Haier

CASSETTE TYPE AIR CONDITIONER
OPERATION MANUAL AND INSTALLATION MANUAL

AB25S2PC1FA
AB35S2PC1FA
AB50S2PC1FA

AB71S2PC1FA

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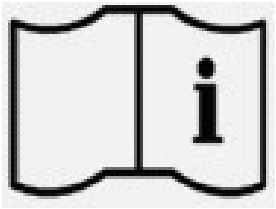
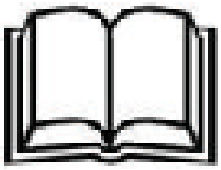
English

0150557263

- This product must only be installed or serviced by qualified personnel.
  Please read this manual carefully before installation.This appliance is filled with R32.
  Keep this manual for future reference.
  Original instructions

	**Read the precautions in this manual carefully before operating the unit.**		**This appliance is filled with R32.**
	**Service indicator; Read technical manual**		**Read the operator's manual**

Keep this manual where the user can easily find it.

English

⚠ WARNING

- Do not use means to accelerate the defrosting process or to clean, other than those recommended by the manufacturer.
- The appliance must be stored in a room without continuously operating ignition sources (for example: open flames, an operating gas appliance or an operating electric heater).
- Do not pierce or burn.
- Be aware that refrigerants may not contain an odour.
- If the supply cord is damaged, it must be replaced by the manufacturer,its service agent or similarly qualified persons in order to avoid a hazard.
- This appliance can be used by children aged 8 years and above and persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge if they have been given superivision or instruction concering use of the appliance in a safe way and understand the hazards involved. Children shall not play with the appliance. Cleaning and user maintenance shall not be made by children without supervision.
- The wiring method should be in line with the local wiring standard.
- All the cables shall have got the European authentication certificate. During installation, when the connecting cables break off, it must be assured that the grouding wire is the last one to be broken off. The explosion-proof breaker of the air conditioner should be all-pole switch. Distance between its two contacts should not be no less than 3mm. Such means for disconnection must be incorporated in the wiring.
- Make sure installation is done according to local wiring regulation by professional persons.
- Make sure ground connection is correct and reliable.
  A leakage explosion-proof breaker must be installed.
- Do not use a refrigerant other than the one indicated on the outdoor unit(R32) when installing, moving or repairing. Using other refrigerants may cause trouble or damage to the unit, and personal injury.
- The installation and service of this product shall be carried out by professional personnel, who have been trainedand certified by national training organizations that areaccredited to teach the relevant national competency standards that may be set in legislation.
- Mechanical connectors used indoors shall comply with ISO 14903. When mechanicalconnectors are reused indoors, sealing parts shall be renewed. When flared joints arereused indoors, the flare part shall be re-fabricated.
- This appliance is intended to be used by expert or trained users in shops, in light industry and on farms, or for commercial use by lay persons。
- Disconnect the appliance from its power source during service and when replacing parts

⚠ WARNING

•A brazed, welded, or mechanical connection shall be made before opening the valves to permit refrigerant to flow between the refrigerating system parts. A vacuum valve shall be provided to evacuate the interconnecting pipe and/or any uncharged refrigerating system part.
•The maximum working pressure is 4.3 MPa.
•This maximum working pressure shall be considered when connecting the outdoor unit to indoor unit.
•The refrigerant suitable for the indoor unit is R32 or R410A. The indoor unit shall only be connected to outdoor unit suitable for the same refrigerant.
•The unit is a partial unit air conditioner, complying with partial unit requirements of the International Standard, and must only be connected to other units that have been confirmed as complying to corresponding partial unit requirements of the International Standard.
•The A-weighted sound pressure level is below 70 dB.
•The maximum refrigerant charge amount (kg), and the minimum floor area (m2) of the room in which the indoor unit will be installed, are specified in the table on the page 10.
•Pipe-work shall be protected from physical damage and, in the case of flammable refrigerants, shall not be installed in an unventilated space, if the space is smaller than that specified in the table on the page 10
•The installation of pipe-work shall be kept to a minimum.
•Compliance with national gas regulations shall be observed.
•Mechanical connections shall be accessible for maintenance purposes.
•Handling, installation, cleaning, servicing and disposal of refrigerant shall be carried out as per the specifications on the following pages strictly.
•Warning: Keep any required ventilation openings clear of obstruction.
•Notice: Servicing shall be performed only as recommended by this manual instruction.

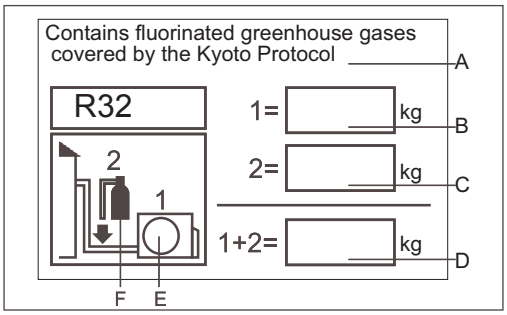
Haier

Haier Industrial Park,Qianwangang Road,Eco-Tech Development Zone,Qingdao 266555,Shandong, China

DISPOSALoEQUIoEMENTS:

Your air conditioning product is marked with this symbol.This means that electrical and electronic products shall not be mixed with unsorted household waste.Do not try to dismantle the system yourself:the dismantling of the air conditioning system,treatment of the refrigerant,of oil and of other part must be done by a qualified installer in accordance with relevant local and national legislation.Air conditioners must be treated at a specialized treatment facility for reuse, recycling and recovery.By ensuring this product is disposed of correctly,you will help to prevent potential negative consequences for the environment and humen health.Please contact the installer or local authority for more information. Battery must be removed from the remote controller and disposed of separately in accordance with relevant local and nationl legislation.

IMPORTANT INFORMATION REGARDING THE REFRIGERANT USED



This product contains fluorinated greenhouse gases covered by the Kyoto Protocol.Do not vent into the atmosphere.
Refrigerant type:R32
GWP:675
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 refrigerant charge label supplied with the product. The filled out label muset be adhered in the proximity of the product charging port(e.g.onto the inside of the stop value cover).

A contains fluorinated greenhouse gases covered by the Kyoto Protocol
B fatory refrigerant charge of the product:see unit name plate
C additional refrigerant amount charged in the field
D total refrigerant charge
E outdoor unit
F refrigerant cylinder and manifold for charging

English

⚠ WARNING

If the supply cord is damaged, it must be replaced by the manufacturer, its service agent or similarly qualified persons in order to avoid a hazard.

This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety.

Children should be supervised to ensure that they do not play with the appliance.

This appliance can be used by children aged from 8 years and above and persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge if they have been given supervision or instruction concerning use of the appliance in a safe way and understand the hazards involved. Children shall not play with the appliance. Cleaning and user maintenance shall not be made by children without supervision.

The appliances are not intended to be operated by means of an external timer or separate remote-control system.

Keep the appliance and its cord out of reach of children less than 8 years.

Cautions

Disposal of the old air conditioner

Before disposing an old air conditioner that goes out of use, please make sure it's inoperative and safe. Unplug the air conditioner in order to avoid the risk of child entrapment.

It must be noticed that air conditioner system contains refrigerants, which require specialized waste disposal. The valuable materials contained in an air conditioner can be recycled. Contact your local waste disposal center for proper disposal of an old air conditioner and contact your local authority or your dealer if you have any question. Please ensure that the pipework of your air conditioner does not get damaged prior to being picked up by the relevant waste disposal center, and contribute to environmental awareness by insisting on an appropriate, anti-pollution method of disposal.

Disposal of the packaging of your new air conditioner

All the packaging materials employed in the package of your new air conditioner may be disposed without any danger to the environment.

The cardboard box may be broken or cut into smaller pieces and given to a waste paper disposal service. The wrapping bag made of polyethylene and the polyethylene foam pads contain no fluorochloric hydrocarbon.

All these valuable materials may be taken to a waste collecting center and used again after adequate recycling.

Consult your local authorities for the name and address of the waste materials collecting centers and waste paper disposal services nearest to your house.

Safety Instructions and Warnings

Before starting the air conditioner, read the information given in the User's Guide carefully. The User's Guide contains very important observations relating to the assembly, operation and maintenance of the air conditioner.

The manufacturer does not accept responsibility for any damages that may arise due to non-observation of the following instruction.

- Damaged air conditioners are not to be put into operation. In case of doubt, consult your supplier.
- Use of the air conditioner is to be carried out in strict compliance with the relative instructions set forth in the User's Guide.
- Installation shall be done by professional people. Don't install unit by yourself.
- For the purpose of safety, the air conditioner must be properly grounded in accordance with specifications.
- Always remember to unplug the air conditioner before opening inlet grill. Always grip plug firmly and pull straight out from the outlet.
- All electrical repairs must be carried out by qualified electricians. Inadequate repairs may result in a major source of danger for the user of the air conditoiner.
- Do not damage any parts of the air conditioner that carry refrigerant by piercing or perforating the air conditioner's tubes with sharp or pointed items, crushing or twisting any tubes, or scraping the coatings off the surfaces. If the refrigerant spurts out and gets into eyes, it may result in serious eye injuries.
- Do not obstruct or cover the ventilation grille of the air conditioner. Do not put fingers or any other things into the inlet/outlet and swing louver.
- Do not allow children to play with the air conditioner. In no case should children be allowed to sit on the outdoor unit. When the indoor unit is turned on, the PCB will test if swing motor is O.K., and then fan motor will start up.So there is a few seconds to wait.
- In cooling mode,the flaps will swing automatically to a fixed position for anti-condensating.
- This appliance is not intended for use by persons (including children) with reducedphysical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety.
- Children should be supervised to ensure that they do not play with the appliance.

Specifications

The refrigerating circuit is leak-proof.
For all the models in this manual, the all-pole disconnexion connection method should be applied in the power supply.
Such means for disconnection must be incorporation in the fixed wiring.

