Hisense use and installation instructions

Thank you very much for purchasing this Air Conditioner. Please read this use and installation instructions carefully before installing and using this appliance and keep this manual for future reference.

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Safety instructions

- 1. To guarantee the unit work normally, please read the manual carefully before installation, and try to install strictly according to this manual.
- 2. Do not let air enter the refrigeration system or discharge refrigerant when moving the air conditioner.
- 3. Properly ground the air conditioner into the earth.
- 4. Check the connecting cables and pipes carefully, make sure they are correct and firm before connecting the power of the air conditioner.
- 5. There must be an air-break switch.
- 6. After installing, the consumer must operate the air conditioner correctly according to this manual, keep a suitable storage for maintenance and moving of the air conditioner in the future.
- 7. Fuse of indoor unit: T 3.15A 250VAC or T 5A 250VAC. Please refer to the screen printing on the circuit board for the actual parameters, which must be consistent with the parameters on the screen printing.
- 8. For 2.5,3.5Kw models, fuse of outdoor unit: T 15A 250VAC or T 20A 250VAC. Please refer to the screen printing on the circuit board for the actual parameters, which must be consistent with the parameters on the screen printing.
- 9. For 5.0Kw models, fuse of outdoor unit: T 20A 250VAC.
- 10. For 7.0Kw models, fuse of outdoor unit: T 30A 250VAC.
- 11. The installation instructions for appliances that are intended to be permanently connected to fixed wiring, and have a leakage current that may exceed 10 mA, shall state that the installation of a residual current device (RCD) having a rated residual operating current not exceeding 30 mA is advisable.
- 12. Warning: Risk of electric shock can cause injury or death: Disconnect all remote electric power supplies before servicing.
- 13. The maximum length of the connecting pipe between the indoor unit and outdoor unit should be less than 5 meters. It will affect the efficiency of the air conditioner if the distance longer than that length.
- 14. This appliance is not intended for use by person (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. Cleaning and user maintenance shall not be made by children without supervision.
- 15. 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.

Safety instructions

- 16. The batteries in remote controller must be recycled or disposed of properly. Disposal of Scrap Batteries --- Please discard the batteries as sorted municipal waste at the accessible collection point.
- 17. If the appliance is fixed wiring, the appliance must be fitted with means for disconnection from the supply mains having a contact separation in all poles that provide full disconnection under over voltage category III conditions, and these means must be incorporated in the fixed wiring in accordance with the wiring rules.
- 18. 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.
- 19. The appliance shall be installed in accordance with national wiring regulations.
- 20. Servicing shall only be performed as recommended by the equipment manufacturer. Maintenance and repair requiring the assistance of other skilled personnel shall be carried out under the supervision of the person competent in the use of flammable refrigerants.
- 21. The appliance shall not be installed in the laundry.
- 22. Regarding to installation, please refer to section "Installation instructions".
- 23. Regarding to maintenance, please refer to section "Maintenance".
- 24. For models using R32 refrigerant, piping connection should be conducted on outdoor side.

Note

- When charging refrigerant into the system, make sure to charge in liquid state, if the refrigerant of the appliance is R32.Otherwise, chemical composition of refrigerant (R32) inside the system may change and thus affect performance of the air conditioner.
- According to the character of refrigerant (R32,the value of GWP is 675), the pressure of the tube is very high, so be sure to be careful when you install and repair the appliance.
- 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.
- Installation of this product must be done by experienced service technicians professional installers only in accordance with this manual.
- The temperature of refrigerant circuit will be high, please keep the interconnection cable away from the copper tube.

Preset

Before using the air conditioner, be sure to check and preset the following.

Remote Control presetting

Each time after the remote control is replaced with new batteries or is energized, remote control auto presetting heat pump. If the air conditioner you purchased is a Cooling Only one, heat pump remote controller can also be used.

• Back-light function of Remote Control(optional)

Hold down any button on remote control to activate the back light. It automatically shuts off 10 seconds later.

Note: Back-light is an optional function.

• Auto Restart Presetting The air conditioner has an Auto-Restart function.

Safeguarding the environment

This appliance is made of recyclable or re-usable material. Scrapping must be carried out in compliance with local waste disposal regulations. Before scrapping it, make sure to cut off the mains cord so that the appliance cannot be re-used.

For more detailed information on handling and recycling this product, contact your local authorities who deal with the separate collection of rubbish or the shop where you bought the appliance.

SCRAPPING OF APPLIANCE

This appliance is marked according to the European Directive 2012/19/EC, Waste Electrical and Electronic Equipment (WEEE).

This marking indicates that this product should not be disposed with other household wastes throughout the EU. To prevent possible harm to the environment or human health from uncontrolled waste disposal,recycle it responsibly to promote the sustainable reuse of material resources. To return your used device, please use the return and collection systems or contact the retailer where the product was purchased. They can take this product for environmental safe recycling.





Safety precautions

Symbols in this Use and Care Manual are interpreted as shown below.

Be sure not to do.



Pay attention to such a situation.



Warning: Incorrect handling could cause a serious hazard, such as death, serious injury, etc.

Grounding is essential.

Use correct power supply in accordance with the rating plate requirement. Otherwise, serious faults or hazard may occur or a fire maybe break out.



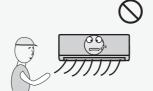


Keep the power supply circuit breaker or plug from dirt. Connect the power supply cord to it firmly and correctly, lest an electric shock or a fire break out due to insufficient contact.

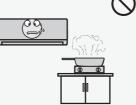


Do not use the power supply circuit breaker or pull off the plug to turn it off during operation. This may cause a fire due to spark, etc.

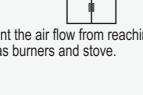
It is the user's responsibility to make the appliance be grounded. Turn off the appliance by remote according to local codes or ordinances by a licenced technician.



It is harmful to your health if the cool air reaches you for a long time. It is advisable to let the air flow be deflected to all the room.



Prevent the air flow from reaching the gas burners and stove.



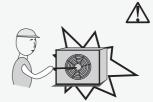


Do not touch the operation buttons when your hands are wet.



control firstly before cutting off power supply if malfunction occurs.

_ 4 _



Never insert a stick or similar obstacle to the unit. Since the fan rotates at high speed, this may cause an injury.



Do not repair the appliance by yourself. If this is done incorrectly, it may cause an electric shock, etc.



Do not put any objects on the outdoor unit.



Do not knit, pull or press the power supply cord, lest the power supply cord be broken. An electric shock or fire is probably caused by a broken power supply cord.

