

BLACK+[®] DECKER

SPLIT AIR CONDITIONER

INSTRUCTION MANUAL

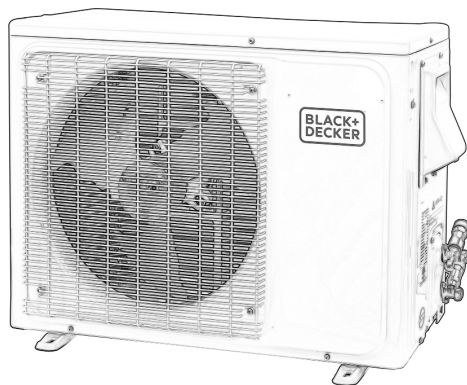
CATALOG NUMBER

BSAH1215AC

BSAH1220AC

BSAH1820AC

BSAH2420AC



Thank you for choosing BLACK+DECKER!

PLEASE READ BEFORE RETURNING THIS PRODUCT FOR ANY REASON.

If you have a question or experience a problem with your BLACK+DECKER purchase, go to www.blackanddecker.com/instantanswers

If you can't find the answer or do not have access to the Internet, call 844-299-0879 from 10:30 a.m. to 6:30 p.m. EST Mon. - Fri. to speak with an agent. Please have the catalog number available when you call.

SAVE THIS MANUAL FOR FUTURE REFERENCE.

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PRODUCT REGISTRATION

Thank you for purchasing our BLACK+DECKER product. This easy-to-use manual will guide you in getting the best use of your split AC.

Remember to record the model and serial numbers. They are on a label in the rear.

Model number

Serial number

Date of purchase

Staple your receipt to your manual.
You will need it to obtain warranty service.

SAFETY INFORMATION



DANGER

DANGER - Immediate hazards which **WILL** result in severe personal injury or death



WARNING

WARNING - Hazards or unsafe practices which **COULD** result in severe personal injury or death



CAUTION

CAUTION - Hazards or unsafe practices which **COULD** result in minor personal injury

IMPORTANT SAFETY INSTRUCTIONS



WARNING

When using electrical appliances, basic safety precautions should be followed, including the following:

- Read this guide before installing and using the appliance.
- **All electrical connections, wiring and installation should be performed by a licensed electrician. Otherwise, it may cause personal injury or damage.**
- This appliance is not intended for use by children without responsible adult supervision. Proper care should be taken to ensure safety.
- Heat pumps, air conditioners & heating equipment should be installed, started up, and serviced only by qualified installers and service technicians. Air conditioning, heat pumps and refrigeration systems are hazardous due to high voltage electrical components, high refrigerant pressures, and moving parts.
- Disconnect electrical power to the indoor and outdoor units before performing any maintenance or cleaning.
- Do not attempt to repair the system yourself. Incorrect repairs may cause electric shock or fire. Contact a qualified service technician for all service requirements.
- Keep combustible materials away from the unit.
- **DO NOT** share the electrical circuit with other appliances. Improper or insufficient power supply can cause fire or electrical shock.
- When connecting refrigerant piping, **DO NOT** let substances or gases other than the refrigerant enter the unit. The presence of other gases or substances will lower the unit's capacity, and may cause abnormally high pressure in the operation cycle. This may cause explosion and injury.
- **DO NOT** allow children to play with the air conditioner. Children should be supervised around the unit at all times.
- Installation must be performed according to installation instructions.

SAFETY INFORMATION

Improper installation may cause water leakage, electrical shock, fire, or may void the warranty.

- In North America, service or repair must be performed in accordance with the requirement of NEC and CEC (by authorized personnel or authority having jurisdiction only.) Contact an authorized service technician for repair or maintenance of the unit.
- Only use the included accessories and specified parts for installation. Using non-standard parts can cause water leakage, electrical shock, or fire and may cause the unit to fall.
- For all electrical work. Connect cables tightly, and clamp them securely to prevent external forces from damaging the terminal. Improper electrical connections may overheat causing fire and/or electrical shock.
- All wiring must be properly arranged to ensure that the control board cover can close properly. If the control board cover is not closed properly, it can lead to corrosion and cause the connection points on the terminal to overheat, causing fire and / or electrical shock.
- In certain functional environments, such as kitchens, server rooms, etc., the use of specially designed air-conditioning units is highly recommended.
- This appliance can be used by children aged 8 years and above and persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge if they have been given supervision or instruction concerning use of the appliance in a safe way and understand the hazards involved. Children should not play with the appliance. Cleaning and user maintenance should not be made by children without supervision.