Cooling	Indoor temperature	max. DB/WB min. DB/WB	32/23˚C 18/14˚C
	Outdoor temperature	max. DB/WB min. DB/WB	46/26˚C 10/6˚C
Heating	Indoor temperature	max. DB/WB min. DB/WB	27˚C 15˚C
	Outdoor temperature	max. DB/WB min. DB/WB	24/18˚C -15˚C

If the supply cord is damaged, it must be replaced by the manufacturer or its service agentor a similar qualified person.
If the fuse on PC board is broken please change it with the type of T 3.15A /250VAC.
The wiring method should be in line with the local wiring standard.
The waste battery shall be disposed properly.
The indoor unit installation height is at least 2.5m.
The air breaker and the power switch should installed the conveniently reachable pleace for user.

The specification of power cable is HO5RN-F3G 4.0mm^2.

The specification of cable between indoor unit to outdoor unit is HO5RN-F4G 2.5mm^2

Cautions

- The installation of pipe-work shall be kept to a minimum.
- Pipe-work shall be protected from physical damage and shall not be installed in an unventilated space, if that space is smaller than Amin(2m2).
  - Compliance with national gas regulations shall be observed.
  - Mechanical connections shall be accessible for maintenance purposes.
- The minimum floor area of the room: 2 m2.
  - The maximum refrigerant charge amount: 1.7 kg.
  - Information for handling, installation, cleaning, servicing and disposal of refrigerant.
  - Warning: Keep any required ventilation openings clear of obstruction.
  - Notice: Servicing shall be performed only as recommended by the manufacturer.

Unventilated areas
- Warning: The appliance shall be stored in a well-ventilated area where the room size corresponds to the room area as specified.
- Warning: The appliance shall be stored in a room without continuously operating open flames (e.g. an operating gas appliance) and ignition sources (e.g. an operating electric heater).

Qualification of workers
- Specific information about the required qualification of the working personnel for maintenance, service and repair operations.
- Warning: Every working procedure that affects safety means shall only be carried out by competent persons.

Examples for such working procedures are:
- breaking into the refrigerating circuit.
- opening of sealed components
- opening of ventilated enclosures.

Information on servicing
- Prior to beginning work on systems, safety checks are necessary to ensure that the risk of ignition is minimized.
- Work shall be undertaken under a controlled procedure so as to minimized the risk of flammable gas or vapor being present while the work is being performed.
- Work in confined spaces shall be avoided. The area around the workspace shall be sectioned off. Ensure that the conditions within the area have been made safe by control of flammable material.

Checking for presence of refrigerant
- The area shall be checked with an appropriate refrigerant detector prior to and during work. The leak detection equipment should be suitable for use with all applicable refrigerants, i.e. non-sparking, adequately sealed or intrinsically safe.

Presence of fire extinguisher
- If any hot work is to be conducted, appropriate fire extinguishing equipment shall be available to hand. Have a dry powder or CO2 fire extinguisher adjacent to the charging area.

No ignition sources
- All possible ignition sources, including cigarette smoking, should be kept sufficiently far away from the site of installation, repairing, removing and disposal. Prior to work taking place, the area around the equipment is to be surveyed to make sure that there are no flammable hazards or ignition risks. “No Smoking” signs shall be displayed.

Ventilated area
- Ensure that the area is in the open or that it is adequately ventilated before breaking into the system or conducting any hot work. A degree of ventilation shall continue during the period that the work is carried out. The ventilation should safely disperse any released refrigerant and preferably expel it externally into the atmosphere.

Checks to the refrigeration equipment
- Where electrical components are being changed, they shall be fit for the purpose and to the correct specification. At all times the manufacturer’s maintenance and service guidelines shall be followed. If in doubt, consult the manufacturer’s technical department for assistance.

The following checks shall be applied to installations
- The charge size is in accordance with the room size within which the refrigerant containing parts are installed;
- The ventilation machinery and outlets are operating adequately and are not obstructed;
- If an indirect refrigerating circuit is being used, the secondary circuit shall be checked for the presence of refrigerant;
- Marking to the equipment continues to be visible and legible. Markings and signs that are illegible shall be corrected;
- Refrigeration pipe or components are installed in a position where they are unlikely to be exposed to any substance which may corrode refrigerant containing components, unless the components are constructed of materials which are inherently resistant to being corroded or are suitably protected against being so corroded.

Cautions

Checks to electrical devices

- Repair and maintenance to electrical components shall include initial safety checks and component inspection procedures. If a fault exists that could compromise safety, then no electrical supply shall be connected to the circuit until it is satisfactorily dealt with. If the fault cannot be corrected immediately but it is necessary to continue operation, an adequate temporary solution shall be used. This shall be reported to the owner of the equipment so all parties are advised.
- Initial safety checks shall include:
  - that capacitors are discharged: this shall be done in a safe manner to avoid possibility of sparking;
  - that no live electrical components and wiring are exposed while charging, recovering or purging the system;
  - that there is continuity of earth bonding.

Repairs to sealed components

- During repairs to sealed components, all electrical supplies shall be disconnected prior to any removal of sealed covers, etc. If it is absolutely necessary to have an electrical supply to equipment during servicing, then a permanently operating form of leak detection shall be located at the most critical point to warn of a potentially hazardous situation.
- Ensure that by working on electrical components, the casing is not altered in such a way that the level of protection is affected, including damage to cables, excessive number of connections, terminals not made to original specification, damage to seals, incorrect fitting of glands, etc.
- Ensure that the apparatus is mounted securely.
- Ensure that seals or sealing materials have not degraded to the point that they no longer serve the purpose of preventing the ingress of flammable atmospheres. Replacement parts shall be in accordance with the manufacturer's specifications.

Repair to intrinsically safe components

- Do not apply any permanent inductive or capacitance loads to the circuit without ensuring that this will not exceed the permissible voltage and current permitted for the equipment in use.
- Intrinsically safe components are the only types that can be worked on while live in the presence of a flammable atmosphere.
- Replace components only with parts specified by the manufacturer. Other parts may result in the ignition of refrigerant in the atmosphere from a leak.

Cabling

- Check that cabling will not be subject to wear, corrosion, excessive pressure, vibration, sharp edges or any other adverse environmental effects. The check shall also take into account the effects of aging or continual vibration from sources such as compressors or fans.

Detection of flammable refrigerants

Removal and evacuation

- The refrigerant charge shall be recovered into the correct recovery cylinders and the system shall be "flushed" with OFN to render the unit safe. This process may need to be repeated several times.
- Compressed air or oxygen shall not be used for purging refrigerant systems.
- Flushing shall be achieved by breaking the vacuum in the system with OFN and continuing to fill until the working pressure is achieved, then venting to atmosphere, and finally pulling down to a vacuum. This process shall be repeated until no refrigerant is within the system. When the final OFN charge is used, the system shall be vented down to atmospheric pressure to enable work to take place.
- The vacuum pump is not close to any ignition sources and that ventilation is available.

Charging procedures

- Ensure that contamination of different refrigerants does not occur when using charging equipment. Hoses or lines shall be as short as possible to minimise the amount of refrigerant contained in them.
- Cylinders shall be kept upright.
- Ensure that the refrigeration system is earthed prior to charging the system with refrigerant.
- Label the system when charging is complete (if not already).
- Extreme care shall be taken not to overfill the refrigeration system.
- Prior to recharging the system, it shall be pressure-tested with the appropriate purging gas. The system shall be leak-tested on completion of charging but prior to commissioning. A follow up leak test shall be carried out prior to leaving the site.

Decommissioning

- Before carrying out this procedure, it is essential that the technician is completely familiar with the equipment and all its detail.
- Prior to the task being carried out, an oil and refrigerant sample shall be taken in case analysis is required prior to re-use of reclaimed refrigerant.
- Electrical power must be available before the task is commenced.

Cautions

- Become familiar with the equipment and its operation.
- Isolate system electrically.
- Before attempting the procedure, ensure that:
  • mechanical handling equipment is available, if required, for handling refrigerant cylinders;
  • all personal protective equipment is available and being used correctly;
  • the recovery process is supervised at all times by a competent person;
  • recovery equipment and cylinders conform to the appropriate standards.

- Pump down refrigerant system, if possible.
- If a vacuum is not possible, make a manifold so that refrigerant can be removed from various parts of the system.
- Make sure that cylinder is situated on the scales before recovery takes place.
- Start the recovery machine and operate in accordance with manufacturer's instructions.
- Do not overfill cylinders. (No more than 80 % volume liquid charge).
- Do not exceed the maximum working pressure of the cylinder, even temporarily.
- When the cylinders have been filled correctly and the process completed, make sure that the cylinders and the equipment are removed from site promptly and all isolation valves on the equipment are closed off.
- Recovered refrigerant shall not be charged into another refrigeration system unless it has been cleaned and checked.

Labelling

- Equipment shall be labelled stating that it has been de-commissioned and emptied of refrigerant. The label shall be dated and signed.
- Ensure that there are labels on the equipment stating the equipment contains flammable refrigerant.

Recovery

- When transferring refrigerant into cylinders, ensure that only appropriate refrigerant recovery cylinders are employed.
- Ensure that the correct number of cylinders for holding the total system charge are available. All cylinders to be used are designated for the recovered refrigerant and labelled for that refrigerant (i.e. special cylinders for the recovery of refrigerant).
- Cylinders shall be complete with pressure-relief valve and associated shut-off valves in good working order. Empty recovery cylinders are evacuated and, if possible, cooled before recovery occurs.
- The recovery equipment shall be in good working order with a set of instructions concerning the equipment that is at hand and shall be suitable for the recovery of all appropriate refrigerants.
- A set of calibrated weighing scales shall be available and in good working order. Hoses shall be complete with leak-free disconnect couplings and in good condition. Before using the recovery machine, check that it is in satisfactory working order, has been properly maintained and that any associated electrical components are sealed to prevent ignition in the event of a refrigerant release.
- The recovered refrigerant shall be returned to the refrigerant supplier in the correct recovery cylinder, and the relevant waste transfer note arranged.
- Do not mix refrigerants in recovery units and especially not in cylinders.

