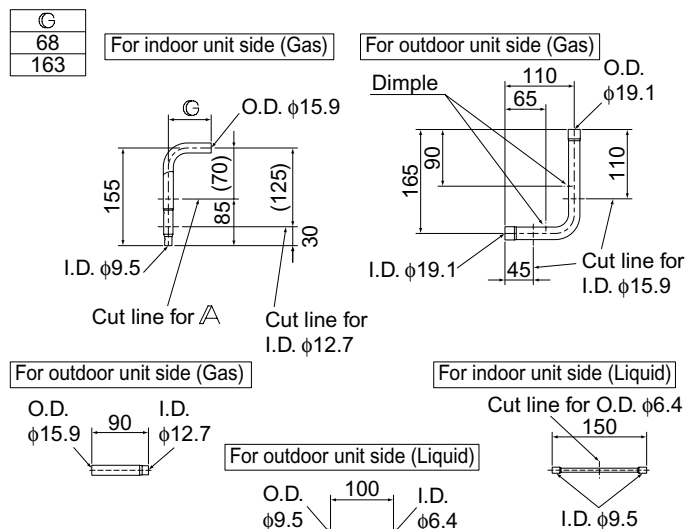


Installation restrictions

(Installation and service space)

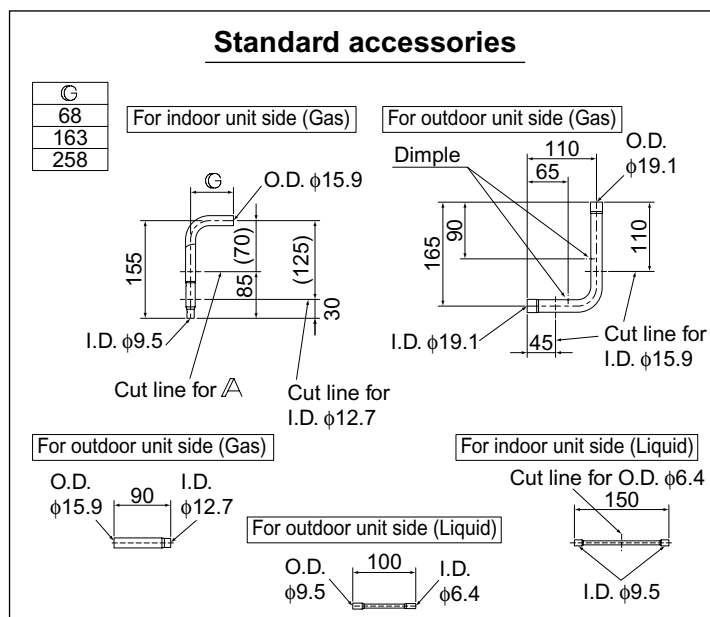
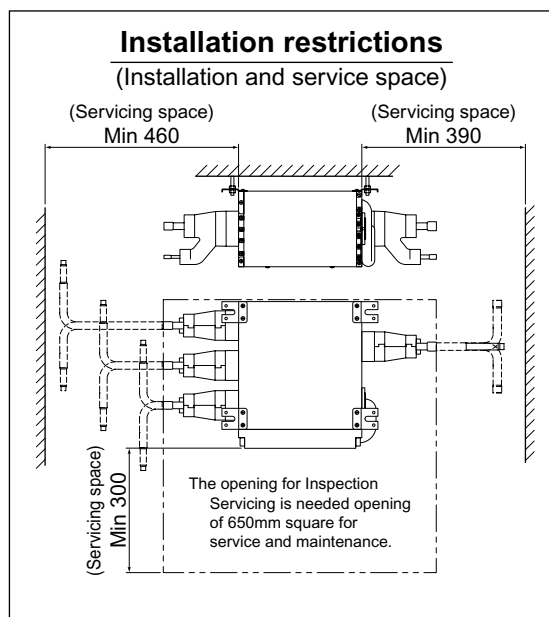
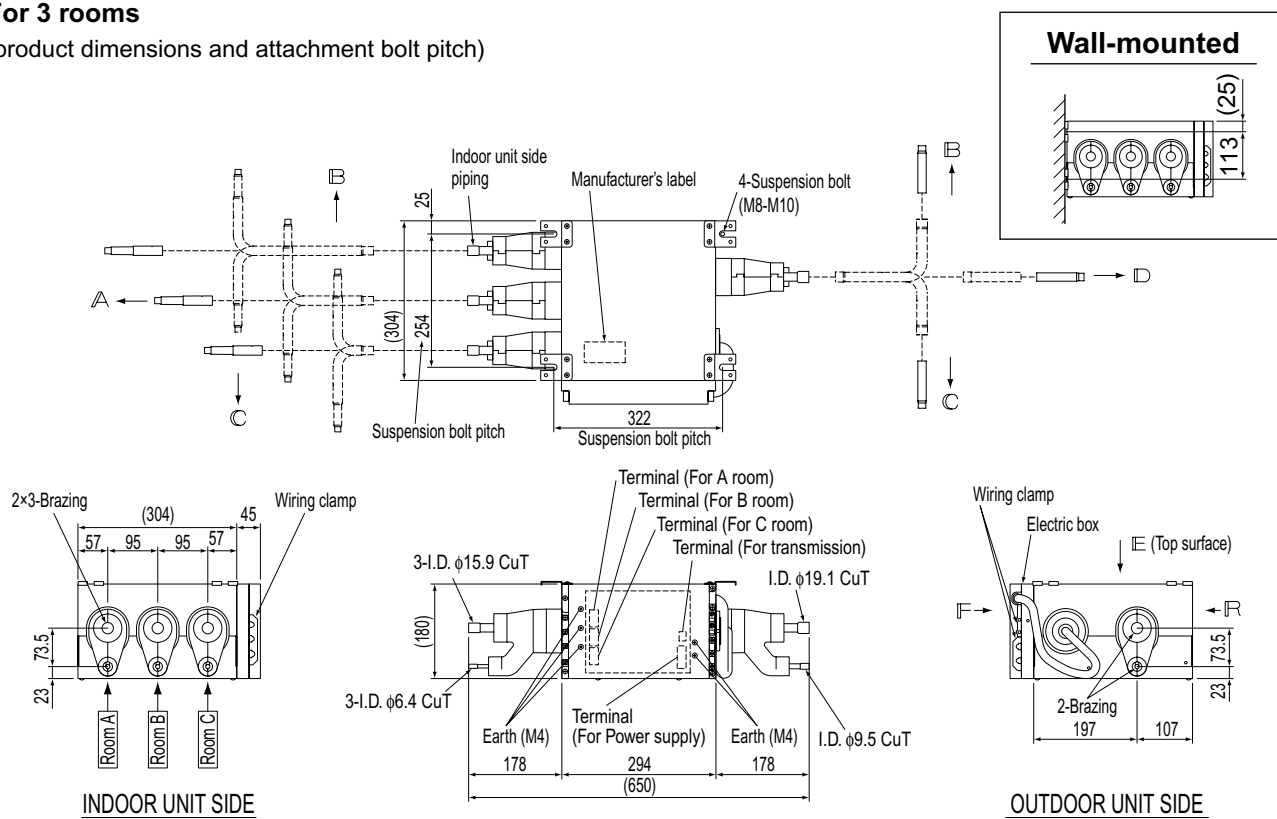


