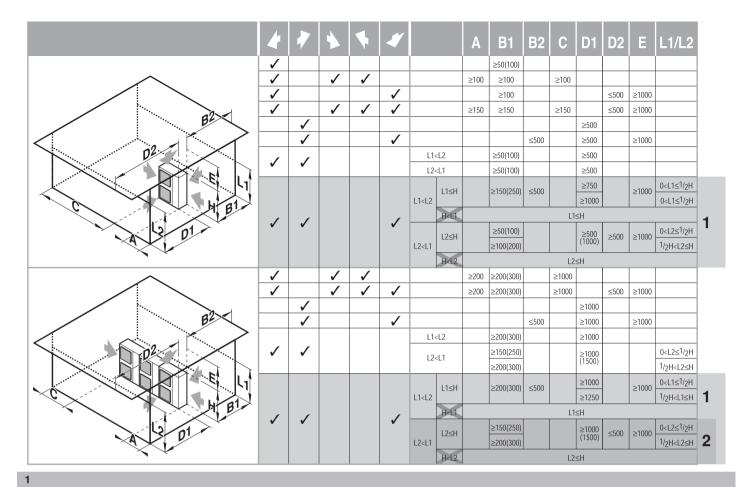
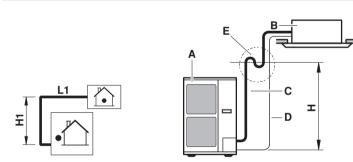