- If compressors or compressor oils are to be removed, ensure that they have been evacuated to an acceptable level to make certain that flammable refrigerant does not remain within the lubricant.
- The evacuation process shall be carried out prior to returning the compressor to the suppliers.
- Only electric heating to the compressor body shall be employed to accelerate this process.

Cautions

Carefully read the following information in order to operate the air conditioner correctly.
Below are listed three kinds of Safety Cautions and Suggestions.

⚠ **WARNING:** Incorrect operations may result in severe consequences of death or serious injuries.

⚠ **CAUTION:** Incorrect operations may result in injuries or machine damages; in some cases may cause serious consequences.

⚠ **INSTRUCTIONS:** These information can ensure the correct operation of the machine.

Symbols used in the illustrations

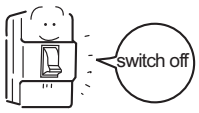
⃠ :Indicates an action that must be avoided.
❗ :Indicates that important instructions must be followed.
⏚ :Indicates a part which must be grounded.
ϟ :Beware of electric shock (This sumbol is displayed on the main unit label.)

After reading this handbook, hand it over to those who will be using the unit.
The user of the unit should keep this mamual at hand and make it available to those who will be performing repairs or relocating the unit. Also, make it available to the new user when the user changes hands.

Be sure to conform with the following important Safety Cautions.

⚠ WARNING

- If any abnormal phenomena is found (e. g.smell of firing), please cut off the power supply immediately, and contact the dealer to find out the handling method.
  In such case, to continue using the conditioner will damage the conditioner, and may cause electrical shock or fire hazard.



- Don't blow the human body with the cooling air too long, and don't let the room temperature decrease too low either. Otherwise the one will feel unpleasant or harm ones' health.

- Call the dealer to take measures to prevent the refrigerant from leaking.
  If conditioner is installed in a small room be sure to take every measure in order to prevent suffocation accident even in case of refrigerant leakage.

- When need maintenance and repairment, call dealer to handle it.
  Incorrect maintenance and repairment may cause water leak, electrical shock and fire hazard.

- Don't put fingers or any other things into the inlet/outlet and swing louver while the conditioner is in operation.
  Because the highspeed fan is very dangerous and may cause injuries.

- Please let the dealer be responsible for installing the conditioner.
  Incorrect installation may cause water leak, electrical shock and fire hazard.

- When conditioner is deinstalled or reinstalled dealer should be responsible for them.
  Incorrect installation may cause water leaking,electrical shock and fire hazard.

⚠ CAUTION

- Conditioner should not be used for any other purpose other than airconditioning.
  Don't use air-conditioner for any other special purposes,e.g. the preservation and protectionof food, animals, plants,pecision apparatus as well as work of art, otherwise the qualities of these stuffs may be damaged.

- Don't dismantle the outlet of the outdoor unit.
  The exposure of fan is very dangerous which may harm human beings.

- Don't dismantle the outlet of the outdoor unit.
  The exposure of fan is very dangerous which may harm human beings.

- When air-conditioner is co-used with other heat-radiator the frequent replacement of room atmosphere should be required.
  Inefficient ventilation may cause suffocation.

- After a long time use of air-conditioner the base should be checked for any damages.
  If the damaged base is not repaired, the unit may fall down and cause accidents.

- No goods or nobody is permitted to placed onor stand on outdoor unit.
  The falling of goods and people may cause accidents.

Cautions

⚠ CAUTION

- Don't dismantle the outlet of the outdoor unit.
  The exposure of fan is very dangerous which may harm human beings.

- Pets and plants should not be blowed directly in the air flow.
  Otherwise will suffer damage.

- Don't operate the air-conditioner with damp hands.
  Otherwise will be shocked.

- Only use correctly-typed fuse.
  May not use wire or any other materials replacing fuse, otherwise may cause faults or fire accidents.

- Air-conditioner should be cleaned only after power supply is cut off to keep from shock or hurt.

- Don't clean air-conditioner with water.
  Otherwise may cause shock.

- After a long time use of air-conditioner the base should be checked for any damages.
  If the damaged base is not repaired, the unit may fall down and cause accidents.

- No goods or nobody is permitted to placed onor stand on outdoor unit.
  The falling of goods and people may cause accidents.

- Don't place any burning unit in the air flow of air -conditioner, which may cause incomplete combustion.

- No inflammable spray fluid should be permitted to be placed or used near to air-conditioner otherwise may cause fire accidents.

- When use the fumigating insecticide don't open air-conditioner.
  Otherwise the poisonous chemicals may settle in air-conditioner which harm the health of chemical-allergic people.

English

⚠ INSTRUCTIONS:

Please ask the dealer or specialist to install, never try by the users themselves. After the installation please be sure of the following conditions.

⚠ WARNING:

Please call dealer to install the air-conditioner.

Incorrect installation may cause water leaking, shock and fire hazard.

⚠ CAUTION:

- Air-conditioner can't be installed in the envi-ronment with inflammable gases because the inflammable gases near to airconditioner may cause fire hazard.
- Installed electrical-leaking circuit breaker.
  It easily cause electrical shock without circuit breaker.
- Connect earthing wire.
  Earthing wire should not be con- nected to the gas pipe, water pipe, lightning rod or phone line, incorrect earthing may cause shock.

Earthing

- Use discharge pipe correctly to ensure efficientdischarge.
  Incorrect pipe use may cause water leaking.

[Location]

- Air-conditioner should be located in well-vented and easily-
- accessible place.
  Air-conditioner should not be located in the following places:
  (a) Places with machine oils or other oil vapours.
  (b) Seaside with high salt content in the air.
  (c) Near to hot spring with high content of sulfide gases.
  (d) Area with frequent fluctuation of voltage e.g. factory, etc.
  (e) In vehicles or ships.
  (f) Kitchen with heavy oil vapour or humidity.
  (g) Near to the machine emitting electric-magnetic waves.
  (h) Places with acid, alkali vapuor.TV, radio, acoustic appliances etc are at least 1 m far away to the indoor unit, outdoor unit, power supply wire, connecting wire, pipes, otherwise images may be disturbed or noises be created.

[Wiring]

Air-conditioner should be equipped with special power supply wire.

[Operating noise]

- Chose the following locations:
  (a) Capable of supporting air-conditioner weight, don't increase operating noise and vibration.
- (b) Hot vapour from outdoor unit outlet and operating noise don't disturb neighbour.
  No obstacles around the outdoor unit outlet.

Safety Precautions

● Installation Precautions

WARNING!

★ The area of the room in which R32 refrigerant air conditioner is installed cannot be less than the minimum area specified in the table below, to avoid potential safety problems due to out-of-limit of refrigerant concentration inside the room caused by leakage of refrigerant from refrigeration system of the indoor unit.

★ Once the horn mouth of connecting lines is fastened, it may not be used again (the air tightness may be affected).

★ A whole connector wire shall be used for indoor/outdoor unit as required in the operation specification of installation process and operation instructions.

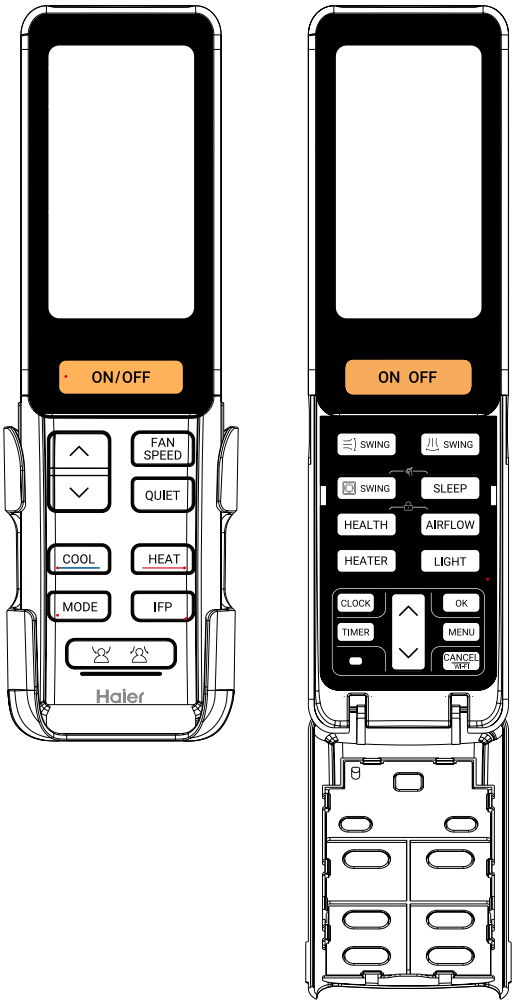
Minimum Room Area

Type	LFL kg/m3	hv m	Total Mass Charged/kg Minimum Room Area/m^2						
R32	0.306		1.224	1.836	2.448	3.672	4.896	6.12	7.956
		0.6	/	29	51	116	206	321	543
		1.0	/	10	19	42	74	116	196
		1.8	/	3	6	13	23	36	60
		2.2	/	2	4	9	15	24	40

Remote Controller Operation Manual

External View of Remote Controller

Remote Controller function description
This remote Controller is a general remote Controller, and some functions are valid according to the adaptable model.



Functional description

1.ON/OFF Button:

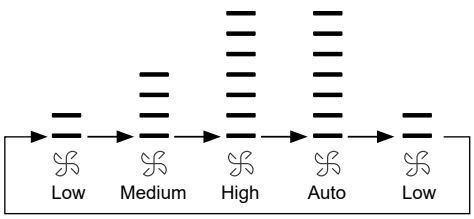
Turning on the units:Press the ON/OFF button to turning on the units.
Note: The initial default operation mode is AUTO and then will display the mode before turning off
Press ON/OFF button again to turn off the unit.

2. temperature +/- Button:

(1)This button is invalid in FAN mode;
(2)Pr button once, temperature will increase or decrease by 0.5°C; pressing and holding the button will make the temperature change quickly.

