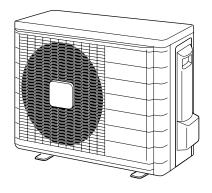


INSTALLATION MANUAL

R410A Split Series





Models RXS20E2V1B RXS25E2V1B RXS35E2V1B

RKS20E2V1B RKS25E2V1B RKS35E2V1B

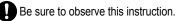
Installation manual R410A Split series	English
Installationsanleitung Split-Baureihe R410A	Deutsch
Manuel d'installation Série split R410A	Français
Montagehandleiding R410A Split-systeem	Nederlands
Manual de instalación Serie Split R410A	Español
Manuale d'installazione Serie Multiambienti R410A	Italiano
Εγχειρίδιο εγκατάστασης διαιρούμενης σειράς R410A	Ελληνικά
Manual de Instalação Série split R410A	Portugues
Руководство по монтажу Серия R410A с раздельной установкой	Русский
Montaj kılavuzları R410A Split serisi	Türkçe

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 DAIKIN INDUSTRIES, LTD. 01 (a) declares under its sole responsibility that the air conditioning models to which this declaration relates: 02 (a) exklart auf seme allening Varamkortung daß die Modelle der Klimageräte für die diese Erklärung bestimmt ist: 03 (b) exklart auf seme allening Varamkortung daß die Modelle der Klimageräte für die diese Erklärung bestimmt ist: 04 (b) erklärt auf seme allening varamkortung daß die Modelle der Klimageräte für die diese Erklärung bestimmt ist: 05 (c) diedara begis un unter responsabilité que lese appareits dati de allonomé visés par la présente déclaration: 05 (c) diotara sobis au exclusion responsabilité que les conditionation a los cuales hace referencia la declaración: 06 (c) diotara sobis au exclusion responsabilité que les condicionado a cue sta declaración: 06 (c) diotara sobis au exclusion responsabilité que les condicionado a que esta declaración: 06 (c) diotara sobis au exclusion responsabilité que les modello a cue i fineth questa declaración enterencia a declaración: 06 (c) diotara sobis au exclusion responsabilité que les modello a cue i fineth questa declaración enterencia declaración: 06 (c) diotara sobis au exclusion responsabilitáde que es modello a cue i fineth questa declaración enterencia a declaración: 08 (c) diotara sobis au exclusion responsabilité que sua declaración enterencia declaración: 08 (c) adara sobis au exclusion responsabilité que somoleconado a que esta declaración enterencia declaración enterencia declaración enterencia declaración enterencia declaración enterencia declaración enterecia declaración enterencia declaración enterencia declaración enterecia enterecia declaración enterecia enterecia declaración enterecia enterecia declaración enterecia enterecia enterecia enterecia enterecia entereterencia declaración enterecia ente	 Warterer under eneartsvar, at klimaanlægmodellerne, som denne dekkaration vedrører: Se erklærer under eneartsvar, at klimaanlægmodellerne, som denne dekkaration vedrører: Se erklærer et fullstendig ansvar for at de luftkondigioneringsmodellerna som berörs av denne dekkaration innebär att: E en erklærer et fullstendig ansvar for at de luftkondisjoneringsmodeller som beröres av denne dekkaration innebär att: E en innohasi veisionnaan omalår vastuulaan, etitä tändan ilmotuksen tarkoftama tilmastömidiateiden malit: E en pinebisije ve siv pine odpoverinosti, ze modely klimatizzae, k imit ze tolo pohlåsion 'tzlahuje. E en järjelingi pod klitör va lästum odpovornedstu da at models klima utedja na koje sov az java odrosi: E elles feleliössége tuddatban kijelent, hogy a klimaberendezäs modellek, melyekre e nyllakrozat vonatkozik: E elles feleliössége tuddatban kijelent, hogy a klimaberendezäs modellek, melyekre e nyllakrozat vonatkozik: B elle deliössége tudatban kijelent, hogy a klimaberendezäs modellek, melyekre e nyllakrozat vonatkozik: 	 19 (iii) 2 viso odgovomosijo izjavlja, da so modeli klimatskih naprav, na kalere se Uzjava nanaša: 20 (iii) klimitab ona tijalikul vastutusel, et klasoleva dekaratsiooni alta kuutuvad klimaseadmete mudelid: 21 (iii) декларира на своя отговорност, че моделите климатична инсталация, за които се отнася тази декларация: 22 (iii) stiškis savo ataskom/be skelba, kad oro kondicionavimo priečisti, noteliaji, kurimen syra atkoma i dekaracija: 23 (iiii) a tipikul vasturuse) skelba, kad oro kondicionavimo priečisti, runientiji uz kurime natiecas i dekaracija: 24 (iii) v prilavuju a vasti u aktiva tastatito modelju gask kondicioneligiji uz kurime natiecas i dekaracija: 25 (iii) a mamen kendi sorumlulugunda olmak üzere bu bildirini rigli olduğu klima modellerinin sşağıdaki gibi olduğuru beyan eder.