SAVE THESE INSTRUCTIONS HOUSEHOLD USE ONLY

NOTE: Your actual air conditioning & heating system and related devices may differ from the images shown in this manual.

SAFETY INFORMATION

CAUTION

Please read the following before operation. Safety Rules and recommendations for the installer.

- Do not put hands or any objects into the air inlets or outlets. This may cause personal injury or damage to the unit.
- When cleaning, be careful not to splash water on the unit. Doing this may cause electric shock or damage to the unit.
- Do not use or place any flammable, combustible or noxious substance next to the unit.
- In the event of a failure (burning smell, etc.), immediately disconnect all electrical power to indoor and outdoor units.
- Never try repairing the system yourself; contact a qualified service technician for all repairs.
- During the installation of the indoor and outdoor units, access to the working area should be off limits to children. Unforeseeable accidents can occur.
- Make sure that the base of the outdoor unit is securely installed and stable before use.
- Check that air cannot enter the refrigerant system and check for refrigerant leaks when moving the air conditioner.
- Do not install the appliance closer than 50cm from flammable substances (alcohol, etc.) or pressurized containers(e.g. spray cans).
- If the appliance is used in areas without the possibility of ventilation, precautions must be taken to prevent any leaks of refrigerant gas from remaining in the environment to avoid creating a fire hazard.
- The packaging materials are recyclable and should be disposed of in separate waste bins. The air conditioner itself must be taken to a special waste collection center for proper disposal.
- Only use the air conditioner as instructed in this booklet. These instructions are not intended to cover every possible condition or situation. As with only electric household appliance, common sense and caution are therefore always recommended for installation, operation, and maintenance.
- The appliance must be installed In accordance with NEC and local codes.
- Before accessing the terminals, all the power circuits must be disconnected from the power supply.
- Do not try to install the air conditioner alone; always contact trained, experienced personal.

SAFETY INFORMATION

- Cleaning and maintenance must be carried out by a trained and experienced individual or technician. Make sure to disconnect the appliance from the main's electrical supply prior to cleaning or maintenance of the unit.
- Never remain directly exposed to the flow of cold air for extended periods. Direct and prolonged exposure to cold air could be dangerous to your health.
- Particular care should be taken in rooms where there are children, elderly, or sick individuals.
- If the appliance gives off smoke or there is a burning smell, immediately disconnect the power supply and contact the Service Center. Prolonged use of the device afterward could cause fire or electrocution.
- Have repairs or maintenance carried out only by licensed mechanical contractor. Incorrect repair could expose the user to risk of electric shock, fire hazard, etc..
- The air conditioner itself must be taken to a special waste collection center for proper disposal.
- This appliance has been made for air conditioning domestic environments and must not be used for any other purpose, such as for drying clothing, cooling food, etc..
- Always use the appliance with the air filter mounted. The use of the conditioner without the air filter could cause an excessive accumulation of dust or waste on the inner parts of the device with possible subsequent failures.
- The user is responsible for having the appliance installed by a licensed mechanical contractor.
- Disable automatic functions if you foresee not using the device for an extended period of time. The air flow direction must also be properly adjusted.
- Check all building codes for applicable building permits or requirements.
- Only use the air conditioner as instructed in this manual. These instructions are not intended to cover every possible condition or situation.
- Ensure that the appliance is disconnected from the power supply when it will not be in operation for an extended period and before carrying out any cleaning or maintenance.
- Do not use extension cords.
- Do not touch the appliance when barefoot or parts of the body are wet or damp.
- Do not obstruct the air inlet or outlet of the indoor or outdoor units. Obstruction of these openings causes a reduction in the operating efficiency of the air conditioner and can lead to consequent failures or damages.

