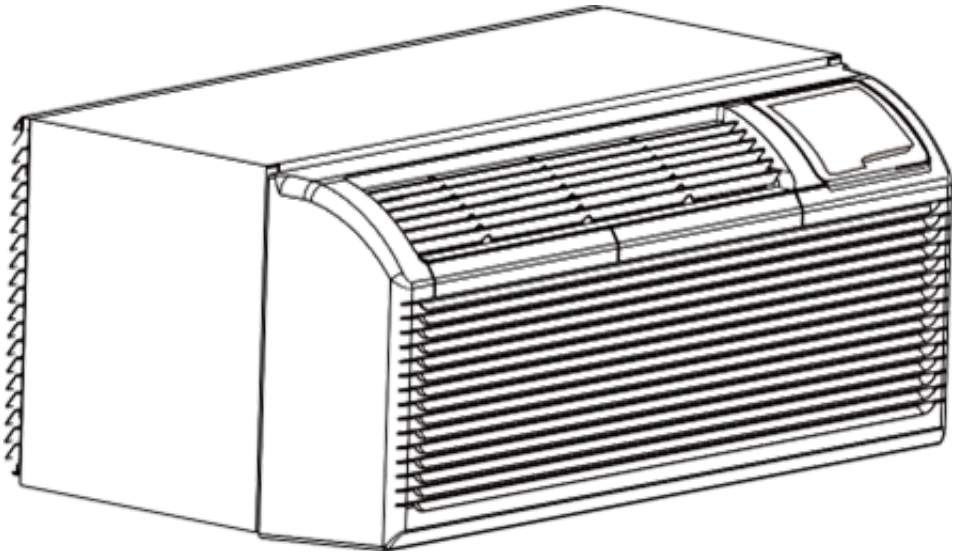
Packaged Terminal Air conditioner / Heat pump Installation Instructions

PTAC Direct Sales, Inc.
185 S. Kimball Av Suite 130
Southlake, TX 76092
877.454.7822 (T)
877.647.6408 (F)

DAIKIN COMFORT TECHNOLOGIES MANUFACTURING, L.P.



This manual must be left with the owner of the equipment.

distinctions

WARNING

Only personnel that have been trained to install, adjust, service, maintenance or repair (hereinafter, "service") the equipment specified in this manual should service the equipment.

This equipment is not intended for use by persons (including children) with reduced physical, sensory or mental capacities, 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 equipment.

The manufacturer will not be responsible for any injury or property damage arising from improper supervision, service or service procedures. If you service this unit, you assume responsibility for any injury or property damage which may result. In addition, in jurisdictions that require one or more licenses to service the equipment specified in this manual, only licensed personnel should service the equipment. Improper supervision, installation, adjustment, servicing, maintenance or repair of the equipment specified in this manual, or attempting to install, adjust, service or repair the equipment specified in this manual without proper supervision or training may result in product damage, property damage, personal injury or death.

WARNING

Do not bypass safety devices.

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Models

DCP073J25BA DCP073J35BA DCP093J25BA
DCP093J35BA DCP093J50BA DCP123J25BA
DCP123J35BA DCP123J50BA DCP153J35BA
DCP153J50BA

DHP073J25BA DHP073J35BA DHP093J25BA
DHP093J35BA DHP093J50BA DHP123J25BA
DHP123J35BA DHP123J50BA DHP153J35BA
DHP153J50BA DHP074J35BA DHP094J35BA
DHP124J35BA DHP154J35BA

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SAFETY PRECAUTIONS

Inside you will find many helpful hints on how to use and maintain your air conditioner properly. Just a little preventive care on your part can save you a great deal of time and money over the life of your air conditioner. You'll find many answers to common problems in the chart of Troubleshooting Tips. If you review our chart of Troubleshooting Tips first, you may not need to call for service at all.

To prevent injury to the user or other people and property damage, the following instructions must be followed. Incorrect operation due to ignoring of instructions may cause harm or damage. The seriousness is classified by the following indications.

Rated performance is achieved after 20 hours of operation. Rated performance is delivered at the specified airflow. See specifications in product literature found at www.distinctions-ptac.com/literature.

WARNING

The signal word indicates a hazard with a high level of risk which, if not avoided, may result in serious injury or death.

CAUTION

The signal word indicates a hazard with a low degree of risk which, if not avoided, may result in minor or moderate injury.

WARNING

Plug in power cord properly. Otherwise, it may cause electric shock or fire due to excess heat generation. Do not operate or stop the unit by inserting or pulling out the power cord. It may cause electric shock or fire due to heat generation. Do not damage or use an unspecified power cord.It may cause electric shock or fire.

WARNING

The power cord plug should be inserted into a standard receptacle.

WARNING

Always install a circuit breaker and a dedicated power circuit. Incorrect installation may cause fire and electric shock. Do not operate with wet hands or in damp environment. It may cause electric shock . Do not direct airflow at room occupants only. This could damage your health. Always ensure effective grounding.Incorrect grounding may cause electric shock. Do not allow water to run into electric parts. It may cause failure of machine or electric shock.

WARNING

Do not modify power cord length or share the outlet with other appliances. It may cause electric shock or fire due to heat generation.

WARNING

Unplug the unit if strange sounds, smell, or smoke comes from it. It may cause fire and electric shock. Do not use the receptacle if it is loose or damaged. It may cause fire and electric shock. Do not open the unit during operation. It may cause electric shock.

WARNING

Do not use the power cord close to heating appliances.It may cause fire and electric shock. Do not use the power cord near flammable gas or combustibles, such as gasoline, benzene, thinner, etc. It may cause an explosion or fire.

WARNING

Ventilate room before operating air conditioner if there is a gas leakage from another appliance. It may cause explosion, fire and, burns. Do not disassemble or modify unit. It may cause failure and electric shock.

CAUTION

When the air filter is to be removed, do not touch the metal parts of the unit. It may cause an injury.
Ventilate the room well when used together with a stove, etc. An oxygen shortage may occur.

CAUTION

Do not use strong detergent such as wax or thinner but use a soft cloth to clean the unit. Appearance may be deteriorated due to change of product color or scratching of its surface. Do not clean the air conditioner with water. Water may enter the unit and degrade the insulation. It may cause an electric shock. Do not use for special purposes. Do not use this air conditioner to preserve precision devices, food, pets, plants, and art objects, it may cause deterioration of quality, etc.

CAUTION

Stop operation and close the window in storm or hurricane. Operation with windows opened may cause wetting of indoor and soaking of household furniture. When the unit is to be cleaned, switch off, and turn off the circuit breaker.

CAUTION

Do not clean unit when power is on as it may cause fire and electric shock, it may cause an injury.

CAUTION

Always insert the filters securely. It can cause a failure if operated without filters. Please clean filter once every two weeks.