 are in conformity with the following standard(s) or other normative document(s), provided that these are used in accordance with our instructional independent Normien) other energy and accordance with our instructional holemolen Normien) other energy and accordance with our 22 electron topienden Normien) other energy and and accordance with our data stantistic provided that these are used in accordance with our 32 electron topienden Normien) other energy and an accordance with our data stantistic provided that these are used in accordance with our data stantistic provided that these are used in accordance with our data stantistic provided that these are used in accordance with our data stantistic provided that the original and an accordance independent and accordance and an accordance of accordance and accordance of accordance and an accordance accordanc	 de estão em conformidade com a(s) seguine(s) norma(s) ou outro(s) documento(s) normativo(s), desde que estes sejam utilizados de acoroans nossas invessa instruções: do acordo com a nossa invessa instruções: do acordo com a nossa invessa instruções: do acordo com a nossa invessa instruções: do acordo de indegarde com a quarta mante, a moderante a normativa in variante a moderante a comacion parauma mercipande a do acor isigne de acorda de acorda at disse anvendes i henhold til vore instrukes: do acordo de indegarde standard(en) eller ander andre andre andre andre anorgivende dokument, under foutsetiming ar at fasse bukes i henhold til varia instruktione: respektive utustyr er i overensstammelse med tagende standard(en) eller andre andre andre andre anorgivende dokument, under foutsetimig ar at disse bukes i henhold ta varianta servavane acordo de servata servavanes: respektive utstyr er i overensstammelse med tagende standard(en) eller andre anormagivende dokument, under foutsetimig ar at disse bukes i henhold ta varianta servavane sarradarden ja muden objeeditsten e andre anormagivende dokumentien variandardise de acorda at disse at disse at disse at disse at a servavane sarradarden ja muden objeeditsten e dovidadu. Ze jou vuziváry v souladu s nasimi pokyny, odpovidaji následujicim normativnim dokumentum: ustada se sijedecim standardon (an illu dugim normativnim dokumentom (ima), uz viet da se on konste u skadu s našim uputama: 	 Greegletelnek zz alabbi szabvány(ok)nak vagy egyéb rányadó dokumentum(ok)nak, ha azokat előírás szerint használják. T pepindja, wirnogi następujących nocm i imnych dokumentów normálizacy/inych, pod waturkiem že uzywane są zgodnie z naszymi instrukcjami. Is sun i no onformitale cu urmátorul (urmátoarele) standard(e) sau alt(e) document(e) normálizacy/inych, pod waturkiem že uzywane są zgodnie z naszymi instrukcjami. Is sun i no onformitale cu urmátorul (urmátoarele) standard(e) sau alt(e) document(e) normátika (v cu condiga ca acestea sá fie utilizate in ocnomitale cu urmátorul (urmátoarele) standard(e) sau alt(e) document(e) normátiv(e), cu condiga ca acestea sá fie utilizate in ocnomitale cu urmátorul (urmátoarel) standard (e) sau alt(e) document(e) normátiv(e), cu condiga ca acestea sá fie utilizate in continuates cu transdurvalumite normátiv, pod pogojem, da se uponabljajo v skladu z naštimi navodili: Zo on vastavase járgnist(t) e standard (e) gadu síne standaríbe dokumentus su salyga, kad yra naudojami pagal músų nurodymus: Za altinka žmita unurodytus standartus ir (atrab) kluts norminius dokumentus su salyga, kad yra naudojami pagal músų nurodymus: Za si v iznode s nastoonorus(ym) normou(ami) alebo iným(t) normátivami o citiem normátivam dokumentem: Za sú v iznode s nastoonorus(ym) normou(ami) alebo iným(t) normativami (o dokumentom) za predpokladu, že sa používaju v súlade s našim nábrodzi St úrniún, talimatiaruruza göre kullanitmas kosjutya tandartiar ve norm bellene belgelene uyumhudur:
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SSB63767-3A	Noboru Murata Manager Quality Control Department Shiga, 1st of Jul. 2006	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.