Standard accessories



◆ For 3 rooms

(product dimensions and attachment bolt pitch)

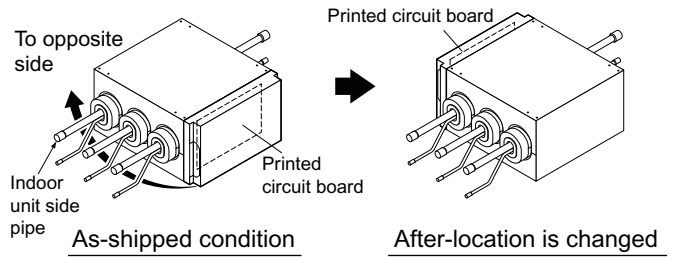


Installation of the Unit

1. Replacing the printed circuit board

- This unit has two different installation types:
(1) ceiling-suspended type and (2) wall-mounted type.
- Choose the proper installation pattern according to the location of installation.
- The installation location for the printed circuit board can be changed.
- **Procedure for changing the installation location of the printed circuit board.**

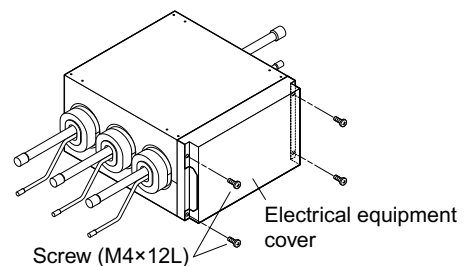
If the installation location of the printed circuit board needs to be changed because of the installation conditions, perform the following:



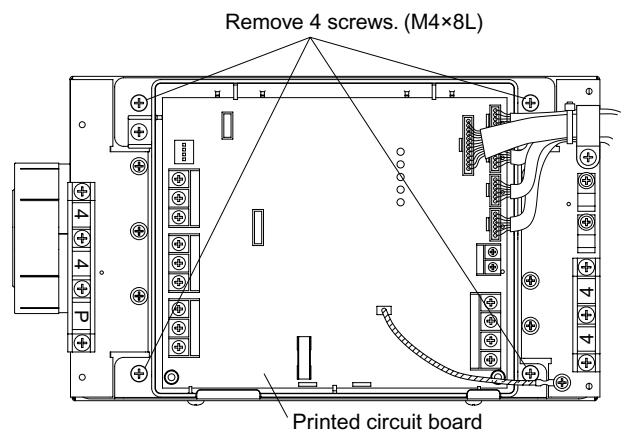
Caution

- Before doing any wiring on site, replace the printed circuit board.