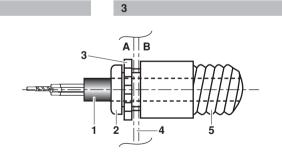
INSTALLATION MANUAL

Split System air conditioners

CE - DECLARATION-OF-CONFORMITY CE - DECLAR CE - KONFORMITÄTSERKLÄRUNG CE - DICHAR CE - DECLARATION-DE-CONFORMITE CE - AHAD2H CE - CONFORMITEITSVERKLARING	CE - DECLARACION-DE-CONFORMIDAD CE - DICHIARAZIONE-DI-CONFORMITA CE - AHADZH ZYMMOPΦDZHE CE - AHADZH ZYMMOPΦDZHE	E - DECLARAÇÃ(E - 3AABJEHÚE-(E - OVERENSTE E - FÖRSÅKRAN-O	CE - DECLARAÇÃO-DE-CONFORMIDADE CE - 3ARBITEHNE-O-COOTBETCTBIN CE - OVERENSSTEMMEL SESERKLÆRING CE - FÖRSÄKRAN-OM-ÖVERENSTÄMMELSE	CE - ERKLÆRING OM-SAMSVAR Ce - Ilmoitus-Yhdenmukaisuudesta Ce - Prohlåsni-O.Shodé	I-SAMSVAR INMUKAISUUDESTA SHODĚ	CE - IZJAVA-O-USKLADENOSTI CE - MEGFELELÖSÉGI-NYILATKOZAT CE - DEKLARACJA-ZGODNÓSCI CE - DECLARAŢIE-DE-CONFORMITATE	ISTI ATKOZAT OŠCI FORMITATE	CE - IZJAVA O SKLADNOSTI CE - VASTAVUSDEKLARATSIOON CE - JEKIAPALIVISJA-CEOTBEICTBIE		CE - ATTIKTIES-DEKLARACIJA CE - ATBILSTIBAS-DEKLARÁCIJA CE - VYHLÅSENIE-ZHODY CE - UYGUNLUK-BEYANI
Dailkin Industries Czech Republic s.r.o. 01 a dedares under its sole responsibility that the air conditioning models to which this declaration relates: 02 d erklart auf seine alleinge Verantwortung daß de Modele der Kirnagertate für die desse Erklarung bestimmt ist. 02 d erklart auf seine alleinge Verantwortung daß de Modele der Kirnagertate für die desse Erklarung bestimmt ist. 03 f declare sous as selle responsability that the sampter der science declaration: 04 f wrkdart hierlig op eigen exclusive verantwordelijkheid dat da alconditioning units acceptorabilitie due les appressibility dat da al acondicination in the science declaration: 05 e declara big units responsabilitie due les nomedies de air acondicination is suites hace referencia la declaración: 05 e declara big units responsabilitie due les nomedies de air acondicination alles hace referencia la declaración: 06 i dichina sortes une responsabilitiade que comdelis de air condicionado a los cuels tear erreturior. 07 g diviuer ju conductoration a que esta declaración service: 07 g diviuer ju conductoration a que esta declaración service: 07 p declara sob sua exclusiva responsabilidade que comodelis de ar condicionado a que esta declaración service: 07 p declara sob sua exclusiva responsabilidade que comodelis de ar condicionado a que esta declaración service: 07 p declara sob sua exclusiva responsabilidade que comdelis de ar condicionado a que esta declaración service:	(c) this declaration relates: fur die diese Erklärung bestimmt ist: es par in arrisente declanation: ming unlis waarop deze verktaring betrekking ado a los cuales hare reflerencia la declaració ado a los cuales hare reflerencia la declaració unatá dichiarazóne: κειών orra ornoic αναφέρεται η παρούασ δήλ κειών orra ornoic avaφέρεται η παρούασ δήλ orado a que esta declaração se refere:		B u aзвяляет, иколючительно под свою ответственни 10 e enkærer under ereansvar, at klimaanlægmode 11 s ekkaterar i egenskap av huvudansvarg, att ut 12 n enktærer et fullstendig ansvar for at de uffkond 12 i infuttaa yksinomaan omala væstullean, ett 4 c prohésuje ve své prié obpovédrost, že mods 15 v izjavljuje pod isključivo vlastitom odgovornošci 16 h tejes felelőssége tudatában kijelenti, hogy a ki 16 h tejes felelőssége tudatában kijelenti, hogy a ki	Bu a sastner; исключитально под свою ответственность, что ждели кодриционеров водуха, к которым отноолтся насловщее: 0 of exiterer under eneansar, at kimaanitægmodellerne, som deme deklaration vedrarer: 11 s cieklaraneri agnerkar av huvudansvarig, att luftkoordijoneringsmodellerna som berörs av deme deklaration imtebar 22 nektarer et fullstendig ansvarf or at de kultivordijoneringsmodellerna som berörs av deme deklaration, imtebarer at: 13 nektarer et fullstendig ansvarf or at de kultivordijoneringsmodeller som berörs av deme deklarasjon, imtebarer at: 14 of prindisej vie veg hen depoleriotet, 28 modely kimalizace, k minž se kop prolitisten i tabalue; 15 vi rjavligie pod isključivo vlastitom odgovornešču da su modell kima uredaja na koje se ova izjava odnosi: 16 h tejles fleibússége tudataban kijalenti, hogy a kimaberendizzés modellek, melyekre e nylatkozat vonatkozik.	corb, vro модели кондиционеров водуха, к которым относится liferne, som derne deldaration vedrarer: (konditioneringsmodellerna som berørs av denna deklarasjon, innet annan innohuksen harkonte maston berørs av denna deklarasjon, innet ju kinnatizaer, k inniz se tolo prolikterin vrahue, v kinnatizaer, k inniz se tolo prolikterin vrahue, u da su model klima uredaja na koje se ova izjava odnosi: linabarendezes modelek, melyekre e nylatkozat vonatkozik.	Bu a заявляет, молючительно под свою ответственность, что модели кондиционеров водуука, к которым относится настоящее заявление. 10 е exileare runder eneansar, at kimaanitegmodellerne, som deme dekaration vedrører. 11 s beklareneri agenskap av houvdansvarg, att luftkonditioneringsmodellern som berörs av dema deklaration, innebär att: 12 ne krister ef ultislandig ansvar för at de kilfbrondisjoneringsmodellern som berörs av dema deklaration, innebär att: 13 innoittaa yksnorma omala vastuulisan, että famä nimotuksen taktolterna toi vaston halteriden malit: 14 innoittaa yksnorma omala vastuulisan, että famä nimotuksen taktolterna toi vastohilariden malit: 15 ir jänvityuje pod isključivo vlastitom odgovomösču da su modell kilma uredaja na koje se ova izjana odnosi: 16 it tejles felelössege tudatban kijalenti, hogy a kilmaberendezés modeller, melyekre e nylatkozat vonatkozik.	 m deklaruje na v r m deklaruje na v r v vso odgovor o x vimiteb om atž x vimiteb om atž k perraparpa na z tviška savo lat v ar plinu atblidt z k vyhasuje na vi z vianamen ken 	 In deklaruje na wlasną i wyłączną odpowiedzialność, że modele klimatyzaturów, których dotyczy rimiejsza deklaracja: 16 r declara pe proprie rtspundere ca apartale de aer conditionat la czare se referá aczastá declarajte. 19 o.z vso odpovornostjo rizavita, at kasonie klimatskih naprav, na katere se riziyan nanašsu: 20 x kirnibu om tatieliku vastutusel, et käseotieva deklaratskih naprav, na katere se riziyan nanašsu: 21 h pernaprupa ta czon ornzophocri, et käseotieva deklaratskih naprav, na katere se riziyan nanašsu: 22 k vinitab om tatieliku vastutusel, et käseotieva deklaratskih naprav, na katere se riziyan nanašsu: 23 k vinitab om tatieliku vastutusel, et käseotieva deklaratskih my a kuluvod klimasedmete mudelić. 24 k vyhasuje na vastorný be katelak, la do ok kondicionavimo prietalsti, močelak, kuriem stratecas ší deklaračija: 23 k vihasuje na vastnú zodpoweľnost, že tieto klimatizačné modely, na ktíve sa vrzáhuje lob u yhtidsenie: 24 k vyhasuje na vastnú zodpoweľnost, že tieto klimatizačné modely, na ktíve sa vrzáhuje lob u yhtidsenie: 25 w lamamen kendi sorumlutýunda olmak úzere bu bildímin ligil dudýu klima modelerinin aságidaki gibi dutýuru beyan eder: 	tyzaturów, których dółyczy r e se referá accastá declaraj ure se röpy nanatása Juva a kimasseathe much Juva a kowno co musan socienia, kuriem attecas ší ktoré sa vrzánuje loto vyhi bu klima modelernin spágld	iejsza deklaracja: : : : : : : deklaracja: : : : belaracja: : : : : : : : : : : : : : : : : : :
 are in conformity with the following standard(s) or other normative document(s), provided that these are used in accordance with our instructions. define indgenden Norm(er) oder einem anderen Normdokument oder -dokumenten entsprichtlentsprechen, unter der Voraussetzung, das Gke prends unseren Anvelsungen eingesetzt werden. at dis Gke prends unseren Anvelsungen eingesetzt werden. as ant conformes à laux norme(s) ou andre(s) normatif(s), pour autant quits soient uitilisés conformément à nois instructions. as ant conformes à laux norme(s) ou antre(s) cournent(s), pour autant quits soient uitilisés conformément à nois instructions. as ant conformes à laux norme(s) ou antre(s) commettins), poivonvaarde dat ze worden gebruikt overeenkomstig ou auteries instructies. de onform de vojeude norm(en) of else of meer andere biocumentes (s) normativo(s), siempre que sean utilizados de acuerdo con nuestras instructions. de conform de vojeude norm(en) standard(s) o atho(i) documento(s) normativo(s), siempre que sean utilizados de acuerdo con nuestras instructions. de conform de vojeude(c) traditadid(s) o atho(i) documento(s) normativo, unto my tradito che vengario usati in conformità alle nostre struction: Truxi o diptezione: fruxi o diptezione: 	int(s), provided that these are used in accorr kumenten entsprichtientsprechen, unter der V autant qu'ils solent utilisiés conformément à n i zjin, op voorwaarde dat ze worden gebruik o i zmativo(s), siempre que sean utilizados d ere normativo, a patto che vengano usati in ere normativo, a patto che vengano usati in ere normativo, a patto che vengano usati in		 Be statio em conformidade com a(s) seguinte(s) n acordo com as nossas instruções: Bo contercitavor cineguyouque. Macripvugen. O overholder folgende standard(et) eller andetit instrukser: To evenholder folgende standard(et) eller andetit instrukser: Tespektive utustring år ufford i överensstämm förutsättning at anvärdning skri överensstämm döse brukes i henhold til våre instrumses: med för disstrukser: Arstaavet seuraavien standardien ja muiden mukaisesti: La predopkladut, že josu využivány v souladus sn u skladu sa slijedočim standardönn(me) lii drugin 	estão em conformidade com a(s) seguinte(s) norma(s) ou outro(s) docume acordo com as nossas instruções: acordo com as nossas instruções: acordo com as nossas instruções: acordo estandard(e) eller andet/andre rethingsgivende doku mertopriquem: coenholer fajgande standard(e) eller andet/andre rethingsgivende doku instrukser: respektive ututating at utford i öveensistammelse med vára instruktioner, respektive ututating at undroff si veensistammelse med vára instruktioner, respektive ututating at undroff si veensistammelse med vára instruktioner, respektive ututating at undroff si veensistammelse med vára instruktioner, respektive ututating at undroff var i öveensistammelse med vára istruktioner disse brukes i hermlod fil viar instrukser. adstazvat seuraavien standardien ja muiden ohjeelisten odxumentiben v mukasesti: za předpokalau, že jsou využívány v souladu s našími pokýny, odobvídají nás u stádu sa sijedečím standardóm(rme) iti drugim normátívním obxumentioní u stádu sa sijedečím standardóm(rme) iti drugim normátívním obxumentioní pokumentioní	s) documento(s) normativol lew powerraw, rpv voroto ande dokument(er), foudsa rander de standard(er) el itelet foljande standard(er) el itelet or andre normajvende en) eller andre normajvende nordani nåsledujicim normar umentom(ma), uz unjet da umentom(ma), uz unjet da	 Be ståb em conformidade com a(s) seguinte(s) normal(s) ou outro(s) documento(s) normativo(s), desde que estes sejam utilizados de acorracron sa nossas instruções: Bo concroto com as nossas instruções: Bo concretoraçivo una craxitapran um apyrun wopmentente, por vormativo(s), desde que estes sejam utilizados de acorracron estimante este sejam utilizados de acorracron estimante. Bo concretoração estandarder al eller ander terhingogivende dokument(er), forudast at disse anvendes i henhold til vore instruções: Integative utilizating at anderdere) eller ander terhingogivende dokument(er), forudast at disse anvendes i henhold til vore instrukas: Integative utilizating serei overensstammelse med coh fojer foljande standard(er) eller andra normgivande dokument, under forustating at andriding serei overenstammelse med vala instruktus: Integative utilizating at andriding serei overenstammelse med vala instruktus: Rosekaltive utilizati no evenestammelse med telgende standard(er) eller andra normgivende dokument(er), under forutsetining av at disse bukes i terhold til vale instructiones. Rosekaltive utilizati no evenestammelse med telgende standard(er) eller andra normgivende dokument(er), under forutsestining av at disse bukes i terhold til vale instructives: Rosekaltive utilizati no evenestammelse med telgende standard(er) eller andra normgivende dokument(er), under forutsestining av at disse bukes i terhold til vale instructives mudase med vales bukes i terhold til vale instructives and standard(er) eller andra normgivende dokument(er), under forutsestining av at disse bukes i terhold til vale instructives i muden neto normativen mudases. 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01 following the provisions of 02 genals den Vorschritten der: 10 under jagttagelse af bestemmelserne i: 03 conformément aux stipulations dess 03 conformément aux stipulations dess 12 gift i henhold til bestemmelserne i: 04 overeenkonnsig de bepalingen van: 13 noudataen mäaräyksis: 13 noudataen mäaräyksis: 05 siguiendo las disposiciones des: 04 te ritiporti uvo fortidiguar unvoisition uvo fortidiguar uvo fortidiguar unvoisition perveisition markana. 15 perma odredumar. 07 lar ritiporti uvo fortidiguar unvoisition emerkenen. 17 godina 2 postanovieniami Dyrktywr. 09 a contraerrawik choncenen. 18 in urma prevedentior:	nelserne i: 19 ob upoštevanju določih: 20 vastavati no luvelele: 21 cnegrastivar nargvarre Ha: 22 takavnit s nuostatu, patelkiarnu; 23 takavnit s nuostatu, patelkiarnu; 23 tavijcu pastnovenia: 24 održitavajicu ustanovenia: 25 bunun koşultarına uygun darak: 37 chtyw:	ut: ktass: arak:	Electromagnetic C		Low Voltage 2006/95/EC Machinery 2006/42/EC ompatibility 2004/108/EC	* *	01 Directives, as amended. 02 Directives, as amended. 03 Directives, telles que modifiées. 04 Brichtipnen, zoals geamendeerd. 05 Directivas, seguin termendado. 06 Directivas, come da modifica. 06 Directivas, conforme alteração em. 08 Directivas, conforme alteração em. 08 Directivas co всем noropaskawi.	 Direktiver, med senere ændringer. Direktiver, med foretagna ändringar. Direktiver, med foretagna ändringer. Direktiver, and foretatte endringer. Direktiver, salasian kuin ne ovar mutettulra. Smjenne, kako je zmijenjeno. Bei. Ta pózivejszymi popravkami. Direktiver, ou amendamentele respective. 		 Direktive z vsemi spremembarni. Direktivić koos muudalustega. 1 Директиви, с техните изменения. 21 Direktyvose su papildymals. 22 Direktyvose u papildymals. 23 Direktyvose u papildymals. 24 Smerrice, v platnom znení. 25 Deĝiştirilmiş hallenyle Vonetmelikler.
01 Note * as set out in <ab <ab="" <c.="" a="" according="" and="" be="" by="" carrifterate="" for="" judged="" positively="" the="">. 06 Note * 02 Hinweis * according be the carrifterate <c.>. Particle Particle 02 Hinweis * wein <ab <ab="" a="" beurteit<="" positiv="" td="" ufgetint="" und="" von=""> 07 Zaptisk 03 Remarque * led que défini dans <ab a="" et="" par="" particle<="" positivement="" td="" to="" évalue=""> 08 Noda * 04 Benet* zadis veneti in <ab beorded="" doro<="" en="" positive="" td=""> 09 Tpuesto 05 Nota * constituent car <c.>. constituent car <c.>. 08 Nota * 05 Nota * constituent car <c.>. 09 Tpuesto 05 Nota * constant car <c.>. 01 Bemasto 05 Nota * constant car <c.>. 01 Bemasto</c.></c.></c.></c.></c.></ab></ab></ab></c.></ab>	06 Nota* delineato nel da 		 Information enligt coch gotkants ar ar filt ar filt	enigr <pre>choit godkants ar <pre>choit godkants ar <pre>continuent</pre>continuent</pre>continuent</pre> continuent	16 Meglegyzles a(2) 17 Uwaga a(2) 18 Virtuality a(2) 18 Nota a(2) 19 Opomba kolls 20 Markus* vs/slan 20 Markus* vs/slan	a(2) ↔ alapján, a(2) ↔ glazolta a megfelelést, al2, ↔ alapján, a(2) ↔ glazolta a megfelelést, zgoón ⇔ dakumentagi ↔ pozytywing opinią est oum este stabili în ↔ și aprecia pozitiv de < în northomate uc denficaul ↔ ué < în northomate uc denficaul ↔ ué de northomate uc bin robucen os strain ⇔ v skleut s centifikatom ↔ nagu on natidut dokumentis ↔ ja heaks kildelut ↔ ja ja vastaral's tentfiliaadile ↔	21 3a6enewaa 22 Pastaba* 23 Pezimes* 24 Poznámka* 25 Not*	iarto e κατοκεικό a <a h="" o="" tupereiro="" ποποκιταθηό<br="">ican musikyta <a h="" o="" tupereiro="" ποποκιταθηό<br="">ican musikyta <a <a="" feiglament="" h="" href="https://www.com/mailto-
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R410A