• The following safety symbols are used throughout this manual:



Be sure to establish an earth connection.

Never attempt.

• 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.

Γ	<u> MARNING</u>
	Installation should be left to the dealer or another professional. Improper installation may cause water leakage, electrical shock, or fire.
F	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.
L	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.
Γ	• 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.
Γ	 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.
L	(Failure to do so may cause abnormal heat, electric shock or fire.)
	Use the specified types of wires for electrical connections between the indoor and outdoor units.
L	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.
L	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.
L	(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.
ŀ	(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 stop 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.
F	During installation, attach the refrigerant piping securely before running the compressor.
	If the compressor is not attached and the stop 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 an earth. Do not earth the unit to a utility pipe, arrester, or telephone earth.
L	
L	• Be sure to install an earth leakage breaker. Failure to install an earth leakage breaker may result in electric shocks, or fire.
Г	
	• 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.
F	Establish drain piping according to the instructions of this manual. Inadequate piping may cause flooding.
F	Note for installing the outdoor unit. (For heat pump model only.)
I	In cold area where the outside air temperature keep below or around freezing-point for a few days, the outdoor unit's drain may freeze.
l	If so, it is recommended to install an electric heater in order to protect drain from freezing.
Γ	 Tighten the flare nut according to the specified method such as with a torque wrench.
L	If the flare nut is tightened too hard, the flare nut may crack after a long time and cause refrigerant leakage.
I	 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.
	Sunda dounde maxing contact with Electrical rate rate for and concerned and the provide of the fieldse instructione costoner to record a fed structure of the only clean

Accessories

Accessories supplied with the outdoor unit:

(A) Installation Manual

(B) Drain plug (Heat pump-Models)

(b) brain plug (near partip modelo)	
There is on the bottom packing case.	

1

Precautions for Selecting the Location

1

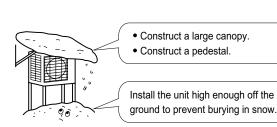
- 1) Choose a place solid enough to bear the weight and vibration of the unit, where the operation noise will not be amplified.
- 2) Choose a location where the hot air discharged from the unit or the operation noise will not cause a nuisance to the neighbors of the user.
- 3) Avoid places near a bedroom and the like, so that the operation noise will cause no trouble.
- 4) There must be sufficient spaces for carrying the unit into and out of the site.
- 5) There must be sufficient space for air passage and no obstructions around the air inlet and the air outlet.
- 6) The site must be free from the possibility of flammable gas leakage in a nearby place.
- 7) Install units, power cords and inter-unit cables at least 3 meter away from television and radio sets. This is to prevent interference
- to images and sounds. (Noises may be heard even if they are more than 3 meter away depending on radio wave conditions.) 8) In coastal areas or other places with salty atmosphere of sulfate gas, corrosion may shorten the life of the air conditioner.
- 9) Since drain flows out of the outdoor unit, do not place under the unit anything which must be kept away from moisture.

NOTE

Cannot be installed hanging from ceiling or stacked.

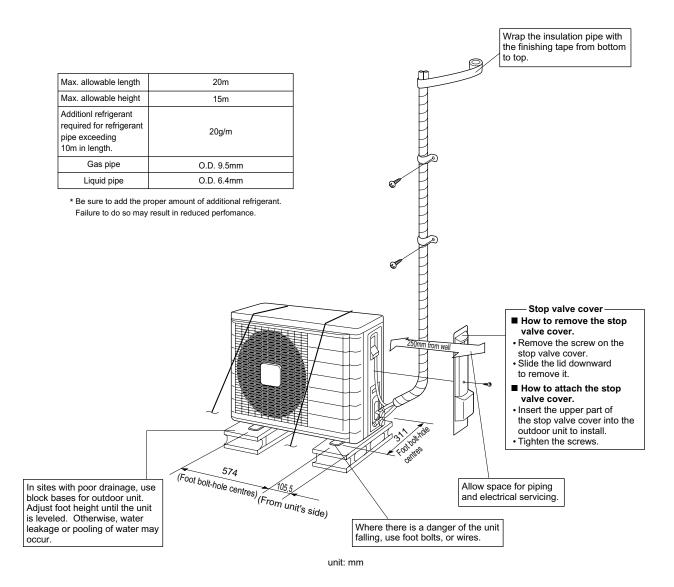
When operating the air conditioner in a low outdoor ambient temperature, be sure to follow the instructions described below.