SAFETY INFORMATION

- Do not alter the characteristics of the appliance in any way.
- Do not install the appliance in environments where the air could contain gas, oil or sulphur or near sources of heat.
- 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.
- Do not climb onto or place any heavy or hot objects on top of either the indoor or outdoor unit.
- Do not leave windows or doors open for long when the air conditioner is in operation.
- Do not direct the flow of cold air onto plants or animals. Prolonged direct exposure to cold air produced by the air conditioner could have negative effects on plants and animals.
- Do not put the air conditioner in contact with water. The electrical insulation could be damaged and lead to electrocution.
- Never insert a stick or similar object into the appliance. Such misuse can lead to injury or damage to the operation of the units.
- Children should be supervised to ensure that they do not play with the appliance.
- **DO NOT** install the unit in a location that may be exposed to combustible gases. If combustible gas accumulates around the unit, it may cause fire.
- **DOT NOT** operate your air conditioner in a wet room such as a bathroom or laundry room. Too much exposure to water may cause electrical components to short circuit.
- **DO NOT** operate the air conditioner with wet hands. This may cause electrical shock.
- **DO NOT** climb onto or place objects on top of the outdoor unit.
- The product must be properly grounded during installation, or electrical shock may occur.
- Install drainage piping according to the instructions in this manual. Improper drainage may cause water damage to your home and property.

SAFETY INFORMATION

OPERATING CONDITIONS

- Within the temperature range provided in following table, the air conditioner may stop running and other anomalies may arise.

Cooling	Outdoor	> 109.4°F (Apply to T1)
		> 125.6°F (Apply to T3)
	Indoor	< 64.4°F
Heating	Outdoor	> 75.2°F
		< 19.4°F
	Indoor	> 80.6°F

- When the temperature is too high, the air conditioner may activate the automatic protection device, so that the air conditioner could be shut down.
- When the temperature is too low, the heat exchanger of the air conditioner may freeze, leading to water leakage or other malfunction.
- In long-term cooling or dehumidification with a relative humidity of above 80% (doors and windows are open), there may be water condensation or dripping near the air outlet.

NOTES FOR HEATING

- The fan of the indoor unit will not start running immediately after the heating is started to avoid blowing out cool air.
- When it is cold and wet outside, the outdoor unit will develop frost over the heat exchanger which will compromise the heating capacity. This is when the air conditioner will start to defrost.
- During defrost, the air conditioner will stop heating for about 5-12 minutes. Vapor may come out from the outdoor unit during defrost. This is not a malfunction, but a result of fast defrost.
- Heating will resume after defrost is complete.

SET UP & USE

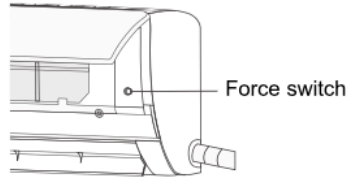
NOTE FOR TURNING OFF

- When the air conditioner is turned off, the main controller will automatically decide whether to stop immediately or after running for dozens of seconds with lower frequency and lower air speed.

NOTICES FOR USE

Emergency Operation

- If the remote control is lost or broken, use force switch button to operate the air conditioner.
- If this button is pushed with the unit OFF, the air conditioner will operate in Auto mode.
- If this button is pushed with the unit ON, the air conditioner will stop running.

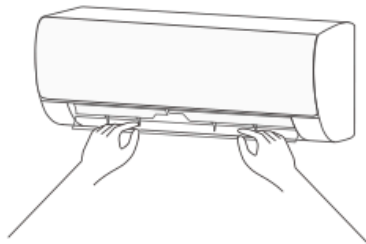


Airflow Direction Adjustment

- Use up-down swing and left-right swing, buttons on the remote control to adjust the airflow direction.
- For models without left-right swing function, the louvers have to be moved manually.