CAUTION

Do not place obstacles around air-inlets or inside of air-outlet. It may cause failure of appliance or accident. Do not place heavy object on the power cord and ensure that the cord is not compressed. There is danger of fire or electric shock. Don't drink water drained from air conditioner. It contains contaminants and could make you sick.

CAUTION

Use caution when unpacking and installing. Sharp edges could cause injury.

CAUTION

If water enters the unit, turn the unit OFF at the power outlet and switch OFF the circuit breaker. Isolate supply by taking the power-plug out and contact a qualified service technician.

CAUTION

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.

CAUTION

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

CAUTION

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.

CAUTION

The appliance shall be installed in accordance with national wiring regulations.

CAUTION

Installation must be performed in accordance with the requirement of NEC and CEC by authorized personnel only.

CAUTION

Do not operate your air conditioner in a wet room such as a bathroom or laundry room.

CAUTION

The appliance with electric heater shall have at least 1 meter space to the combustible materials.

CAUTION

Contact an authorised service technician for repair or maintenance of this unit.

CAUTION

Contact an authorised installer for installation of this unit.

WARNING

The unit must have an uninterrupted, unbroken electrical ground to minimize the possibility of personal injury if an electrical fault should occur. Installation to be performed in accordance with the "national electric code" (NEC) "American National Standards Institute" (ANSI) "National Fire Protection association" (NFPA) 70 and local/state codes. In Canada, installation to be performed in accordance with the canadian electric code CSA C22.1. Failure to observe this warning can result in electrical shock that can cause personal injury or death.

CAUTION

Hold the power cord by the head of the power plug when taking it out. Failure to follow this instruction may cause electric shock and damage. Turn off the main power switch when not using the unit for a long time.

NOTE: This air conditioner is designed to be operated under the following conditions:

Cooling Operation	Outdoor Temp.	18-(43/26)°C /64-(109/79)°F (18-52°C/64-125° F for special tropical models)
	Indoor Temp.	17-(32/23)°C/62-(90/73)° F
Heating Operation	Outdoor Temp.	-5-(24/18)°C/23-(76/64)° F
	Indoor Temp.	0-(27/19)°C/32-(80/66) °F

NOTE: (109/79) °F. It means the dry bulb temperature is 109°F and the wet bulb temperature is 79°F

NOTE: Performance may be reduced outside of these operating temperatures.

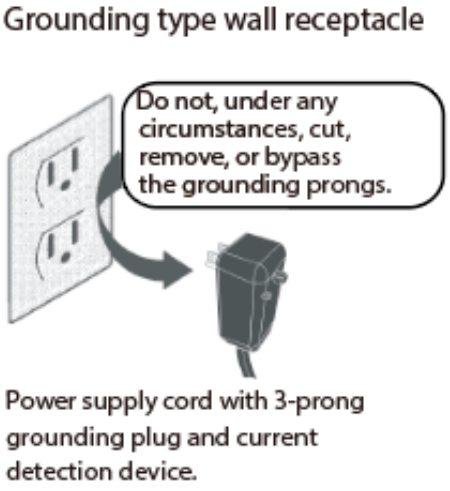
Operation of Current Device

The power supply cord contains a current device that senses damage to the power cord. To test your power supply cord do the following:

- Plug in the Air Conditioner.
- The power supply cord will have TWO buttons on the plug head. Press the TEST button, you will notice a click as the RESET button pops out.
- Press the RESET button again, you will notice a click as the button engages. The power supply cord is now supplying electricity to the unit. (On some products this is also indicated by a light on the plug head).

NOTE:

- The power supply cord with this air conditioner contains a current detection device designed to reduce the risk of fire. In the event that the power cord is damaged, it cannot be repaired – it must be replaced with a cord from the product manufacturer.
- Do not use this device to turn the unit on or off.
- Always make sure the RESET button is pushed in for correct operation.
- The power supply cord must be replaced if it fails to reset when either the TEST button is pushed or if it cannot be reset. A new cord can be obtained from the product manufacturer.
- If power supply cord is damaged, it cannot be repaired. It MUST be replaced by one obtained from the product manufacturer.
- When 265V units are to be installed, the power supply must be permanent wiring. Permanent wiring may be done through the accessory subbase.An exposed cord connection on 265V units is not permitted.



Electrical Information

The complete electical rating of your PTAC is stated on the serial plate. Refer to the rating when checking the electrical requirements.

- Be sure the air conditioner is properly grounded. To minimize shock and fire hazards, proper grounding is important. The power cord is equipped with a three-prong grounding plug for protection against shock hazards.
- Your air conditioner must be used in a properly grounded wall receptacle. If the wall receptacle you intend to use is not adequately grounded or protected by a time delay fuse or circuit breaker, have a qualified electrician install the proper receptacle. Ensure the receptacle is accessible after the unit installation.
- Do not run air conditioner without side protective cover in place.This could result in mechanical damage within the air conditioner.

Avoid fire hazard or electric shock. Do not use an extension cord or an adapter plug. Do not remove any prongs from the power cord.

For Your Safety

Do not store or use gasoline or other flammable vapors and liquids in the vicinity of this or any other appliance.

Prevent Accidents

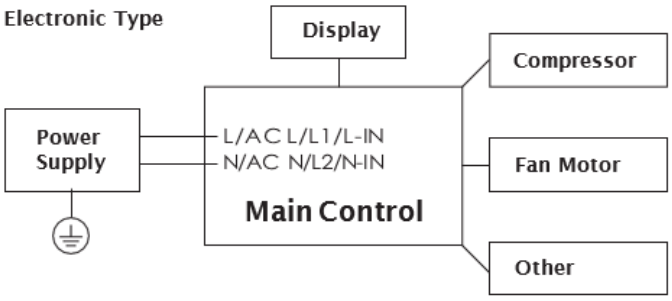
To reduce the risk of fire, electrical shock, or injury to persons when using your air conditioner, follow basic precautions, including the following:

- Be sure the electrical service is adequate for the model you have chosen. This information can be found on the serial plate, which is located on the side of the cabinet and behind the grille.
- Be sure the air conditioner has been securely and correctly installed according to the installation instructions in this manual. Save this manual for possible future use in removing or installing this unit. When handling the air conditioner, be careful to avoid cuts from sharp metal fins on front and rear coils.

Electronic Work

WARNING

Before performing any electrical or wiring work, turn off the main power to the system.



NOTE: Please strictly follow the wiring label attached to the machine for all wiring connections. The wiring diagram may vary for different units. Please refer to the wiring diagram on the machine you have purchased. The above wiring diagram is a simplified version for preliminary illustration purposes only.