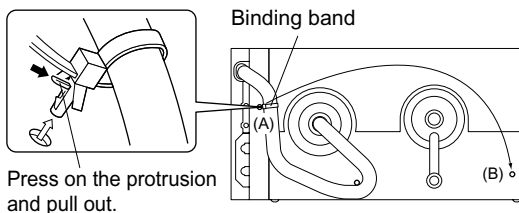
- 1) Remove the screws and pull off the electrical equipment cover.



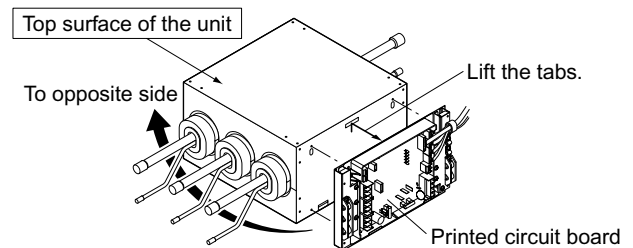
- 2) Remove 4 screws shown in the figure on the below, remove the printed circuit board.



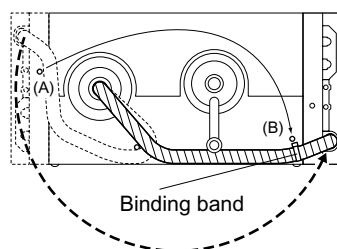
- 3) Remove the binding band (A) which holds the wires.



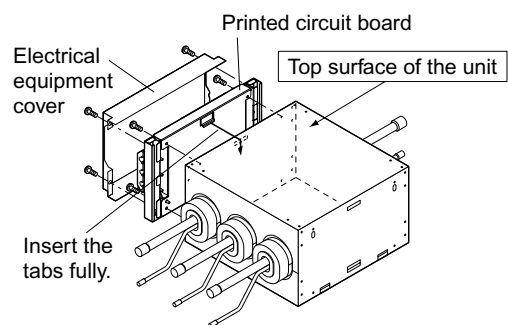
- 4) Remove the printed circuit board, and reattach as shown in the figure.



- 5) Reattach the binding band to position (B).



- 6) Attach the printed circuit board and electrical equipment cover to the other side and secure with the screws.

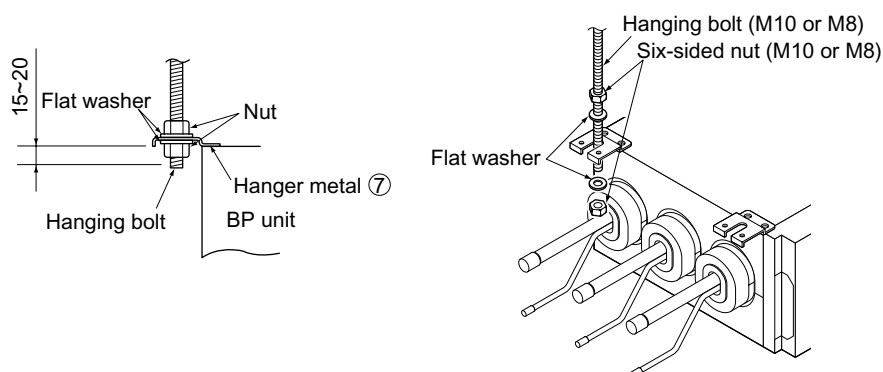
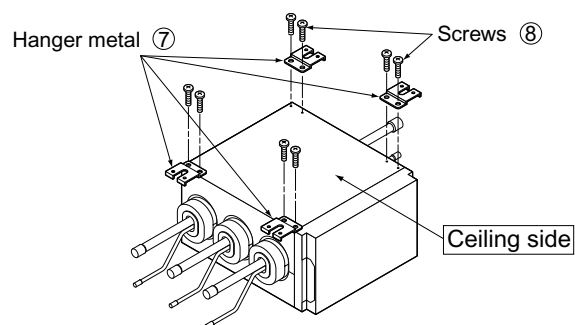


2. Ceiling-suspended type

Procedure:

- 1) Fix the furnished hanger metal ⑦ with two screws ⑧. (4 locations in total)
- 2) Using an insert-hole-in-anchor, hang the hanging bolt.
- 3) Install a hexagon nut and a flat washer (field supply) to the hanging bolt as shown in the figure in the below, and lift the unit to hang on the hanger metal.
- 4) After checking with a level that the unit is level, tighten the hexagon nut.