Safety precautions

Precautions for using R32 refrigerant

For the multi system, the refrigerant refer to the multi outdoor unit. The basic installation work procedures

are the same as the conventional refrigerant (R22 or R410A). However, pay attention to the following points:

- 1. **Transport of equipment containing flammable refrigerants** Compliance with the transport regulations
- 2. Marking of equipment using signs Compliance with local regulations
- 3. **Disposal of equipment using flammable refrigerants** Compliance with national regulations
- 4. **Storage of equipment/appliances** The storage of equipment should be in accordance with the manufacturer's instructions.

5. Storage of packed (unsold) equipment

- Storage package protection should be constructed such that mechanical damage to the equipment inside the package will not cause a leak of the refrigerant charge.
- The maximum number of pieces of equipment permitted to be stored together will be determined by local regulations.

6. Information on servicing

6-1 Checks to the area

Prior to beginning work on systems containing flammable refrigerants, safety checks are necessary to ensure that the risk of ignition is minimised. For repair to the refrigerating system, the following precautions shall be complied with prior to conducting work on the system.

6-2 Work procedure

Work shall be undertaken under a controlled procedure so as to minimise the risk of flammable gas or vapour being present while the work is being performed.

6-3 General work area

- All maintenance staff and others working in the local area shall be instructed on the nature of work being carried out. 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.

6-4 Checking for presence of refrigerant

- The area shall be checked with an appropriate refrigerant detector prior to and during work, to ensure the technician is aware of potentially flammable atmospheres.
- Ensure that the leak detection equipment being used is suitable for use with flammable refrigerants, i.e. non-sparking, adequately sealed or intrinsically safe.

6-5 Presence of fire extinguisher

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

6-6 No ignition sources

- No person carrying out work in relation to a refrigeration system which involves exposing any pipe work that contains or has contained flammable refrigerant shall use any sources of ignition in such a manner that it may lead to the risk of fire or explosion.
- All possible ignition sources, including cigarette smoking, should be kept sufficiently far away from the site of installation, repairing, removing and disposal, during which flammable refrigerant can possibly be released to the surrounding space.
- 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.

6-7 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.

6-8 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 using flammable refrigerants:
 - 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

Safety precautions

which are inherently resistant to being corroded or are suitably protected against being so corroded.

6-9 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 there no live electrical components and wiring are exposed while charging, recovering or purging the system;
 - That there is continuity of earth bonding.

7. Repairs to sealed components

- During repairs to sealed components, all electrical supplies shall be disconnected from the equipment being worked upon 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.
- Particular attention shall be paid to the following to ensure that by working on electrical components, the casing is not altered in such a way that the level of protection is affected.
- This shall include damage to cables, excessive number of connections, terminals not made to original specification, damage to seals, incorrect fitting of glands, etc.
- Ensure that apparatus is mounted securely.
- Ensure that seals or sealing materials have not degraded such 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.

NOTE:

The use of silicon sealant may inhibit the effectiveness of some types of leak detection equipment. Intrinsically safe components do not have to be isolated prior to working on them.

- 8. 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. The test apparatus shall be at the correct rating.

- Replace components only with parts specified by the manufacturer.
- Other parts may result in the ignition of refrigerant in the atmosphere from a leak.
- 9. 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.

10. Detection of flammable refrigerants

- Under no circumstances shall potential sources of ignition be used in the searching for or detection of refrigerant leaks.
- A halide torch (or any other detector using a naked flame) shall not be used.

11.Leak detection methods

- The following leak detection methods are deemed acceptable for systems containing flammable refrigerants:
 - Electronic leak detectors shall be used to detect flammable refrigerants, but the sensitivity may not be adequate, or may need re-calibration. (Detection equipment shall be calibrated in a refrigerant-free area.)
 - Ensure that the detector is not a potential source of ignition and is suitable for the refrigerant used.
 - Leak detection equipment shall be set at a percentage of the LFL of the refrigerant and shall be calibrated to the refrigerant employed and the appropriate percentage of gas (25 % maximum) is confirmed.
 - Leak detection fluids are suitable for use with most refrigerants but the use of detergents containing chlorine shall be avoided as the chlorine may react with the refrigerant and corrode the copper pipe-work.
 - If a leak is suspected, all naked flames shall be removed/ extinguished.
 - If a leakage of refrigerant is found which requires brazing, all of the refrigerant shall be recovered from the system, or isolated (by means of shut off valves) in a part of the system remote from the leak.
 - Oxygen free nitrogen (OFN) shall then be purged through the system both before and during the brazing process.

12. Removal and evacuation

- When breaking into the refrigerant circuit to make repairs or for any other purpose conventional procedures shall be used.
- However, it is important that best practice is followed since flammability is a consideration.
- The following procedure shall be adhered to:
 - Remove refrigerant;
 - Purge the circuit with inert gas;

Safety precautions

- Evacuate;
- Purge again with inert gas;
- Open the circuit by cutting or brazing.
- The refrigerant charge shall be recovered into the correct recovery cylinders.
- 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 this task.
- 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.
- This operation is absolutely vital if brazing operations on the pipe-work are to take place.
- Ensure that the outlet for the vacuum pump is not close to any ignition sources and there is ventilation available.

13. Charging procedures

- In addition to conventional charging procedures, the following requirements shall be followed:
 - 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 OFN.
- 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.

14. Decommissioning

- Before carrying out this procedure, it is essential that the technician is completely familiar with the equipment and all its detail.
- It is recommended good practice that all refrigerants are recovered safely.
- 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. It is essential that electrical power is available before the task is commenced.
 - a) Become familiar with the equipment and its operation.
 - b) Isolate system electrically.

- c) 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.
 d) Pump down refrigerant system, if possible.
- e) If a vacuum is not possible, make a manifold so that refrigerant can be removed from various parts of the system.
- f) Make sure that cylinder is situated on the scales before recovery takes place.
- g) Start the recovery machine and operate in accordance with manufacturer's instructions.
- h) Do not overfill cylinders. (No more than 80 % volume liquid charge).
- I) Do not exceed the maximum working pressure of the cylinder, even temporarily.
- j) 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.
- k) Recovered refrigerant shall not be charged into another refrigeration system unless it has been cleaned and checked.

15.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.

16.**Recovery**

- When removing refrigerant from a system, either for servicing or decommissioning, it is recommended good practice that all refrigerants are removed safely.
- 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 is 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 shutoff 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

Safety precautions

instructions concerning the equipment that is at hand and shall be suitable for the recovery of flammable refrigerants.

- In addition, 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.
- Consult manufacturer if in doubt.
- 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.
- When oil is drained from a system, it shall be carried out safely.