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400 V 220-240 V L N 😑 L1 L2 L3 N 😑 1 1 白白白 2 **F**, **f** . P1 P2 = 1 2 3 3

6

V1-type 1~ 50 Hz W1-type 3N~ 50 Hz

2

4

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READ THESE INSTRUCTIONS CAREFULLY BEFORE INSTALLATION. KEEP THIS MANUAL IN A HANDY PLACE FOR FUTURE REFERENCE.

IMPROPER INSTALLATION OR ATTACHMENT OF EQUIPMENT OR ACCESSORIES COULD RESULT IN ELECTRIC SHOCK, SHORT-CIRCUIT, LEAKS, FIRE OR OTHER DAMAGE TO THE EQUIPMENT. BE SURE ONLY TO USE ACCESSORIES MADE BY DAIKIN WHICH ARE SPECIFICALLY DESIGNED FOR USE WITH THE EQUIPMENT AND HAVE THEM INSTALLED BY A PROFESSIONAL.

IF UNSURE OF INSTALLATION PROCEDURES OR USE, ALWAYS CONTACT YOUR DAIKIN DEALER FOR ADVICE AND INFORMATION.

The English text is the original instruction. Other languages are translations of the original instructions.

Safety considerations

The precautions listed here are divided into the following two types. Both cover very important topics, so be sure to follow them carefully.

If the warning is not observed, it may cause serious casualties.

CAUTION

WARNING

If the caution is not observed, it may cause injury or damage to the equipment.

Warning

- The equipment is not intended for use in a potentially explosive atmosphere.
- For use of air-conditioning units in applications with temperature alarm settings it is advised to foresee a delay of 10 minutes for signalling the alarm in case the alarm temperature is exceeded. The air-conditioning unit may stop for several minutes during normal operation for "defrosting of the indoor unit" or when in "thermostat-stop" operation.
- Ask your dealer or qualified personnel to carry out installation work. Do not install the machine by yourself.
 Improper installation may result in water leakage, electric shocks or fire.

Perform installation work in accordance with this installation manual.

Improper installation may lead to 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 water leakage, electric shocks, fire, or the unit falling.

Install the air conditioner on a foundation that can withstand its weight.

Insufficient strength may result in the fall of equipment and causing injury.

- Carry out the specified installation work in consideration of strong winds, typhoons, or earthquakes. Improper installation work may result in accidents due to fall of equipment.
- Make certain that all electrical work is carried out by qualified personnel according to the local laws and regulations and this installation manual, using a separate circuit. Insufficient capacity of the power supply circuit or improper electrical construction may lead to electric shocks or fire.
- Make sure that all wiring is secure, using the specified wires and ensuring that external forces do not act on the terminal connections or wires.

Incomplete connection or fixing may cause fire.

- When wiring between the indoor and outdoor units, and wiring the power supply, form the wires so that the frontside panel can be securely fastened.
 If the frontside panel is not in place, overheat of the terminals, electric shocks or fire may be caused.
- If refrigerant gas leaks during installation work, ventilate the area immediately.

Toxic gas may be produced if refrigerant gas comes into contact with fire.

- After completing the installation work, check to make sure that there is no leakage of refrigerant gas. Toxic gas may be produced if refrigerant gas leaks into the room and comes into contact with a source of fire, such as a fan heater, stove or cooker.
- Before touching electric terminal parts, turn off the power switch.
- Never leave the unit unattended during installation or servicing when the service panel is removed; live parts can be easily touched by accident.
- When planning to relocate former installed units, you must first recover the refrigerant after the pumping-down operation. Refer to chapter "Precaution for pumping-down operation" on page 10.
- Never directly touch any accidental leaking refrigerant. This could result in severe wounds caused by frostbite.

Caution

Ground the air conditioner.

Grounding resistance should be according to national regulations

Do not connect the earth wire to gas or water pipes, lightning conductor or telephone earth wire. Incomplete grounding may cause electric shocks.



- Gas pipe Ignition or explosion may occur if the gas leaks.
- Water pipe.

Hard vinyl tubes are not effective grounds.

Lightning conductor or telephone ground wire.

Electric potential may rise abnormally if struck by lightning.