* The tilt of the unit should be within $\pm 5^\circ$ in front/ back and left/right.



3. Wall-mounted type

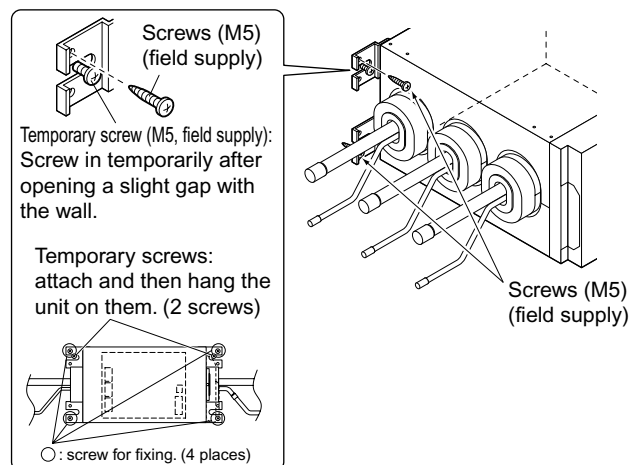
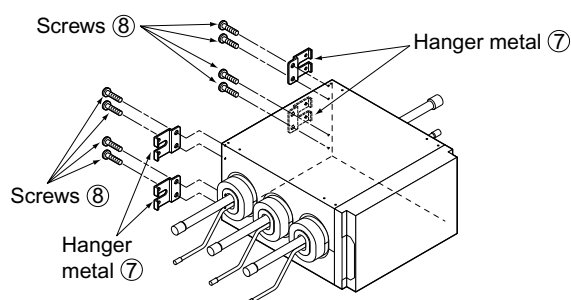
Procedure:

- 1) Fix the furnished hanger metal ⑦ with two screws ⑧. (4 locations in total)
- 2) Create a gap with the wall and screw in the temporary screws (M5, field supply), and hang the BP unit.
- 3) After checking with a level that the unit is level, fix the unit with screws (M5, field supply).

* The tilt of the unit should be within $\pm 5^\circ$ in front/ back and left/right.

CAUTION

- Be sure to install the unit with the top surface up.
- Do not install near bedrooms. The sound of refrigerant flowing through the piping may sometimes be audible.

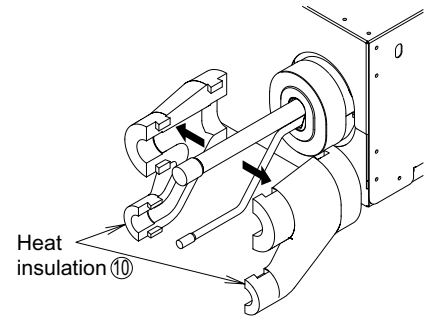


Connection of Refrigerant Piping

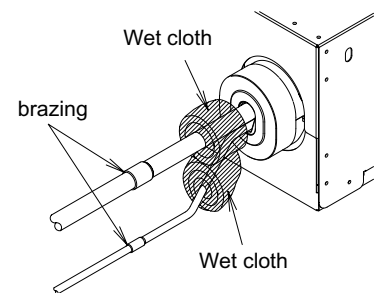
See the indoor and outdoor units installation manual for details on the size of connection piping to the indoor and outdoor units.

1. About brazing pipes on site

- 1) Before brazing, remove the heat insulation.
- 2) Remove the blue-colored tape, and throw it out.

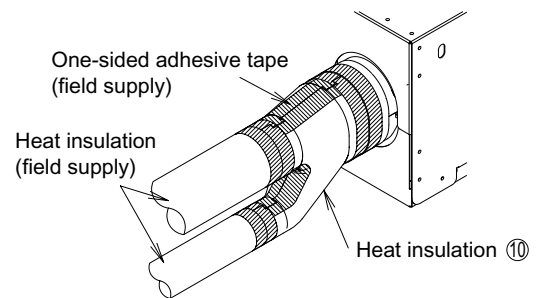


- 3) Wrap the pipes to be brazed with sufficient wet cloths so that brazing does not affect the unit.
- 4) After brazing, use wet cloths or spray mist to sufficiently cool off all pipes.
- 5) When brazing, be careful that the flame of the torch does not come in contact with the unit.
(Since the inside of the unit is made of plastic, it may become deformed or melt, destroying its heat-insulation performance.)