- To prevent exposure to wind, install the outdoor unit with its suction side facing the wall.
- Never install the outdoor unit at a site where the suction side may be exposed directly to wind.
- To prevent exposure to wind, it is recommended to install a baffle plate on the air discharge side of the outdoor unit.



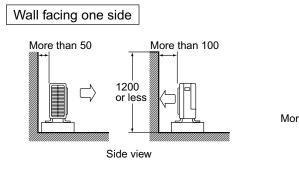
4) In heavy snowfall areas, select an installation site where the snow will not affect the unit.

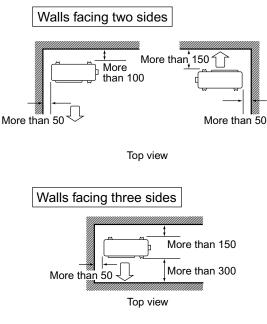
Outdoor Unit Installation Drawings



Installation Guidelines

Where a wall or other obstacle is in the path of outdoor unit's intake or exhaust airflow, follow the installation guidelines below.
For any of the below installation patterns, the wall height on the exhaust side should be 1200mm or less.

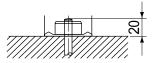




Unit: mm

Precautions on Installation

- Check the strength and level of the installation ground so that the unit will not cause any operating vibration or noise after installed.
 In accordance with the foundation drawing, fix the unit securely by means of the foundation bolts. (Prepare four sets of M8 or M10
- foundation bolts, nuts and washers each which are available on the market.)
- It is best to screw in the foundation bolts until their length are 20mm from the foundation surface.



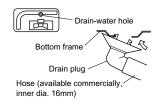
Outdoor Unit Installation

1. Installing outdoor unit.

- 1) When installing the outdoor unit, refer to "Precautions for Selecting the Location" and the "Outdoor Unit Installation Drawings."
- 2) If drain work is necessary, follow the procedures below.

2. Drain work. (Heat pump-models.)

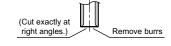
- 1) Use drain plug for drainage.
- 2) If the drain port is covered by a mounting base or floor surface, place additional foot bases of at least 30mm in height under the outdoor unit's feet.
- In cold areas, do not use a drain hose with the outdoor unit. (Otherwise, drain water may freeze, impairing heating performance.)

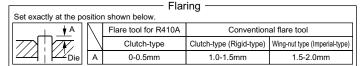


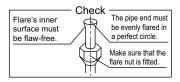
Outdoor Unit Installation

3. Flaring the pipe end.

- 1) Cut the pipe end with a pipe cutter.
- 2) Remove burrs with the cut surface facing downward so that the chips do not enter the pipe.
- 3) Put the flare nut on the pipe.
- 4) Flare the pipe.
- 5) Check that the flaring is properly made.





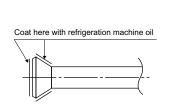


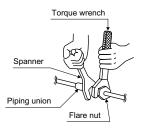
🕂 WARNING -

- 1) Do not use mineral oil on flared part.
- 2) Prevent mineral oil from getting into the system as this would reduce the lifetime of the units.
- 3) Never use piping which has been used for previous installations. Only use parts which are delivered with the unit.
- 4) Do never install a drier to this R410A unit in order to guarantee its lifetime.
- 5) The drying material may dissolve and damage the system.
- 6) Incomplete flaring may cause refrigerant gas leakage.