Electrical Requirements

Electrical Shock and Personal Injury Hazard
Electrical ground is required on this appliance.
DO NOT ground to a gas line.
If cold water pipe is interrupted by plastic,non metallic gaskets, or other insulating materials,
DO NOT use for grounding.
Check with a qualified electrician if you are in doubt as to whether the appliance is properly grounded.

DO NOT modify power supply cord plug. If it does not fit outlet, have a proper outlet installed by a qualified electrician.
DO NOT have a fuse in the neutral or grounding circuit. A fuse in the neutral, or grounding circuit could result in an electrical shock.

DO NOT use an extension cord with this appliance.
Failure to follow these instructions could result in electrical shock, serious injury, or death.
Observe all local governing codes and ordinances.
Do not, under any circumstances, remove the power supply cord grounding prong.

NOTE: If codes permit, and a separate grounding wire is used; it is recommended that a qualified electrican determine that the grounding path is adequate and not interrupted by plastic, nonmetallic gaskets, or other insulating materials.

Receptacle wiring
Receptacle wiring should be a minimum of 14 gauge. Use copper wire only. It is your responsibility to provide proper and adequate receptacle wiring, installed by a qualified electrician.

Electrical requirements
A time delay fuse or time delay circuit breaker is also required. A separate circuit, serving only this appliance, MUST be provided.

NOTE: for details about the parameters of the electric heating function, see the nameplate on the unit.

NOTE: The shape may be different according to its model:

Power Card						
Power Supply	230V,15A	230V,20A	230V,30A	265V,15A	265V,20A	265V,30A

WARNING

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.

WARNING

DO NOT modify the length of the power cord or use an extension cord to power the unit.

WARNING

DO NOT share a single outlet with other electrical appliances. Improper power supply can cause fire or electrical shock.

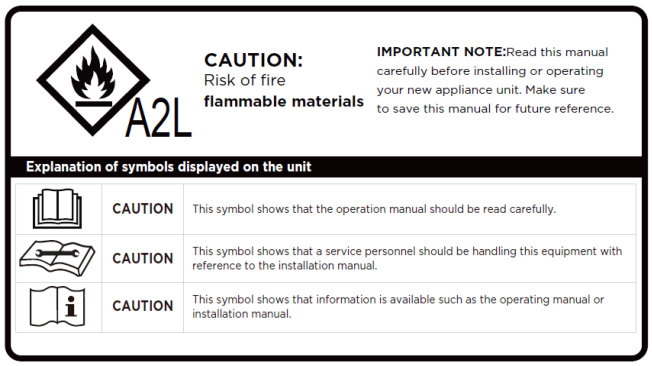
WARNING

Please follow the instruction carefully to handle, install, clean, and service the appliance to avoid any damage or hazard.

Flammable
Refrigerant R32 is used within appliance.

- When maintaining or disposing the appliance, the refrigerant (R32) shall be recovered properly, and shall not be discharged to air directly.
- Compliance with national gas regulations shall be observed.
- Keep ventilation openings clear of obstruction.
- The appliance shall be stored so as to prevent mechanical damage from occurring.
- The appliance shall be stored in a well-ventilated area where the room size corresponds to the room area as specified for operation.
- 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. All training shall follow the ANNEX HH requirements of UL 60335-2-40 4th Edition.
  Examples for such working procedures are:
  - breaking into the refrigerating circuit;
  - opening of sealed components;
  - opening of ventilated enclosures.
- No open fire or device like a switch which may generate spark/arcing shall be around appliance to avoid causing ignition of the flammable refrigerant used. Please follow the instructions carefully when storing or maintaining the appliance to prevent mechanical damage from occurring.
- 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) and ignition sources or (for example: an operating electric heater) close to the appliance.
- Do not pierce or burn.

Be aware that the refrigerants may not contain an odor.



SAFETY AND OPERATIONAL PROCEDURES FOR HANDLING EQUIPMENT

1. Transport of equipment containing flammable refrigerants

See transport regulations.

2. Marking of equipment using signs

See local regulations.

3. Disposal of equipment using flammable refrigerants

See national regulations.

4. Storage of equipment/appliances

The storage of the appliance should be in accordance with the applicable regulations or instructions, whichever is more stringent.

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 minimized. 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 a 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 refrigerating leak 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 on hand. Have a dry powder or CO2 fire extinguisher adjacent to the hot work area.

6.6 No ignition sources

No person carrying out work in relation to a refrigerating 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 refrigerating equipment

Where electrical components are being changed, they shall be fit for the purpose and to the correct specifications. 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 actual refrigerant charge 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; and refrigerating 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.

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. 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. Sealed electrical components shall be replaced

8. Intrinsically safe components must be replaced.

9. Cabling

Check that cabling will not be subject to wear, corrosion, excessive pressure, vibration, sharp edges or any other adverse environmental efects. 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. 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 of valves) in a part of the system remote from the leak. Removal of refrigerant shall be according to Removal and evacuation.

11. Removal and evacuation

When breaking into the refrigerant circuit to make repairs— or for any other purpose - conventional procedures shall be used. However, the flammability classification for any refrigerant must be considered. The following procedure shall be adhered to:

-Safely remove refrigerant following local and national regulations;
-Evacuate;
-Purge the circuit with inert gas (optional for A2L);
-Evacuate (optional for A2L);
-continuously flush or purge with inert gas when using flame to open circuit; and
-open the circuit.

The refrigerant charge shall be recovered into the correct recovery cylinders. For appliances containing flammable refrigerants, the system shall be purged with oxygen-free nitrogen to render the appliance safe for flammable refrigerants. This process might need to be repeated several times. Compressed air or oxygen shall not be used for purging refrigerant systems.

For appliances containing flammable refrigerants, refrigerants purging shall be achieved by breaking the vacuum in the system with oxygen-free nitrogen and continuing to fill until the working pressure is achieved, then venting to atmosphere, and finally pulling down to a vacuum (optional for A2L). This process shall be repeated until no refrigerant is within the system (optional for A2L). When the final oxygen-free nitrogen charge is used. the system shall be vented down to atmospheric pressure to enable work to take place. The outlet for the vacuum pump shall not be close to any potential ignition sources, and ventilation shall be available.

12. 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 minimize the amount of refrigerant contained in them. Cylinders shall be kept in an appropriate position according to the instructions. Ensure that the refrigeration system is grounded 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 (Oxygen-Free Nitrogen). 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.

13. 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 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.

14. 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.