3. FAN SPEED Button:

Press the FAN SPEED button, the cycle sequence is as follows:



4. QUIET

Press QUIET button, the controller screen will display " (" . The fan speed in Quiet function is automatic fan speed, but the specific fan speed grade in auto depends on indoor unit.
Note: This function is valid under the mode of COOL and HEAT.

5. COOL/ HEAT

Press COOL button and HEAT button to execute COOL mode and HEAT mode .

6. MODE

Press the MODE button every time, the cycle sequence is as follows: AUTO → COOL → DRY → HEAT → FAN → AUTO

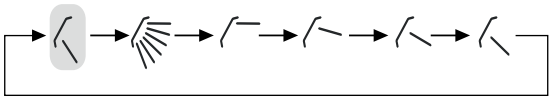
7. IFP

(1) Pr IFP button, display “IFP”, IFP function is set, and press IFP button again to cancel.
(2) Pr button, display that expresses following; press it again, display that expresses evading. Press it the third time to cancel this function.
(3) Airflow angle will adjust automatically along with the location of people. At the same time, , AUTO and AUTO will disappear.

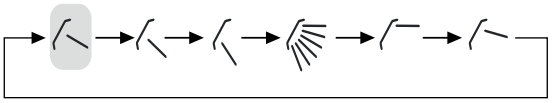
8. SWING Up-and-down SWING Angle

Each time you press the button SWING , Remote control display cycle sequence:

HEAT MODE:

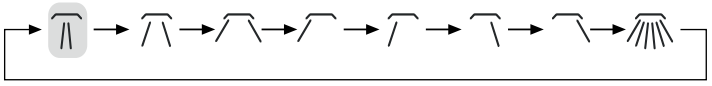


Other modes:



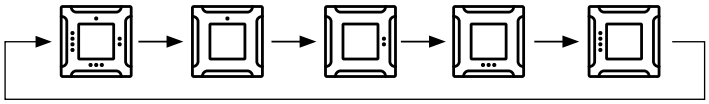
9. SWING Right-and-left SWING Angle adjustment

Each time you press the button SWING , the remote control will display the following cycle:



10. SWING Round-way cassette swing angle adjustment

Each time you press the button , Remote control display cycle sequence:



When pressing SWING button to select blade, the selected blade flashes. Press “Up-and-down Angle” button to adjust airflow angle of the selected blade.

11. SLE

Press the SLEEP button, and the remote controller screen will display "Sleep".The SLEEP time is fixed to 8 hours and is not adjustable. Press the SLEEP button again, and the sleep function will be cancelled.

Note:
(1) Sleep function is invalid FAN mode.
(2) Sleep function is only valid during the units turning on.

English

Remote Controller Operation Manual

Functional description

12. LTH

(1) When the controller is switched on, pr HEALTH button, health function is activated and the remote controller will display "HEALTH".

(2) When the controller is turned off, press the HEALTH button, the controller will be turned on, enter FAN mode and display "HEALTH".

(3) If the Health function is set and activated, Press Health but will cancel this function.

13. Hea AIRFLOW

Press the AIRFLOW button and the remote controller screen displays "AIRFLOW ".

Press AIRFLOW again to cancel this function.

14. ATER

Press the HEATER button, and the remote controller will display "HEATER ".

Press HEATER button again, the " HEATER " on the remote controller will disappear, and the HEATER function will be turned off.

Note: Heather funciton is only valid in AUTO and HEAT mode.

15. LI

Press the LIGHT button to activate the light function.

Press the LIGHT button again, and the light function is off.

16.CLOCK

Press the CLOCK button, the time displayed on the remote controller flashes. Then Press the button once, the time increases or decreases by one minute. Holding the button will quickly increase or decrease the time.

To complete the set time, press CLOCK / OK button again to confirm.

17.TIME

(1) When the controller is on, you can only set the TIMER OFF. And when the controller is off, you can only set the TIMER ON.

When the remote controller is off, press the TIMER button to enter the TIMER ON adjustment state.

Functional description

Press the TIMER button under the starting state of the remote control to enter the TIMER OFF adjustment state.

When entering the timing adjustment process, timer ON/OFF icon and clock flash at the same time, the initial default value is: 12:00.

Press the button once to increase or decrease the time by 1 minutes, pressing and holding the button will speed up the adjustment.

After the time adjustment is completed, press the TIMER / OK button again to confirm. Then the time will statically display, and start the countdown.

18.MENU

Press the MENU button, Functional cycle is as follows: TURBO → FRESH→IFP AC OFF→IFP AC ECO→3D AIR(reserved)→ → →10°C heating (Only valid in HEAT mode) → °F / °C→TURBO

1. Pre MENU button, the current function to be set flashes;
2. Pre MENU button again to set/cancel the current setting function in the above sequence. If there is no operation in 5 seconds, it will exit automatically.

19. Wi-Fi Configuration

Press CANCEL Wi-Fi button 3S to enter Wi-Fi configuration, remote controller displays COOL mode, LOW fan speed and 30°C.
Or you can enter the Wi-Fi configuration through setting Cooling mode, Low fan speed and 30°C.

20.SELF-CLEAN

Press the combined button SWING and SLEEP, and the remote controller will display "SELF-CLEAN".

Press ON/OFF button or MODE button to exit the self-cleaning function.

Note: The "SELF-CLEAN" function is invalid under “SLEEP” function and “TIMER” function.

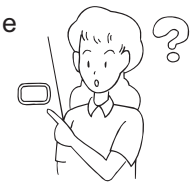
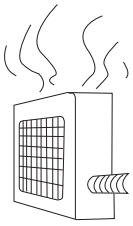
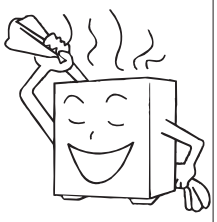
21. L

Press the combination key button HEALTH and AIRFLOW, and the remote controller screen will display " ". All buttons on the remote control are invalid.

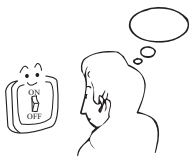
Press the combination button HEALTH and AIRFLOW again to cancel the lock, " " disappear. All buttons on the controller will restore to be valid.

Troubleshooting

The followings are not malfuncition

Water flowing sound is heard 	When the air conditoner is started, when the compressor starts or stops during operation or when the air conditioner is stopped,it sometimes sounds “ Bi- Bi-” or “Godo-Godo”. It is the flowing sound of the refrigerant , not a malfunction.
Cracking sound is heard	This is caused by heat expansion or contraction of plastics
It smells.	Air blown out from the indoor unit sometimes smells. The smell results from smells of furniture, paint , tobacco absorbed by indoor unit.
During operation, white fog comes out of indoor unit. 	When in COOL or DRY mode, a thin water fog can be seen blown out of unit ,this is the condensed fog because the suddenly cooled indoor air is blown out.
Automatically switch into FAN mode during cooling.	To prevent frost from being accumulated on the indoor unit heat exchanger, it sometimes automatically switched into the FAN mode, but it will soon back to the cooling mode.
The air conditioner cannot be restarted soon after it stops. Air conditioner does not start? 	This is because of the self-protection function of the system, therefore, it cannot be restarted for about three minutes after it stops. Please wait for three minutes
Air does not blow or the fan speed cannot be changed during drying.	In DRY mode, when room temperature becomes 2°C higher than temperature setting, unit rill run intermittently at LO speed regardless of FAN setting
Water or vapor generated from the outdoor unit during heating. 	This happens when the frost accumulated on the outdoor unit is removed (during defrosting operation). Defrosting operation 
During heating,indoor fan is still running even unit is stopped.	To get ride of the excess heat, indoor fan will continue running for a while after unit automatically stops.

Please check the following things about your air conditioner before making a service call.

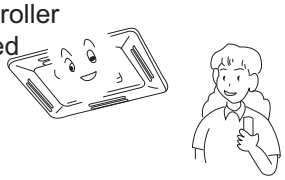
Unit fails to start.		
Is the power supply switch on ?  Power supply switch is not in ON position.	Is city supply power normal ? 	Is the earth leakage breaker in action ? Be sure to turn off the power supply switch immediately and contact the sales dealer.

English

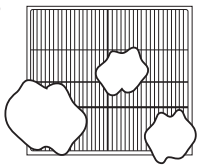
Troubleshooting

Insufficient cooling or heating

The operation controller adjusted as required



Air filter too dirty ?



Horizontal swing louver upward ? (in HEAT mode)

Any obstacle exists at the air inlet or outlet?

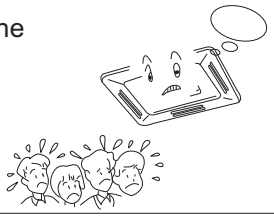
Door or window left opened ?

Insufficient cooling

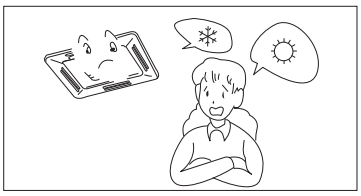
Any other heat sources in the room?

Sunlight direct into the room ?

Too crowed in the room ?



Cooled air blown out (when heating)



When the air conditioner does not operate properly after you have checked the above-mentioned items or when following phenomenon is observed,stop the operation of the air conditioner and contact your sales dealer.

1)The fuse or breaker often shuts down.

2)Water drops off during cooling or drying operation.

3)There is an irregularity in operation or abnormal sound that is audible.

When failure happens, the fan of indoor unit stop running.

For indoor failure, only running LED of remote receiver will indicate,

For outdoor failure, timer LED and running LED will indicate .timer LED of remote receiver stands for ten's place, and running LED stands for one's place. Timer LED will flash firstly, 2 seconds later, running LED will flash too.After that finishes, 4 seconds later, they will flash in turns again. Flash times is the failure of outdoor + 20.

For example,failure code that outdoor is 2, so indoor unit should display 22. As a result, timer LED flashes twice firstly, then running LED flashes twice.

