

INSTALLATION MANUAL

English

Deutsch

VRV III SYSTEM Air Conditioners

MODELS (BS unit)	Français
BSV4Q100PV1 BSV6Q100PV1	Español
	Italiano
READ THESE INSTRUCTIONS CAREFULLY BEFORE INSTALLATION. KEEP THIS MANUAL IN A HANDY PLACE FOR FUTURE REFERENCE.	
LESEN SIE DIESE ANWEISUNGEN VOR DER INSTALLATION SORGFÄLTIG DURCH. BEWAHREN SIE DIESE ANLEITUNG FÜR SPÄTERE BEZUGNAHME GRIFFBEREIT AUF.	Ελληνικά
LIRE SOIGNEUSEMENT CES INSTRUCTIONS AVANT L'INSTALLATION. CONSERVER CE MANUEL A PORTEE DE MAIN POUR REFERENCE ULTERIEURE.	Nederlands
LEA CUIDADOSAMENTE ESTAS INSTRUCCIONES ANTES DE INSTALAR. GUARDE ESTE MANUAL EN UN LUGAR A MANO PARA LEER EN CASO DE TENER ALGUNA DUDA.	Portugues
PRIMA DELL'INSTALLAZIONE LEGGERE ATTENTAMENTE QUESTE ISTRUZIONI. TENERE QUESTO MANUALE A PORTATA DI MANO PER RIFERIMENTI FUTURI.	
ΔΙΑΒΑΣΤΕ ΠΡΟΣΕΚΤΙΚΑ ΑΥΤΕΣ ΤΙΣ ΟΔΗΓΙΕΣ ΠΡΙΝ ΑΠΟ ΤΗΝ ΕΓΚΑΤΑΣΤΑΣΗ ΕΧΕΤΕ ΑΥΤΟ ΤΟ ΕΓΧΕΙΡΙΔΙΟ ΕΥΚΑΙΡΟ ΓΙΑ ΝΑ ΤΟ ΣΥΜΒΟΥΛΕΥΕΣΤΕ ΣΤΟ ΜΕΛΛΟΝ.	Русский
LEES DEZE INSTRUCTIES ZORGVULDIG DOOR VOOR INSTALLATIE. BEWAAR DEZE HAN- DLEINDING WAAR U HEM KUNT TERUGVINDEN VOOR LATERE NASLAG.	Türkçe
LEIA COM ATENÇÃO ESTAS INSTRUÇÕES ANTES DE REALIZAR A INSTALAÇÃO. MANTENHA ESTE MANUAL AO SEU ALCANCE PARA FUTURAS CONSULTAS.	
ПЕРЕД НАЧАЛОМ МОНТАЖА ВНИМАТЕЛЬНО ОЗНАКОМЬТЕСЬ С ДАННЫМИ ИНСТРУКЦИЯМИ. СОХРАНИТЕ ДАННОЕ РУКОВОДСТВО В МЕСТЕ, УДОБНОМ ДЛЯ ОБРАЩЕНИЯ В БУДУЩЕМ.	
Montajdan önce bu talimatları dikkatli bir biçimde okuyun. Gelecekte başvurmak üzere bu elkitabını kolay ulaşabileceğiniz bir yerde Muhafaza edin.	