4. Refrigerant piping.

- 1) Align the centres of both flares and tighten the flare nuts 3 or 4 turns by hand. Then tighten them fully with the torque wrenches.
- Use torque wrenches when tightening the flare nuts to prevent damage to the flare nuts and escaping gas.
- 2) To prevent gas leakage, apply refrigeration machine oil on both inner and outer surfaces of the flare. (Use refrigeration oil for R410A)





(110~150kgf • cm)

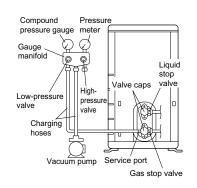
Flare nut tightening torque		Valve cap tightening torque		
Gas side Liquid side		Gas side	Liquid side	
3/8 inch	1/4 inch	3/8 inch	1/4 inch	
32.7-39.9N • m (333-407kgf • cm)	14.2-17.2N • m (144-175kgf • cm)	21.6-27.4N • m (220-280kgf • cm)	21.6-27.4N • m (220-280kgf • cm)	
		Service port cap	10.8~14.7N • m	

tightening torque

5. Purging air and checking gas leakage.

• When piping work is completed, it is necessary to purge the air and check for gas leakage.

- 1) Do not mix any substance other than the specified refrigerant (R410A) into the refrigeration cycle.
- 2) When refrigerant gas leaks occur, ventilate the room as soon and as much as possible.
- 3) R410A, as well as other refrigerants, should always be recovered and never be released directly into the environment.
- Use a vacuum pump for R410A exclusively. Using the same vacuum pump for different refrigerants may damage the vacuum pump or the unit.
- If using additional refrigerant, perform air purging from the refrigerant pipes and indoor unit using a vacuum pump, then charge additional refrigerant.
- · Use a hexagonal wrench (4mm) to operate the stop valve rod.
- All refrigerant pipe joints should be tightened with a torque wrench at the specified tightening torque.



1) Connect projection side of charging hose (which comes from gauge manifold) to gas stop valve's service port.

- Fully open gauge manifold's low-pressure valve (Lo) and completely close its high-pressure valve (Hi). (High-pressure valve subsequently requires no operation.)
- 3) Do vacuum pumping and make sure that the compound pressure gauge reads -0.1MPa (-76cmHg)*1.

 Close gauge manifold's low-pressure valve (Lo) and stop vacuum pump. (Keep this state for a few minutes to make sure that the compound pressure gauge pointer does not swing back.)*2.

5) Remove caps from liquid stop valve and gas stop valve.

6) Turn the liquid stop valve's rod 90 degrees counterclockwise with a hexagonal wrench to open valve. Close it after 5 seconds, and check for gas leakage. Using soapy water, check for gas leakage from indoor unit's flare and outdoor unit's flare and valve rods. After the check is complete, wipe all soapy water off.

 Disconnect charging hose from gas stop valve's service port, then fully open liquid and gas stop valves. (Do not attempt to turn valve rod beyond its stop.)

8) Tighten valve caps and service port caps for the liquid and gas stop valves with a torque wrench at the specified torques.

*1. Pipe length vs. vacuum pump run time.

Pipe length	Up to 15 metres	More than 15 metres	
Run time	Not less than 10 min.	Not less than 15 min.	

*2. If the compound pressure gauge pointer swings back, refrigerant may have water content or a loose pipe joint may exists. Check all pipe joints and retighten nuts as needed, then repeat steps 2) through 4).

Outdoor Unit Installation

6. Refilling the refrigerant.

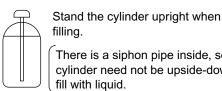
Check the type of refrigerant to be used on the machine nameplate.

Precautions when adding R410A

Fill from the liquid pipe in liquid form.

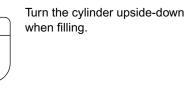
- It is a mixed refrigerant, so adding it in gas form may cause the refrigerant composition to change, preventing normal operation.
- 1) Before filling, check whether the cylinder has a siphon attached or not. (It should have something like "liquid filling siphon attached" displayed on it.)

Filling a cylinder with an attached siphon



filling. There is a siphon pipe inside, so the cylinder need not be upside-down to fill with liquid.

Filling other cylinders



· Be sure to use the R410A tools to ensure pressure and to prevent foreign objects entering.

7. Refrigerant piping work.

7-1 Cautions on pipe handling.

- 1) Protect the open end of the pipe against dust and moisture.
- 2) All pipe bends should be as gentle as possible. Use a pipe bender for bending.
 - (Bending radius should be 30 to 40mm or larger.)

7-2 Selection of copper and heat insulation materials.