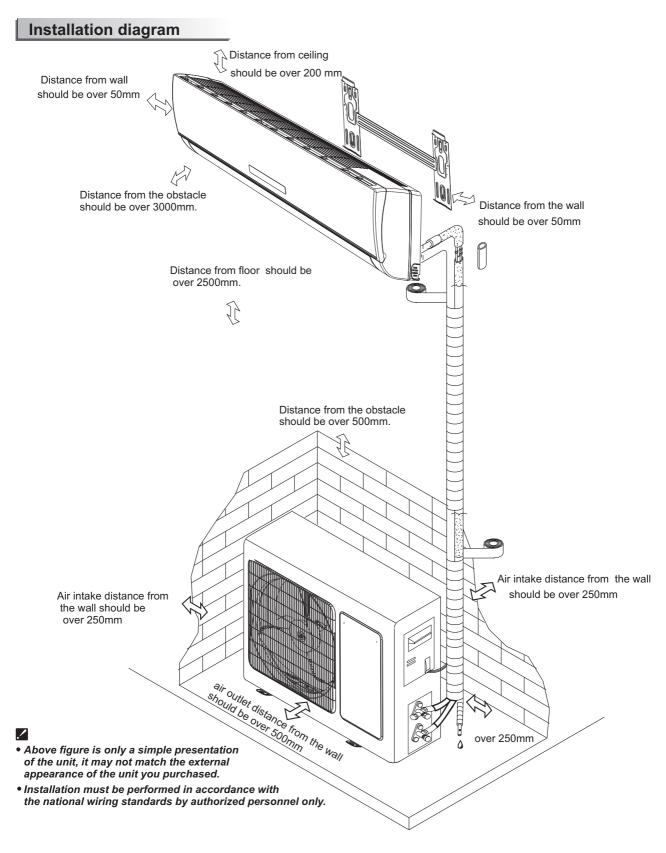
- When moving or relocating the air conditioner, consult experienced service technicians for disconnection and reinstallation of the unit.
- Do not place any other electrical products or household belongings under indoor unit or outdoor unit. Condensation dripping from the unit might get them wet, and may cause damage or malfunction of your property.
- Do not use means to accelerate the defrosting process or to clean, other than those recommended by the manufacturer.
- The appliance shall 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 odor.
- To keep ventilation openings clear of obstruction.
- The appliance shall be stored in a well-ventilated area where the room size corresponds to the room area as specified for operation.
- The appliance shall be stored in a room without continuously operating open flames (for example an operating gas appliance) and ignition sources (for example an operating electric heater).

Safety precautions

- Any person who is involved with working on or breaking into a refrigerant circuit should hold a current valid certificate from an industry-accredited assessment authority, which authorises their competence to handle refrigerants safely in accordance with an industry recognised assessment specification.
- Servicing shall only be performed as recommended by the equipment manufacturer.
- Maintenance and repair requiring the assistance of other skilled personnel shall be carried out under the supervision of the person competent in the use of flammable refrigerants.
- Do not use means to accelerate the defrosting process or to clean, other than those recommended by the manufacturer.
- Appliance shall be installed, operated and stored in a room with a floor arealarger than 10 m².
- The installation of pipe-work shall be kept to a a room with a floor area larger than 10 m².
- The pipe-work shall be complianced with national gas regulations.
- The maximum refrigerant charge amount is 2.5 kg. The specific refrigerant charge is based on the nameplate of the outdoor unit.
- Mechanical connectors used indoors shall comply with ISO 14903. When mechanical connectors are reused indoors, sealing parts shall be renewed. When flared joints are reused indoors, the flare part shall be re-fabricated.
- The installation of pipe-work shall be kept to a minimum.
- Mechanical connections shall be accessible for maintenance purposes.

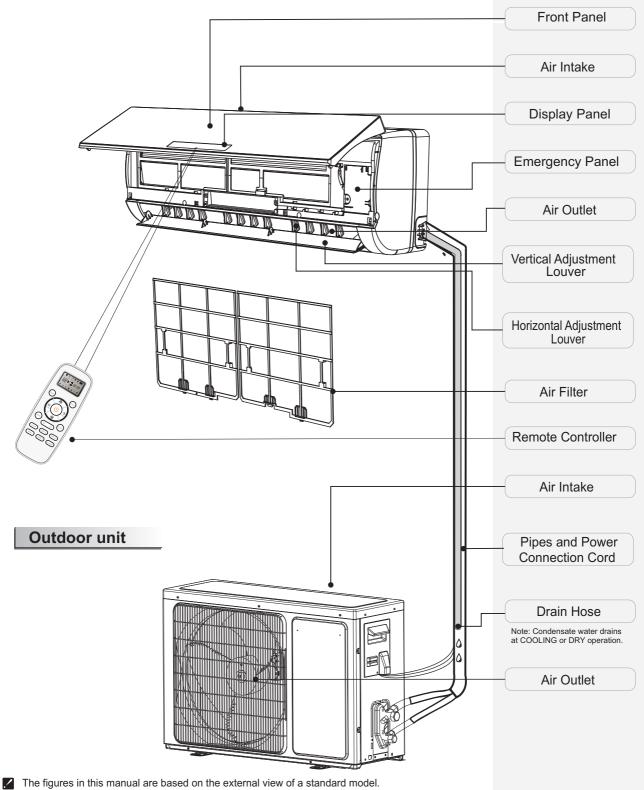
Explanation of symbols displayed on the indoor unit or outdoor unit.

Caution, risk of fire		This symbol shows that this appliance uses a flammable refrigerant. If the refrigerant is leaked and exposed to an external ignition source, there is a risk of fire
CAUTION CAUTION CAUTION		This symbol shows that the operation manual should be read carefully.
		This symbol shows that a service personnel should be handling this equipment with reference to the installation manual.
		This symbol shows that information is available such as the operating manual or installation manual.



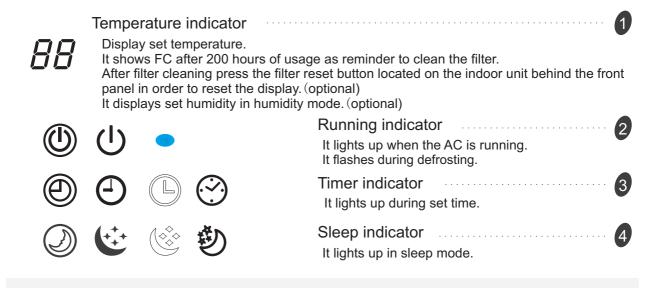
Identification of parts

Indoor unit

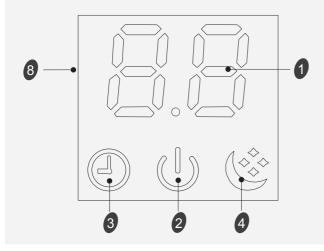


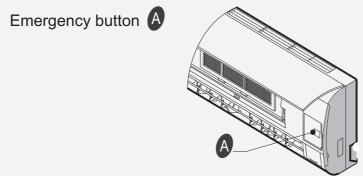
Consequently, the shape may differ from that of the air conditioner you have selected.