CE - DECLARATION-DE-CONFORMITE C CE - CONFORMITEITSVERKLARING	CE - ΔΗΛΩΣΗ ΣΥΜΜΟΡΦΩΣΗΣ Ο	CE - OPFYLDELSESERKLÆRING CE - FÖRSÄKRAN-OM-ÖVERENSTÄMMELSE	CE - PROHLASENI-O-SHODE	CE - DEKLARACJA-ZGODNOŚCI CE - DECLARAŢIE-DE-CONFORMITATE	I СЕ - ДЕКЛАРАЦИЯ-ЗА-СЪОТВЕТСТВИЕ МІТАТЕ	e ce - vyhlasenie-zhody ce - uyumluluk-bildirisi
DAIKIN INDUSTRIES, LTD. (11 @) declares under its sole responsibility that the air condition (22 @) erklärt auf seine alleinige Veramwortung del die Model (33 @) efectare sous sa seule responsabilitié que les appareils (44 @). verklaart hierbij op eigen exclusieve veramwoordelijkhe (36 @) efectara abig su únical responsabilitida dure los modelos (36 @) efectara abig su únical responsabilità de que los modelos (36 @) efectara sob sua exclusiva responsabilità de que os modelos (36 @) efectara sob sua exclusiva responsabilità de que os mo (36 @) efectara sob sua exclusiva responsabilità de que os mo (36 @) efectara sob sua exclusiva responsabilità de que os mo (36 @) efectara sob sua exclusiva responsabilità de que os mo	 DAIKIN INDUSTRIES, LTD. OI (@) declares under its sole responsibility that the air conditioning models to which this declar ation relates: Of (@) declares under its sole responsibility that the air conditioning models to which this declar ation relates: OE or entikit raif seine alleninge Veraniwortung dad de Modelle der Klimageratie für de diese Erkfarung bestimmt ist: OE of eddara sous as seule responsabilitie que les appareils d'air conditioning units waarop deza verklaring betreking heeft. OE (D) entikat and seine alleninge veraniwordenjikheid dat de airconditioning units waarop deza verklaring betreking heeft. OE (D) declara abla su unics responsabilità de no is models o a uni e riferita questa dichara soto sua exponsabilità de nu unicontrativo da esti eriferita questa dicharazione: OE (O) declara acto sua responsabilità de una comortision e au chierita questa dicharazione: OE (O) declara acto sua exponsabilità de que os modelos de ar condicionado a que seta declarazione: OE (O) declara acto sua exponsabilità de que os modelos de ar condicionado a que seta declarazione: OE (O) declara acto sua exponsabilità de que os modelos de ar condicionado a que seta declarazione: O) (G) modelia entre esponsabilità de que os modelos de ar condicionado a que seta declarazione: O) (G) declara acto sua exponsabilità de que os modelos de ar condicionado a que seta declarazione: O) (G) declara acto sua exclusivar responsabilità de que os modelos de ar condicionado a que seta declarazione: O) (G) declara acto sua exclusivar responsabilità de exondito e conditionado a que seta declarazio se reflere: O) (G) declara acto sua exclusivar responsabilità der o conditione conquitore declarazio se reflere: O) (G) declara acto sua exponsabilità dei que os modelos de ar conditionado a que esta declarazia se reflere:<td></td><td> (10 @S erktærer under eneansvar, at klimaanlægmodellerne, som denne dektaration vedrører: (11 @S) dektarerat i openskap av huvudansvard), att uttkonditioneringsmodellerna som beröns av denne dektaration innebår att. (12 @) etktærer under eneansvar, at klimaanlægmodellerne, som denne dektaration vedrører: (21 @) etktærer under eneansvar, att klimaanlægmodellerne, som beröns av denne dektaration innebår att. (21 @) etktærer et fullstendig ansvar for at de luffkondisjoneringsmodeller som beröns av denne dektaration innebår att. (21 @) etktærer et fullstendig ansvar for at de luffkondisjoneringsmodeller som beröns av denne dektaration innebærer att. (32 @) etktærer et fullstendig ansvar for at de luffkondisjoneringsmodeller som beröns av denne dektaration innebærer att. (34 @) prohlabije ve sve pine oppovednost, i æn obej klimatraze, i majs ek oto pohlåsein vratulus. (35 @) etktøring per som den strukturation av som beröns av denne dektaration. (35 @) etktøring en kole eksteration oppovings a klimaberørdes modelik klima uredaja na kojes eva zigava dnosi: (35 @) ekstarupter av vestrutian av ekstorationski, že modele klimatryzatoriov, kidnych dotyczy ninejsza dektaraja. (36 @) ekstaruje na wesnat i vilyeznat oppoviedizialnoski, že modele klimatryzatoriov, kidnych dotyczy ninejsza dektaraja. (36 @) ekstaruje na wesnat i vilyeznat oppoviedizialnoski, že modele klimatryzatoriov, kidnych dotyczy ninejsza dektaraja. (36 @) ekstaruje na vestori destaration evaratele de ser conditionat la care se refera aceastá declarajie: </td><td></td><td> (9) (60) Z vso odgovornostjo izjavlja, da so modeli klimatskih neprav, na katere se izjava nanaša. 20 (60) krimiba oma izialklul vastutusel, et klaseoleva deklaztalsooni alla kuuluvad klimaseadmete mudelici. 21 (60) peknapnga ua cson ornoeophocr, ve kuotennire krimkaruvuka ukrciaratuja, sa komo ce ornaca rask geknapauka: 22 (CD) visiška savo staskomybe skelba, kad ooo kondicionavimo prietaisų modelia, kuriems yra taikoma ši dektaracija: 23 (CD) visiška savo staskomybe skelba, kad ooo kondicionavimo prietaisų modelia, kuriems yra taikoma ši dektaracija: 23 (CD) visiška savo staskomybe skelba, kad ooo kondicionavimo prietaisų modelia, kuriems yra taikoma ši dektaracija: 24 (60) vyhasuje na vlastni zodovectorst, že tielo klimatizačnė modely, na ktorė sa vztahuje toto vyhlasenie: 25 (CD) tanamen kendi sorumlukujunda olmak tuzere bu bildinim right olduģu klima modelerinin sąsidiski gbi olduģuu beyan eder. </td><td>tlere se izjara nanaša: uuluvad kilmassadmele mudelid: tranaura, sa kovrto ce ornaca rtaav gevrapauva: ų modeliai, kuriems yra taikona ši deklaracija: u kuriem atriecas ši deklaracija: na ktorė sa vztahuje toto vyhtasenie: na ktorė sa vztahuje toto vyhtasenie dugu kilma modellerinin systigtaki gibt oldugunu beyan ede</td>		 (10 @S erktærer under eneansvar, at klimaanlægmodellerne, som denne dektaration vedrører: (11 @S) dektarerat i openskap av huvudansvard), att uttkonditioneringsmodellerna som beröns av denne dektaration innebår att. 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e following standard(s) or other no (en) oder einem anderen Normdoki	BFSCOOPY1, of are in conformity with the following standard(s) or other normative document(s), provided that these are used in accordance with our instructions: 22 deficien togenden Normifent oder einem anderen Normdokument oder -dokumenten entsprichtentsprechen, unter der Voraussetzung,		RVEYQ3PY1, RVEYQ10PY1, RVEYQ10PY1, RVEYQ10PY1, RVEYQ10PY1, RVEYQ16PY1, RVEYQ18B 08 estão em conformidade com a(s) seguinte(s) normal(s) ou outro(s) documento(s) normal(s), desde que estes sejam utilizados de acordo com as nossas instruções: 09 contenctivor creatyorupus crantapran или другим нормативным документам, при условим их использования согласно нашим	2	RWEYORPY1, RWEYO10PY1, RWEYO16PY1, RWEYO18PY1, RWEYO20PY1, RWEYO20PY1, RWEYO24PY1, RWEYO26PY1, RWEYO26PY1, RWEYO20PY1, RWEYO20	Y1, RWEYQ28PY1, RWEYQ30PY1, umiokinak. ha azokatelöitäs szerimt használják. zaojinych, pod warunkiem że użwane są zgodnie z nasz nomodulo znomodnio z oconto se zosto z die utilizati komodulo znomodnio z oconto se zosto z die utilizati
daß sie gemäß unseren Anweisungen eingesetzt werden. Bis sont chommera ät alta. In normels) van autrels) documen(s) in do conform de volgende normnels) ou autrels) documen(s) in do norze instructies: De son an onformidad con tals) siguientels) normals) u otnol mestras instructiones: Bis sono conformi al(i) seguentel(i) standard(s) o altro(i) docum noste farzioni: De sono conformi al(i) seguentel(i) standard(s) o altro(i) docum noste farzioni: provingenvar ja: ro(i) ordoloudo(o) moturn(o) n di dokt outpeuva ja: ro(i) ordoloudo(o) moturn(o) n di dokt outpeuva ja: ro(i) ordoloudo(o) moturn(o) n di dokt notestas in tracticationes: De sono conformi al(i) seguentel(i) standard(s) o altro(i) docum notestas instructiones: De sono conformi al(i) seguentel(i) standard(s) o altro(i) docum notestas instructiones: De sono conformi al(i) seguentel(i) standard(s) o altro(i) docum notestas instructiones: De sono conformi al(i) seguentel(i) standard(s) o altro(i) docum notestas instructiones: De sono conformi al(i) seguentel(i) standard(s) o altro(i) docum notestas instructiones: De sono conformi al(i) seguentel(i) standard(s) o altro(i) docum notestas instructiones: De sono conformi al(i) seguentel(i) standard(s) o altro(i) docum notestas instructiones: De sono conformi al(i) seguentel(i) standard(s) o altro(i) docum notestas instructiones: De sono conformi al(i) seguentel(i) standard(s) o altro(i) docum notestas instructiones: De sono conformi al(i) seguentel(i) standard(s) o altro(i) docum d	daß sie gemäß unseren Arweisungen eingesetzt werden: 30 sont/ommöweis al akaux momel(s) ou autreis) öcoument(s), pour aufant qu'lls soient uflisés conformément à nos instructions onze instructions: onze instructions: 0 sersi instructions: 60 sono conformi al(i), seguente(s) normati(s), documento(s) normativo(s), siempre que sean utilizados de acuerdo con mestifas instructions: 60 sono conformi al(i), seguente(s) androl(s) o documento(s) normativo(s), siempre que sean utilizados de acuerdo con mestifas instructions: 60 sono conformi al(i), seguente(s) randard(s) o dato(i) documento(i) a carattere normativo(s), siempre que sean utilizados de acuerdo con mestifas instructions: 60 sono conformi al(i), seguente(s) randard(s) o atro(i) documento(i) a carattere normativo, a patto che vengano usati in conformità alle notes terzi estructions: 70 sono conformi al(i), seguente(s) randard(s) normativo(s), avovorquixi, uno truy ripouriotecon on 'gonquorinocivrita.		WHCTPyrquent. 10 evertiging at andertactient entringsgivende dokument(en, forudsat at disse anvendes i henhold til vore inservibese in standardient eller andertandre retningsgivende dokument(en, forudsat at disse anvendes i henhold til vore inservibese. 11 respektive uttrystning at utförd i överensstämmelse med och följer följande standard(en) eller andra normgivande dokument, under forutssetning av at disse brukes i henhold til vore inservibese. 11 respektive utstyre i overensstämmelse med logende standard(er) eller andra normgivende dokument(en), under forutssetning av at disse brukes i henhold til våre instrukser: 13 vastasta seuraavien standarden ja muden objellesten dokumentien vaatimuksia edelyttäen, että nittä käytetään objeldemme makaisesti. 14 za predpoktedu, že jsou vyuzitvany v souladu s našim pokyny, odpovideji näsledujicim normain nebo normetiviim dokumentim: 14 as predpoktedu, ze jsou vyuzitvany v souladu s našim pokyny, odpovideji näsledujicim normain nebo normetiviim dokumentim:		18 surt în conformitate cu următorul (următoarele) standard(e) sau alt(e), document(e) normativ(e), cu condiția ca acestea să fe utilizate în conformitate cu matorul fundate cu înstrucțulule inastre cu andartiv, tod pogojem, da se uporabijațo v skadu 2 našimi navofti: 20 on vastavases jărgmis(t)e standardi di ungimi normativi, pod pogojem, da se uporabijațo v skadu 2 našimi navofti: 20 on vastavases jārgmis(t)e standardi di ungimi normativi, pod pogojem, da se uporabijațo v skadu 2 našimi navofti: 20 on vastavases jārgmis(t)e standardi di ungimi normativi, nov vornoave, ve ce vanorasar curacon natume acceptorast na creptavar um dipervisti. 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DAIKIN