- Be sure to install an earth leakage breaker.
- Failure to install an earth leakage breaker may cause electric shocks and fire.
- Install drain piping according to this installation manual to ensure good drainage, and insulate the pipe to prevent condensation. Improper drain piping may cause water leakage, and make the furniture get wet.
- Install the indoor and outdoor units, power wire and connecting wire at least 1 meter away from televisions or radios to prevent image interference or noise. (Depending on the radio waves, a distance of 1 meter may not

be sufficient to eliminate the noise.)

- Do not rinse the outdoor unit. This may cause electric shocks or fire
- Do not install the air conditioner in places such as the following:
 - Where there is mist of mineral oil, oil spray or vapour, for example a kitchen.

Plastic parts may deteriorate, causing them to fall out or water to leak.

Where corrosive gas, such as sulphurous acid gas, is produced.

Corrosion of copper pipes or soldered parts may cause the refrigerant to leak.

■ Where there is machinery which emits electromagnetic waves.

Electromagnetic waves may disturb the control system, and cause malfunction of the equipment.

- Where flammable gases may leak, where carbon fiber or ignitable dust is suspended in the air or where volatile flammables, such as thinner or gasoline, are handled. Such gases may cause fire.
- Where the air contains high levels of salt such as that near the ocean
- Where voltage fluctuates a lot, such as that in factories.
- In vehicles or vessels.
- Where acidic or alkaline vapour is present.

Provide a logbook

In accordance with the relevant national and international codes, it may be necessary to provide a logbook with the equipment containing at least

- info on maintenance,
- repair work,
- results of tests
- stand-by periodes,
- etc

In Europe, EN378 provides the necessary guidance for this logbook.

Before installation



Since maximum working pressure is 4.0 MPa or 40 bar, pipes of larger wall thickness may be required. Refer to paragraph "Selection of piping material" on page 5.

Precautions for R410A

- The refrigerant requires strict cautions for keeping the system clean, dry and tight.
 - Clean and dry

Foreign materials (including mineral oils or moisture) should be prevented from getting mixed into the system. Tight

Read "Precautions on refrigerant piping" on page 6 carefully and follow these procedures correctly.

- Since R410A is a mixed refrigerant, the required additional refrigerant must be charged in its liquid state. (If the refrigerant is in a state of gas, its composition changes and the system will not work properly).
- The connected indoor units must be indoor units designed exclusively for R410A.

Installation

- For installation of the indoor unit(s), refer to the indoor unit installation manual.
- Illustrations show class 125 outdoor unit type. Other types also follow this installation manual.
- This outdoor unit requires the pipe branching kit (optional) when used as the outdoor unit for the simultaneous operation system. Refer to catalogues for details.
- Never operate the unit with a damaged or disconnected discharge thermistor and suction thermistor, burning of the compressor may result.
- Be sure to confirm the model name and the serial no. of the outer (front) plates when attaching/detaching the plates to avoid mistakes.
- When closing the service panels, take care that the tightening torque does not exceed 4.1 N·m.

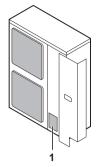
Accessories

Check if the following accessories are included with the unit

Installation manual	1	
Clamp	2	
Fluorinated greenhouse gases label	1	
Multilingual fluorinated greenhouse gases label	1	

2

See the figure below for the location of the accessories.



Accessories

Handling

As shown in the figure, bring the unit slowly by grabbing the left and right grips.



Place your hands on the corner instead of holding the suction inlet in the side of the casing, otherwise the casing could be deformed.

Take care not to let hands or objects come in contact with rear fins.

Selecting installation site

- 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.
- 1 Select an installation site where the following conditions are satisfied and that meets with your customer's approval.
 - Places which are well-ventilated.
 - Places where the unit does not bother next-door neighbours.
 - Safe places which can withstand the unit's weight and vibration and where the unit can be installed level.
 - Places where there is no possibility of flammable gas or product leak.
 - The appliance shall not be placed nor used in a potentially explosive atmosphere.
 - Places where servicing space can be well ensured.
 - Places where the indoor and outdoor units' piping and wiring lengths come within the allowable ranges.
 - Places where water leaking from the unit cannot cause damage to the location (e.g. in case of a blocked drain pipe).
 - Places where the rain can be avoided as much as possible.

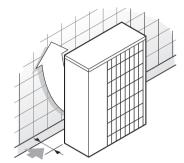
This is a class A product. In a domestic environment this product may cause radio interference in which case the user may be required to take adequate measures. 2 When installing the unit in a place exposed to strong wind, pay special attention to the following.

Strong winds of 5 m/sec or more blowing against the outdoor unit's air outlet causes short circuit (suction of discharge air), and this may have the following consequences:

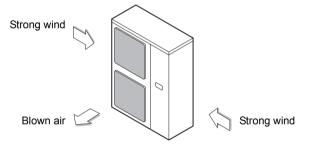
- Deterioration of the operational capacity.
- Frequent frost acceleration in heating operation.
- Disruption of operation due to rise of high pressure.
- When a strong wind blows continuously on the face of the unit, the fan can start rotating very fast until it breaks.

Refer to the figures for installation of this unit in a place where the wind direction can be foreseen.

Turn the air outlet side toward the building's wall, fence or screen.



- Make sure there is enough room to do the installation
- Set the outlet side at a right angle to the direction of the wind.

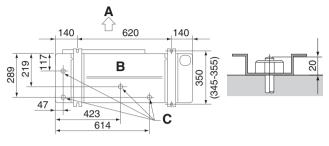


- **3** Prepare a water drainage channel around the foundation, to drain waste water from around the unit.
- 4 If the water drainage of the unit is not easy, please build up the unit on a foundation of concrete blocks, etc. (the height of the foundation should be maximum 150 mm).
- 5 If you install the unit on a frame, please install a waterproof plate within 150 mm of the underside of the unit in order to prevent the invasion of water from the lower direction.
- **6** When installing the unit in a place frequently exposed to snow, pay special attention to the following:
 - Elevate the foundation as high as possible.
 - Remove the rear suction grille to prevent snow from accumulating on the rear fins.
- 7 If you install the unit on a building frame, please install a waterproof plate (within 150 mm of the underside of the unit) or use a drain plug kit (option) in order to avoid the drainwater dripping. (See figure).



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 installation.
- In accordance with the foundation drawing in the figure, fix the unit securely by means of the foundation bolts. (Prepare four sets of M12 foundation bolts, nuts and washers each which are available on the market.)
- It is best to screw in the foundation bolts until their length is 20 mm from the foundation surface.

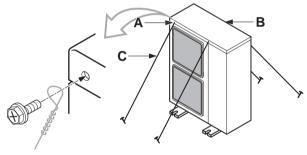


- A Discharge side
- B Bottom view (mm)
- C Drain hole

Installation method for prevention of falling over

If it is necessary to prevent the unit from falling over, install as shown in the figure.

- prepare all 4 wires as indicated in the drawing
- unscrew the top plate at the 4 locations indicated A and B
- put the screws through the nooses and screw them back tight



- A location of the 2 fixation holes on the front side of the unit
- **B** location of the 2 fixation holes on the rear side of the unit
- c wires: field supply

Drain pipe disposal

- If drain pipe disposal from the outdoor unit causes trouble (for example, if the drain water may splash on people) provide the drain piping using a drain socket (optional).
- Make sure the drain works properly.

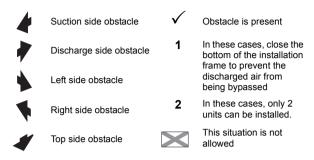
Installation servicing space

The numerical figures used in here represent the dimensions for the 71 class model and 100-125-140 class models. Figures between () indicate the dimensions for the 100-125-140 class models. (Unit: mm)

(Refer to "Precautions on installation" on page 4)

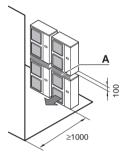
Precaution

(A) In case of non-stacked installation (See figure 1)

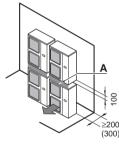


(B) In case of stacked installation

1. In case obstacles exist in front of the outlet side.



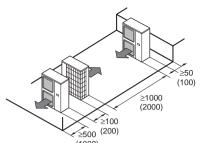
2. In case obstacles exist in front of the air inlet.