⚠ WARNING

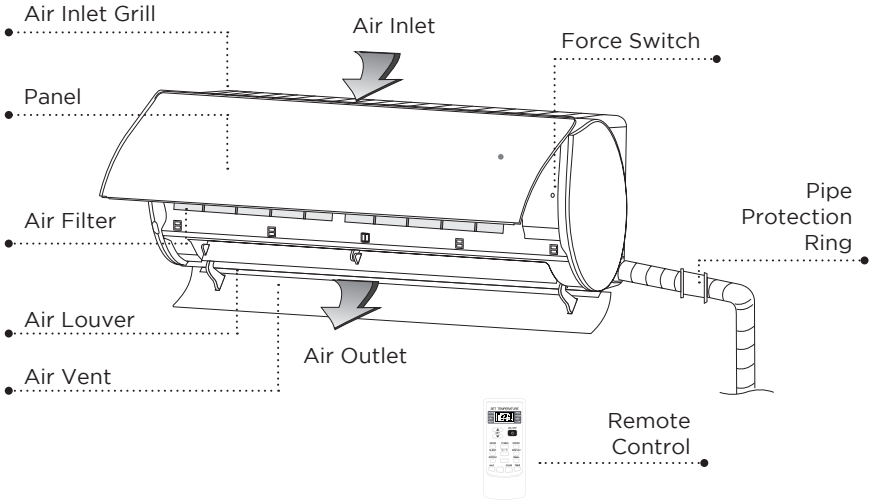
- Move the louvers before the unit is in operation, or your finger might be injured.
- Never place your hand into the air inlet or outlet when the air conditioner is in operation.



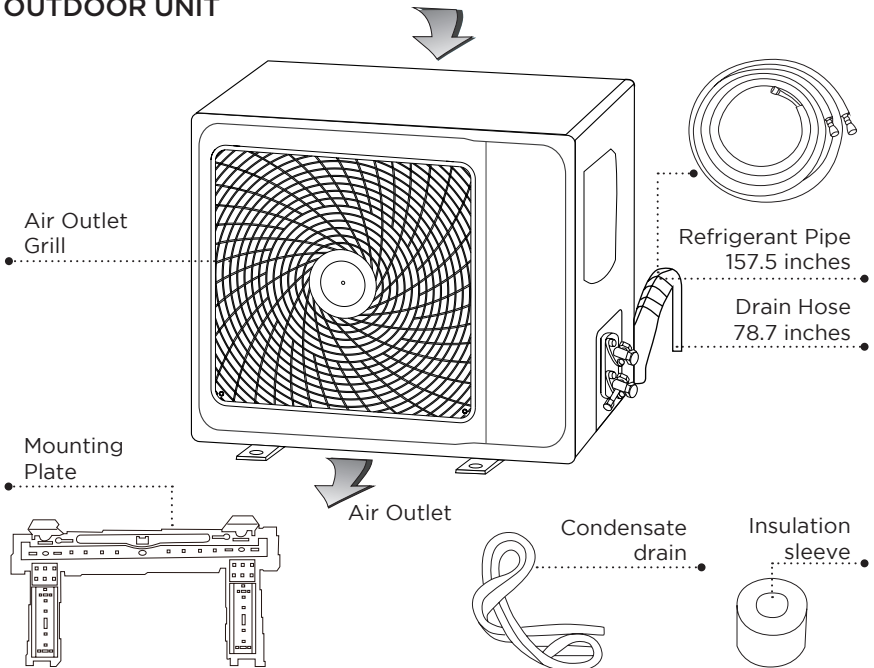
INSTALLATION INSTRUCTIONS

PARTS & FEATURES

INDOOR UNIT



OUTDOOR UNIT



INSTALLATION INSTRUCTIONS

NOTICES:

- A split system air conditioner is a great option for keeping your home cool and comfortable in the summer months. These units are also quieter, easier to install, and may be more energy efficient than some central air conditioning.
- This type of A/C is ductless, so all you have to do is install the cooling unit inside and the compressor and condenser unit outside, then run piping and a power cable between the units.
- A licensed electrician is recommended to install the wiring and perform all the electrical work.

⚠ WARNING - Building permits are required. Installation must be in accordance with NEC and other local codes.