Display introduction



DJ series



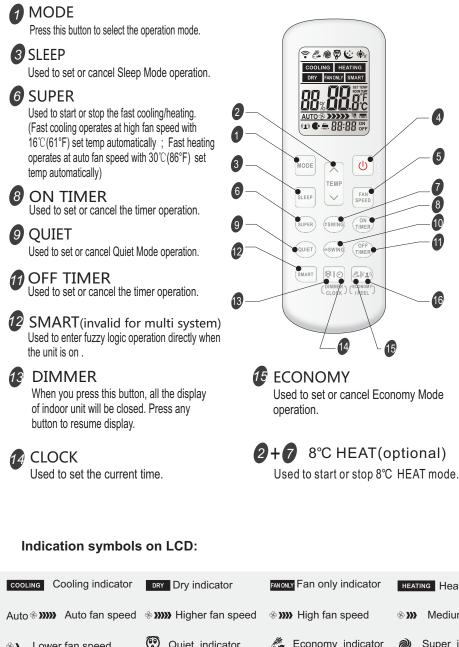


ON/OFF To let the AC run or stop by pressing the button.

Remote controller

Remote controller

The remote controller transmits signals to the system.



2 TEMP 💭

Used to adjust the room temperature and the timer, also real time.

4 POWER

The appliance will be started when it is energized or will be stopped when it is in operation, if you press this button.

5 FAN SPEED

Used to select fan speed in sequence auto, higher, high, medium, low and lower.

7 🗘 SWING

Used to stop or start vertical adjustment louver swinging and set the desired up/ downairflow direction.

10 🕂 SWING

Used to stop or start Horizontal adjustment louver swinging and set the desired left/right airflow direction.

16 IFEEL

Press to set IFEEL Mode operation. In IFEEL mode, the Air Conditioner operates basis temperature sensor fitted in remote instead of machine, Advice to use IFEEL mode and the remote put where the indoor unit receive signal easily.Press this button above 5 seconds, start or stop IFEEL mode.



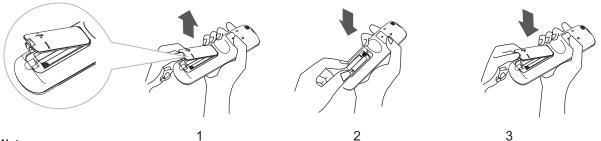
Note: Each mode and relevant function will be further specified in following pages.

Remote controller

Remote controller

♦ How to Insert the Batteries

- 1. Pry open the battery cover according to the arrow direction.
- 2. Insert new batteries making sure that the (+) and (-) of battery are matched correctly.
- 3. Reattach the cover by pressing it back into position.



Note:

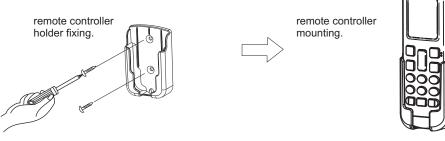
• Use 2 LR03 AAA(1.5volt) batteries. Do not use rechargeable batteries. Replace batteries with new ones of the same type when the display becomes dim.

Storage and Tips for Using the Remote Controller

The remote controller may be stored mounted on a wall with a holder.

Note: The remote controller holder is an optional part.

Note: The shape may differ from that of the remote controller holder you have selected.

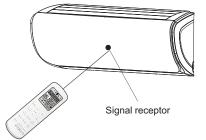


How to Use

To operate the room air conditioner, aim the remote controller to the signal receptor. The remote controller will operate the air conditioner at a distance of up to 7m when pointing at signal receptor of indoor unit.

CAUTIONS For appropriate signal transmission between remote controller and indoor unit, keep the signal receiver away from the following items: • Direct sunlight or other strong lights or heat • Flat panel television screen or other electrical appliances that react to the remote controller Additionally, the air conditioner will not operate if curtains, doors or other materials block the signals from the remote controller to the

other materials block the signals from the remote controller to the indoor unit. If the signal may not be transmitted properly, either move these materials or consult your local dealer.



Operation modes

Selecting mode

MODE Press button once by once **Result:** The operation modes changed in sequence: 2 💬 🖸 NG HEAT COOLING DRY FAN ONLY HEATING COOLING -DRY --> FAN ONLY --> HEATING PRESS Heating mode is NOT available for cooling only air conditioner. FAN mode FAN SPEED button once by once Press **Result:** The fan speed is changed in sequence: a 😳 😳 Auto 🗞 >>>>>> & >>>>> & >>>> \$ **>>>** ✨≫ ✨♪ LING HEATIN ► High – Auto Higher Medium -Low Lower ► • DRY FAN ONLY SI PRESS AUTO 83 At "FAN ONLY" mode, only "Auto" is not available. At "DRY" mode, Fan speed is set at "AUTO" automatically, "FAN SPEED" button is ineffective in this case. Some models, such as commercial air conditioner products, only have the third gear speed. 2 🧐 😉 Auto 🗞 >>>>> & **>>>>>** \$ **}}}** \$ **>>>** \$ **>>** ✨♪ LING HEATING Auto High High – ► Medium Low Low AN ONLY SMART N3:Y Setting temperature

Press TEMP button once	Range of avai	lable set temperature
Result : Raise temperature setting by 1° or 1° F	*HEATING, COOLING	16℃~30℃ (61°F~86°F)
	DRY	±7 deg C
Press TEMP button once	FAN ONLY	unable to set
Result : Lower temperature setting by 1°C or 1°F	*Note: Press and hold " together for 2 seconds w between the °C and °F sc	ill alternate the temperature display

*Note: Heating mode is NOT available for cooling only models. *Note: At "Dry" mode, a decrease or rise of up to 7 $^{\circ}\mathrm{C}$ can be set with Remote controller if you still feel uncomfortable.

Turning on

Press 🕛 button.

Result : The RUN indicator of the indoor unit lights up.

SWING , SMART , SUPER , QUIET, TIMER , ECONOMY , IFEEL , DIMMER , CLOCK , SLEEP and $8^{\circ}C$ HEAT operation modes will be specified in the following pages.

- Changing modes during operation, sometimes the unit does not response at once. Wait 3 minutes.
 - During heating operation, air flow is not discharged at the beginning. After 2-5 minutes, the air flow will be discharged until temperature of indoor heat exchanger rises.
 - Wait 3 minutes before restarting the appliance.

Airflow direction control

Vertical airflow(Horizontal airflow) is automatically adjusted to a certain angle in accordance with the operation mode after turning on the unit.

Operation mode	Direction of airflow
COOLING, DRY	horizontal
*HEATING, FAN ONLY	downward



The direction of airflow can be also adjusted to your own requirement by pressing the "swing oswing" buttons of the remote controller.

*Heating mode is only available for heat pump models.