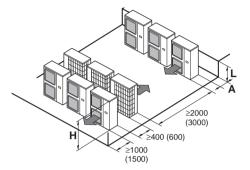
Do not stack more than one unit.

About 100 mm is required as the dimension for laying the upper outdoor unit's drain pipe. Get the portion A sealed so that air from the outlet does not bypass.

- (C) In case of multiple-row installation (for roof top use, etc.)
- 1. In case of installing one unit per row.



In case of installing multiple units (2 units or more) in lateral connection per row.



Relation of dimensions of H, A and L are shown in the table below.

	L	А
L≤H	0 <l≤1 2h<="" td=""><td>150 (250)</td></l≤1>	150 (250)
LSU	1/2H <l< td=""><td>200 (300)</td></l<>	200 (300)
H <l< td=""><td>Installation impossible</td><td></td></l<>	Installation impossible	

Refrigerant pipe size and allowable pipe length



Installation shall be done by a licensed refrigeration technician, the choice of materials and installation shall comply with the applicable national and international codes. In Europe, EN378 is the applicable standard that shall be used.



To persons in charge of piping work:

- Be sure to open the stop valve after piping installing and vacuming is complete. (Running the system with the valve closed may break the compressor.)
- It is forbidden to discharge refrigerant into the atmosphere. Collect the refrigerant in accordance with the freon collection and destruction law.
- Do not use flux when brazing the refrigerant piping. For brazing, use phosphor copper brazing filler metal (BCuP) which does not require a flux. (If a chlorine flux is used, the piping will corrode, and if

the flux contains fluoride, it will cause the coolant oil to deteriorate, adversely affecting the coolant piping system.

Selection of piping material

- Piping and other pressure containing parts shall comply with the national and international codes and shall be suitable for refrigerant, use phosphoric acid deoxidised seamless copper for refrigerant.
- Temper grade: use piping with temper grade in function of the pipe diameter as listed in table below.
- The pipe thickness of the refrigerant piping should comply with relevant local and national regulations. The minimal pipe thickness for R410A piping must be in accordance with the table below.

Pipe Ø	Temper grade of piping material	Minimal thickness t (mm)
6.4 / 9.5 / 12.7	0	0.80
15.9	0	1.00
19.1	1/2H	1.00

O=Annealed 1/2H=Half hard

Only use annealed material for flare connections.

Allowable pipe length and height difference

See the table below concerning lengths and heights. Refer to figure 2.

Allowable pipe length Model						
	71	100	125	140		
Maximum total one-way piping length ^{(a)(b)}						
L1		50 m (7	'0 m)			
Maximum	height between ind	oor and outdoor				
H1		30 r	n			
Chargeles	s length					
L1		≤30	m			
(a) P	arenthesized figure re	presents the equival	lent length.			

(a) Parentnesized igure represents the equivalent length.
 (b) For details regarding your combination of outdoor and indoor unit, refer to the technical databook.

Precautions on refrigerant piping

- Do not allow anything other than the designated refrigerant to get mixed into the freezing cycle, such as air, etc. If any refrigerant gas leaks while working on the unit, ventilate the room thoroughly right away.
- Use R410A only when adding refrigerant Installation tools:

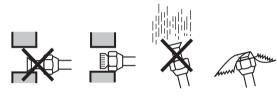
Make sure to use installation tools (gauge manifold charge hose, etc.) that are exclusively used for R410A installations to withstand the pressure and to prevent foreign materials (e.g. mineral oils and moisture) from mixing into the system. Vacuum pump:

Use a 2-stage vacuum pump with a non-return valve

Make sure the pump oil does not flow oppositely into the system while the pump is not working.

Use a vacuum pump which can evacuate to -100.7 kPa (5 Torr, -755 mm Hg).

- During tests never pressurize the appliances with a pressure higher than the maximum allowable pressure (see unit name plate: PS).
- In order to prevent dirt, liquid or dust from entering the piping, cure the piping with a pinch or taping.



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

Great caution is needed when passing copper tubes through walls.

Refrigerant piping

Field pipes can be installed in four directions.

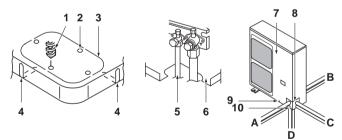


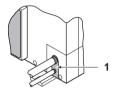
Figure - Field pipes in four directions

- 1 Drill
- 2 Centre area around knockout hole
- 3 Knockout hole
- 4 Slit
- 5 Connecting pipe
- 6 Bottom frame
- 7 Front plate
- 8 Pipe outlet plate
- 9 Screw front plate
- 10 Pipe outlet plate screw
- A Forward
- B Backward
- **C** Sideways
- D Downward

- Cutting out the two slits makes it possible to install as shown in the figure "Field pipes in four directions". (Use a metal saw to cut out the slits.)
- To install the connecting pipe to the unit in a downward direction, make a knockout hole by penetrating the centre area around the knockout hole using a Ø6 mm drill. (See figure "Field pipes in four directions".)
- After knocking out the knock-out, it is recommended to apply repair paint to the edge and the surrounding end surfaces to prevent rusting.

Preventing foreign objects from entering

Plug the pipe through-holes with putty or insulating material (procured locally) to stop up all gaps, as shown in the figure.



Putty or insulating material (produced locally)

Insects or small animals entering the outdoor unit may cause a short circuit in the electrical box.

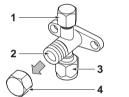
Cautions for handling stop valve

The stop valves for indoor-outdoor connecting piping are closed at shipment from the factory.

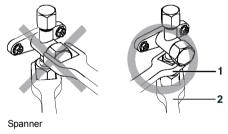
Make sure to keep the valve open during operation.

The names of parts of the stop valve are shown in the figure.

2 3



- 1 Service port
- Stop valve
- Field piping connection
- 4 Valve cover
- Since the side boards may be deformed if only a torque wrench is used when loosening or tightening flare nuts, always lock the stop valve with a wrench and then use a torque wrench. Do not place wrenches on the valve cover.



2 Torque wrench

1

Applying an excessive torque may distort the interior stop valve surface causing gas to leak inside the valve and causing the flare nut to crack eventually.

Do not apply force on the valve cover, this may result in a refrigerant leak.

For cooling operation under low ambient temperature or any other operation under low pressure, apply silicon pad or similar to prevent freezing of the gas stop valve flare nut (see figure). Freezing of the flare nut may cause refrigerant leak.

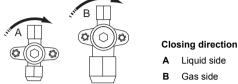


Silicon sealing pad (Make sure there is no gap)

How to use the stop valve

Use hexagonal wrenches 4 mm and 6 mm.

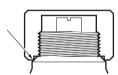
- Opening the valve
 - 1. Place the hex wrench on the valve bar and turn counterclockwise
 - 2. Stop when the valve bar no longer turns. It is now open.
- Closing the valve
 - 1. Place the hex wrench on the valve bar and turn clockwise.
 - 2. Stop when the valve bar no longer turns. It is now closed.



Liquid side Gas side

Cautions for handling the valve cover

The valve cover is sealed where indicated by the arrow. Refer to the figure. Take care not to damage it.



After operating the valve, be sure to tighten the valve cover properly.

	Tightening torque
Liquid pipe	13.5~16.5 N•m
Gas pipe	22.5~27.5 N•m

Check for refrigerant leakage after tightening the cap.

Cautions for handling service port

- Always use a flexible charge hose with a push-rod and valve to enable recovery of remaining refrigerant in the charge hose.
- After the work, tighten the valve cover in place. Tightening torque: 11.5~13.9 N•m

Precautions when connecting field piping and regarding insulation

- Be careful not to let the indoor and outdoor branch piping come into contact with the compressor terminal cover. If the liquid-side piping insulation might come into contact with it, adjust the height as shown in the figure below. Also, make sure the field piping does not touch the bolts or outer panels of the compressor.
- When the outdoor unit is installed above the indoor unit the following can occur:

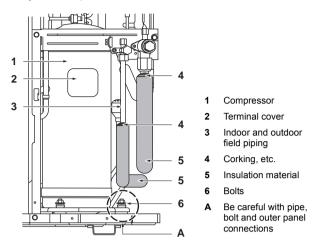
The condensated water on the stop valve can move to the indoor unit. To avoid this, please cover the stop valve with sealing material.