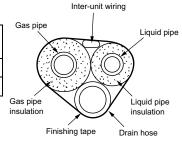
When using commercial copper pipes and fittings, observe the following:

- 1) Insulation material: Polyethylene foam
- Heat transfer rate: 0.041 to 0.052W/mK (0.035 to 0.045kcal/(mh •°C)) Refrigerant gas pipe's surface temperature reaches 110°C max. Choose heat insulation materials that will withstand this temperature.
- 2) Be sure to insulate both the gas and liquid piping and to provide insulation dimensions as below.

Gas side	Liquid side	Gas pipe thermal insulation	Liquid pipe thermal insulation	
O.D. 9.5mm	O.D. 6.4mm	I.D. 12-15mm	I.D. 8-10mm	
Thickness 0.8mm		Thickness 10mm Min.		

3) Use separate thermal insulation pipes for gas and liquid refrigerant pipes.





Pump Down Operation

In order to protect the environment, be sure to pump down when relocating or disposing of the unit.

- 1) Remove the valve cap from liquid stop valve and gas stop valve.
- 2) Carry out forced cooling operation.
- 3) After five to ten minutes, close the liquid stop valve with a hexagonal wrench.
- 4) After two to three minutes, close the gas stop valve and stop forced cooling operation.

How to force cooling operation mode

- Using the outdoor unit forced cooling operation switch
 - 1) Push on "" with a screwdriver. The unit will start operating.
 - 2) The forced cooling mode is selected, and terminates in approx. 15 minutes.

Using the indoor unit operation/stop button

- Press the indoor unit operation/stop button for at least five seconds. (Operation will start.)Forced cooling operation will stop automatically after around 15 minutes.
- To force a test run to stop, press the indoor unit operation/stop button.

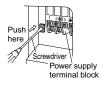
Using the main unit's remote control

- 1) Press the "operation/stop" button.
- (Operation will start.)
- 2) Press the temperature **A v** button and the "operation select" button at the same time.
- 3) Press the "operation select" button twice.
 - (γ will be displayed and the unit will enter test run mode.)
- 4) Press the "operation select" button to return the operation mode to cooling.
- Test run mode will stop automatically after around 30 minutes. To force a test run to stop, press the operation/stop button.

1) When pressing the switch, do not touch the terminal block. It has a high voltage, so doing so may cause electric shock.

2) After closing the liquid stop valve, close the gas stop valve within three minutes, then stop the forced operation.

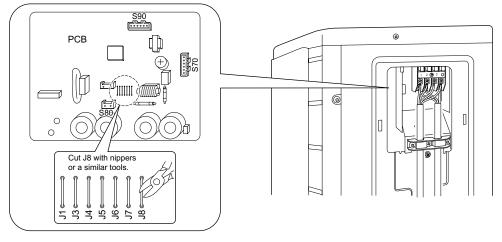
Liquid stop valve Gas stop valve Valve cap



Facility Setting (cooling at low outdoor temperature)

This function is limited only for facilities (the target of air conditioning is equipment (such as computer)). Never use it in a residence or office (the space where there is a human).

1) <u>Cutting jumper8 (J8)</u> on the circuit board will expand the operation range down to -15°C. However it will stop if the outdoor temperature drops below -20°C and start back up once the temperature rises again.



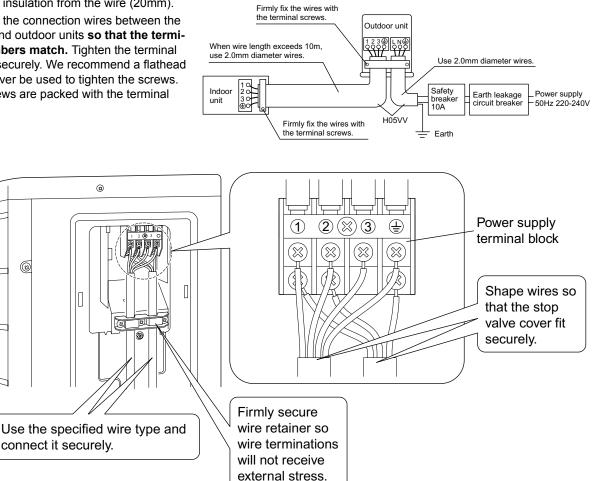
- 1) If the outdoor unit is installed where the heat exchanger of the unit is exposed to direct wind, provide a windbreak wall.
- 2) Intermittent noises may be produced by the indoor unit due to the outdoor fan turning on and off when using facility settings.3) Do not place humidifiers or other items which might raise the humidity in rooms where facility settings are being used.
- A humidifier might cause dew jumping from the indoor unit outlet vent.
- 4) Cutting jumper 8 (J8) sets the indoor fan tap to the highest position. Notify the user about this.