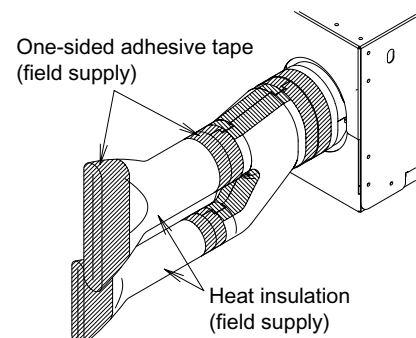
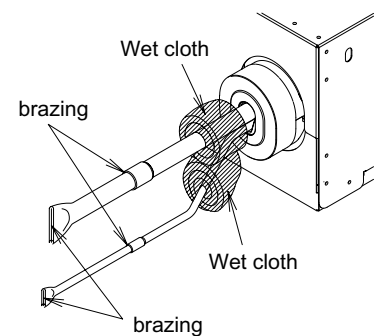
2. Insulation of pipes

- 1) Attach heat insulation to each pipe.
- 2) When attaching insulation to the pipes, use one-sided adhesive tape or similar materials to thoroughly prevent air from entering the heat insulation.
- 3) Eliminate any gaps in the heat insulation.

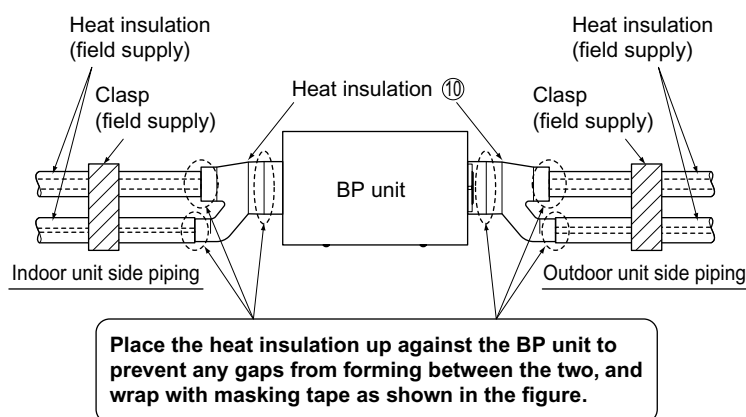


3. Unconnected pipes

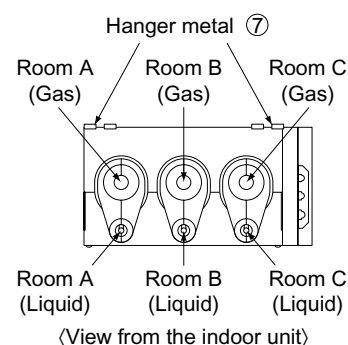
- 1) For pipes not yet connected to a room, pinch the end of the pipe and braise them.
 - 2) When brazing this area too, wrap the pipes with sufficient wet cloths to protect the unit.
 - 3) After brazing this area too, cool the pipes sufficiently.
-
- 4) Attach heat insulation, and use one-sided adhesive tape to thoroughly prevent air from entering the heat insulation.
 - 5) Cover the ends of the pipes with sufficient heat insulation.



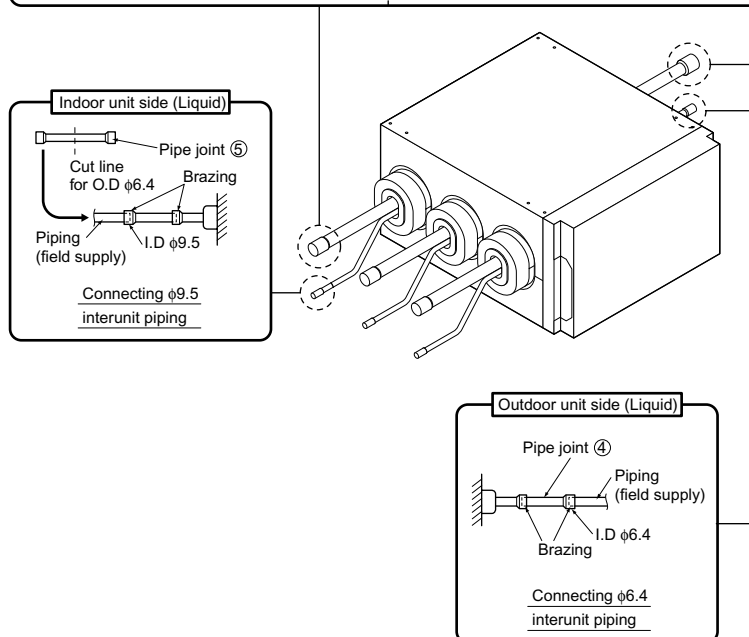
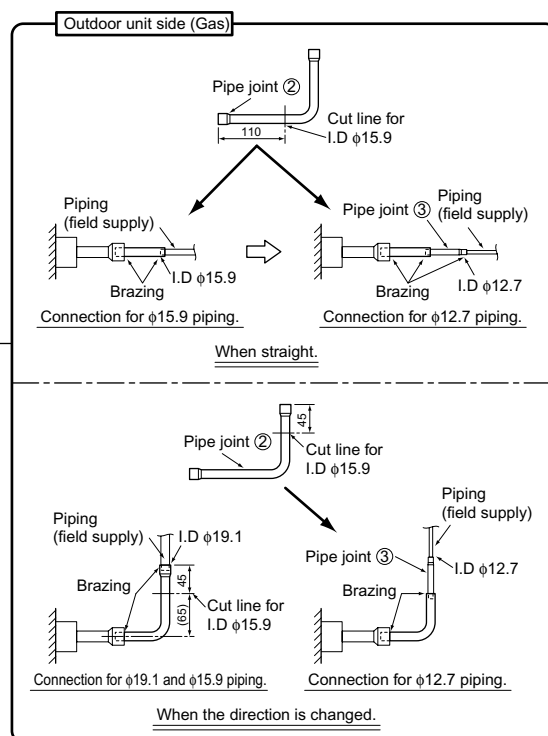
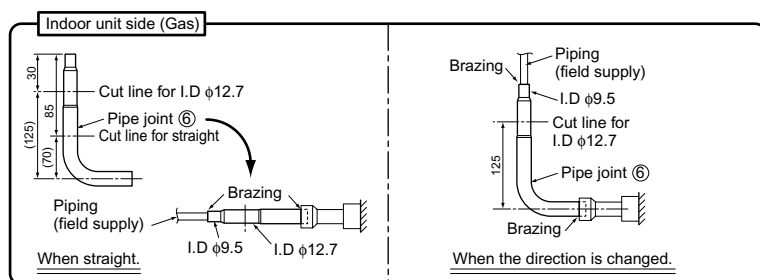
- After brazing and system leakage check, connect a heat insulation (field supply), and let it cure completely following the procedure illustrated right. Use the heat insulation with the following specifications:
Thermal conductivity: **0.041-0.052W/mK (0.035-0.045kcal/mh°C)** / thickness 13mm or more
Heat resistance = 100°C or higher
- To ensure that the weight of the local interunit piping does not bear on directly on the BP unit, secure it near the BP unit using the clasp (field supply).