- Each air conditioning unit is unique to its manufacturer, but the general installation process is the same.
- See rating label of outdoor unit for electrical service requirements.

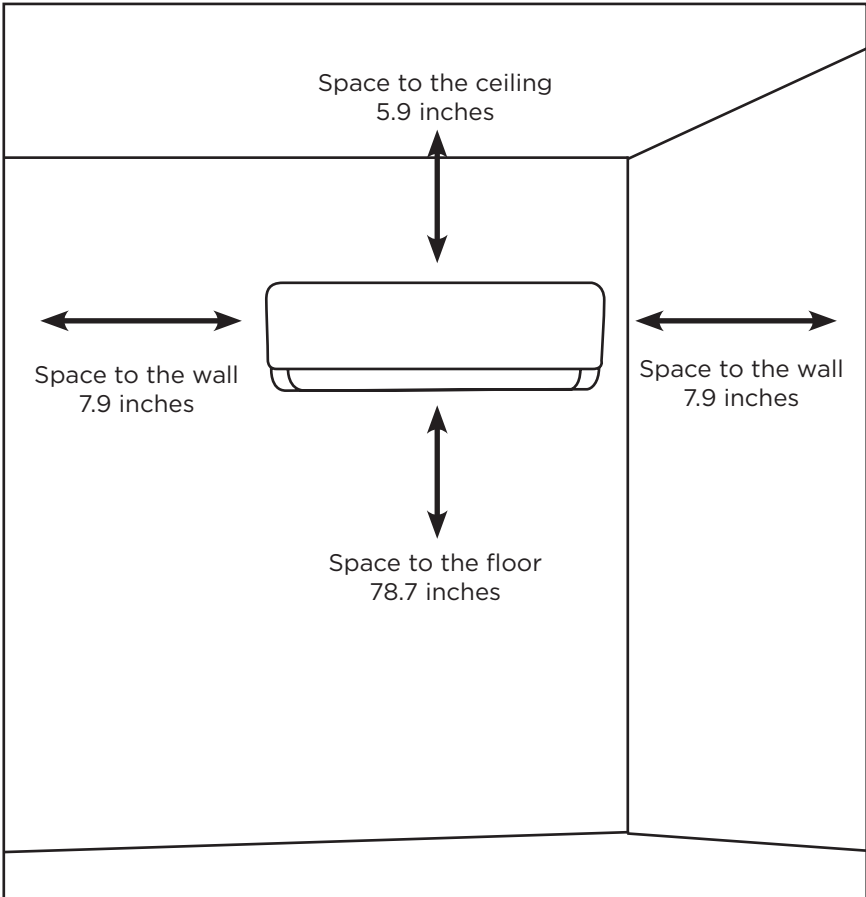
SUGGESTED TOOLS FOR INSTALLATION (Not included)

- Adjustable wrenches
- Electric or Manual Screwdriver
- Hole saw
- Tape measure
- Power drill
- Hammer
- Wall anchors and screws
- Insulated tape
- AAA batteries

NOTE: Save Instructions for future reference.

INSTALLATION INSTRUCTIONS

INDOOR UNIT INSTALLATION



1. Select an unobstructed location on your interior wall to mount the indoor unit.

- You'll need to cut a hole through the wall to feed the pipes from the indoor unit to the outdoor unit, so make sure the location you choose will allow you to do so. Choose a spot away from direct sunlight.