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1. SAFETY PRECAUTIONS

Please read these "SAFETY PRECAUTIONS" carefully before installing air conditioning unit and be sure to install it correctly. After completing the installation, make sure that the unit operates properly during the startup operation. After completing installation, conduct a trial operation to check for faults. Inform customers that they should store this installation manual for future reference.

This air conditioner comes under the term "appliances not accessible to the general public".

BS unit is a class A product. In a domestic environment this product may cause radio interference in which case the user may be required to take adequate measures.

Meaning of WARNING and CAUTION notices

CAUTIONFailure to observe these instructions properly may result in property damage or personal injury, which may be serious depending on the circumstances.

$-\cancel{N}$ warning -

- Ask your dealer or qualified personnel to carry out installation work. Do not attempt to install the air conditioner yourself. Improper installation may result in water leakage, electric shocks or fire.
- Install the air conditioner in accordance with the instructions in this installation manual. Improper installation may result in water leakage, electric shocks or fire.
- Consult your local dealer regarding what to do in case of refrigerant leakage.
- When the air conditioner is to be installed in a small room, it is necessary to take proper measures so that the amount of any leaked refrigerant does not exceed the concentration limit in the event of a leakage. Otherwise, this may lead to an accident due to oxygen depletion.
- Be sure to use only the specified accessories and parts for installation work.
 Failure to use the specified parts may result in the unit falling, water leakage, electric shocks or fire.
- Install the air conditioner on a foundation strong enough to withstand the weight of the unit. A foundation of insufficient strength may result in the equipment falling and causing injury.
- Carry out the specified installation work after taking into account earthquakes. Failure to do so during installation work may result in the unit falling and causing accidents.

- Make sure that a separate power supply circuit is provided for this unit and that all electrical work is carried out by qualified personnel according to local laws and regulations and this installation manual. An insufficient power supply capacity or improper electrical construction may lead to electric shocks or fire.
- Be sure to earth the air conditioner. Do not earth the unit to a utility pipe, lightning conductor or telephone earth lead. Imperfect earthing may result in electric shocks 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.
- Be sure to switch off the unit before touching any electrical parts.
- Make sure that all wiring is secured, the specified wires are used, and that there is no strain on the terminal connections or wires.

Improper connections or securing of wires may result in abnormal heat build-up or fire.

- When wiring the power supply and connecting the wiring between the indoor and outdoor units, position the wires so that the EL. COMPO. BOX lid can be securely fastened.
- Improper positioning of the EL. COMPO. BOX lid may result in electric shocks, fire or overheating terminals. • If refrigerant gas leaks during installation, ventilate the area immediately.
- Toxic gas may be produced if the refrigerant gas comes into contact with fire.
- After completing installation, check for refrigerant gas leakage.
 Toxic gas may be produced if the refrigerant gas leaks into the room and comes into contact with a source of fire, such as a fan heater, stove or cooker.
- Do not directly touch refrigerant that has leaked from refrigerant pipes or other areas, as there is a danger of frostbite.

- \land caution -

• Install the BS units, power cord and connecting wires at least 1 meter away from televisions or radios to prevent picture interference and noise.

(Depending on the incoming signal strength, a distance of 1 meter may not be sufficient to eliminate noise.)

- Remote controller (wireless kit) transmitting distance can be shorter than expected in rooms with electronic fluorescent lamps (inverter or rapid start types).
 - Install the BS unit as far away from fluorescent lamps as possible.
- Make sure to provide for adequate measures in order to prevent that the outdoor unit be used as a shelter by small animals.

Small animals making contact with electrical parts can cause malfunctions, smoke or fire. Please instruct the customer to keep the area around the unit clean.