- When connecting indoor units, make sure to connect refrigerant pipes and connection wires to the appropriate connection ports marked with matching alphabets (A, B and C).



- When changing the routing direction, use the pipe joints ② and ⑥ (accessories). Use pipe joints ③, ④ and ⑤ to connect refrigerant pipes with different diameters.

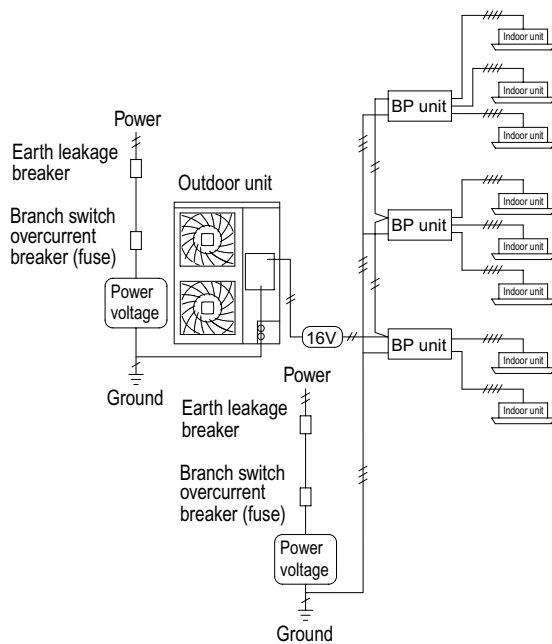


NOTE

When changing the direction of the piping to something other than the above, bend the piping on site.

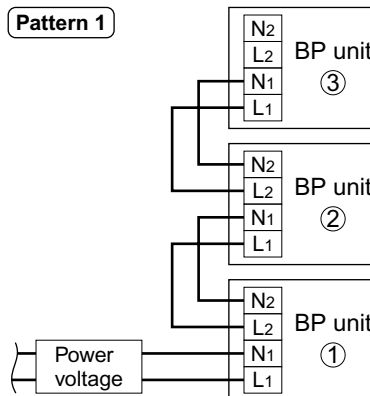
Connecting the Wiring

Connection example of total system wiring



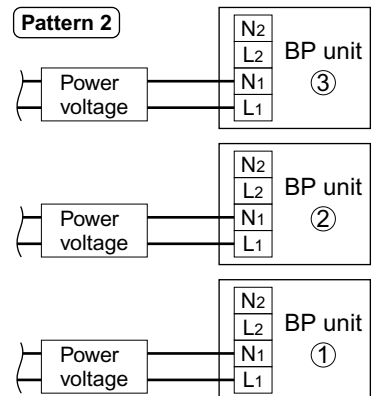
The following kind of wiring methods is okay for the power line.

Pattern 1



- Crossover wiring is possible for the power line.