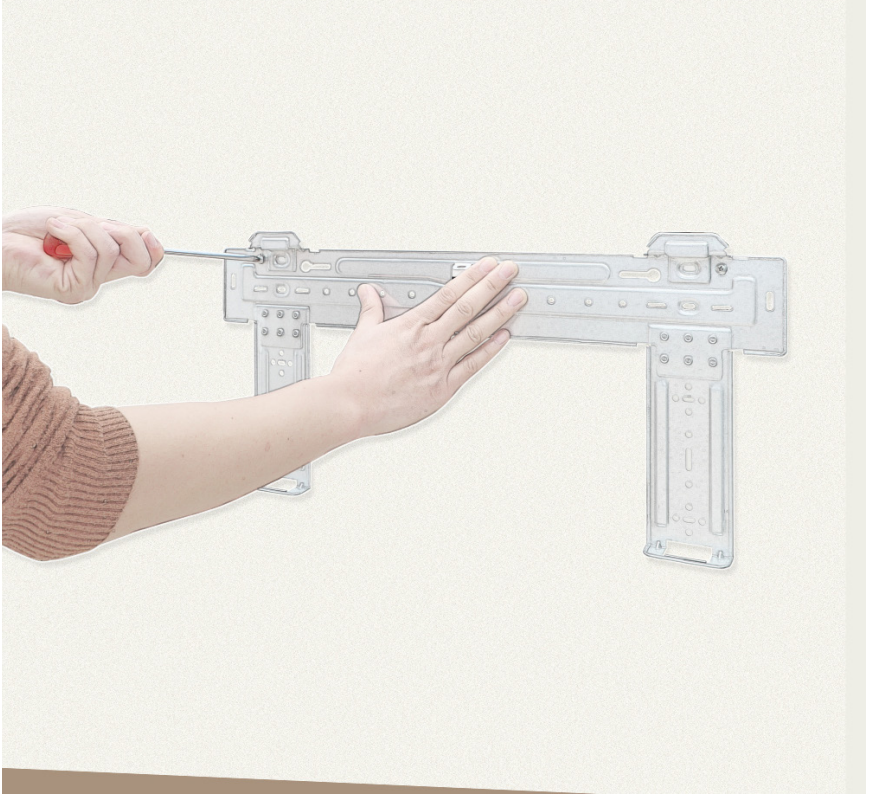
INSTALLATION INSTRUCTIONS

⚠ CAUTION

- Choose a location with studs to ensure the wall is strong enough to hold the weight of the unit.
- Install the unit at least 3.3 feet (1.0 m) away from antennas and power or connecting lines that are used for television, radio, home security systems, intercoms, or telephones. The electrical noise from these sources could cause operational problems for your air conditioner.
- Avoid locations where gas may leak or where oil mist or sulfur exists.
- These units have remote controls so that you can easily turn them on or off and adjust the temperature even if they're mounted high on the wall.

Tip: Choose a central location for the indoor unit where the cool air can easily flow through your home, such as in the living room.