Vertical airflow control (with the remote controller)

Using remote controller to set various angles of flow or specific angle as you like.

Press " eswing " button once.

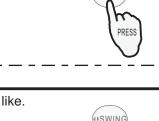
Result : The vertical adjustment louver will swing up and down automatically.



\$SWING

Press " eswing " button again .

Result : The louvers swing to a suitable angle as desired.



Horizontal airflow control (with the remote controller)
 Using remote controller to set various angles of flow or specific angle as you like.

Press " oswing " button once.

Result : The horizontal adjustment louver will swing left and right automatically.

Press " oswing " button again .

Result :

The louvers swing to a suitable angle as desired.

NOTE:If the unit doesn't have four ways airflow function, you can adjust horizontal airflow by yourself.(invalid for some models)

Do not turn the vertical adjustment louvers manually, otherwise malfunction may occur. If that happens, turn off the unit first and cut off the power supply, then restore power supply again.

B It is better not to let the vertical adjustment louver tilt downward for a long time at COOLING or DRY mode to prevent condensed water from dripping.

SMART mode(invalid for multi system)

How to set SMART mode?

Press the MART button.

Result :

Enters **SMART** mode(fuzzy logic operation) directly only when the unit is on . Temperature and fan speed are automatically set based on theactual room temperature.



SWING

PRES

For the split-type models, such as wall-mounted air conditioners and some floor-standing air conditioners, their operation mode and set temperature should be determined based on the indoor temperature.

leat pump models						
Indoor temperature	Operation mode	Target temperature				
21℃(70°F) or below	HEATING	22℃(72°F)				
21℃-23℃(70°F-73°F)	FAN ONLY					
23℃-26℃(73°F-79°F)	DRY	Room temperature decrease 2℃(2°F) after operate for 3 minutes				
Over 26°C(79°F)	COOLING	26℃(79°F)				
cooling only models						
Indoor temperature	Operation mode	Target temperature				
23℃(73°F) or below	FAN ONLY					
23℃-26℃(73°F-79°F)	DRY	Room temperature decrease 2°C(2°F) after operate for 3 minutes				

For commercial air conditioner products, such as cassette type air conditioners, duct type air conditioners, ceiling & floor air conditioners and some floor-standing air conditioners, their operation mode should be determined based on the difference between the indoor temperature and set temperature.

The operation mode is determined by the difference between the indoor temperature and set temperature.							
Н	Heat pump models						
	Indoor temperature	Operation mode	Target temperature				
	Below T-3°C (3°F)	HEATING	Т				
T-3℃≤T _{indoor} ≤T+3℃ (3°F) Over T+3℃ (3°F)		FAN ONLY	Т				
		COOLING	Т				
C	Cooling only models						
	Indoor temperature	Operation mode	Target temperature				
	T+3℃ (3°F) or below	FAN ONLY	Т				
	Over T+3°C (3°F)	COOLING	Т				

SMART button is ineffective in SUPER mode.

ECONOMY button is ineffective in SMART mode.

Press MODE button cancel SMART mode.

Note: Temperature, airflow and direction are controlled automatically in SMART mode. However, For the on/off, you can choose from -2 to 2 (for some models you can choose from -7 to 7), for the inverter you can choose from -7 to 7. if you still feel uncomfortable.

• What you can do in SMART mode?

Your feeling	Button	Adjust
Uncomfortable because of unsuitable air flow volume.	FAN SPEED	Indoor fan speed alternates among Auto, Higher, High, Medium, Low and Lower each time this button is pressed.
Uncomfortable because of unsuitable flow direction.	SWING OSWING	Press it once, the vertical adjustment louver(horizontal adjustment louver) swings to change vertical airflow direction(horizontal airflow direction). Press it again, swings stops.

How to cancel the SMART mode?

Press the MODE button.

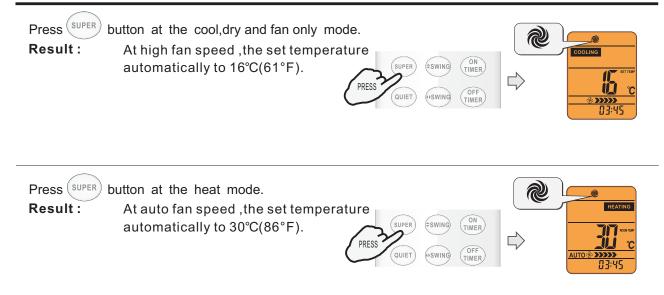
Result : The SMART mode will be cancelled.



SUPER mode

SUPER mode is used to start or stop fast cooling or heating only when the unit is on. **SUPER** mode can be set when the appliance is in operation or energized. In SUPER mode, you can set temperature, airflow direction or timer

• How to set SUPER mode?



• How to cancel SUPER mode?

Press SUPER , MODE, FAN SPEED, ON/OFF, QUIET or SLEEP button.

Result : The display return to the original mode. Escape from SUPER mode.



Note:

SMART button is not available in SUPER mode. ECONOMY button is not available in SUPER mode. The Appliance will continue working in SUPER mode for 15 minutes , if you don't escape from it by pressing any of the buttons mentioned above.

QUIET mode

In this mode, the air conditioner will work with low noise performance by low compressor frequency and low fan speed. This mode is only available for inverter models.

Note: Press MODE, FAN SPEED, SMART, SUPER, ECONOMY or ON/OFF button cancel QUIET mode.



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Timer mode

It is convenient to set the timer on with **ON TIMER** buttons when you go out in the morning to achieve a comfortable room temperature at the time you get home. You can also set timer off at night to enjoy a good sleep.

How to set ON TIMER ? 1. Press ON button. **a** DLING **Result:** "12:00 ON" flashes on the LCD. 2. Press the \wedge or 🗸 button. Result : Once to increase or decrease the time setting by 1 minute. EME One and a half seconds to increase or decrease the time setting by 10 minute. For a longer time to increase or decrease the time by 1 hour. 3. When your desired time displayed on LCD, press the ON TIMER button and confirm it. **Result**: A "beep" can be heard. SUPER "ON" stops flashing. The TIMER indicator on the indoor unit lights up.(invalid QUIET SWIN for multi system)

4. After the set timer displayed for 5 seconds the clock will be displayed on the LCD of the remote controller instead of set timer.

•	How to cance	ON TIMER ?	
	Press the TIME	SUPER) (SWING) (ON THERE)	
	Result :	A "beep" can be heard and the indicator disappears, the time on mode has been canceled.	QUIET (SWING OFF TIMER PRESS
		to set OFF TIMER , you can make the appliance utomatically at your desired time.	
	ECONOMY	mode	

In this mode, the air conditioner will bring you energy saving performance by lower running currency.