If the temperature is higher than 30°C and the humidity is higher than RH 80%, then the thickness of the sealing materials should be at least 20 mm in order to avoid condensation on the surface of the sealing.

Be sure to insulate the liquid and gas-side field piping and the refrigerant branch kit.

Any exposed piping may cause condensation or burns ्रम if touched.

(The highest temperature that the gas-side piping can reach is around 120°C, so be sure to use insulating material which is verv resistant.)



Cautions for flare connection

Please refer to the table for the dimensions for processing flares and for the tightening torques. (Too much tightening will end up in splitting of the flare.)

Piping size	Flare nut tightening torque	A - dimensions for processing flares (mm)	Flare shape
Ø6.4	15~17 N•m	8.7~9.1	90°±2
Ø9.5	33~39 N•m	12.8~13.2	
Ø12.7	50~60 N•m	16.2~16.6	
Ø15.9	63~75 N•m	19.3~19.7	

If a torque wrench is not available, be aware that the tightening torque may increase suddenly. Do not tighten nuts any further than to the angle as listed.

Piping size	Further tightening angle	Recommended arm length of tool
Ø6.4	60°~90°	150 mm
Ø9.5	00~90	200 mm
Ø12.7	30°~60°	250 mm
Ø15.9	50 ~00	300 mm

When connecting the flare nut, coat the flare inner surface with ether oil or ester oil and initially tighten 3 or 4 turns by hand before tightening firmly.



After completing the installation, carry out a gas leak inspection of the piping connections with nitrogen and such.

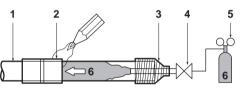
Cautions for necessity of a trap

Since there is fear of the oil held inside the riser piping flowing back into the compressor when stopped and causing liquid compression phenomenon, or cases of deterioration of oil return, it will be necessary to provide a trap at an appropriate place in the riser gas piping.

- Trap installation spacing. (See figure 3)
 - A Outdoor unit
 - B Indoor unit
 - C Gas piping
 - D Liquid piping
 - E Oiltrap
 - H Install trap at each difference in height of 10 m.
- A trap is not necessary when the outdoor unit is installed in a higher position than the indoor unit.

Cautions for brazing

- Be sure to carry out a nitrogen blow when brazing. Brazing without carrying out nitrogen replacement or releasing nitrogen into the piping will create large quantities of oxidised film on the inside of the pipes, adversely affecting valves and compressors in the refrigerating system and preventing normal operation. When brazing pipes however, do not use oxidation preventers. Residue of such preventers may result in choking of pipes or malfunction of components.
- When brazing while inserting nitrogen into the piping, nitrogen must be set to 0.02 MPa with a pressure-reducing valve (=just enough so that it can be felt on the skin).



- 1 Refrigerant piping
- 2 Part to be brazed
- 3 Taping
- 4 Hands valve
- 5 Pressure-reducing valve
- 6 Nitrogen

Evacuating

- Do not purge the air with refrigerants. Use a vacuum pump to vacuum the installation. No additional refrigerant is provided for air purging.
- Pipes inside the units were checked for leaks by the manufacturer. The refrigerant pipes fit on site are to be checked for leaks by the installer.
- Confirm that the valves are firmly closed before leak test or vacuuming.

Set up for vacuuming and leak test: see figure 5

- 1 Pressure gauge
- 2 Nitrogen
- 3 Refrigerant
- 4 Weighing machine
- 5 Vacuum pump
- 6 Stop valve

Procedure for leak test

Leak test must satisfy EN378-2.

- 1 Evacuate the pipes and check vacuum⁽¹⁾. (No pressure increase for 1 minute.)
- 2 Break the vacuum with a minimum of 2 bar of nitrogen. (Never pressurize more than 4.0 MPa.)
- **3** Conduct leak test by applying soap water, etc. to the connecting part of the pipes.
- 4 Discharge nitrogen.

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5 Evacuate and check vacuum again⁽¹⁾.

the vacuum gauge does not rise.

6 If the vacuum gauge no longer rises, the stop valves can be opened.

The following should be executed if there is a possibility of moisture remaining in the pipe (if piping work is carried out during the raining season or over a long period of time, rainwater may enter the pipe during work). After evacuating the system for 2 hours, pressurize the system to 0.05 MPa (vacuum break) with nitrogen gas and evacuate the system again using the vacuum pump for 1phour to -100.7 kPa (vacuum drying). If the system cannot be evacuated to -100.7 kPa within 2 hours, repeat the operation of vacuum break and vacuum drying. Then after leaving the system in vacuum for 1 hour, confirm that

After air purging with a vacuum pump it may happen that the refrigerant pressure does not rise, not even if the stop valve is opened. Reason for this phenomenon is the closed state of for instance the expansion valve in the outdoor unit circuit, but this is not a problem for running the unit.

⁽¹⁾ Use a 2-stage vacuum pump with a non return valve which can evacuate to -100.7 kPa (5 Torr, -755 mm Hg). Evacuate the system from the liquid and gas pipes by using a vacuum pump for more than 2 hours and bring the system to -100.7 kPa. After keeping the system under that condition for more than one hour, check if the vacuum gauge rises or not. If it rises, the system may either contain moisture inside or have leaks.

Charging refrigerant

Important information regarding the refrigerant used

This product contains fluorinated greenhouse gases covered by the Kyoto Protocol. Do not vent gases into the atmosphere.

Refrigerant type: R410A GWP⁽¹⁾ value: 1975

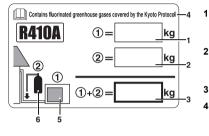
⁽¹⁾ GWP = global warming potential

Please fill in with indelible ink,

- ① the factory refrigerant charge of the product,
- ② the additional refrigerant amount charged in the field and
- ①+② the total refrigerant charge

on the fluorinated greenhouse gases label supplied with the product.

The filled out label must be adhered on the inside of the product and in the proximity of the product charging port (e.g. on the inside of the service cover).



- factory refrigerant charge of the product: see unit name plate
- additional refrigerant amount charged in the field
- total refrigerant charge
- Contains fluorinated greenhouse gases covered by the Kyoto Protocol
- outdoor unit
- 6 refrigerant cylinder and manifold for charging
- Note National implementation of EU regulation on certain fluorinated greenhouse gases may require to provide the appropriate official national language on the unit. Therefore, an additional multilingual fluorinated greenhouse gases label is supplied with the unit.

Sticking instructions are illustrated on the backside of that label.

5

Precaution for servicing



When performing service on the unit requiring the refrigerant system to be opened, refrigerant must be evacuated according to local regulations.

This unit requires additional charging of refrigerant according to the length of pipe connected at the site. Charge the refrigerant to the liquid pipe in its liquid state through the service port of the liquid stop valve. Since R410A is a mixed refrigerant, its composition changes if charged in a state of gas and normal system operation would no longer be assured.

On this model it is not necessary to charge additionally if the piping length \leq 30 m.

<5 m: See "Total charging weight of the refrigerant (after a leak, etc.)" on page 9.

NOTE For details regarding your combination of outdoor and indoor unit, refer to the technical databook.

Additional charging of refrigerant

- The additional charging amounts relate to the refrigerant piping length as in "Maximum total one-way piping length" of the table in paragraph "Allowable pipe length and height difference" on page 5.
- Over 30 m, please add refrigerant quantity according to following table.

For future servicing, mark with a circle the selected amount on the tables below

Table 1: Additional charging of refrigerant <unit: kg>

		Standard liq	uid pipe size					
	Con	Connected piping length is between						
Model	30~40 m 40~50 m 50~60 m 60~75 m							
AZQS71	0.5	1.0	-	-				
AZQS100~140	0.5	1.0	1.5	2.0				

In case of complete recharge of the refrigerant, please first execute vacuuming. Execute this vacuuming from the service port. Do not use the port of the stop valve for vacuuming. Vacuuming can not be executed completely using such port.