- Do not install the air conditioner in the following locations:
 - 1. Where there is a high concentration of mineral oil spray or vapour (e.g. a kitchen). Plastic parts will deteriorate, parts may fall off and water leakage could result.
 - 2. Where corrosive gas, such as sulphurous acid gas, is produced. Corroding of copper pipes or soldered parts may result in refrigerant leakage.
 - Near machinery emitting electromagnetic radiation. Electromagnetic radiation may disturb the operation of the control system and result in a malfunction of the unit.
 - 4. Where flammable gas may leak, where there is carbon fibre or ignitable dust suspensions in the air, or where volatile flammables such as paint thinner or gasoline are handled. Operating the unit in such conditions may result in fire.
 - Do not use in areas where the air is salty, such as along seacoasts, in factories or other areas with significant voltage fluctuations, or in automobiles and watercraft. Doing so could result in a malfunction.
- The BS unit is not intended for use in a potentially explosive atmosphere.

The refrigerant R410A requires that strict precautions be observed for keeping the system clean, dry and tightly sealed.

Clean and dry

Strict measures must be taken to keep impurities (including SUNISO oil and other mineral oils as well as moisture) out of the system.

Tightly sealed

R410A contains no chlorine, does not destroy the ozone layer and so does not reduce the earth's protection against harmful ultraviolet radiation. R410A will contribute only slightly to the greenhouse effect if released into the atmosphere. Therefore, sealing tightness is particularly important in installation. Carefully read the chapter "**REFRIGERANT PIPING WORK**" and strictly observe the correct procedures.

Disposal requirements

Dismantling of the unit, treatment of the refrigerant, of oil and of other parts must be done in accordance with relevant local and national legislation.

2. BEFORE INSTALLATION

2-1 CAUTION CONCERNING NEW REFRIGERANT SERIES

• Since design pressure is 4.0 MPa or 40 bar (for R407C units: 3.3 MPa or 33 bar), the thickness of pipes must be greater than previously. Since R410A is a mixed refrigerant, the required additional refrigerant must be charged in its liquid state. (If the system is charged with refrigerant in its gaseous state, due to composition change, the system will not function normally.)

The indoor/outdoor unit is designed for R410A use. See the catalogue for indoor/outdoor unit models that can be connected.

(Normal operation is not possible when connecting units that are originally designed for other refrigerants.)

2-2 PRECAUTIONS

- Hold the unit by the Hanging brackets (4 points) when opening the box and moving it, and do not lift it holding on to any other part especially the refrigerant piping.
- About installation of outdoor and indoor unit, refer to the installation manual provided with the outdoor and the indoor unit.
- This unit, both indoor and outdoor, is suitable for installation in a commercial and light industrial environment. If installed as a household appliance it could cause electromagnetic interference.

2-3 ACCESSORIES

Check the following accessories are included with your unit.

NOTE

• Do not throw away any of the accessories until installation is complete.

(BSV4Q100PV1)

Name	1) Access	ory pipes	2) Cl	lamp	3) Insula	tion tube	Explanation Document
Quantity	4 pcs.	4 pcs.	12 pcs.	16 pcs.	4 pcs.	4 pcs.	1 copy
	1)-1	1)-2	2)-1	2)-2	3)-1	3)-2	
Shape				E Company			Installation manual
	φ 9.5	φ 15. 9	(Small)	(Large)	(Small)	(Large)	

(BSV6Q100PV1)

Name	1) Access	ory pipes	2) C	amp	3) Insula	tion tube	Explanation Document
Quantity	6 pcs.	6 pcs.	16 pcs.	24 pcs.	6 pcs.	6 pcs.	1 copy
	1)-1	1)-2	2)-1	2)-2	3)-1	3)-2	
Shape			ALL P				Installation manual
	φ 9 .5	φ 15. 9	(Small)	(Large)	(Small)	(Large)	

- A reducing joint (field supply) will be required if the on-site piping diameter specified in the installation manual for the outdoor unit or in the relevant Engineering data book differs from the piping diameter on the outdoor unit side of the BS unit.
- * The insulation material on the outdoor unit side is a field supply.

2-4 COMBINATION

- This BS unit is only for systems for Models REYQ-P and RWEYQ-P. It cannot be connected to systems for Models REYQ-M.
- For series of applicable indoor units, refer to the catalog or other literature.
- Select the BS unit to fit the total capacity (sum of unit's capacity) and max. number of the indoor units to be connected downstream, refer to the Table 1. About indoor unit's capacity, refer to the Table 2.

Table 1

Model	Total capacity of all downstreem	indoor units	Max. number of all downstreem	n indoor units
BSV4Q100PV1	$A \leq 400$	(*)	20	(*)
BSV6Q100PV1	A ≤ 600	(*)	30	(*)

* The total capacity and number of indoor units connectable to each branch connector are up to 100 and 5, respectively.

Table 2

Capacity expressed as indoor unit's model No.	20	25	32	40	50	63	80	100
Indoor unit's capacity (for use in computation)	20	25	31.25	40	50	62.5	80	100

* About indoor unit's capacity for HRV type (VKM), refer to the Engineering data book.

<Example>

In case of the BS unit witch connect a FXCQ32M and a FXSQ40M. Total capacity = **31.25**+40 = 71.25

2-5 CHECK ITEM

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

Completion check items

Check items	Problems	Check
Are the BS units installed securely?	Falling, vibration, and operating noise	
Have you performed a gas leak test?	Does not cool or heat	
Is the insulation complete? (Refrigerant piping and pipe connection part)	Water leaking	
Is the voltage the same as that listed on the unit's nameplate?	Does not operate/burnt out	
Are all the wiring and piping correct?	Does not operate/burnt out	
Is the unit grounded?	Dangers during electrical leak	
Is the thickness of the power cord as specified?	Does not operate/burnt out	

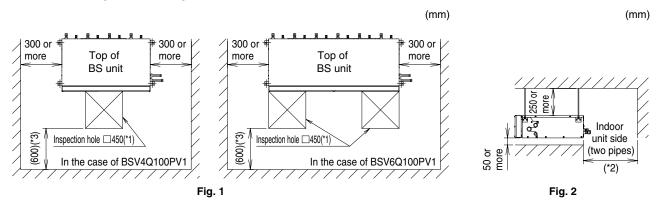
Hand-over check items

Check items	Check
Did you close the EL. COMPO. BOX lid?	
Did you hand the operating manual and warranty card to the customer?	
Are the transmission wiring and piping lines of each unit not connected in reverse?	

3. SELECTING INSTALLATION SITE

Select an installation site where the following conditions are satisfied and that meets with your customer's approval.