 ∠ ECONOMY button is ineffective in SUPER and SMART mode.
 ∠ Press ON/OFF , MODE , TEMP ∧, TEMP ∨, FAN SPEED , SLEEP , QUIET or ECONOMY button cancel ECONOMY mode.



IFEEL mode

The temperature sensor built in remote controller is activated. It can sense its surrounding temperature, and transmit the signal back the unit, the unit can adjust the temperature so as to provide maximum comfort.

How to set IFEEL mode ?

Press the	button for about 5 seconds once.
Result :	ansmit signal in the display will appear, EEL function will be started.

Note:

The default setting is IFEEL inactiving.

How to cancel IFEEL mode?

Press the button for about 5 seconds once again. Result : IFEEL function will be shunted off.



OFF

21(1)

OFF

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QUIET

SMART

SWIN

8 O

DIMMER button

How to set the DIMMER ?

Press the DIMMER button to turn off the light and the display in the unit.

Note:

When the light is off, receive signal will turn on the light again.

CLOCK button

• How to adjust the real time?

1. PressImage: Object to the second seco

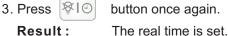


PRESS

2. Press \land and \checkmark buttons.

Result :Once to increase or decrease the time setting by 1 minute.One and a half seconds to increase or decrease the time setting
by 10 minute.
For a longer time to increase or decrease the time by 1 hour.







1—

SMART

&IC

DIMME

SLEEP mode

 $\ensuremath{\mathsf{SLEEP}}$ mode can be set in COOLING ,HEATING or DRYING mode.

This function gives you a more comfortable environment for sleep.

- The appliance will stop operation automatically after operating for 8 hours.
- Fan speed is automatically set at low speed.

How to set SLEEP mode ?

Each timeSLEEPbutton is pressed.Result :SLEEP function will be started.



SLEEP mode :

- Set temperature will rise by 2°C(2°F) at most if the appliance operates in cooling mode for 2 hours constantly, then keeps steady.
- Set temperature will decrease by 2°C(2°F) at most if the appliance operates in heating mode for 2 hours constantly, then keeps steady.

Note: In cooling mode, if room temperature is 26°C(79°F) or above, set temperature will not change. Note: Heating is NOT available for cooling only air conditioner.

• How to cancel SLEEP mode ?

Press any button, except SLEEP button.

Result : The display return to the original mode. Escape from SLEEP mode.



8°C HEAT mode(optional)

• How to set 8°C HEAT?

In HEATING mode, Press and heat buttons together for 2 seconds to start 8°C HEAT mode.

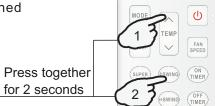
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In 8°C HEAT mode, the fan speed is set at "AUTO" automatically. The icon \mathfrak{K}_8° will appear on the LCD.

If pressing any button, other than ON TIMER, OFF TIMER, CLOCK, DIMMER, IFEEL and SWING, 8°C HEAT function will be turned off. And the icon 366 will disappear.

Note :

In 8°C HEAT mode, the default temperature is set 8°C. 8°C HEAT mode can be set only when the air conditioner works in HEATING mode.



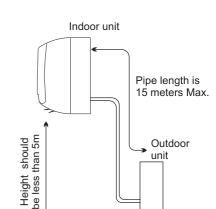
Select the installation locations

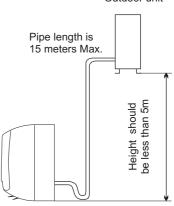
Location for Installing Indoor Unit

- Where there is no obstacle near the air outlet and air can be easily blown to every corner.
- Where piping and wall hole can be easily arranged.
- Keep the required space from the unit to the ceiling and wall according to the installation diagram on previous page.
- Where the air filter can be easily removed.
- Keep the unit and remote controller 1m or more apart from television, radio etc.
- keep as far as possible from fluorescent lamps.
- Do not put anything near the air inlet to obstruct it from air absorption.
- Install on a wall that is strong enough to bear the weight of the unit.
- Install in a place that will not increase operation noise and vibration.
- Keep away from direct sunlight and heating sources. Do not place flammable materials or combustion apparatuses on top of the unit.

Location for Installing Outdoor Unit

- Where it is convenient to install and well ventilated.
- Avoid installing it where flammable gas could leak.
- · Keep the required distance apart from the wall.
- The pipe length between indoor and outdoor unit should be not more than 5 meters in factory default status, but it can go up to maximum 15 meters with additional refrigerant charge.
- Keep the outdoor unit away from greasy dirt, vulcanization gas exit.
- Avoid installing it by the roadside where there is a risk of muddy water.
- A fixed base where it is not subject to increased operation noise.
- Where there is not any blockage of the air outlet.
- Avoid installing under direct sunlight, in an aisle or sideway, or near heat sources and ventilation fans. Keep away from flammable materials, thick oil fog, and wet or uneven places.





Indoor unit

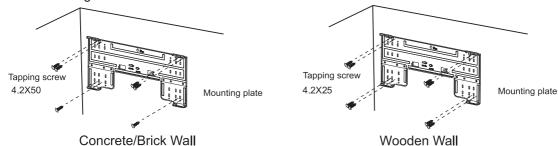
Model	Max. allowed pipe length without additional refrigerant (m)	Limit of pipe length (m)	Limit of Elevation Difference H (m)	Required amount of additional refrigerant (g/m)
2.5Kw 3.5Kw 5.0Kw	5	15	5	20
7.1Kw	5	15	5	30

If the height or pipe length is out of the scope of the table, please consult the dealer.

Outdoor unit

Indoor unit installation

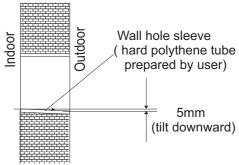
- Decide an installing location for the mounting plate according to the indoor unit location and piping direction.
- Note: it is recommended to install screw anchors for sheet rock, concrete block, brick and such type of wall.
- Keep the mounting plate horizontal with a horizontal level or dropping line.
- Mark the center of the indoor unit on mounting plate for future reference.
- Note: the center of the mounting bracket may be not the center of the indoor unit.
- Tapping mounting plate to the wall with a minimum of five screws, evenly spaced to properly support indoor unit weight.



Note: The shape of your mounting plate may be different from the one above, but the installation method is similar. Note: As the above figure shown, the six holes matched with tapping screw on the mounting plate must be used to fix the mounting plate, the others are prepared.

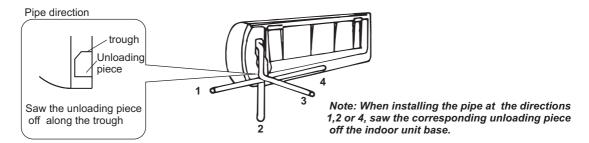
2. Drill a Hole for Pipe

- Decide the position of hole for pipe according to the location of mounting plate.
- Drill a hole on the wall about 50mm. The hole should tilt a littledownward toward outside.
- Install a sleeve through the wall hole to keep the wall tidy and clean.