15. Recovery

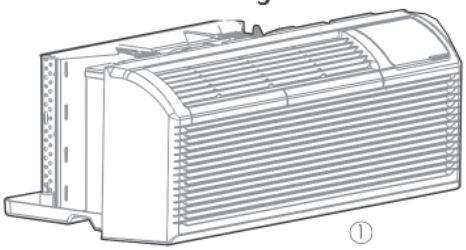
When removing refrigerant from a system, either for servicing or decommissioning, all refrigerants must be removed safely. When transferring refrigerant into cylinders, ensure that only appropriate refrigerant recovery cylinders are employed. Ensure that the correct number of cylinders for holding the 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 shut-of valves in good working order. Empty recovery cylinders are evacuated and, if possible, cooled before recovery occurs. All recovery equipment must be suitable for the recovery of A2L refrigerant and in good working order. Ensure that you follow the manufacturer's instructions carefully. If in doubt, the manufacturer should be consulted. 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.

The recovered refrigerant shall be processed according to local legislation 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 compressor body shall not be heated by an open flame or other ignition sources to accelerate this process. When oil is drained from a system, it shall be carried out safely.

Before you get started

Contents of the package and preparation

What is in the Package


①



②



③

① Unit
② Control panel sticker
③ Owner's manual

Subbase kit (for 265V model only, optional)


①


②

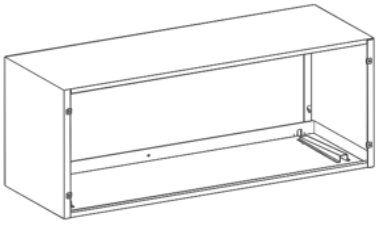

③


④

① Subbase
② Cover panel I
③ Cover panel II
④ Screws x8

Subbase kit Model: PTSB420QW / PTSB430QW (used for cord connected units with 3.5kw

What you need to purchase


Wall sleeve

Prepare the following tools


Gloves


Screwdriver


Pencil


Drill


Ruler or tape measure


Level

Before the installation

Preparations before installation

The installation must be carried out in strict accordance with the instructions in this manual.

Installing your AC should take about 60 minutes.

We recommend doing this with a helper.

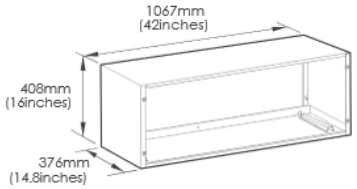
If you need us, please contact your local distributor for assistance.

INSTALLATION SIZE AND POSITION REQUIREMENTS

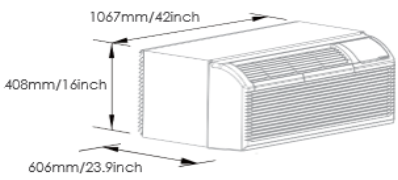
⚠ CAUTION

Be careful! There are sharp edges that can cause serious cuts.

Installation size confirmation:

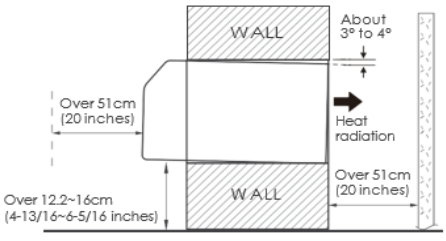


Wall sleeve size requirements (wall hole size should refer to the wall sleeve size)



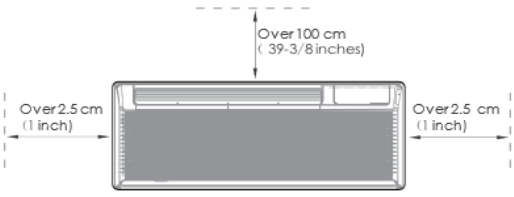
Product size

Confirmation of installation position:



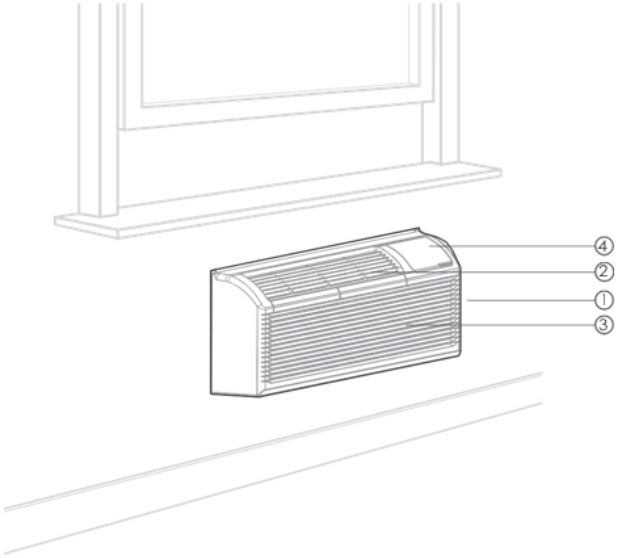
NOTE

To make the appliance work better, please do not place a barrier in the air outlet.



Installation overview

Installing Unit into the wall



① Unit

② Outlet

③ Air Intake

④ Control panel cover

NOTE

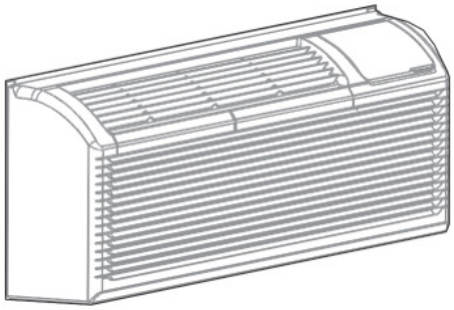
Illustrations in this manual are for explanatory purposes. The actual shape of your unit may be slightly different. The actual shape shall prevail.

Type 1: Instructions for 208/230V models

Complete Unit installation

NOTE

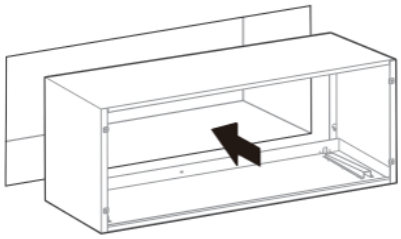
We recommend doing this with a helper, or even two helpers.

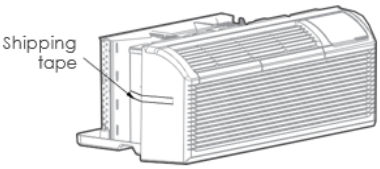


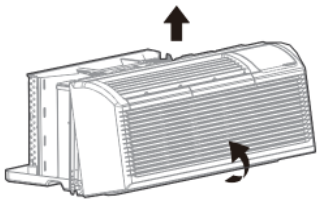
What you need.



Preparations for Unit Installation







Pull out at the bottom to release it from the tabs, then lift the front panel up.

1

Attach Wall sleeve.

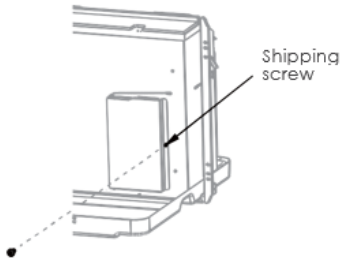
Refer to the installation instruction of sleeve assembly for details. To avoid vibration and noise, make sure the wall sleeve is installed securely and firmly.