Wiring

- 1) Do not use tapped wires, stranded wires, extension cords, or starburst connections, as they may cause overheating, electrical shock, or fire.
- 2) Do not use locally purchased electrical parts inside the product. (Do not branch the power for the drain pump, etc., from the terminal block.) Doing so may cause electric shock or fire.
- 3) Be sure to install an earth leak detector. (One that can handle higher harmonics.) (This unit uses an inverter, which means that it must be used an earth leak detector capable handling harmonics in order to prevent malfunctioning of the earth leak detector itself.)
- 4) Use an all-pole disconnection type breaker with at least 3mm between the contact point gaps.

Do not turn ON the safety breaker until all work is completed. ٠

- 1) Strip the insulation from the wire (20mm).
- 2) Connect the connection wires between the indoor and outdoor units so that the terminal numbers match. Tighten the terminal screws securely. We recommend a flathead screwdriver be used to tighten the screws. The screws are packed with the terminal board.



Observe the notes mentioned below when wiring to the power supply terminal board.

Precautions to be taken for power supply wiring.

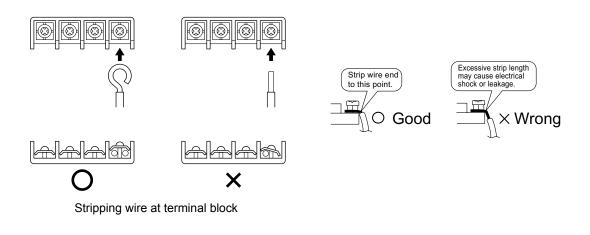
6

Use a round crimp-style terminal for connection to the power supply terminal board. In case it cannot be used due to unavoidable reasons, be sure to observe the following instruction.

Place the round crimp-style terminals on the wires up to the covered part and secure in place.



When connecting the connection wires to the terminal board using a single core wire, be sure to perform curling. Problems with the work may cause heat and fires.



3) Pull the wire and make sure that it does not disconnect. Then fix the wire in place with a wire stop.

Test Run and Final Check

1. Trial operation and testing.

- 1-1 Measure the supply voltage and make sure that it falls in the specified range.
- 1-2 Trial operation should be carried out in either cooling or heating mode.
- For heat pump
- In cooling mode, select the lowest programmable temperature; in heating mode, select the highest programmable temperature.
 - 1) Trial operation may be disabled in either mode depending on the room temperature.
 - Use the remote control for trial operation as described below.
 - 2) After trial operation is complete, set the temperature to a normal level (26°C to 28°C in cooling mode, 20°C to 24°C in heating mode).
 - 3) For protection, the system disables restart operation for 3 minutes after it is turned off.

For cooling only

- Select the lowest programmable temperature.
 - 1) Trial operation in cooling mode may be disabled depending on the room temperature.
 - Use the remote control for trial operation as described below.
 - 2) After trial operation is complete, set the temperature to a normal level (26°C to 28°C).
 - 3) For protection, the unit disables restart operation for 3 minutes after it is turned off.
- 1-3 Carry out the test operation in accordance with the operation manual to ensure that all functions and parts, such as louver movement, are working properly.
 - The air conditioner requires a small amount of power in its standby mode. If the system is not to be used for some time after installation, shut off the circuit breaker to eliminate unnecessary power consumption.
 - If the circuit breaker trips to shut off the power to the air conditioner, the system will restore the original operation mode when the circuit breaker is opened again.

2. Test items.

Test items	Symptom (diagnostic display on RC)	Check
Indoor and outdoor units are installed properly on solid bases.	Fall, vibration, noise	
No refrigerant gas leaks.	Incomplete cooling/heating function	
Refrigerant gas and liquid pipes and indoor drain hose extension are thermally insulated.	Water leakage	
Draining line is properly installed.	Water leakage	
System is properly earthed.	Electrical leakage	
The specified wires are used for interconnecting wire connections.	Inoperative or burn damage	
Indoor or outdoor unit's air intake or exhaust has clear path of air. Stop valves are opened.	Incomplete cooling/heating function	
Indoor unit properly receives remote control commands.	Inoperative	

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