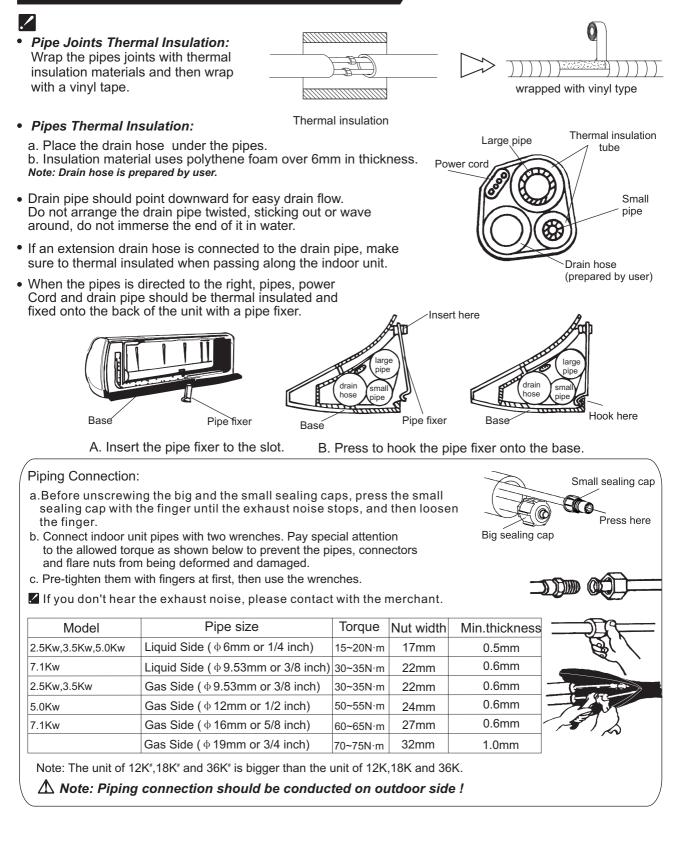
3. Indoor Unit Pipe Installation

- Put the pipes (liquid and gas pipe) and cables through the wall hole from outside or put them through from inside after indoor pipe and cables connection complete so as to connect to outdoor unit.
- Decide whether saw the unloading piece off in accordance with the pipe direction.(as shown below)



• After connecting pipe as required, install the drain hose. Then connect the power cords. After connecting, wrap the pipes, cords and drain hose together with thermal insulation materials.

Installation instructions



Installation instructions

Connecting of the Cable

Indoor Unit

Connect the power cord to the indoor unit by connecting the wires to the terminals on the control board individually in accordance with the outdoor unit connection.

Note: For some models, it is necessary to remove the cabinet to connect to the indoor unit terminal.

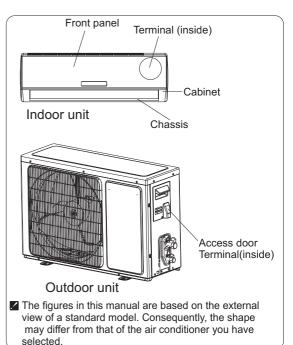
Outdoor Unit

1) Remove the access door from the unit by loosening the screw. Connect the wires to the terminals on the control board individually as follows.

2) Secure the power cord onto the control board with cable clamp.

3) Reinstall the access door to the original position with the screw.

4) Use a recognized circuit breaker for 24K model between the power source and the unit. A disconnecting device to adequately disconnect all supply lines must be fitted.



Caution:

1. Never fail to have an individual power circuit specifically for the air conditioner. As for the method of wiring, refer to the circuit diagram posted on the inside of the access door .

- 2. Comfirm that the cable thickness is as specified in the power source specification.
- 3. Check the wires and make sure that they are all tightly fastened after cable connection.
- 4. Be sure to install an earth leakage circuit breaker in wet or moist areas.

Cable Specifications

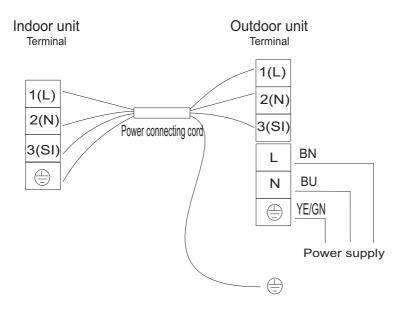
Capacity (Btu/h)	Power cord		Power co	nnecting cord
	Type Normal cross - sectional area		Туре	Normal cross - sectional area
2.5Kw,3.5Kw	H07RN-F	1.0 mm ² X3	H05RN-F	0.75mm²X4
5.0kw	H07RN-F	1.5mm ² X3	H05RN-F	0.75m㎡X4
7.1Kw	H07RN-F	2.5mm ² X3	H05RN-F	0.75m㎡X4

Attention:

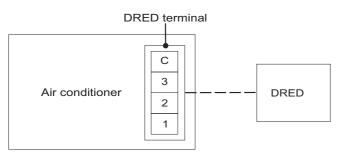
The plug must be accessible even after the installation of the appliance in case there is a need to disconnect it. If not possible, connect appliance to a double-pole switching device with contact separation of at least 3 mm placed in an accessible position even after installation.

Wiring diagram

Warning: Before obtaining access to terminals, all supply circuits must be disconnected. Make sure that the color of the wires in the outdoor unit and terminal No. are the same as those of the indoor unit.

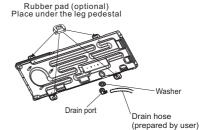


• For some air conditioners exported to Australia, connect the DRED device to the DRED terminal on the air conditioner.



Outdoor unit installation

 Install Drain Port and Drain Hose (for heat-pump model only) The condensate drains from the outdoor unit when the unit operates in heating mode. In order not to disturb your neighbor and protect the environment, install a drain port and a drain hose to direct the condensate water. Just install the drain port and rubber washer to the chassis of the outdoor unit, then connect a drain hose to the port as the right figure demonstrates.



2. Install and Fix Outdoor Unit

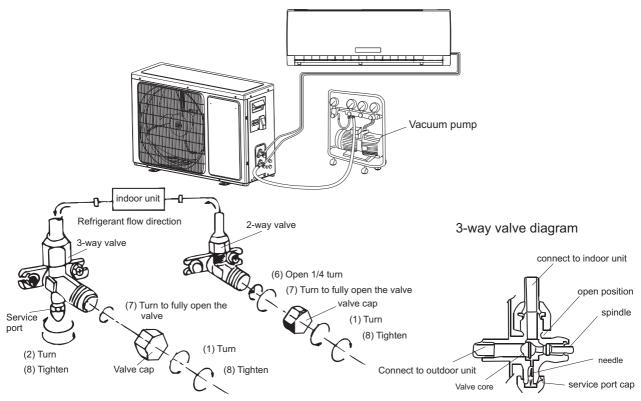
Fix with bolts and nuts tightly on a flat and strong floor. If installed on the wall or roof, make sure to fix the supporter well to prevent it from shaking due to serious vibration or strong wind.