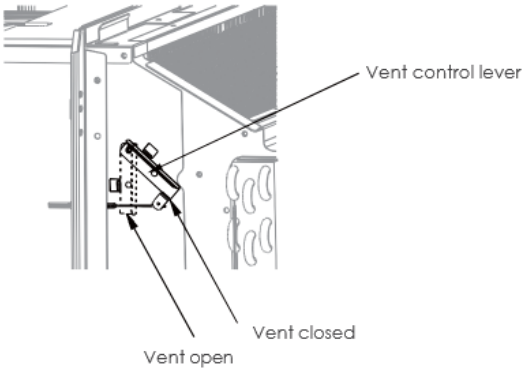
2

Prepare for unit installation.

Carefully remove shipping tapes from the front panel. Remove the front panel.

Unit Installation





3

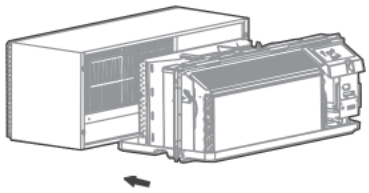
Install and fix the main part of the unit.

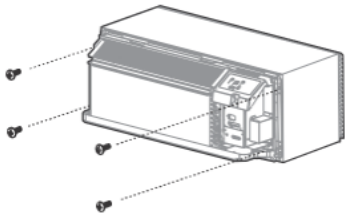
Rotate the vent control lever to either open or close the vent door.

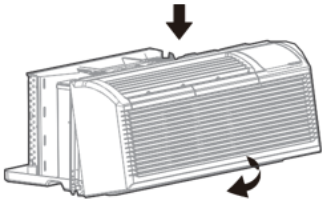
NOTE:
When the vent control lever is set at CLOSE, only the air inside the room is circulated and filtered. When set at OPEN, some outdoor air will be drawn into the room. This will reduce heating or cooling efficiency.

CAUTION:
- Do not put obstacles around the air-inlet or inside of air-outlet of the unit, such as window curtain etc.
- Always insert the filter securely, clean the filter once every two weeks as required.

Install the unit into the wall sleeve







4

Install the unit into the wall sleeve

Lift unit level and slide unit into wall sleeve until firmly against front of wall sleeve and secure with 4 screws and washers (supplied along with the unit assembly) through the unit flange holes.

5

Reinstall front panel.

Place tabs over the top rail. Push Inward at bottom until panel snaps into place.

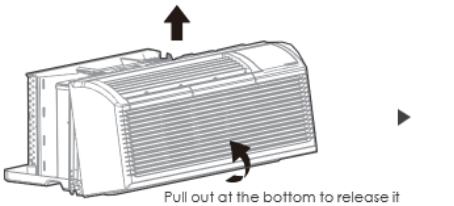
Customize your features

Product function reset operation

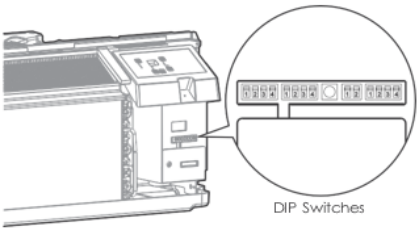
NOTE

Unit must be powered OFF to effectively change their status.

DIP SWITCHES CONFIGURATIONS



Pull out at the bottom to release it from the tabs, then lift the front panel up.



DIP Switches

Please refer to the following table for DIP SWITCHES CONFIGURATIONS operation.

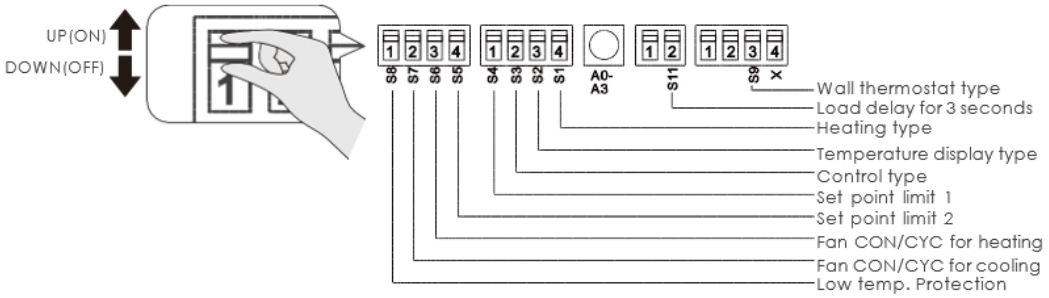


Table 1 - DIP SWITCHES CONFIGUREATIONS

No.	UP (ON)	DOWN (OFF)	Remarks
S1	Electric Heat Only	Electric Heat and Pump Heat	For Heat Pump unit only
S3	Wall Thermostat Enable	Control Panel Enable	
S4*S5	UP*UP:60°F~86°F(16°C~30°C); UP*DOWN:65°F~78°F(18°C~26°C); DOWN*UP:63°F~80°F(17°C~27°C); DOWN*DOWN:68°F~75°F(20°C~24°C);		Two configurations (S4*S5) combine to select set point range.
S6	Fan Continuous Run for Heating	Fan Cycle for Heating	
S7	Fan Continuous Run for Cooling	Fan Cycle for Cooling	
S8	Low temp. Protection enable	Low temp. Protection disable	Optional
S9 (S3UP)	Use other types of wall Thermostat	Use PTAC/Amana® Brand wall thermostat Low temp. Protection disable	you can consult with the sales agency or manufacturer for details
S9 (S3DOWN)	Use Control Panel only	Use Control Panel or other types of wall Thermostat	Use control Panel or some types of wall Thermostat, the other one must be turned off
Sw11	Load delay for 3 seconds	Normal	Optional

Low temp. Protection(optional)	**If unit senses a room temperature below 32°F(0°C), the fan motor and electric strip heat will turn on and warm the room to 40°F (4.4°C). The fan stops a short time after the temperature is satisfied.**
Heat and Cool Fan CON/ CYC Dip-switches	**Allows the fan to operate in continuous or cycle modes while the unit is in heating and cooling mode.**
CON(Continuous)	**Allows fans to run continuously, circulating air even when the temperature setting has been satisfied. This switch helps to maintain the room temperature closer to the thermostat setting.**
CYC(Cycle)	**This setting allows the fan to cycle on and off with the compressor or electric heater. The fan stops a short time after the temperature setting is satisfied.**
Electric Heat Only (for heat pump unit only)	**This setting is typically used for Emergency Heating.**
Setpoint Temperature Limits	**Provides a restricted range of temperature control.**
Setpoint Temperature Limits	**Provides a restricted range of temperature control.**
Electric Heat Only (for heat pump unit only)	**This setting is typically used for Emergency Heating.**
Wall Thermostat control	**A wired wall thermostat can be connected to the unit. If it is, this dip switch must be moved to the Wall Thermostat Enable Position, before the wall thermostat will begin control.**

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DIP SWITCHES CONFIGURATIONS by PANEL CONTROL(Optional)

NOTE

Unit must be powered OFF to effectively change their status.