Ta: ambient temperature sensor ; Tm: coil temperature sensor

Trouble shooting	FAILURE CODE(running led of indoor receive board flashes times)	POSSIBLE REASONS
Faulty temperature Ta	1	Sensor disconnected, or broken, or at wrong position, or short circuit
Faulty temperature Tm	2	Sensor disconnected, or broken, or at wrong position, or short circuit
Faulty EEPROM on indoor unit PCB	4	Faulty indoor unit PCB
Abnormal communication between indoor and outdoor units	7	Wrong connection, or the wires be disconnected, or wrong address setting of indoor unit, or faulty power supply or faulty PCB
Abnormal communication between indoor wired controller and indoor unit PCB	8	Wrong connection, or the wired controller be disconnected, faulty PCB
Drainage system abnormal	12	Pump motor disconnected, or at wrong position, or the float switch broken down, or the float switch disconnected,or at wrong position
Zero cross sigal wrong	13	Zero cross sigal detected wrong
Indoor unit DC fan motor abnormal	14	DC Fan motor disconnected or DC Fan broken or circuit broken
Indoor abnormal mode operation	16	Different from outdoor unit mode

For the outdoor failure indicated by the indoor unit, please refer to the outdoor failure code list

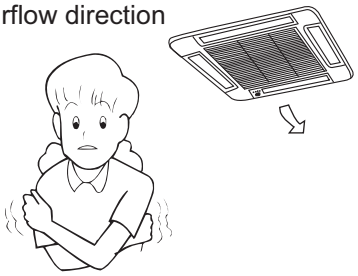
Customer Need-to-know

Customer Need-to-know

- Please install the air conditioner according to the requirements specified in this manual to ensure the air conditioner work well.
- Be careful not to scratch the surface of the case during moving the air conditioner.
- Please keep the installation manual for future reference when maintenance and changing installation place.
- After installation ,please use the air conditioner according to the specification in the operation manual.

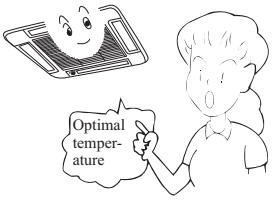
Using Directions

Adjust suitable airflow direction

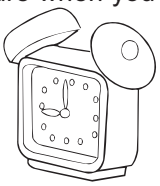


Avoid direct sunlight and airflow

Keep the proper indoor temperature.
Too cool or hot is not good for your health.
Furthermore,it will result in excessive consumption of electric power.



Effectively use timer.
Using TIMER mode, you can make the room temperature reach a suitable temperature when you wake up or back home.



English

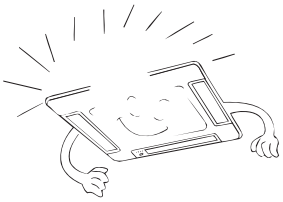
Maintenance

Seasonal Reserve

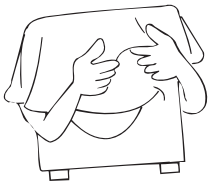
Post-season Care

Operate the unit with FAN mode on a fair day for about half a day to dry the inside of the unit well.

Stop operation and turn off the power supply switch .Electric power is consumed even the air conditioner is in stop.

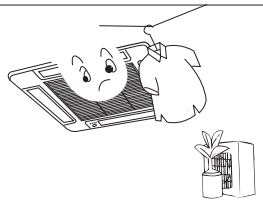


Clean the air filter, indoor unit and outdoor unit,and cover the unit with dustcoat.



Pre-season Care

See that there is no obstacles blocking the air inlet and air outlet of both indoor and outdoor unit to avoid reduce the working efficiency.



Be sure to install the air filter, ensure that the air filter is not dirty. Otherwise may result in machine damages or cause malfunciton due th dust inside the unit

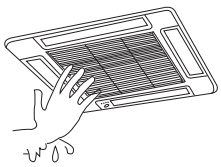
To prevent compressor when start in HEAT mode, please cut in the power supply switch 12 hours before starting run,furthermore, always keep the power supply switch on during the using senson.

NOTE:

The inner part of indoor unit must be cleaned. Consult dealer, because clean must be done by technician.
In cooling operation, discharging system discharge water in room.

Maintenance

Clean the unit

Turn off the power supply switch	Do not touch with wet hand.	Do not use hot water or volatile liquid
		

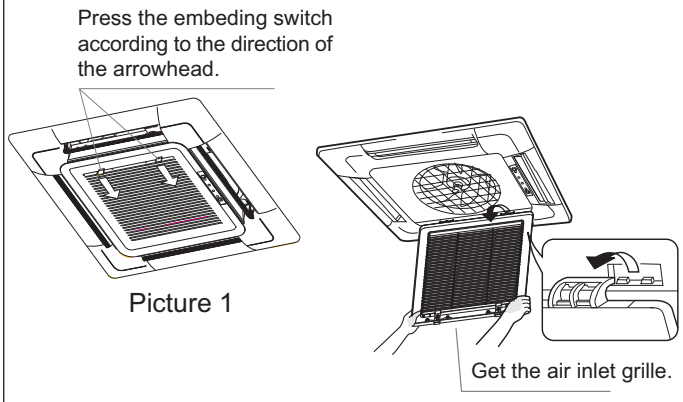
NOTE: For detailed information consult dealer.

Air filter washing

- Please don't tear down the air filter, or it may lead to
- trouble.
  If the environment where the aircon works is full of dust, the air filter should be wash more times than ever (it is usually twice a week).

1.Get the air inlet grille

Look at picture 1, press the two embeding switch vertically to make it close to the side grille, then raise it for about 45° to take the air inlet grille down.

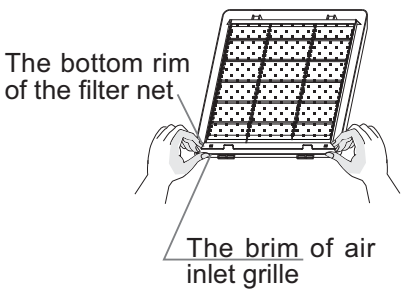


Picture 1

2. Tear down the air filter (Picture 2)

Press the outer brim of the air inlet grille with your thumb, at the same time, pull out the bottom rim of the filter net slightly with your forefinger, so the filter net can part from the embeding switch for us to get it easily.

Picture 2

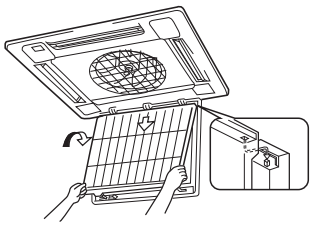


PS: the pictures above are only models, pls obey the real machinery.

Clean the air inlet grille

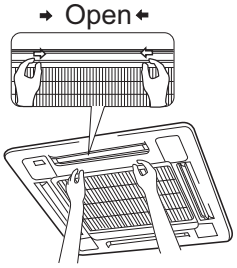
(1). Open air inlet grille

Pull the two handles at the same time, slowly draw them out. (when closing it, the procedure is reversed.)



(2). Remove air filter

Referring to “Clean the air filter”.



(3). Remove the air inlet grille

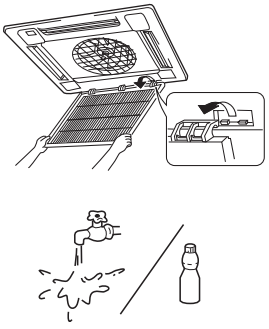
Open the air inlet grille for 45°, the lift it up.

(4). Clean

⚠ Notice

Do not use the hot water over 50° C to clean to avoid discoloration or deformation.

Use soft brush, water and neutral detergent to clean, then throw the water off.



When there is too much dust

Use ventilation fan or directly spray the detergent special for kitchen ware on the air inlet grille, 10 minutes later use water to clean.

(5). Install air inlet grille

Referring to procedure 3.

(6). Install the air filter

Referring to “Clean the air filter”

(7). Close air inlet grille

Referring to procedure 1.

Installation Procedure

CAUTIONS:

To ensure proper installation, read "Cautions" carefully before working. After installation, start the unit correctly and show customers how to operate and maintain the unit.

Meanings of Warning and Cautions:

⚠ **WARNING:** Serious injury or even death might happen, if it is not observed.

⚠ **CAUTION:** Injury to people of damages to machine might happen, if it is not observed.

⚠ **WARNING:**

- Installation shall be done by professional people, don't install unit by yourself. Incorrect installation will cause water leakage, electric shock or fire.
- Install unit as per the Manual. Incorrect installation will cause water leakage, electric shock or fire accident.
- Be sure to use specified accessaries and parts. Otherwise, water leakage, electric shock, fire accident or unit falling down may happen.
- Unit should be placed on a place strong enough to hold the unit. Or, unit will fall down causing injuries.
- When install the unit, take in consideration of storms, typhoom, earthquake. Incorrect installation may cause unit to fall down.
- All electric work shall be done by experienced people as per eocal code, regulations and this Manual.
- Use exclusive wire for the unit. Incorrect installation or undersized electric wire may cause electric shock or fire accident.
- All the wires and circuit shall be safe. Use exclusive wire firmly fixed. Be sure that external force will not affect terminal bolck and electric wire. Poor contact and installation may cause fire accident.
- Arrange wire correctly when connectin indoor and outdoor power supply. Fix terminal cover firmly to avoid overheat, electric shock or even fire accident.
- In case retrigerant leakage occurred during unit installation, keep a good ventilation in the room.
- Poisonous gas will occur when meet with fire.
- Check the unit upon installation. Be sure there is no leakage. Refrigerant will induce poisonous gas when meet heat source as heater, oven, etc.
- Cut power supply before touching terminal bolck.