Position of service port:

Outdoor units have 1 port on the piping. It is between the heat exchanger and the 4-way valve.

Total charging weight of the refrigerant (after a leak, etc.)

The total charging amounts relate to the refrigerant piping length as in "Maximum total one-way piping length" of the table in paragraph "Allowable pipe length and height difference" on page 5.

 Table 2: Total charging amount <unit: kg>

			Refrig	jerant j	oiping l	ength		
Model	3~5 ^(a) m	5~10 m	10~20 m	20~30 m	30~40 m	40~50 m	50~60 m	60~75 m
AZQS71_V1	1.75	1.75	2.25	2.75	3.25	3.75	-	-
AZQS100~140_V1	2.95	2.95	3.45	3.95	4.45	4.95	5.45	5.95

(a) When piping length is less than 5 m, a complete recharging of the unit is required. Charge the unit with the refrigerant charge as indicated.

Precaution for pumping-down operation

The outdoor unit is equipped with a low pressure switch or a low pressure sensor to protect the compressor.



 Never short-circuit the low pressure switch or low pressure sensor during pump-down operation.

Take the following steps to perform the pumping-down operation.

- Preliminary measures
 - Make sure to cut off power supply. Open the front panel and cover the PCB and terminal board with insulation sheet to avoid electric shock by accidental touching of live parts.
 - Close the front panel before leaving the outdoor unit. You cannot leave the unit unattended in case the front panel remains open.
 - Turn on the power supply and carry out pumping-down operation according to the following procedure.

Pump down operation

	Procedure	Precaution
1	Make sure that stop valves both on liquid and on gas side are open.	_
2	Push the BS4 pumping-down operation button on the PC board of the outdoor unit (±8 seconds).	Compressor and outdoor fan will start operation automatically. The indoor unit fan may automatically start running. Please pay attention to this.
3	Close the stop valve on the liquid side securely about 2 minutes after the compressor started operation. (See "How to use the stop valve" on page 7)	Never leave the outdoor unit unattended with opened from panel when power supply is on. In case the stop valve on the liquid side is not securely closed during compressor operation, pumping-down operation cannot be executed
4	Once compressor operation stops after 2 to 5 minutes ^(a) , close the stop valve on the gas side securely. (See "How to use the stop valve" on page 7)	
5	Turn off the power supply.	

(a) If after finishing pumping-down operation the outdoor unit does not operate, not even when the remote controller switch is turned on, the remote controller may or may not indicate "U4". But this is not a malfunction.

- After finishing the pumping-down operation, make sure to have removed the insulation sheet that was placed in the switch box as a protective measure as in chapter "Preliminary measures" on page 10.
- When in need of operation, turn off the main power supply and turn it on again. Make sure that stop valves both on liquid and gas side are open and be sure to operate the unit in cooling operation during test run.

Electrical wiring work

- All field wiring and components must be installed by a licensed electrician and must comply with relevant European and national regulations.
 - All components procured on the site and all electric construction should comply with the applicable local and national codes.
- High voltage
 - To avoid electrical shock, make sure to disconnect the power supply 1 minute or more before servicing the electrical parts. Even after 1 minute, always measure the voltage at the terminals of main circuit capacitors or electrical parts and, before touching, make sure that those voltages are 50 V DC or less.

To persons in charge of electrical wiring work:

Do not operate the unit until the refrigerant piping is complete. (Running it before the piping is ready will break the compressor.)

Precautions on electrical wiring work

- Before obtaining access to terminal devices, all supply circuits must be interrupted.
- Use only copper wires.
- The wiring between the indoor unit and outdoor unit must be for 220~240 V.
- A main switch or other means for disconnection, having a contact separation in all poles, must be incorporated in the fixed wiring in accordance with relevant local and national legislation. Do not turn on the main switch until all the wiring is completed.

For W1

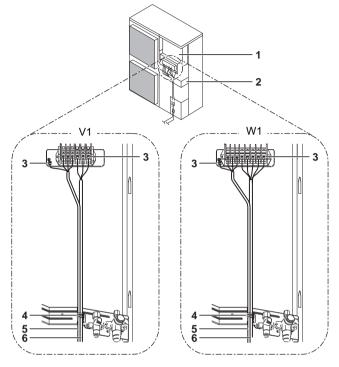
Make sure to connect power supply cables in normal phase. If connected in reverse phase, the remote controller of the indoor unit indicates "U1" and the equipment cannot operate. Change any two of the three power supply cables (L1, L2, L3) to correct phase.

If the contact in the magnetic switch should be forcibly turned on while the equipment is inoperative, the compressor will burn out. Never try to forcibly turn on the contact.

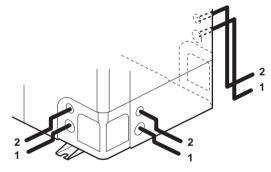
- Never squeeze bundled cables into a unit.
- Fix cables so that cables do not make contact with the pipes (especially on high pressure side).
- Secure the electrical wiring with clamping material as shown in the figure below so that it does not come in contact with the piping, particularly on the high-pressure side.
 Make sure no external pressure is applied to the terminal connectors.
- When installing the earth leakage breaker make sure that it is compatible with the inverter (resistant to high frequency electrical noise) to avoid unnecessary opening of the earth leakage breaker.
- As this unit is equipped with an inverter, installing a phase advancing capacitor not only will deteriorate power factor improvement effect, but also may cause capacitor abnormal heating accident due to high-frequency waves. Therefore, never install a phase advancing capacitor.

Secure the wiring in the order shown below.

- 1 Secure the ground wire to the stop valve attachment plate so that it does not slide.
- 2 Secure the ground wire to the stop valve attachment plate one more time along with the electric wiring and the inter-unit wiring.
- Lay the electrical wiring so that the front cover does not rise up when doing wiring work and attach the front cover securely.



- 1 Switch box
- 2 Stop valve mounting plate
- 3 Ground
- 4 Tie-wrap
- 5 Wiring between units
- 6 Power supply and ground wiring



- 1 Power supply wiring and earth wire
- 2 Wiring between units

When cables are routed from the unit, a protection sleeve for the conduits (PG-insertions) can be inserted at the knock-out hole. (See figure 4)

Wi	re

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- 2 Bush
- 3 Nut
- 4 Frame
- 5 Hose
- A Inside
- B Outside

When you do not use a wire conduit, be sure to protect the wires with vinyl tubes to prevent the edge of the knock-out hole from cutting the wires.

- Follow the electric wiring diagram for electrical wiring works.
- Form the wires and fix the cover firmly so that the cover may be fit in properly.

Precautions on wiring of power supply and inter-unit wiring

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.



- Round pressure terminal
- 2 Cut out section
- 3 Cup washer

1

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





- Use the correct screwdriver to tighten the terminal screws. Small screwdrivers can damage the screw head and prevent appropriate tightening.
- Over-tightening the terminal screws can damage the screws.
- See the table below for tightening torques for the terminal screws.

Tightening torque (N•m)		
M4 (X1M)	1.2~1.8	
M4 (EARTH)	1.2~1.4	
M5 (X1M)	2.0~3.0	
M5 (EARTH)	2.4~2.9	

- Refer to the installation manual attached to the indoor unit for wiring of indoor units, etc.
- Attach an earth leakage breaker and fuse to the power supply line. (See figure 6)
 - 1 Earth leakage breaker
 - 2 Fuse
 - 3 Remote controller
- In wiring, make certain that prescribed wires are used, carry out complete connections, and fix the wires so that outside forces are not applied to the terminals.

Specifications of standard wiring components

AZQS	71V1	100V1	125V1	140V1
Minimum circuit amps (MCA) ^(a)	18.9	27.6	28.8	
Recommended field fuse (A)	20 32			
Wire type ^(b)	H05VV-U3G			
Size	Wiring size must comply with the applicable local and national code			
Wire type of wiring between the units	H05VV-U4G2.5			

(a) Stated values are maximum values (see electrical data of combination with (b) Only in protected pipes, use H07RN-F when protected pipes are not used.

NOTE The earth leakage breaker must be a high-speed type breaker of 30 mA (<0.1 s). िषम

Equipment complying with EN/IEC 61000-3-12⁽¹⁾.