- Where is resistible against weight of BS unit.
- Locations where the wall is not significantly tilted.
- Where sufficient clearance for maintenance and service can be ensured. (Refer to Fig. 1, Fig. 2)
- Locations where an inspection hole (Refer to Fig. 1) can be installed to EL. COMPO. BOX side (*1).
- Where the total piping length involving indoor unit and outdoor unit is below the allowable piping length. (See installation manual attached to outdoor unit.)
- Where the sound of passing refrigerant does not cause problems. Never install the BS unit on the opposite side of the ceiling of the living room.



- (*1) Be sure to install the inspection hole on the EL. COMPO. BOX side. Another opening is required in the case of taking down the product.
- (*2) Secure the service space for the local piping.
- (*3) The space is required to locate the top plate of the BS unit at the time of servicing.

NOTES

- Study if the installation location is strong enough to hold the weight of the unit, and if necessary reinforce the area with a beam or other member and then install suspension bolts. Use the suspension bolts to install the unit. (Refer to "4. PREPARATIONS BEFORE INSTALLATION")
- Install the BS unit and its power cord and connecting wires at least 1 meter away from televisions and radios
 to prevent picture interference and noise. (Depending on the incoming signal strength, a distance of 1 meter
 may not be sufficient to eliminate noise.)

4. PREPARATIONS BEFORE INSTALLATION

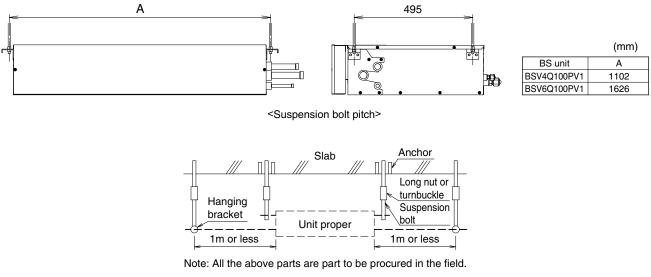
Refer the figure 3 and install the suspension bolts and hanging brackets.

(Suspension bolts: For supporting the product)

- Use M8-M10 suspension bolts.
- When holes are to be made anew, used embedded inserts and embedded foundation bolts. When holes are already provided, use hole-in-anchors or the like. Install the BS unit so that its weight can be withstood.

$\langle Hanging \ bracket: \ For \ supporting \ the \ connection \ pipe \rangle$

Be sure to support the connection piping around the unit using hanging brackets that are kept within
1 meter of the body side surface. Hanging excessive weight on the BS unit hanging bracket could cause the
unit to fall and injure someone.



<Example installation>



5. BS UNIT INSTALLATION

Use only accessories and parts which are of the designated specification when installing.

(1) Attach the hooks to the suspension bolts.

Be sure to use the nuts (M8 or M10: 3 pcs, 4 locations) and washers (For M8: Outside diameter dimension 24 to 28mm, For M10: Outside diameter 30 to 34mm: 2 pcs, 4 locations) (field supply) from both the top and bottom sides of the hanging bracket and make sure they are tightened correctly.

NOTES

• The BS unit has a top and a bottom, so install it so that the diagonal lines in the figure 4 are where the top is.

(Failing to do so may prevent the unit from operating properly and increase the volume of the operating noise.)

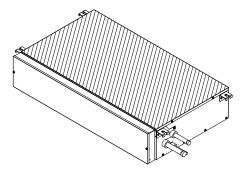
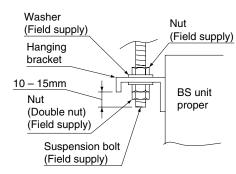


Fig. 4



6. REFRIGERANT PIPING WORK

- For instruction for installing piping between the outdoor unit and BS unit, selecting a refrigerant branch kit, and installing piping between the refrigerant branch kit and the indoor unit, refer to the installation manual and equipment design materials included with the outdoor unit.
- Before beginning the work, always check to make sure the type of refrigerant used is R410A. (The unit will not operate correctly with a different type of refrigerant.)
- Insulate all of the piping including the liquid pipes, HP/LP gas pipes, suction gas pipes, gas pipes, and the
 pipe connections for these. Not insulting these pipes could result in water leaks or burns. In particular, suction gas flows in the HP/LP gas piping during full cooling operation, so the same amount of insulation as
 used for the suction gas piping is required. In addition, high-pressure gas flows in the HP/LP gas piping and
 gas piping, so use insulation that can withstand more than 120°C.
- Reinforce the insulation material when necessary for the installation environment. Refer to the following as a guideline.
 - For 30°C, RH75% to 80%: Thickness at least 15mm
 - For 30°C, over RH80%: Thickness at least 20mm

If not reinforced, condensation could form on the surface of the insulation. For details, refer to the Engineering data book.

NOTES

- This product only uses the new refrigerant (R410A). Be sure to use the special pipe cutters for R410A, during installation.
- Make sure that nothing besides the specified refrigerant, such as air, gets into the refrigerant piping.
- If refrigerant gas leaks during the work, ventilate the area. (The outdoor units are filled with refrigerant.)

6-1 PIPING MATERIAL SELECTION

- Use only pipes which are clean inside and outside and which do not accumulate harmful sulfur, oxidants, dirt, cutting oils, moisture, or other contamination. (Foreign materials inside pipes including oils for fabrication must be 30mg/10m or less.)
- Use the following items for the refrigerant piping.

Material: Jointless phosphor-deoxidized copper pipe

Size: See "Example of connection" to determine the correct size.

Thickness: Select a thickness for the refrigerant piping which complies with national and local laws. For R410A, the design pressure is 4.0 MPa (40bar).

The minimum thickness of piping according to Japan's High-Pressure Gas Safety Law (as of January 2003) is shown below.

(mm)

Temper grade (O type, 1/2H type) in the table indicate the material types specified in JIS H 3300.

				(11111)
Temper grade		O t	уре	
outer diameter	φ 6. 4	φ9.5	φ12.7	φ15.9
smallest thickness	0.80	0.80	0.80	0.99

Temper grade				1/2H	type			(11111)
outer diameter	φ 19.1	¢22.2	¢25.4	¢28.6	¢31.8	¢34.9	φ 38.1	φ41.3
smallest thickness	0.80	0.80	0.88	0.99	1.10	1.21	1.32	1.43

- For information regarding the piping allowable maximum length, allowable height difference, and allowable length after a branch, refer to the installation manual that came with the outdoor unit or Engineering data book.
- The refrigerant branch kit (sold separately) is required for piping branches. For information on how to select a refrigerant branch kit, refer to the Installation Manual that came with the outdoor unit or Engineering data book.

(mm)

6-2 PROTECTION AGAINST CONTAMINATION WHEN INSTALLING PIPES

Protect the piping to prevent moisture, dirt, dust, etc. from entering the piping.