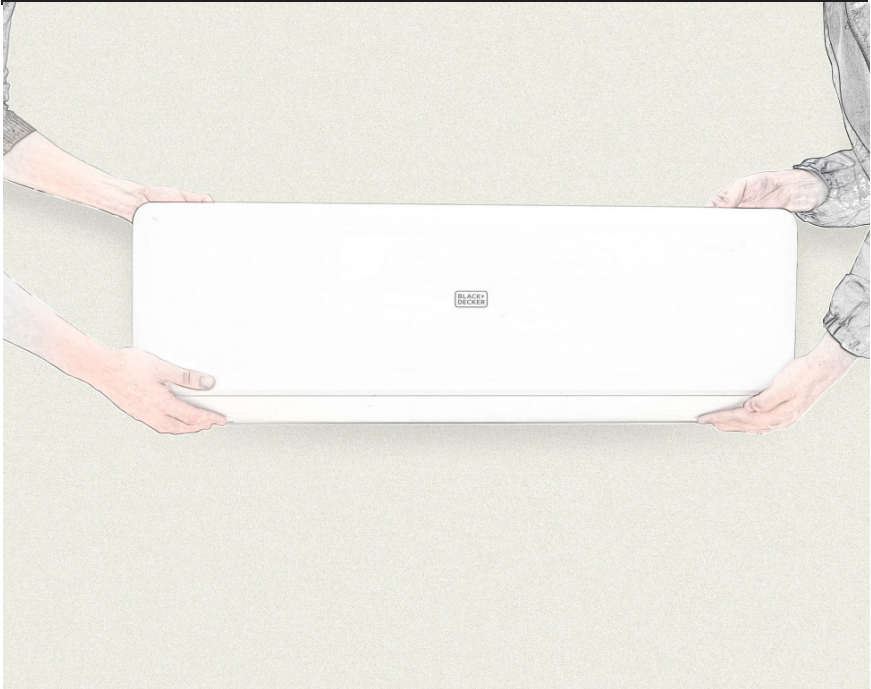
INSTALLATION INSTRUCTIONS



2. Secure the mounting plate to the interior wall.

- Hold the mounting plate against the wall where you want to install the indoor unit. Use a level to make sure it is both horizontally and vertically level. Use a pencil to mark the locations of the screw holes, remove the plate, then drill a hole into the wall where each screw will go.
- Position the plate so it matches up with the holes, insert anchors into the holes, and secure the plate to the wall with tapping screws (not included). It is recommended that the bracket is secured to framing members (studs) to ensure adequate mounting.

INSTALLATION INSTRUCTIONS

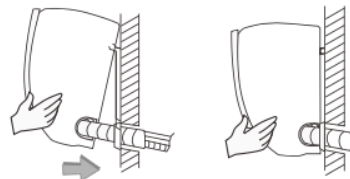


3. Secure the indoor unit to the mounting plate.

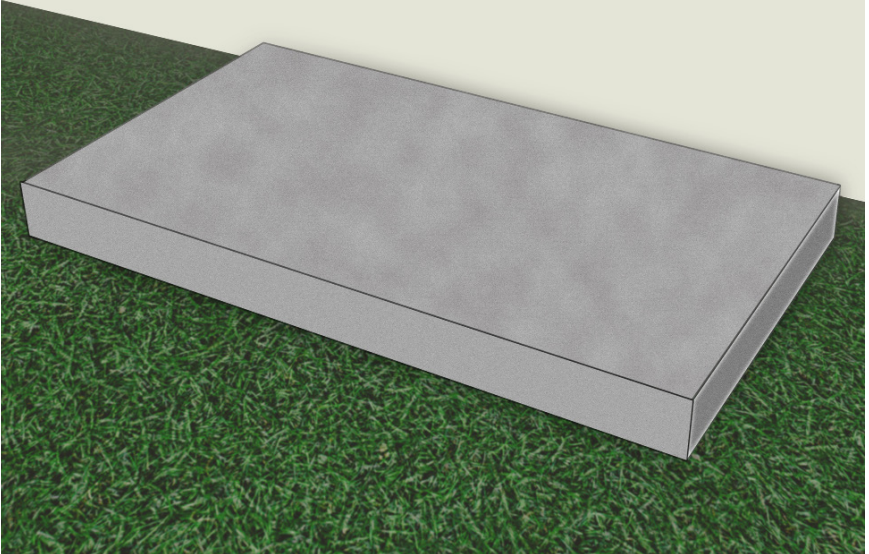
- To attach the air conditioner to the wall, simply align the female connections on the back of the unit with the male connections on the mounting plate and press firmly to secure the unit in place. Make sure the unit tilts backward 2-3 degrees so that water can flow out of the drain hose.
- It may help to have a friend hold the unit in place while you secure the connections.

Fixing the Indoor Unit

- Hang the indoor unit on the mounting plate, and move the unit from left to right to ensure that the hook is properly positioned in the peg board.
- Push toward the lower left side and the upper right side of the unit toward the plate, until the hook is embedded in the slot and makes a “click” sound.