- Press the up and down buttons together for 3 seconds to activate the dip switches configurations by panel control.
- See Table 1 for Dip Switches configurations and functions by panel control.

NOTE: Press the up and down buttons together for 3 seconds again or no operation within 30 seconds to exit the dip switches configurations by panel control and the unit will save the last settings.

- Display function settings with 2 digitals in LED display window, high (left) for dip switches, low (right) for functions.
- Press up button to set the dip switches, press down button to set the functions.

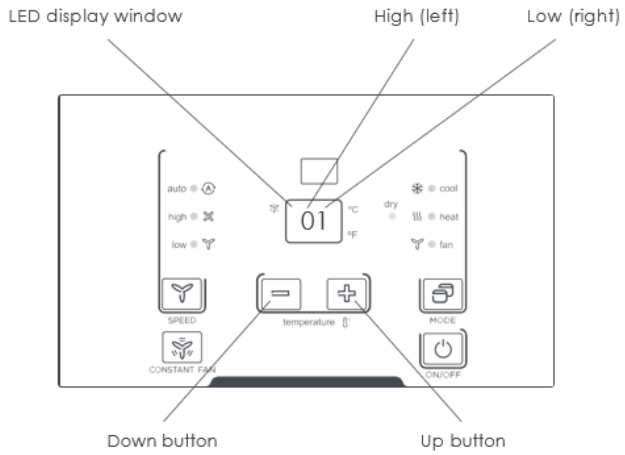


Table1 —— DIP SWITCHES CONFIGURATIONS by PANEL CONTROL

No.	High(left)	Low(right)		Remarks
/	0	1-by panel control	0-by dip switches	
S1	1	1-electric heat only	0-electric heat and pump heat	For Heat Pump unit only
S3*S9	3	3-use control panel or some types of wall thermostat; 2-use other types of wall thermostat; 1-use other types of wall thermostat; 0-control panel enable.		You can consult with the sales agency or manufacturer for details
S4*S5	4	4-62°F~86°F(17°C~30°C); 3-60°F~86°F(16°C~30°C); 2-65°F~78°F(18°C~26°C); 1-63°F~80°F(17°C~27°C); 0-68°F~75°F(20°C~24°C);		
S6	6	1-fan continuous run for heating	0-fan cycle for heating	Not available for "1-use other types of wall thermostat"
S7	7	1-fan continuous run for cooling	0-fan cycle for cooling	
S8	8	1-low temp. protection enable	0-low temp. protection disable	Optional
SW7	A	1-front desk control disable	0-front desk control enable	Optional
Sw11	B	1-Load delay for 3 seconds	0-normal	Optional

NOTE:

1. The LED display window will show 00 when you first enter the setting mode, only when you set 01 can you start the next settings.
2. To activate the front desk control function, you need to pull the dip switch SW7 to DOWN(OFF), and then set the panel control to A0.
3. After all set, press up and down buttons together for 3 seconds to exit the operation interface and cut of the power. When the re-power is on, the settings are activated.

WALL THERMOSTAT TERMINAL (Optional)

IMPORTANT

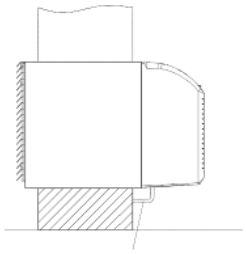
Only trained, qualified personnel should access electrical panel on unit and install electrical accessories. Please contact your local electrical contractor, dealer, or distributor for assistance.

1

Thermostat Wire Routing

Thermostat wire is a field supplied. The recommended wire gauge is an 18-to-20-gauge solid thermostat wire.

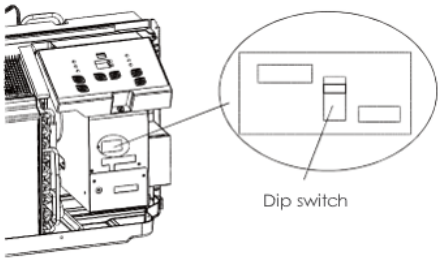
NOTE: It is recommended that extra wires are run to units in case any are damaged during installation. Thermostat wire should always be routed around or under, NEVER through, the wall sleeve. The wire should then be routed behind the front panel to the easily accessible terminal connector.

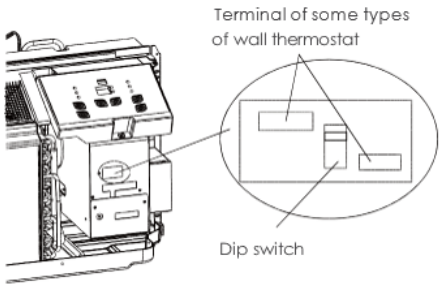


THERMOSTAT WIRE ROUTING
(UNDER SLEEVE, BEHIND FRONT PANEL)

Fig. A - Proper Wire Routing Beneath Unit

NOTE: Refer to the thermostat installation instructions for details on installing wall thermostat.





2

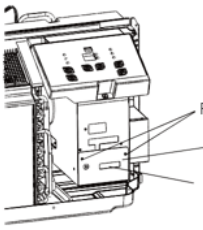
Installation instruction of some types of wall Thermostat

(you can Consult with the sales agency or manufacturer for details)

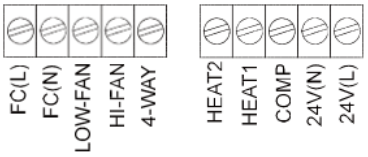
Pull the dip switch to the DOWN(OFF) position as shown below.

Insert the wire connector of the wall thermostat into the relevant terminal according to different shapes as shown above.

WALL THERMOSTAT TERMINAL (Optional)

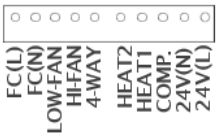


Terminal of PTAC Wall Thermostat (MODE A)



TERMINAL	DESIGNATION	MODE B Wire color
FC(L)	Front desk control terminal L	Brown
FC(N)	Front desk control terminal N	Pink
LOW-FAN	Low fan speed	Purple
HI-FAN	High fan speed	Green
4-WAY	4-way valve; Reverse cycle (Energized in Heat) For heat pump models	Blue
HEAT2	Electrical heater 2	White
HEAT1	Electrical heater 1	White
COMP	Compressor	Yellow
24V(N)	24V AC terminal N (Neutral), Common	Black
24V(L)	24V AC terminal L	Red

Terminal of PTAC Wall Thermostat (MODE B)



3

Installation instruction of PTAC Wall Thermostat

Remove the two screws as shown below and take the cover panel down.