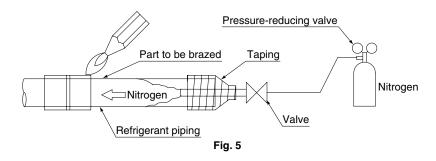
Place	Installation period	Protection method
Outdoor More than a month		Pinch the pipe
Outdoor	Less than a month	Direct or topo the pipe
Indoor	Regardless of the period	Pinch or tape the pipe

NOTE 🗐

Exercise special caution to prevent dirt or dust when passing piping through holes in walls and when passing pipe edges to the exterior.

6-3 PIPING CONNECTION WORK PRECAUTIONS

- When brazing refrigerant piping, begin working after replacing the nitrogen (*1) or perform brazing while nitrogen is flowing in the refrigerant piping (*2) (**Refer to Fig. 5**), and at the end made the indoor unit and BS unit flare connection.
 - (*1) For details on nitrogen replacement, see the "VRV Installation Manual" (available at any Daikin dealer).
 - (*2) The pressure regulator for the nitrogen released when doing the brazing should be set to about 0.02 MPa (0.2kg/cm²:Enough to feel a slight breeze on your cheek).



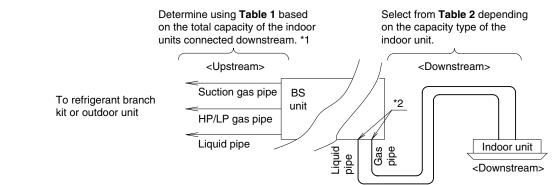
NOTES

- Do not use an anti-oxidizing agent when brazing the piping. Residual debris could clog the piping or cause parts to malfunction.
- Do not use a flux when brazing the refrigerant pipe joints. Using a chlorine flux may cause the pipes to corrode, and if it contains fluoride it may cause the refrigerant lubricant to deteriorate, adversely affecting the refrigerant piping system. Use phosphor copper brazing (BCuP-2: JIS Z 3264/B-Cu93P-710/795: ISO 3677) which does not require flux.

6-4 PIPING SIZE SELECTION

From **Example of connection 1** and **2** below and **Table 1**, **2**, select the piping size between the outdoor unit (refrigerant branch kit) and BS unit, and between the BS unit and the indoor unit (refrigerant branch kit). The closed pipe kit (KHFP26A100C) should be used for selecting reluctantly 6-branch type (BSV6Q100PV1) as 5-branches and 4-branch type (BSV4Q100PV1) as 3 branches, and it is connected to the branch not connected for the indoor unit.

Example of connection 1: When 1 indoor unit is connected downstream from the BS unit



Example of connection 2: When there is a branch downstream from the BS unit

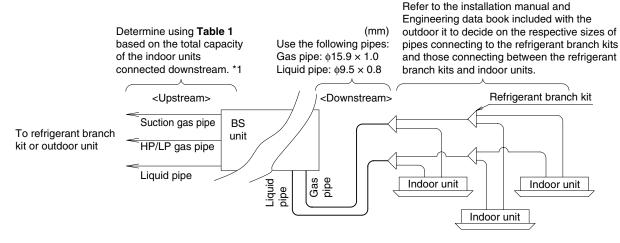


Table 1 Indoor unit total capacity and pipe size

			(mm)	
Indoor capacity index	Piping size (outer diameter × minimum thickness)			
(Q)	Suction gas pipe	HP/LP gas pipe	Liquid pipe	
Q < 150	φ15.9 × 0.99	φ12.7 × 0.80	φ9.5 × 0.80	
150 ≤ Q < 200	φ19.1 × 0.80	φ15.9 × 0.80		
$200 \le Q < 290$	φ22.2 × 0.80	+10.10.90		
290 ≤ Q < 420	φ28.6 × 0.99	φ19.1 × 0.80	φ12.7 × 0.80	
$420 \leq Q \leq 600$	ψ20.0 × 0.99	φ28.6 × 0.99	φ15.9 × 0.80	

*1 In the case of connection to the main pipe, refer to the installation manual provided to the outdoor unit or the Engineering data book.

Table 2 Indoor unit connection pipe size

Capacity type of indoor units	Piping size (outer diameter × minimum thickness)		
	Gas pipe	Liquid pipe	
20, 25, 32, 40, 50	φ12.7 × 0.80	φ6.4 × 0.80	
63, 80, 100	φ15.9 × 0.99	φ9.5 × 0.80	

*2 The BS unit downstream connection pipe sizes are shown below. If the pipe diameter differs from that of the indoor unit connection pipe size selected from **Table 2**, follow the instructions in "6-5 PIPING CON-NECTION" and use the included pipe to make the connection.

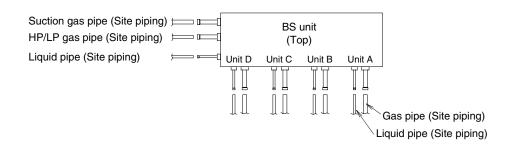
Table 3 BS unit connection pipe size

BS unit	Piping size (outer diameter)				
	Gas pipe	Liquid pipe			
BSV4Q100PV1	+15.0	+0 F			
BSV6Q100PV1	φ 15.9	φ 9 .5			

6-5 PIPING CONNECTION

Follow the connection example below and connect the site piping.

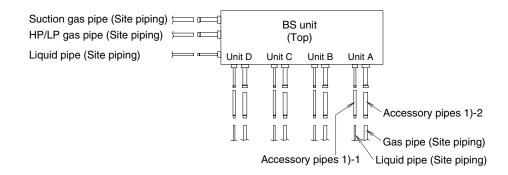
When the downstream indoor unit total capacity is 100 or less and when one indoor unit with a capacity of 63 to 100 is connected downstream.



(mm)

(mm)

When one indoor unit with a capacity of 20 to 50 is connected downstream

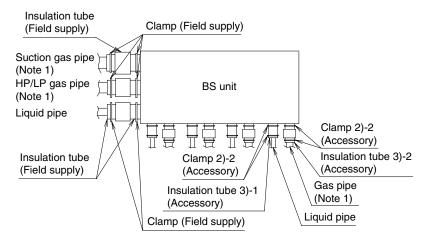


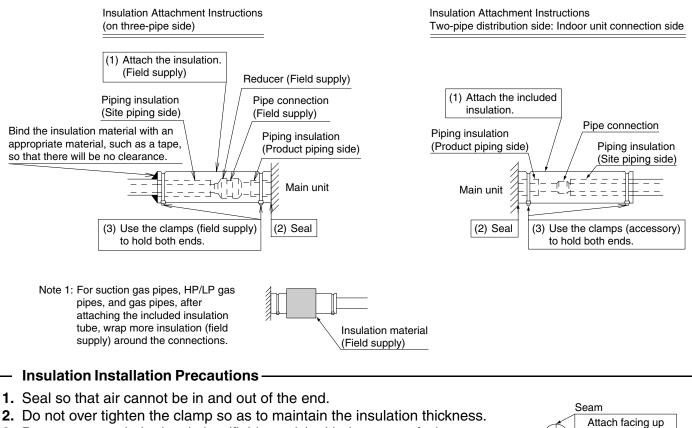
6-6 PIPING INSULATION

• After the gas leak inspection is completed, refer to the following figures and use the included insulation tube 3) and clamps 2) to apply the insulation.