⚠ **CAUTION:**

- Unit shall be grounded. But grounding shall not be connected to gas pipe water pipe, telephone line. Poor grounding will cause electric shock.
- Be sure to install a leakage breaker to avoid electric shock.
- Arrange water drainage according to this Manual. Cover pipe with insulation materials in case dew may occur. Unproper installation of water drainage will cause water leakage and wer your furniture.
- To maintain good picture or reduce noise, keep at least 1 m from T.V. radio, when install indoor and outdoor unit, connecting wire and power line. (If the radio wave is relatively strong, 1 m is not enough to reduce noise).
- Don't install unit in following places:
  (a) Oil mist or oil gas exists, such as kitchen, or, plastic parts may got aged, or water leakage.
  (b) Where there is corrosive gas. Copper tube and welded part may be damaged due to corrosion, causing leakage.
  (c) Where there is strong radiation. This will affect unit's control system, causing malfunction of the unit
  (d) Where flamable gas, dirt, and volatile matter (thinner, gasoline) exist, These matter might cause fire accident.
- Refer to paper pattern when installing unit.

Earthing

Cautions for the installation personnel

Don't fail to show customers how to operate unit.

English

Installation Procedure

❶ BEFORE INSTALLATION <Don't discard any accessories until comp>

- Determine the way to carry unit to installation place.
- Don't remove packing until unit reaches installation place.
- If unpacking is unkavoidable, protect unit properly.

❷ SELECTION OF INSTALLATION PLACE

(1) Installation place shall meet the following and agreed by customers:

- Place where proper air flow can be ensured.
- No block to air flow.
- Water drainage is smpoth.
- Place strong enough to support unit weight.
- Place where inclination is not evident on ceiling.
- Enough space for mainenance.
- Indoor and outdoor unit piping length is within limit. (Refer to Installation Manual for outdoor unit.)
- Indoor and outdoor unit, power cable, inter unit cable are at least 1 m away fromT.V. radop. This is helpful to avoid picture disturbance and noise. (Even if 1 m iskept, noise can still appear if radio wave is strong)

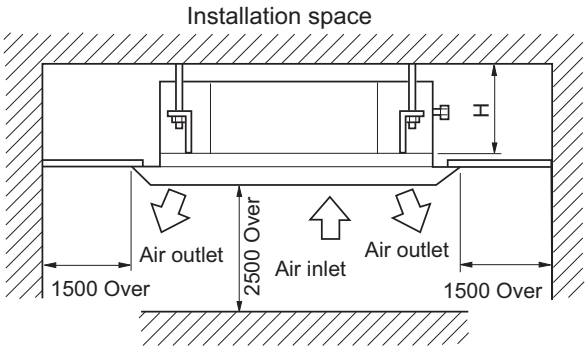
(2) Ceiling height

Indoor unit can be installed on ceiling of 2.5-3m in height. (Refer to Foeld setting and Installation Manual of ornament panel.)

(3) Install suspending bolt.

Check if the installation place is strong enough to hold weight. Take necessary measures in case it is not safe. (Distance between holes are marked on paper pattern. Refer to paper pattern for place need be reinforced)

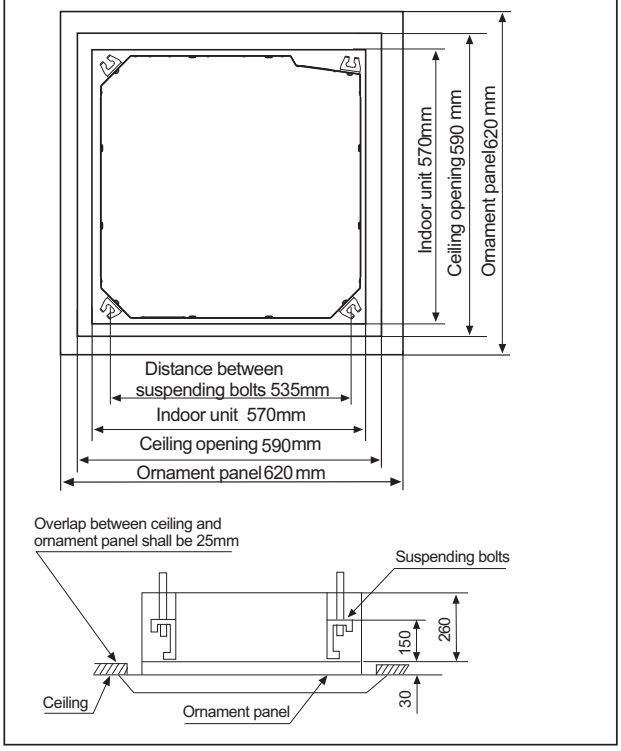
Model	H
AB25S2PC1FA AB35S2PC1FA AB50S2PC1FA	320
AB71S2PC1FA	257



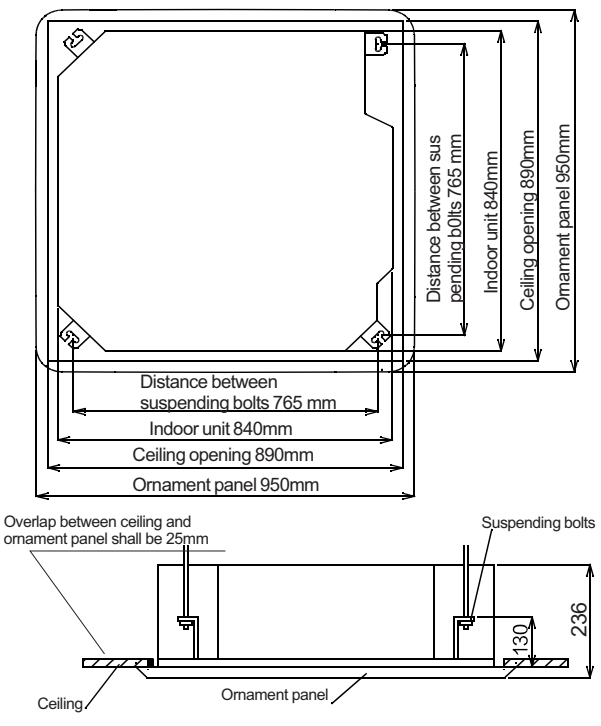
❸ PREPARATION FOR THE INSTALLATION

(1) Position of ceiling opening between unit and suspending bolt.

AB25S2PC1FA AB35S2PC1FA AB50S2PC1FA



AB71S2PC1FA



Installation Procedure

Indoor unit	Panel
AB25S2PC1FA AB35S2PC1FA AB50S2PC1FA	PB-620KB
AB71S2PC1FA	PB-950KB

Installation Procedure

(2) Cut an opening in ceiling for installation if necessary. (when ceiling already exists.)

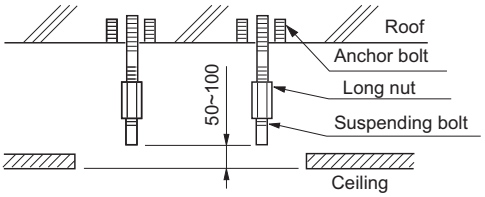
- Refer to paper pattern for dimension of ceiling hole.
- Connect all pipings (refrigerant, water drainage), wirings (inter unit cable) to indoor unit, before installation.
- Cut a hole in ceiling, may be a frame should be used to ensure a smooth surface and to prevent vibration.
- Contact your real estate dealer

(3) Install a suspending bolt. (Use a M10 bolt)

- To support the unit weight, anchor bolt shall be used in the case of already exists ceiling. For new ceiling, use builtin type bolt or parts prepared in the field.
- Before going on installing adjust space between ceiling.

Note: All the above mentioned parts shall be prepared in field.

Installation example



❹ INSTALLATION OF INDOOR UNIT

In the case of new ceiling

(1) Install unit temporally

Put suspending bracket on the suspending bolt. Be sure to use nut and washer at both ends of the bracket.

(2) As for the dimensions of ceiling hole, see paper pattern. Ask your real estate dealer for details.
Center of the hole is marked on the paper pattern.
Center of the unit is marked on the card in the unit and on the paper pattern.
Mount paper pattern⑤ onto unit using 3 screws⑥ .Fix the corner of the drain pan at piping outlet.

<After installation on the ceiling>

(3) Adjust unit to its right position. (Refer to preparation for the installation-(1))

(4) Check unit's horizontal level.

Watert pump and flating switch is installed inside indoor unit, check four corners of the unit for its level using horizontal compartor or PVC tube with water. (If unit is tilting against the direction of water drainage, problem may occur on floating switch, causing water leakage.)

(5) Remove the washer mounlting ② and tighten the nut above.

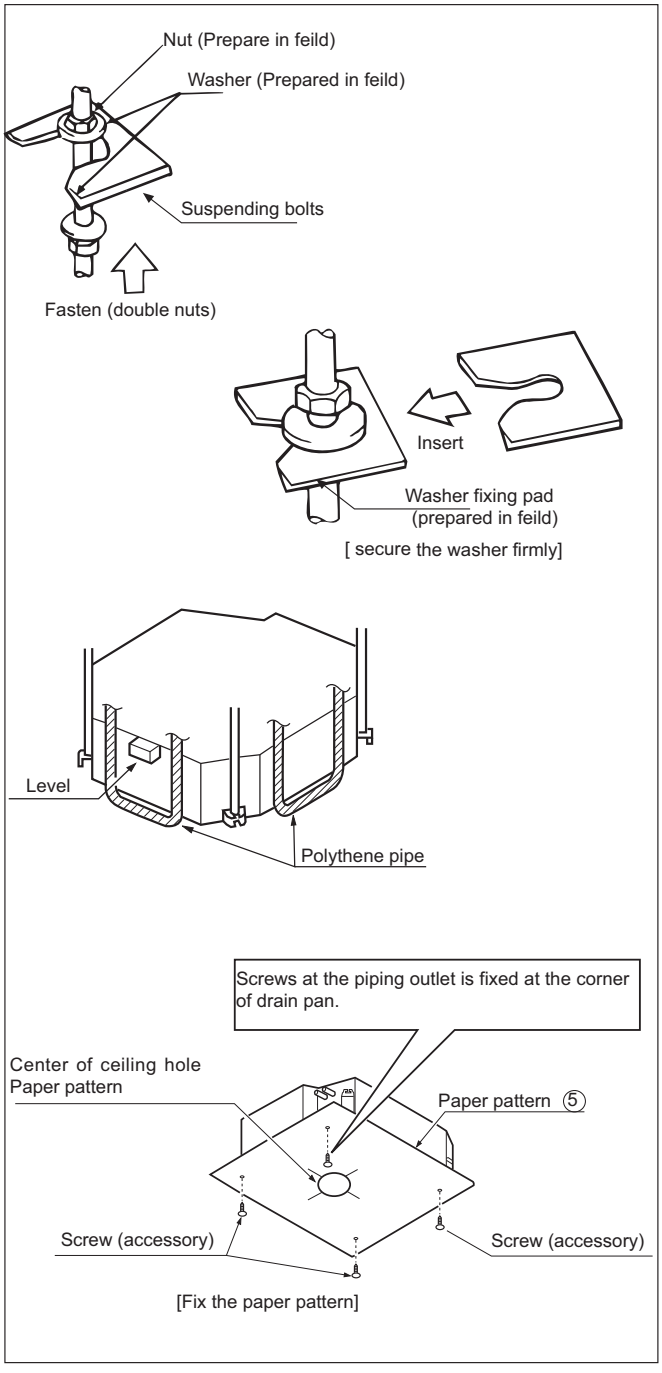
(6) Remove the paper pattern.