⚠ CAUTION

UNIT DAMAGE HAZARD

- Failure to follow this caution may result in equipment damage or improper operation.
- Improper wiring may damage unit electronics. Common busing is not permitted. Damage or erratic operation may result.

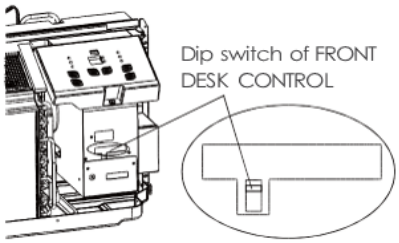
NOTE:

- Use terminal 4-way for heat pump connection only.
- Suggest setting the compressor protection time more than 3 minutes on. If it is set for less than 3 minutes, the compressor will restart delay 3 minutes still.
- Wall thermostat must be heating changeover 4-way valve.
- For thermostats that have only one fan speed output (on or auto), the fan speed is determined by how the terminal connector is wired. If Low fan is desired, wire the G output from the thermostat to (LOW-FAN) on the unit's terminal block.
- If High fan is desired, wire the G output from the thermostat to (HI-FAN) on the unit's terminal block.
- The range of set temperature of Wall thermostat must be in consonance with the range of DIP switch setting. • Wall thermostat must be set the type properly in consonance with the unit type: heat pump or no heat pump.
- If the unit has only one electrical heater output, connect the two terminals of HEAT 1 and HEAT 2, the unit can operate two electrical heaters (only for the unit has two electrical heaters). Otherwise operate one electrical heater.
- Please do not remove the control panel.

• FRONT DESK CONTROL

The controller can handle a switch signal from FC(L) and FC(N) input, called front desk control. Input must be 24VAC. If the system doesn't receive a 24VAC signal, it will turn the unit off; otherwise, the unit runs in normal control.

The DIP switch can control the FRONT DESK CONTROL feature. The DIP switch is On the DOWN position, the unit will be turned off; otherwise, the unit runs in normal control.

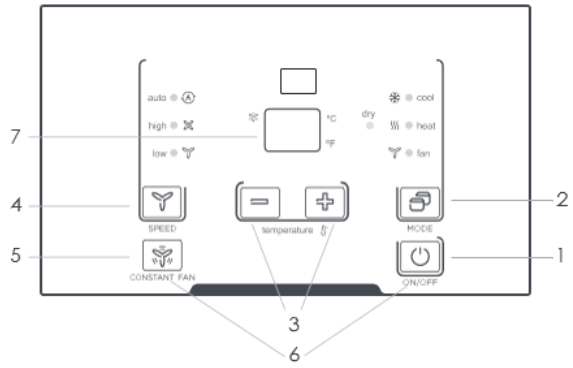


Operation instructions

Control Panel

NOTE

The control panel keypad will look like the following image. For some models with REMOTE SIGNAL RECEPTOR, the unit can be controlled by the control panel alone or by the remote. NOTE: Some models have no REMOTE SIGNAL RECEPTOR.



		Description
1	POWER - Function	·Press the POWER button to turn the unit on or off.
2	Mode - Function	·Push this button to cycle through the modes from COOL-DRY-HEAT-FAN-COOL. The indicator light beside the "MODE" option will illuminate, identifying the mode selected. ·COOL: Cooling begins automatically when the room temperature is above the set point and stops when the room temperature is 2°C(4°F) below the set point. But the compressor will run 5 minutes at least in COOL mode before stopping. ·HEAT: For heat pump models, the unit can alternate between in reverse cycle heat mode and electric heater mode according to the difference between the setting temperature and the room temperature. ·The fan motor cycles with the compressor stop.
		DRY: In this mode, the air conditioner will generally operate in the form of a dehumidifier. Since the conditioned space is a closed or sealed area, some degree of cooling will continue. NOTE: The reverse cycle and electric heater cannot be run at the same time. In the following cases, it is normal that the reverse cycle does not operate. 1.When the outdoor temperature is lower than 4°C/40°F or the room temperature falls to 4.5°C/8°F below the set point temperature. 2 There is a 3-minute minimum compressor run at any setting to prevent short cycling. The indoor fan motors start before the compressor and stop after the compressor cycles off. 3 Push the S1 on the DIP SWITCHES to UP (ON) position. 4 When frost builds up to the evaporator coils, the unit will defrost automatically, and the compressor will cycle off. NOTE: When you select AUTO mode, the FAN speed will be automatically adjusted at the setting temperature and room temperature. ·FAN: Fan operation only without heating and cooling. NOTE: If the unit has DIP SWITCHES feature, the temperature range can be settled and is controlled by DIP SWITCHES. See DIP SWITCHES CONFIGURATIONS on page 8 for details.
3	- + Up and Down buttons	·Push the UP (or DOWN) button to increase (or decrease) the set temperature of the unit in cooling or heating mode. The temperature can be set by increments of 1°C (1°F). The setting temperature appears in the display. NOTE: Press and hold "+"and "-" buttons together for 3 seconds will alternate the temperature display between °C &°F scale.
4	FAN (FAN SPEED) - Function	·Every time you push this button, the fan speed cycles through the settings as follows: AUTO-HIGH-LOW-AUTO. NOTE: When you select AUTO mode, the FAN speed will be automatically adjusted at the setting temperature and room temperature. On Dry mode, the fan speed is controlled at Low speed automatically.
5	CONSTANT FAN - Function	·In cooling mode, press the button to turn on or of the constant fan function. When the function is turned on, the constant fan light will illuminate, identifying the fan continuous run for cooling. When the function is turned off, the constant fan light will go out, identifying the fan cycle run with compressor stop. NOTE: Every time the unit is turned on, the function will work as the **DIP SWITCHES CONFIGURATIONS**
6	PANEL LOCKING - Function	·Long press the open key and continuous air function key for 5 seconds at the same time. Quick check immediately response, no 5 seconds. Turn on or of the lock panel function. The remote control still works. Fast entry and exit when unlocking function. NOTE: It will be display 'LL' when you locked the control panel.

		Description
7	**DISPLAY**	· Shows the set temperature in °C or °F. While on Fan only mode, it shows the room temperature. **Control code (on some models):** **LC** - Pads on the control panel are not available. The unit can be settled by using wire controller only. **FC** - Pads on the control panel and wire controller are not available. The unit can be settled by using FRONT DESK CONTROL only. **Error codes:** E0-Failure of EEPROM parameter E3-The fan stall error E4：Main control and Display communication error AS - Room temperature sensor error. ES - Evaporator temperature sensor error; CS - Condenser temperature sensor error; OS - Outside temperature sensor error; HS - Exhaust temperature sensor error; LE - Wire controller error. **NOTE:** When an error occurs, unplug the unit and plug it back in. If an error is repeated, call for service. **Other codes:** LO - Room temperature is lower than 0°C/32°F; HI - Room temperature is higher than 37°C/99°F; FP - Low temp. Protection. NOTE: All the illustrations in this manual are for explanation purposes only. Your air conditioner may be slightly different. The actual shape shall prevail.