NOTES

- Insulate all of the piping including the liquid pipes, HP/LP gas pipes, suction gas pipes, gas pipes, and the
 pipe connections for these. Not insulting these pipes could result in water leaks or burns. In particular, suction gas flows in the HP/LP gas pipes during full cooling operation, so the same amount of insulation as
 used for the suction gas pipes is required. In addition, high-pressure gas flows in the HP/LP gas pipes and
 gas pipes, so use insulation that can withstand more than 120°C.
- When reinforcing the insulation material for the installation environment, also reinforce the insulation on the piping protruding from the unit and on the pipe connections. Locally purchase the insulation required for the reinforcement work.





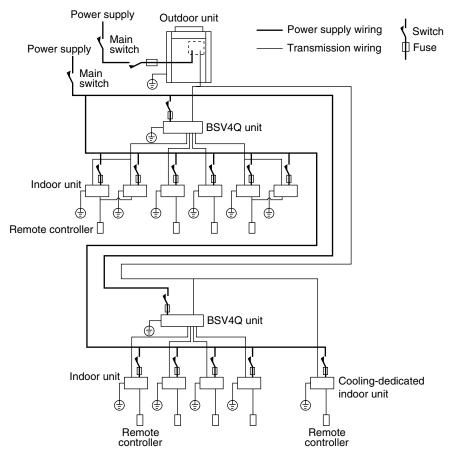
 Be sure to attach the insulation (field supply) with the seams facing up. (See figure at right.)

7. ELECTRIC WIRING WORK

7-1 GENERAL INSTRUCTIONS

- All wiring must be performed by an authorized electrician.
- All field supplied parts and materials, electric works must conform to local codes.
- Always ground wires. (In accordance with national regulations of the pertinent country.)
- Always turn off the power before performing the electric wire installation work.
- Follow the "WIRING DIAGRAM" attached to the unit body to wire the outdoor unit and indoor units.
- Properly connect wire of the specified wire type and copper thickness. Also use the included clamp to avoid applying excessive force to the terminal (field wire, ground wire).
- Do no let the ground wire should come in contact with gas pipes, water pipes, lighting rods, or telephone ground wires.
 - Gas pipes: gas leaks can cause explosions and fire.
 - Water pipes: cannot be grounded if hard vinyl pipes are used.
- Telephone ground and lightning rods: the ground potential when struck by lightning gets extremely high.
- A circuit breaker capable of shutting down the power supply to the entire system must be installed.
- This system consists of multiple BS units. Mark each BS unit as unit A, unit B . . . , and be sure the terminal board wiring to the outdoor unit and indoor unit are properly matched. If wiring and piping between the outdoor unit, BS unit and an indoor unit are mismatched, the system may cause a malfunction.
- Do not turn on the power supply (branch switches, overload interrupters) until all other work is done.

7-2 EXAMPLE FOR THE WHOLE SYSTEM



7-3 POWER CIRCUIT, SAFETY DEVICE AND CABLE REQUIREMENTS

- A power circuit (Refer to Table 3) must be provided for connection of the unit. This circuit must be protected with the required safety devices, i.e. a main switch, a slow blow fuse on each phase and an earth leakage circuit breaker.
- When using residual current operated circuit breakers, be sure to use a high-speed type (0.1 second or less) 30mA rated residual operating current.
- Use copper conductors only.
- Use insulated wire for the power cord.
- Select the power supply cable type and size in accordance with relevant local and national regulations.
- Specifications for local wiring are in compliance with IEC60245.
- Use wire type H05VV-U3G for power supply wiring. And the size must comply with local codes.
- Use vinyl cord with sheath or cable (2 wire) of 0.75-1.25mm² for transmission wiring.

Table 3

	Units				Power supply		
Model	Туре	Hz	Voltage	Min.	Max.	MCA	MFA
BSV4Q100P	V1	50 000 040	220-240	100	064	0.5	15
BSV6Q100P	50 220-240	198	264	0.8	15		

MCA: Min. Circuit Amps (A);

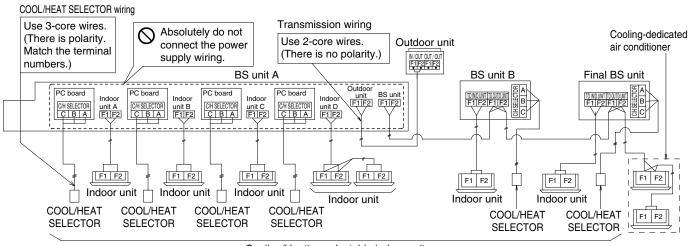
MFA: Max. Fuse Amps (A)

NOTES

- The above Table 3 of Electrical Characteristics refers to one BS unit.
- See the Engineering data book for other details.

7-4 WIRING EXAMPLE

- Here is shown a wiring example for one system transmission wiring.
- Connect terminals F1 and F2 (TO IN/D UNIT) on the control PCB in the outdoor unit EL. COMPO. BOX and terminals F1 and F2 (TO OUT/D UNIT) of the control PCB (A1P) of the first BS unit A.



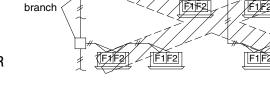
Cooling/Heating selectable indoor unit

NOTES

- 1. Connect cooling-dedicated air conditioners to terminals F1 and F2 (TO OUT/D UNIT) of the final BS unit.
- 2. Use 2-core wire for the transmission wiring. Using a multi-core wire with 3 or more cores when two or more indoor units are used at once could cause abnormal stoppage. (Only use 3-core wire in the COOL/HEAT SELECTOR.)
- 3. Absolutely do not connect the power supply wiring to the transmission wiring terminal block. Doing so could damage the entire system.
- **4.** For the transmission wiring, use wire that is within the following ranges. Exceeding these limits could cause a transmission error.
 - (1) Between an outdoor unit and BS unit,

Between a BS unit and indoor unit, and Between a BS unit and BS unit Maximum wiring length: 1000m or less Total wiring length: 2000 or less Branch point max: 16 branch points

(2) Between a BS unit and COOL/HEAT SELECTOR Maximum wiring length: 500m or less



7-5 WIRING CONNECTIONS

Remove the EL. COMPO. BOX lid on the side and follow the directions to connect the wires.