In the case of ceiling already exists

(1) Install unit temporally
Put suspending bracket on the suspending bolt. Be sure to use nut and washer at both ends of the bracket. Fix the bracket firmly.

(2) Adjust the height and position of the unit.
(Refer to preparation for the installation (1)).

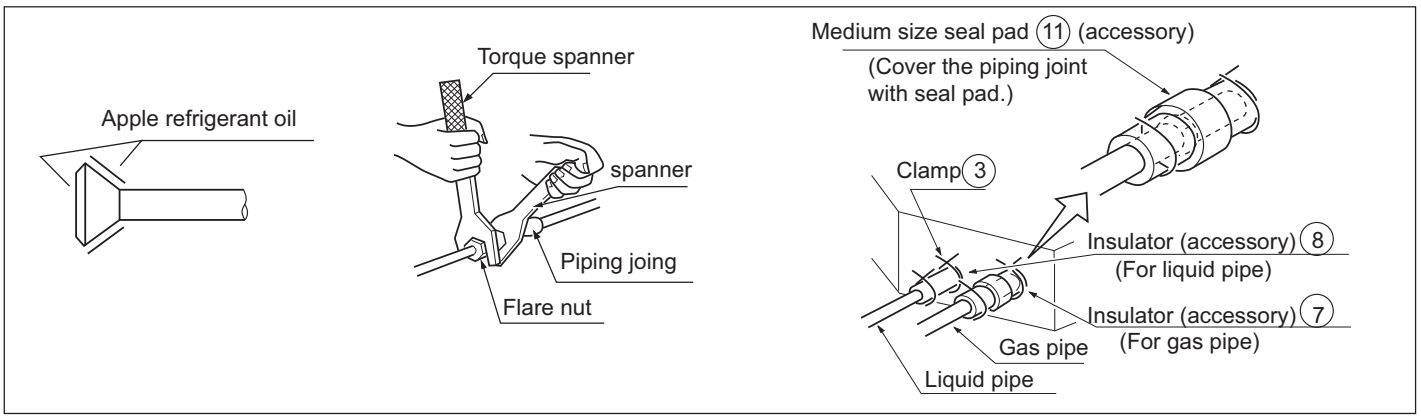
(3) Proceed with ❸ and ❹ of "In the case of new ceiling".



Installation Procedure

❺ REFRIGERANT PIPING (As for outdoor piping, please refer to installation Manual of outdoor unit.)

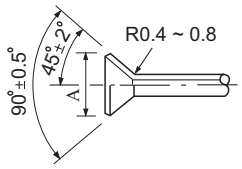
- Outdoor is precharged with refrigerant.
- Be sure to see the Fig.1, when connecting and removing piping from unit.
- For the size of the flare nut, please refer to Table 1.
- Apply refrigerant oil at both inside and outsid of lflare nut. Tighten it band tight 3-4 turns then tighten it.
- Use torque specified in Table 1. (Too much force may damage flare nut, causing gas leakage).
- Check piping joints for gas leakage. Insulate piping as shown in Fig. below.
- Cover joint of gas piping and insulator ⑦ with seal.



Pipe size

Model	Liquid side	Gas side
AB25S2PC1FA AB35S2PC1FA	Ø6.35mm	Ø9.52mm
AB50S2PC1FA	Ø6.35mm	Ø12.7mm
AB71S2PC1FA	Ø9.52mm	Ø15.88mm

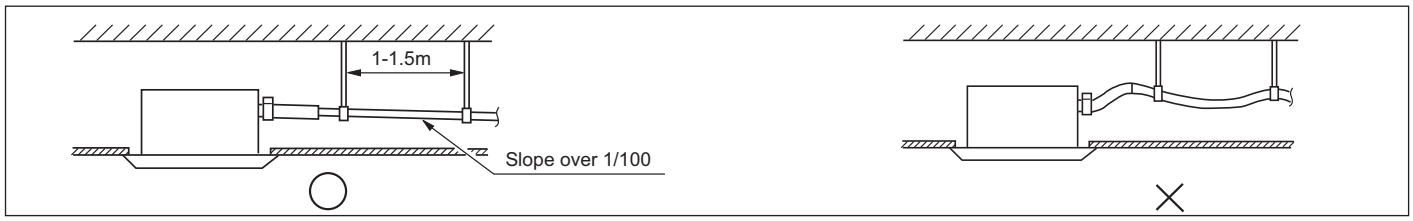
Table 1

Pipe size	Tighten torque	A(mm)	Flare shape
Φ6.35	1420~1720N.cm (144~176kgf.cm)	8.3~8.7	
Φ9.52	3270~3990N.cm (333~407kgf.cm)	12.0~12.4	
Φ12.7	4950~6030N.cm (490~500kgf.cm)	12.4~16.6	
Φ15.88	6180~7540N.cm (630~770kgf.cm)	18.6~19.0	
Φ19.05	9720~11860 N.cm (990~1210 kgf.cm)	22.9~23.3	

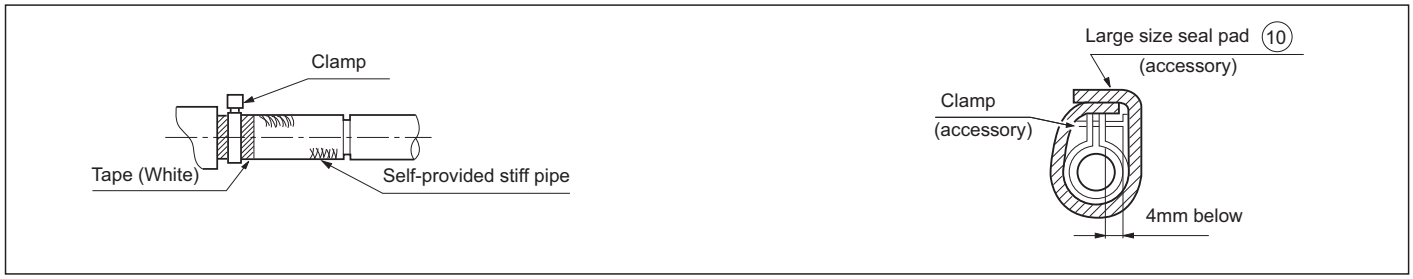
❻ INSTALLATION OF WATER DRAINAGE PIPE

(1) Install water drainage pipe

- Pipe dia, shall be equal or larger than that of unit piping.(pipe of polyethylent; size: 25mm; O.D:32mm)
- Drain pipe should be short, with a downward slope at least 1/100 to prevent air bag from happening.
- If downward slope can't be made, take other measures to lift it up.
- Keep a distance of 1-1.5m between suspending brackets, to make water hose straight.



- Use the self-provided stiff pipe and clamp ① with unit. Insert water pipe into water plug until it reaches the white tape. Tighten the clip until head of the screw is less than 4mm from hose.
- Wind the drain hose to the clip using seal pad ⑨ .
- Insulate drain hose in the room.

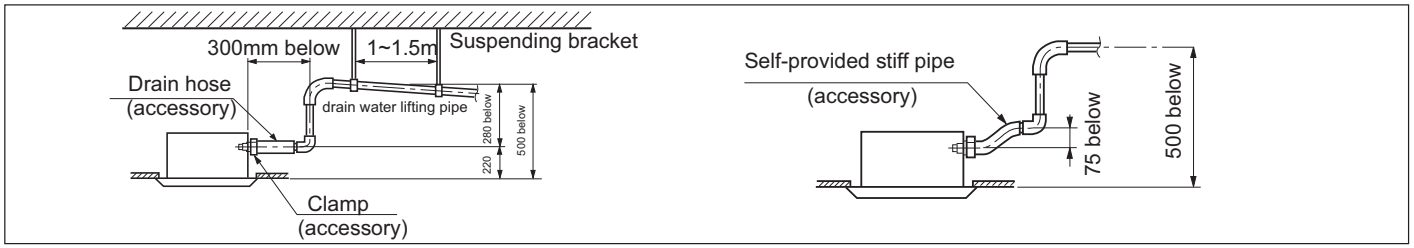


English

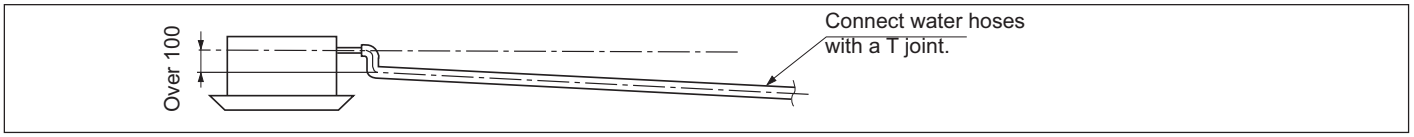
Installation Procedure

<Cautions for the drain water lifting pipe >

Installation height shall be less than 280mm.
There should be a right angle with unit, 300mm from unit.