Accessories



Control panel sticker

NOTE: When the unit displays LC (Pads on the control panel is not available. The unit can be settled by using wire controller only). You can install the Accessory on the control panel.

NOTE: For some models, there is corresponding operation that happened after 3 seconds when pressing any button.

NOTE: When there are wide differences between USERS MANUAL and Remote controller Illustration on function description, the description on USERS MANUL shall prevail.

Care and Maintenance

⚠ CAUTION

- **UNIT DAMAGE HAZARD** Failure to follow this caution may result in equipment damage or improper operation. Airflow restriction may cause damage to the unit.

FRONT PANEL AND CASE

- Turn unit off and disconnect power supply. To clean, use water and a mild detergent. DO NOT use bleach and abrasives. Some commercial cleaners may damage the plastic parts.

OUTDOOR COIL

- Coil on outdoor side of unit should be checked regularly. Units will need to be removed to inspect dirt build-up of dirt that will occur on the inside of the coil. If clogged with dirt and soot, the coil should be professionally cleaned. Clean inside and outside of outdoor coils regularly.

NOTE: Never use a high-pressure spray on coil.

⚠ CAUTION

Failure to follow this caution may result in equipment damage or improper operation.

- Do not operate unit without filters in place. If a filter becomes torn or damaged, it should be replaced immediately.
- Operating without filters in place or with damaged filter will allow dirt and dust to reach indoor coil and reduce cooling, heating, airflow and efficiency of unit. Airflow restriction may cause damage to unit.

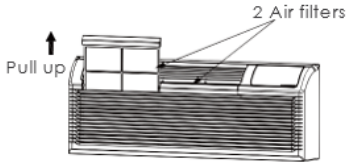
- The most important thing you can do to maintain unit efficiency is to clean the filters once every two weeks as required. Clogged filters reduce cooling, heating and airflow.

- **Keeping filters clean will:**

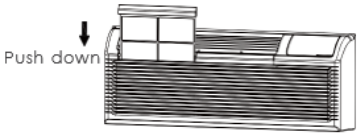
Decrease cost of operation.
Save energy.
Prevent clogged indoor coil.
Reduce risk of premature component failure.

- **Clean Air Filters:**
Vacuum of heavy soil. Run water through filter. Dry thoroughly before replacing it.

-Removing Air Filter



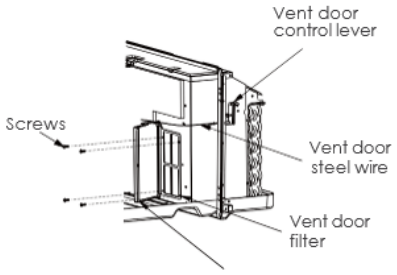
-Replacing Air Filter



- VENT DOOR FILTER:

IMPORTANT: TURN UNIT OFF BEFORE CLEANING.

- If the vent door is open, access requires the removal of the unit from the wall sleeve. Clean the vent filter twice a year or as required.
- Make sure to remove the shipping screw from the vent door.
- Rotate the vent control lever to open the vent door.
- Remove four screws from the vent door filter.
- First pull out the vent door steel wire from the hole of the vent door, then take off the vent door and filter.)
- Clean the filter. Dry thoroughly before replacing it.
- Replace the vent door and filter, reinstall the four screws.
- Reinsert the vent door steel wire into the hole of the vent door.



Vent Door

Troubleshooting

Before calling for service, review this list. It may save you time and money. This list includes common occurrences that are not the result of defective workmanship or materials in this appliance.

Problem	Solution
UNIT DOES NOT START	Unit may have become unplugged. Check that plug is plugged securely in the wall receptacle. NOTE: Plug has a test/reset button on it. Make sure that the plug has not tripped.
	Fuse may have blown. Replace the fuse. See Note 1.
	Unit may be off. Reset circuit breaker. See Note 1.
	Unit may be in a protection mode. Turn unit on (bottom right button on keypad).
UNIT NOT COOLING/ HEATING ROOM	Unit air discharge section is blocked. Make sure that curtains, blinds or furniture are not restricted or block unit airflow.
	Temperature setting is not high or low enough. NOTE: Setpoint limits may not allow the unit to heat or cool the room to the temperature desired. Check section on dipswitch settings. Reset to a lower or higher temperature setting.
	Unit air filters are dirty. Remove and clean filters.
	The room is excessively hot or cold when unit is started. Allow enough time for the unit to heat or cool the room. Start heating or cooling early before outdoor temperature, cooking heat or gatherings of people make room uncomfortable.
	The vent door left open. Close the vent door. Unit may be in a protection mode. Check the wall thermostat settings for desired comfort.
	The compressor is delayed in time. Wait approximately 3 minutes for the compressor to start.
DISPLAY HAS STRANGE NUMB-ERS/CHARACTERS ON IT	The unit may be in a protection mode.
	The unit may be in a protection mode.
UNIT MAKING NOISES	Clicking, gurgling and whooshing noises are normal during the operation of unit.
WATER DRIPPING OUTSIDE	If a drain kit has not been installed, condensation runs off during very hot and humid weather is normal. See Note 2. If a drain kit has been installed and is connected to a drain system, check gaskets and fittings around drain for leaks and plugs.
WATER DRIPPING INSIDE	Wall sleeves are not at an installed level. Wall sleeves must be installed level for proper drainage of condensation. Check that installation is level and make any necessary adjustments.
ICE OR FROST FORMS ON INDOOR COIL	Low outdoor temperature. When the outdoor temperature is approximately 55ºF or below, Frost may form on the indoor coil when unit is in Cooling mode. Switch unit to FAN operation until ice or frost melts.
	The filters are dirty. Remove and clean filters.
COMPRESSOR PROTECTION	Power may have cycled, so compressor is in a restart protection. Random Compressor restart - Whenever the unit is plugged in or power has been restarted, a random compressor restart will occur. After a power outage, the compressor will restart after approximately 3 minutes. Compressor Protection - To prevent short cycling of the compressor, there is a random startup delay of 3 minutes, and a minimum compressor run time of 3 minutes.
ELECTRIC HEATING FAILURE	Clean the evaporator once every three months by professional people.

NOTES:

1. If circuit breaker tripped or fuse is blown more than once, contact a qualified electrician.
2. If a unit is installed where condensation drainage could drip in an undesirable location, an accessory drain kit should be installed and connected to drain system.

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