(Transmission wiring)

Remove the EL. COMPO. BOX lid and connect the wires to F1 and F2 (TO IN/D UNIT: A~F), F1 and F2 (BS UNIT) and F1 and F2 (TO OUT/D UNIT) transmission wiring terminals (control PCB (A1P)).

Indoor units E and F are BSV6Q models (PV1 only)

At this time, pass the wiring into the unit through the wiring through hole (right) and use the included clamps 2) to securely hold the wires (in 2 places).

NOTE

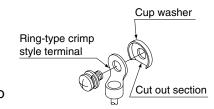
Check that the piping line coincides with the transmission wiring.

(Power supply wiring and ground wire)

Remove the EL. COMPO. BOX lid and connect the power supply wiring to the power terminal block (X1M).

Also connect the ground wire to the ground wire terminal. Pass both the power supply wire and the ground wire together through the wire through hole (left) and into the EL. COMPO. BOX and use the included clamps 2) to securely hold the wires (in 2 places).

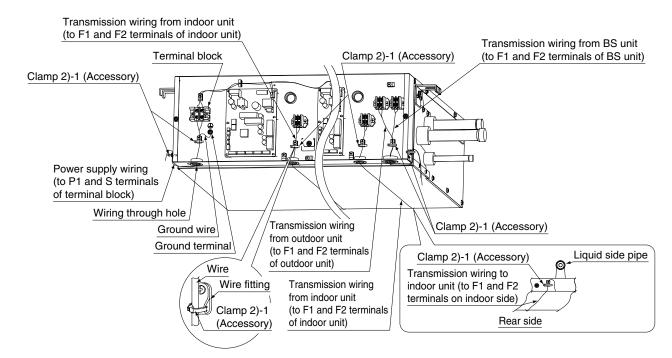
Be sure to wire the ground wire so that comes out of the slit in the cup washer.



Sub-branching

F1F2

(Not doing so could cause insufficient ground wire contact and causing the wire not to function as a ground.)



NOTES

 Use ring-type crimp style terminal for connections to the power terminal block. (Refer to Fig. 6) Also, insulate the crimped area by attaching an insula-

Also, insulate the crimped area by attaching an insulation sleeve, etc.

If these are not available, see the following section.

(a) Wiring of different thicknesses cannot be connected to the power terminal block.

(A loose connection could cause abnormal heating.)

- (b) When connecting wire of the same diameter, make the connection as shown in the figure 7.
- Do not finish the conductive part of the power supply wires with lead-tin solder.
- Use an appropriate screwdriver for tightening the terminal screw.

Using a screwdriver that is too small could damage the screw head and prevent proper tightening.

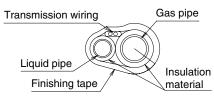
• Over tightening the terminal screw could damage the screw.

Refer to the Table 4 for the terminal screw tightening torque.

 When fastening the wire, use the included clamp 2)-1 so as not to apply tensile force to the wire connection and then securely fasten the wire. Also, after wiring is completed, organize the wiring so that the EL. COMPO. BOX lid does not pop up and then properly replace the EL. COMPO. BOX lid. Make sure no wires are pinched when replacing the EL. COMPO. BOX lid. Always use the wire through hole to protect the wires.

 Do not pass the transmission wiring and power supply wiring through the same locations and outside of the unit keep them separated by at least 50mm.
 Not doing so could cause the transmission wiring to pick up electric noise (external noise) and result in a malfunction or breakdown.

- After the wiring working is complete, use sealer (field supply) to seal closed the wire through hole. (Entry by small animals, etc., could cause a malfunction.)
- As shown on the right-hand side, wrap the transmission wiring between each BS unit and indoor unit with a finishing tape (field supply) together with the on-site refrigerant piping.



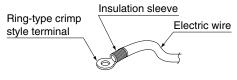


Fig. 6

Do not connect wires of the same gauge to one side.

Connect wires of the

same gauge to both

sides

Table 4





Fig. 7

Terminal screw sizeTightening torque (N/m)M3.5 (COOL/HEAT SELECTOR/transmission
wiring terminal block)0.80-0.96M4 (Power supply terminal block)1.18-1.44M4 (Ground terminal)1.52-1.86

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8. INITIAL SETTING

• When the refrigerant piping and wire installation work is completed, make the following settings as required.

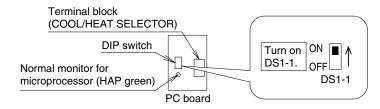
1. Setting for when connecting the COOL/HEAT SELECTOR to the BS unit.

(Setting description)

Set the input signal from the COOL/HEAT SELECTOR (sold separately) to ON/OFF.

(Setting method)

Set the dip switches (DS1-1) on PCB (A1P) as shown at left before turning on the power to the BS unit.



NOTES

This setting is read by the microcomputer when the BS unit power is turned on.

- Be sure to make the setting before turning on the power.
- Always close the EL. COMPO. BOX lid after making the setting.
- 2. Setting when changing the "Automatic mode differential" in the Cooling/Heating Automatic Operation Mode.

(Setting description)

- The "Automatic mode differential" can be changed within the range of 0°C to 7°C (0°C at factory shipment).
- For details regarding the "Automatic mode differential" and indoor unit operation, refer to the "Engineering data book".

(Setting method)

The setting is made using the "Local Setting Mode" by the remote controller of indoor unit connected to the BS unit.

For information regarding the setting method, refer to "Engineering data book".

The following table gives a list of the "MODE NO.," "FIRST CODE NO.," and "SECOND CODE NO."

NOTES

This setting is operated by the operation remote controller while the indoor unit power is turned on.

• When the indoor unit, outdoor unit, and BS unit installation work is completed, confirm that it is safe even with the power turned on before proceeding with the work.

MODE NO.	FIRST CODE NO.	SECOND CODE NO.	Automatic mode differential (°C)	
12 (22)	4	1	0	← At factory shipment.
		2	1	
		3	2	
		4	3	
		5	4	
		6	5	
		7	6	
		8	7	

9. CHECK OPERATION AND TEST OPERATION

- (1) Check to make sure the EL. COMPO. BOX lid is closed.
- (2) Refer to the installation manual provided to the outdoor unit and conduct a check and a test run after all the work on the BS unit and outdoor and indoor units is completed and the operational safety of the units is confirmed.
 - Clicking or humming sounds will continue for about 20 sec immediately after the power is turned on due to the start of automatic initialization operation (closing) of the solenoid valve, but this is not a problem.