- 3. Outdoor Unit Piping Connection
 - Remove the valve caps from the 2-way and 3-way valve.
 - Connect the pipes to the 2-way and 3-way valves separately according to the required torque.
- 4. Outdoor Unit Cable Connection (see previous page)

Air purging

The air which contains moisture remaining in the refrigeration cycle may cause a malfunction on the compressor. After connecting the indoor and outdoor units, release air and moisture from the refrigerant cycle using a vacuum pump, as shown below.

Note: To protect the environment, be sure not to discharge the refrigerant to the air directly.

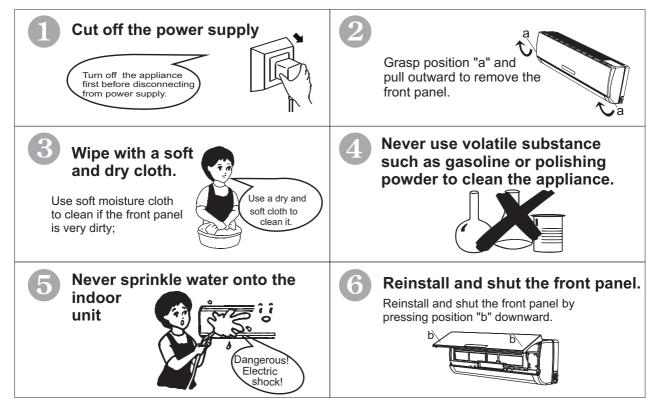


How to Purge Air Tubes:

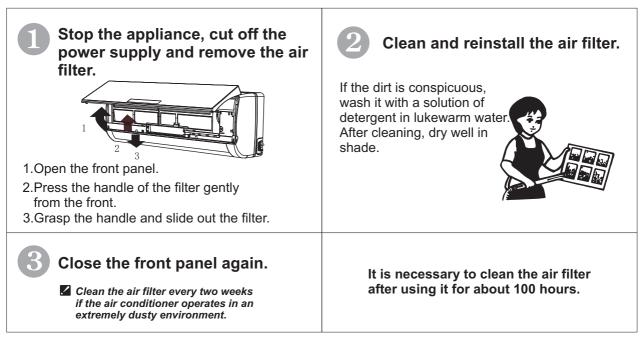
- (1) Unscrew and remove caps from 2 and 3-way valves.
- (2) Unscrew and remove cap from service valve.
- (3) Connect vacuum pump flexible hose to the service valve.
- (4) Start vacuum pump for 10-15 minutes until reaching a vacuum of 10 mm Hg absolutes.
- (5) With vacuum pump still running close the low pressure knob on vacuum pump manifold. Then stop the vacuum pump.
- (6) Open 2-way valve ,1/4 turn, then close it after 10 seconds. Check tightness of all joints using liquid soap or an electronic leak detector.
- (7) Turn 2 and 3-way valves stem to fully open the valves. Disconnect the flexible vacuum pump hose.
- (8) Replace and tighten all valve caps.

Maintenance

• Front panel maintenance



Air filter maintenance



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Operating condition

Operating temperature

Temperature		Cooling operation	Heating operation	Drying operation
Indoor temperature	max	32°C	27°C	32°C
	min	21°C	7°C	18°C
Outdoor temperature	max	50°C	24°C	43℃
	min	-15°C	-15℃	21°C

NOTE:

*Optimum performance will be achieved within these operating temperature. If air conditioner is used outside of the above conditions, the protective device may trip and stop the appliance.

The temperature of some products is allowed beyond the range. In specific situation, please consult the merchant. When relative humidity is above 80%, if the air conditioner runs in COOLING or DRY mode with door or window opened for a long time, dew may drip down from the outlet.

Noise pollution

- Install the air conditioner at a place that can bear its weight in order to operate more quietly.
- Install the outdoor unit at a place where the air discharged and the operation noise would not annoy your neighbors.
- Do not place any obstacles in front of the air outlet of the outdoor unit lest it increases the noise level.

Features of protector

- 1. The protective device will work at following cases.
 - Restarting the unit at once after operation stops or changing mode during operation, you need to wait for 3 minutes.
- Connect to power supply and turn on the unit at once, it may start 20 seconds later.
- 2. If all operation has stopped, press **ON/OFF** button again to restart, Timer should be set again if it has been canceled.

Features of HEATING mode

Preheat

At the beginning of the HEATING operation, the airflow from the indoor unit is discharged 2-5 minutes later.

Defrost

In **HEATING** operation the appliance will defrost (de-ice) automatically to raise efficiency. This procedure usually lasts 2-10 minutes. During defrosting, fans stop operation. After defrosting completes, it returns to **HEATING** mode automatically.

Note: Heating is NOT available for cooling only air conditioner models.

The following cases may not always be a malfunction, please check it before asking for service.

Tr	ouble	Analysis	
Does not run		 If the protector trip or fuse is blown. Please wait for 3 minutes and start again, protector device may be preventing unit to work. If batteries in the remote controller exhausted. 	
	47 /	 If the plug is not properly plugged. 	
No cooling or heating air		 Is the air filter dirty? Are the intakes and outlets of the air conditioner blocked? 	
	HN	Is the temperature set properly?	
Ineffective control		• If strong interference(from excessive static electricity discharge, power supply voltage abnormality)presents, operation will be abnormal. At this time, disconnect from the power supply and connect back 2-3 seconds later.	
Does not operate immediately	don't run	 Changing mode during operation, 3 minutes will delay. 	
Peculiar odor		• This odor may come from another source such as furniture, cigarette etc, which is sucked in the unit and blows out with the air.	
A sound of flowing water		 Caused by the flow of refrigerant in the air conditioner, not a trouble. Defrosting sound in heating mode. 	
Cracking sound is heard		• The sound may be generated by the expansion or contraction of the front panel due to change of temperature.	
Spray mist from the outlet		 Mist appears when the room air becomes very cold because of cool air discharged from indoor unit during COOLING or DRY operation mode. 	
The compressor ind and indoor fan stops	icator(red) lights on constantly,	• The unit is shifting from heating mode to defrost. The indicator will lights off within ten minutes and returns to heating mode.	

Hisense (Guangdong) Air Conditioning Co., Ltd.

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EMAIL: service@hisense.com

(These instructions shall also be available in an alternative format, e.g. ask a copy from the dealers).