Pattern 2



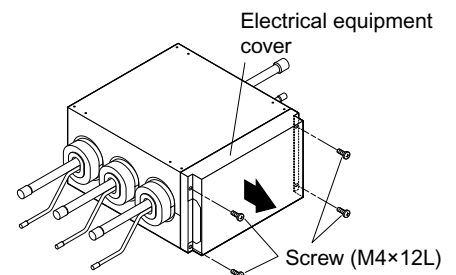
- It is also possible to supply power from the BP units themselves.

CAUTION

- Be sure to connect the power line to L1 and N1.
- For crossover wiring, take the line from L2 and N2 and connect it to L1 and N1 on the other BP unit.

Work procedure

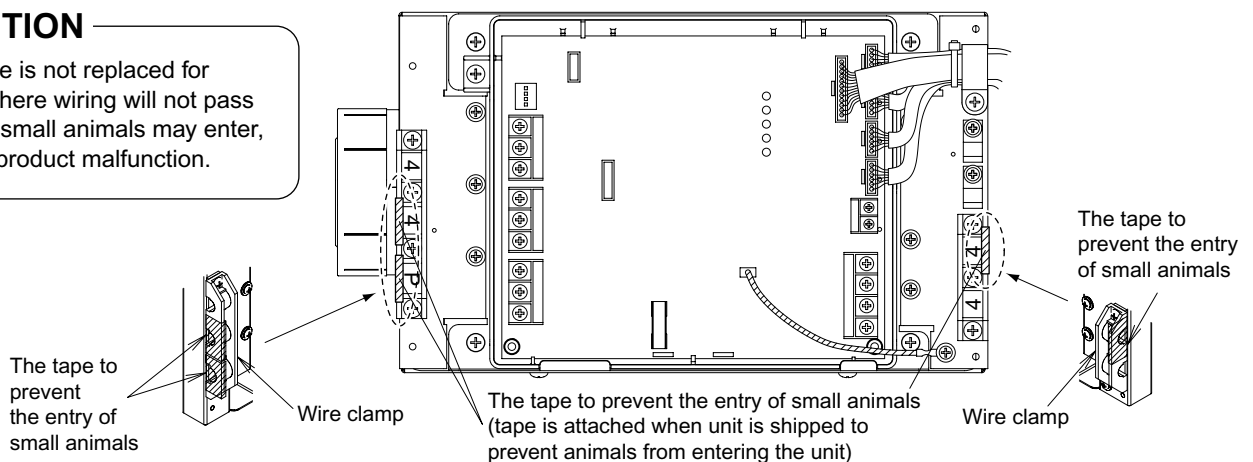
- 1) Remove the screws and pull off the electrical equipment cover.



- 2) Tape is attached to the wire binding band. The purpose of the tape is to prevent small animals from entering the unit. Only remove the tape from places where wiring it to be passed through.