Test operation

WARNING

Live parts can be easily touched by accident.

Never leave the unit unattended during installation or servicing when the service panel is removed.

NOTE e de

Note that during the first running period of the unit, required power input may be higher. This phenomenon originates from the compressor that requires a 50-hour run-in period before reaching smooth operation and stable power consumption.

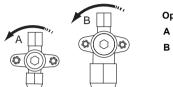
Pre-run checks

	Items to check
Electrical wiring Inter-unit wiring Ground wire	 Is the wiring as mentioned on the wiring diagram? Make sure no wiring has been forgotten and that there are no missing phases or reverse phases. Is the unit properly grounded? Is the wiring between units connected in series correct? Are any of the wiring attachment screws loose? Is the insulation resistance at least 1 MΩ? Use a 500 V mega-tester when measuring insulation. Do not use a mega-tester for low-voltage circuits.
Refrigerant piping	 Is the size of the piping appropriate? Is the insulation material for the piping attached securely? Are both the liquid and gas pipes insulated? Are the stop valves for both the liquid side and the gas side open?
Extra refrigerant	■ Did you write down the extra refrigerant and the refrigerant piping length?

- Be sure to perform a test run.
- Be sure to fully open the liquid-side and gas-side stop valves. If you operate the unit with stop valves closed, the compressor will break down.
- Be sure to execute the first test run of the installation in cooling mode operation.
- Never leave the unit unattended with an open front panel during test run.

Test run

- 1 Be sure to turn power on at least 6 hours before starting operation in order to protect the compressor.
- 2 Make sure the liquid and gas stop valves are open.



Opening direction Liquid side

Gas side Remove the cap and turn counterclockwise with a hex wrench until it stops

- 3 Be sure to close the frontside panel before operation, as not doing so can cause electric shock.
- Be sure to set the unit to cooling operation mode. 4
- Press the inspection/test operation button of the remote 5 controller 4 times (2 times in case of a wireless remote controller) to go into the test run mode.
- Press the ON/OFF button within 10 seconds to start the test run 6 and check the operation status for about 6 minutes. The refrigerant pressure may not rise immediately, even if the stop valve is opened after an air purge is performed using a vacuum pump. This is because the indoor unit refrigerant piping is closed off with electric valves inside. This will not create any problems during operation.
- 7 Push the air flow direction adjust button and check if the unit is responding to the new air flow direction position.
- 8 Press the inspection/test operation button of the remote controller 2 times to go into check mode and to make sure that the malfunction code displays "00" (=normal). In case the malfunction code does not display "00", refer to "Failure diagnosis at the moment of first installation" on page 13.
- 9 If the inspection/test operation button is pressed 4 times during a test run, the unit returns to normal operation.
- 10 Check all functions according to the operation manual.

⁽¹⁾ European/International Technical Standard sets the limits for harmonic currents produced by equipment connected to public low-voltage systems with input current >16 A and ≤75 A per phase.

Precautions regarding test-runs

- In order to detect stop valves failing to open, operation of the unit is compulsorily performed in cooling for 2-3 minutes during the first test run, even if the remote controller was set to heating operation. In this case, the remote controller will have kept displaying the heating symbol all the time and the unit will switch to heating operation automatically after elapse of that time.
- 2 In case you cannot operate the unit in test run mode for any unusual reason, refer to "Failure diagnosis at the moment of first installation" on page 13.
- **3** In case you cannot operate the unit in test run mode, the unit usually returns to its normal state after 30 minutes.
- 4 In case of a wireless remote controller, execute the test run only after having installed the indoor unit decoration panel with infrared receiver first.
- 5 In case the panels of indoor units are not yet installed to the indoor units, make sure to shut off the power supply after finishing the complete test run.
- 6 A complete test run surely includes shutting off power after having performed a normal operation stop on the remote controller. Do not stop operation by turning circuit breakers off.

Failure diagnosis at the moment of first installation

- In case nothing is displayed on the remote controller (the current set temperature does not display), check for any of the following abnormalities before you can diagnose possible malfunction codes.
 - Disconnection or wiring error (between power supply and outdoor unit, between outdoor unit and indoor units, between indoor unit and remote controller).
 - The fuse on the outdoor unit PCB may have run out.
- If the remote controller shows "E3", "E4" or "L8" as an error code, there is a possibility that either the stop valves are closed, or that air inlet or air outlet are blocked.
- If the error code "U2" is displayed on the remote controller, check for voltage imbalance.
- If the error code "U4" or "UF" is displayed on the remote controller, check the inter-unit branch wiring connection.
- If the error code "*L*4" is displayed on the remote controller, it is possible that air inlet or air outlet are blocked.
- The reversed phase protection detector of this product only works during the initialisation stage after a power reset. The reversed phase protection detector is designed to stop the product in case of an abnormality when the product is started up.
 - When the reversed phase protection circuit forces the unit to stop, check if all phases exist. If this is the case, shut off the power supply to the unit and replace two of three phases. Turn on power again and start the unit.
 - Reversed phase detection is not performed while the product is operating.
 - In case of possible reversal of phases after a momentary black out of power and the power goes on and off while the product is operating, install a reversed phase protection circuit on site. Such situation is not unimaginable when using generators. Running the product in reversed phase can break the compressor and other parts.
- For a missing phase in case of W1 units, "*E*7" or "*U*2" will be displayed on the remote controller of the indoor unit. Operation will be impossible with either one of these phenomena. If this happens, turn off the power, re-check the wiring and switch the position of two of the three electrical wires. (If operation is not possible, do not under any circumstances force the electromagnetic contactor on.)

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.

Wiring diagram

0	: Wire clamp
	: Terminal
00	: Connector
-(: Relay connector
	: Field wiring

A1P~A4P	Printed circuit board
BS1~BS4	Push button switch
C1~C4	Capacitor
DS1	DIP switch
E1HC	Crankcase heater
F1U~F6U	Fuse
HAP (A1P)	Service monitor (green)
HAP (A2P)	Service monitor (green)
H1P (A1P)	Service monitor (red)
H1P~H7P (A2P)	Service monitor (orange)
K1M	Magnetic contactor (for W1 models only)
K1R	Magnetic relay (Y1S)
K2R	Magnetic relay (for W1 models only)
K3R	Magnetic relay (E1HC) (for W1 models only)
K4R	Magnetic relay (E1HC) (for V1 models only)
K4R•K5R	Magnetic relay (for W1 models only)
K10R•K11R	Magnetic relay
L1R	Reactor
M1C	Motor (compressor)
M1F•M2F	Motor (fan)
PS	Power circuit
Q1DI	Earth leakage breaker (field supply)
R1•R2	Resistor
R1T	Thermistor (air)
R2T	Thermistor (coil) (for W1 models only)
R2T	Thermistor (discharge) (for V1 models only)

BLK	: Black
GRN	: Green
BRN	: Brown
BLU	: Blue
ORG	6 : Orange
RED	: Red
WHT	: White
YLW	: Yellow
Δ	: Refer to the service manual for connecting wiring to X6A.
A	: The position of the selector switches (DS1) indicate the factory setting. For details, refer to the service manual.
R3	TThermistor (discharge pipe) (for W1 models only)
R3	TThermistor (suction pipe) (for V1 models only)
R4	TThermistor (suction pipe) (for W1 models only)
R4	TThermistor (coil) (for V1 models only)
R5	TThermistor (power module) (for W1 models only)
R5	TThermistor (coil middle) (for V1 models only)
R6	TThermistor (liquid)
R10	0TThermistor (fin)
RC	Signal receiver circuit
S11	NPLPressure sensor (low)
S11	NPHPressure sensor (high)
S1F	PHPressure switch (high)
S1F	PLPressure switch (low)
TC.	Signal transmission circuit
V1F	RPower module
V2F	R•V3RDiode module
V1	TInsulated gate bipolar transistor
X1	MTerminal strip
X6/	AConnector (option)
Y18	EExpansion valve
Y18	S4 way valve
Y28	SSolenoid valve
Z10	C~Z5CNoise filter
Z1F	F~Z4FNoise filter

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