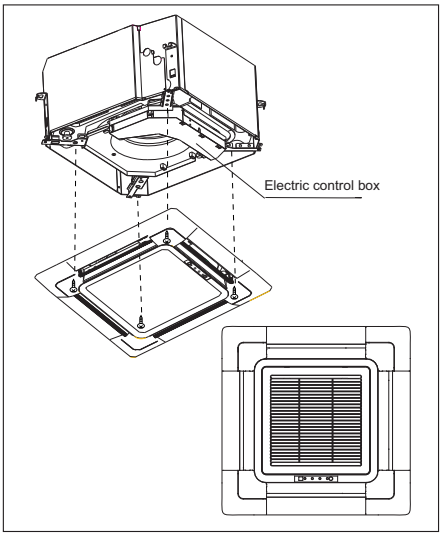
Note:
The slope of water drain hose (1) shall be within 75mm, don't apply too much force on it.
If several water hoses join together, do as per following proceedures.



Specifieations of the water hoses shall meet the requirements for the unit running.

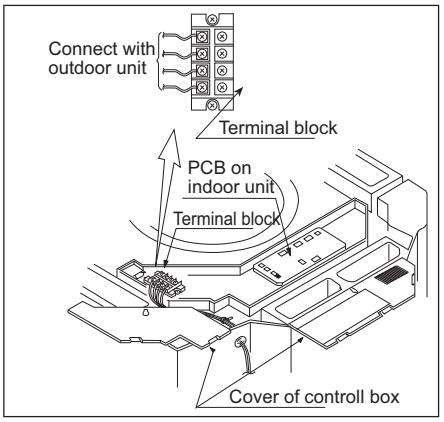
(2) Check if water drainage is smooth after installation.

- Check whether indoor unit is horizontal with leveler or polythene pipe filled with water , and check that the dimension of the ceiling opening is correct. Take off the lever gauge before install the ornament panel.
- Fasten the screws to make the height difference between the two sides of indoor unit less than 5mm.
- First fix it with screws temporally.
- Fasten the two temporally fixing screws and other two, and tighten the four screws.
- Connect the wires of synchro-motor.
- Connect the wire of signal.
- If no response of remote controller, check whether the wiring is correct, restart remote controller 10 seconds after shut off power supply.



<Limits of panel board installation>

- Install the panel board in the direction shown in the figure. The incorrect direction will result in water leakage, meanwhile swing and signal receiving are displayed that cannot be connected.
- Charge, through air outlet or inspecting hole, 1200ccd water to see water drainage.

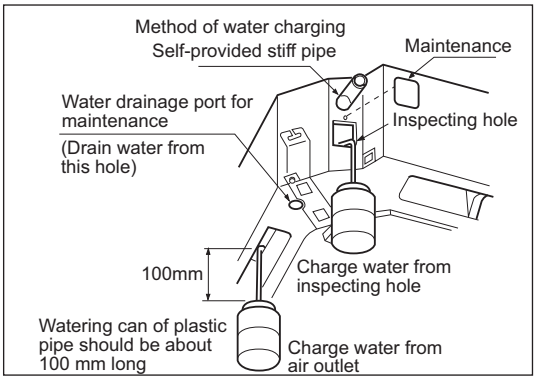


After wiring

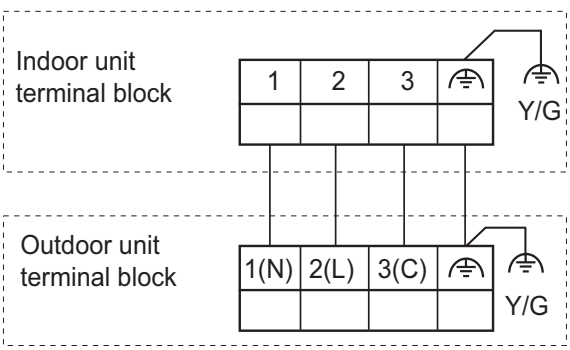
- Check water drainage in cooling operation.

When wiring is not complete

- Remove cover of control box, connect 1PH power to terminal 1 and 2 on terminal block.,use remote controller to operate the unit.
- Note, in this operation, fan will be running.
- Upon confirmation of a smooth water drainage, be sure to cut off power supply.



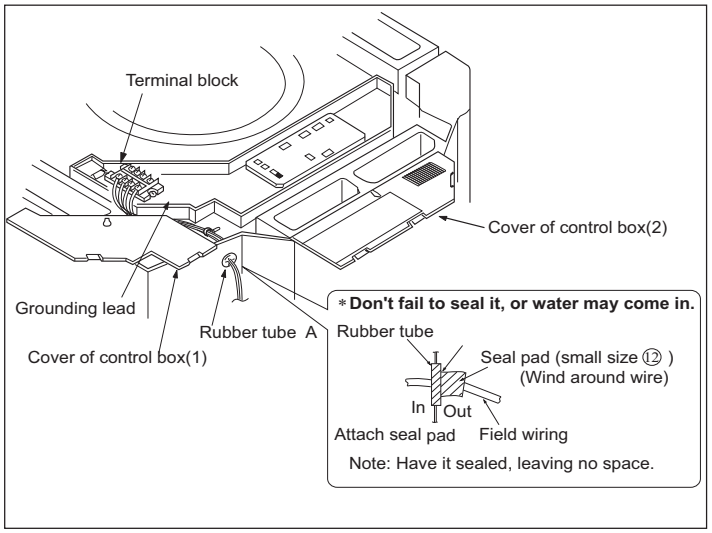
AB25S2PC1FA
AB35S2PC1FA
AB50S2PC1FA
AB71S2PC1FA



Installation Procedure

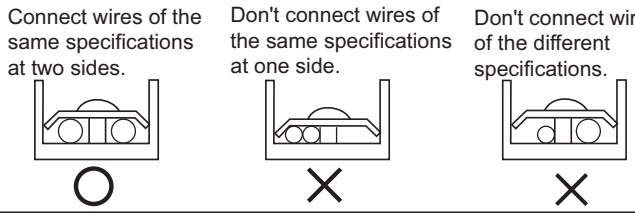
❼ WIRING

- All supplied parts. materials and wiring operation must in appliance with local code and regulations.
- Use copper wire only.
- When make wiring, please refer to wiring diagram also.
- All wiring work must be done by qualified electricians.
- A circuit breaker must be installed, which can cut power supply to all system.
- See Installation Manual of outdoor unit for specifications of wires, circuit breaker, switches and wiring etc.
- Connecting of unit
  Remove cover of switch box (1) , drag wires into rubber tube A, then, after proper wiring with other wires, tighten clamp A. Connect wires of correct pole to the terminal block inside.
  Wind seal ⑫ around wires. (Be sure to do that, or, dew may occur).
- Upon connecting, replace control box cover (1) and (2).



⚠ WARNING:

Obscrve the following when connecting power supply terminal block:
Don't connect wires of different specifications to the same terminal block.
(Loose wire may cause overheating of circuit)
Connect wires of same specifications as shown in right Fig.



❽ WIRING EXAMPLE

As for outdoor unit circuit, please see Installation Manual of outdoor unit.
Note: All electric wires have their own poles, poles must match that on terminal block.

Pay special care to the following and check after installation

Item to the checked	Unproper installation may cause	Check
Is indoor unit firmly installed?	Unit might fall down, make vibration or noise.	
Is gas leakage check performed?	This may lead to gas shortage.	
Is unit properly insulated?	Dew or water drop may occur.	
Is water drainage smooth?	Dew or water drop may occur.	
Is power voltage meet that stipulated on the nameplate?	Problem may occur or parts got burned.	
Is wiring and piping correctly arranged?	Problem may occur or parts got burned.	
Is unit safely grounded?	There might be a danger of electric shock.	
Is wire size correct?	Problem may occur or parts got burned.	
Are there any obstacles on air inlet and outlet grill of indoor and outdoor unit?	This may cause poor cooling.	
Is record made for piping length and refrigerant charging amount?	It is hard to control refrigerant charging amount.	

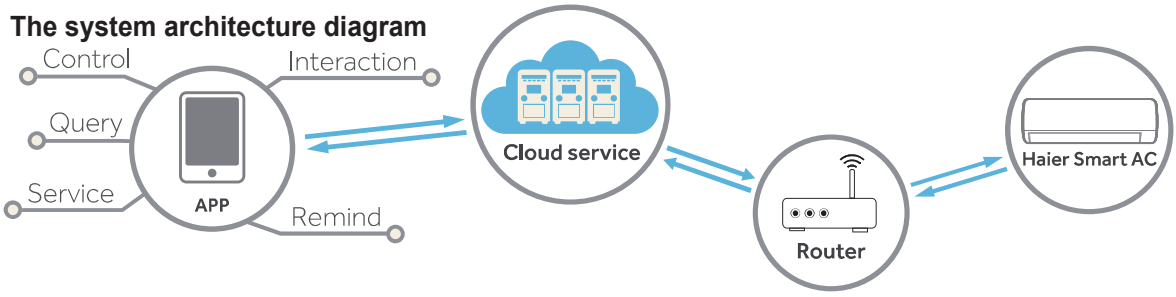
Attention: after finishing installation,confirm no refrigerant leakage.

English

Operation

Wi-Fi

- **The system architecture diagram**



- **The application environment**

Smart mobile phone and wireless router are necessary for the appliacation.
Wireless router must be able to connect to the Internet.
Smart mobile phone requires IOS or Android system:

IOS system
must support IOS 9.0 or above

Android system
must support Android 5.0 or above

SmartHQ - IOS

SmartHQ - Android

- **Configuration method**

Scan the QR code below to download Smart HQ APP.
Other Download options: Please search Smart HQ APP on:

- App Store (IOS)
- Google Play (Android)
- Huawei AppGallery (Android)

After App Download, please register, connect the air conditioner and enjoy using Smart HQ to manage your device. Please refer to the HELP section inside the APP for more details about how to register, connect the unit, and other operations.

Haier

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Website: www.haier.com