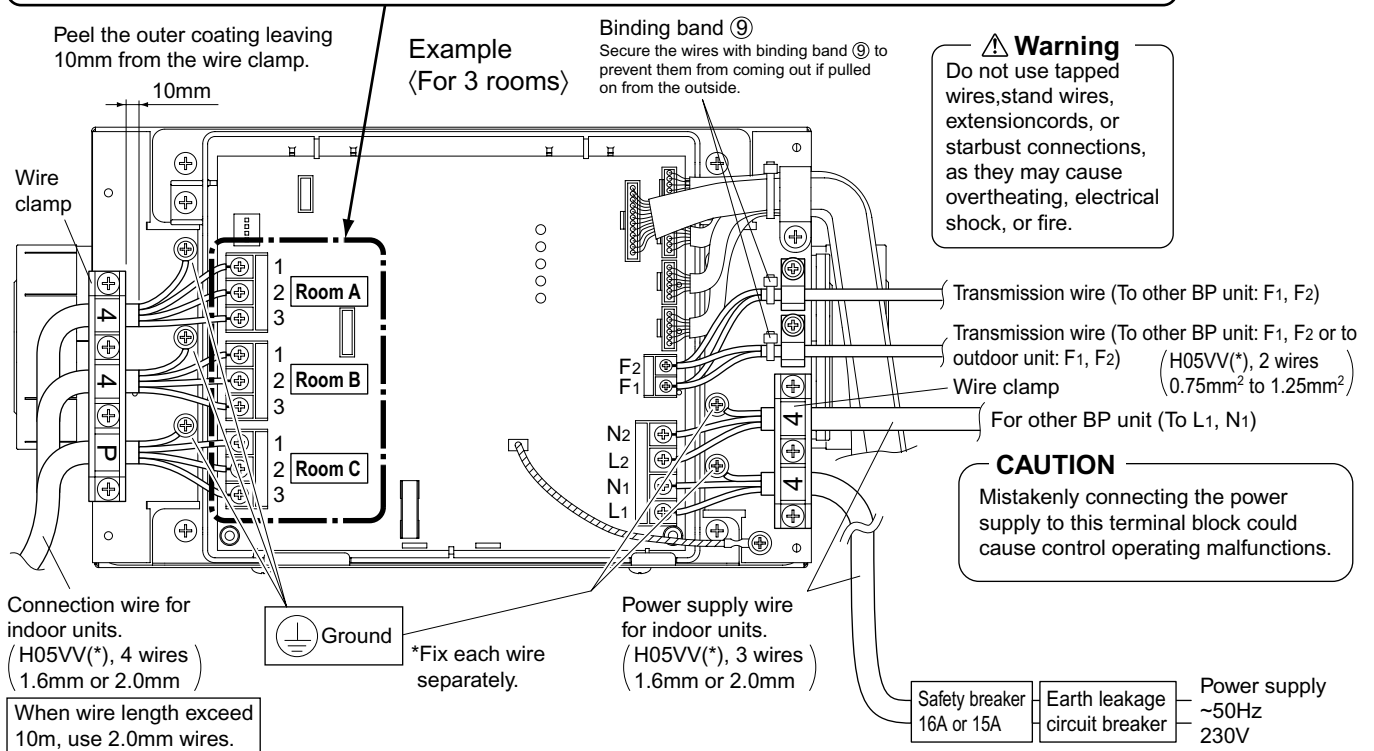
CAUTION

If the tape is not replaced for places where wiring will not pass through, small animals may enter, causing product malfunction.



- 3) Follow the instructions on the wiring nameplate to connect the connection wires of indoor/outdoor units to terminal block numbers. (1, 2, 3, F1 and F2) Always fix each ground wire separately with a ground screw. (See the figure below.)

NOTE: The terminal block numbers are arranged from top to bottom in order of 1, 2 and 3.

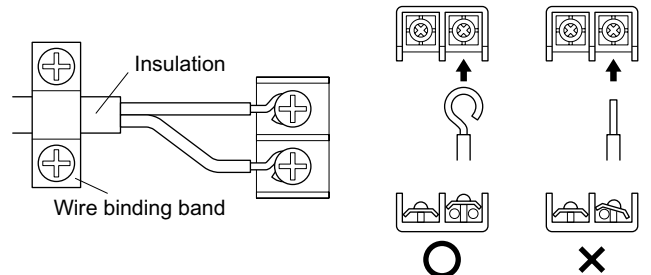


(*) Only in protected pipes, use H07RN-F when protected pipes are not use.

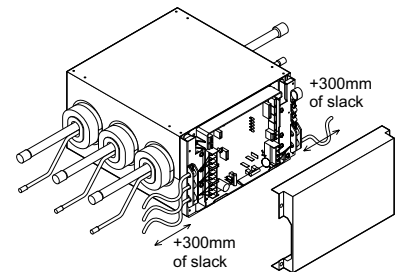
Specifications for local wiring power cord and branch wiring are in compliance with IEC60245.

CAUTION

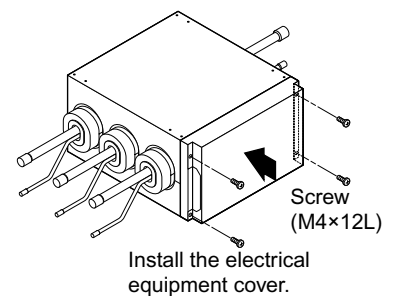
- All local interunit wiring must be secured using the wire binding band over the insulation, as shown in the figure.
- When connecting the connection wires to the terminal block using a single core wire, be sure to perform curling. Problems with the work may cause heat and fires.



- 4) Allow 300mm for the pulling-out section of harness.



- 5) Return the electrical equipment cover to its original position, and fix it with the screws.



Operating Test

Follow the “Operating test” as described in the installation manual of the outdoor unit.

If the BP unit does not operate normally during the test run, the error can be checked on the remote controller display for the indoor unit.

Error codes displayed on the remote controller

Malfunction code	Nonconformity during installation	Remedial action
A9	Electric expansion valve connector not connected (BP unit)	Please contact your dealer.
E2	Printed circuit board faulty (BP unit)	
J0	Liquid and gas thermistor faulty (BP unit)	
U4	Transmission error between BP unit and indoor unit	Connect correctly the interconnections between BP unit and indoor unit.
U9	Transmission error between outdoor unit and other BP unit	Connect correctly the interconnections between outdoor and other BP unit.
UJ	Transmission error between outdoor unit and this BP unit connecting with the indoor unit of error code displayed	Connect correctly the interconnections between outdoor and this BP unit connecting with the indoor unit of error code displayed.

The BP Unit

Simple diagnosis can be done using the LEDs on the BP unit's circuit board.

For details, see the label on the inside of the BP unit's electrical equipment cover.

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Two-dimensional bar code is a code
for manufacturing.

3P155380-1E M04B237D (0701) HT