INSTALLATION INSTRUCTIONS

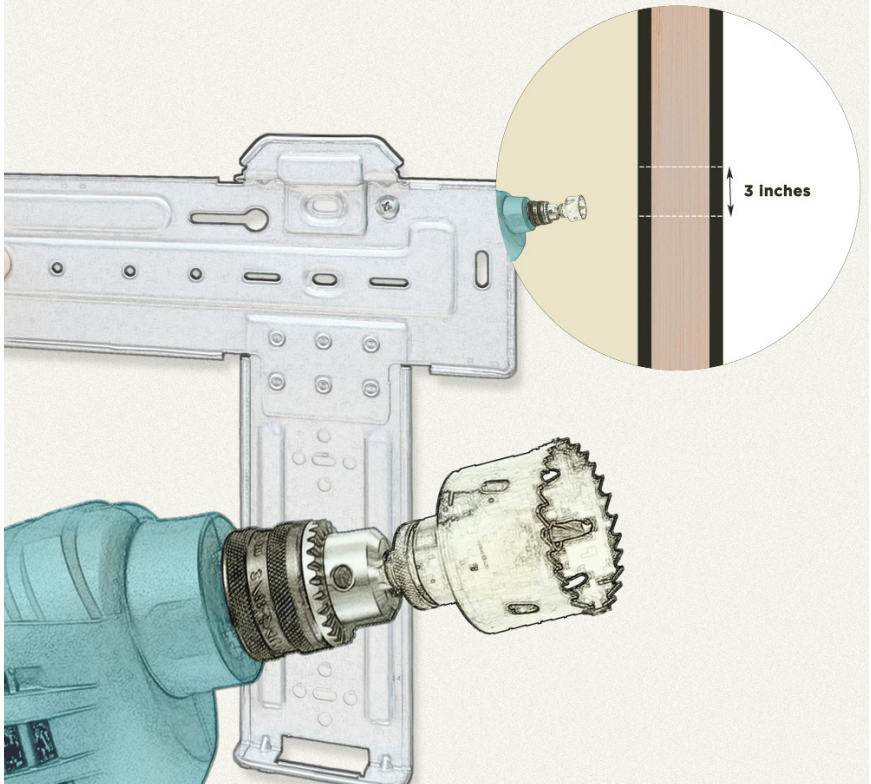


4. Lay a concrete pad on the ground.

- Don't place the outdoor unit directly on the ground, as it's heavy and can shift around on dirt or rocks.

Tip: Situate the concrete pad so that it's high enough to keep the unit out of any water that may puddle on the ground due to rain or snow.

INSTALLATION INSTRUCTIONS



5. Drill a 3 in. (7.6 cm) hole through the wall so you can feed the refrigerant lines and condensate drain hose outside.

- Make a mark in the center of the hole in the mounting plate. Use a keyhole saw or a drill with a hole-cutting attachment to create a circular 3 in. (7.6 cm) opening through the wall that slopes slightly downward toward the ground to ensure adequate drainage.

⚠ WARNING - Make sure there are no pipes or wires behind the wall before drilling or cutting the hole.

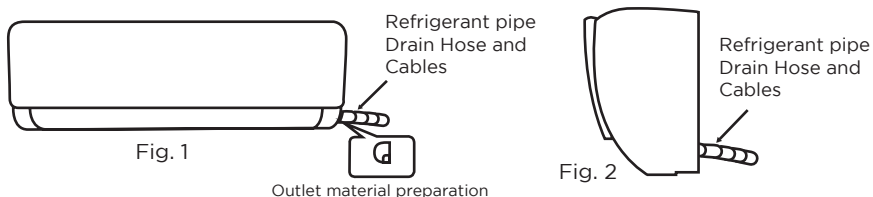
INSTALLATION INSTRUCTIONS

6. Check the electrical connections on the indoor unit.

Route of Pipeline

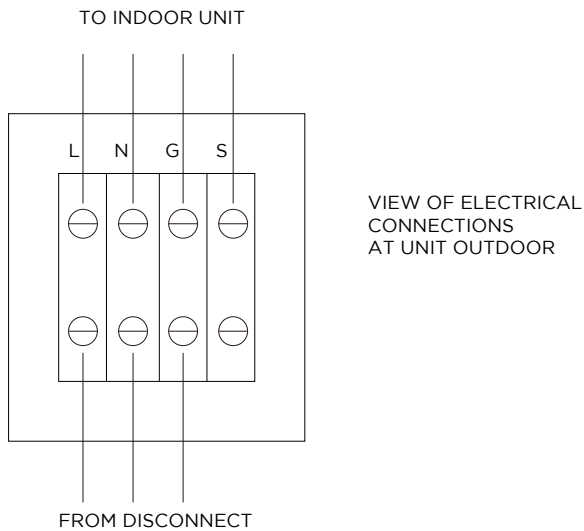
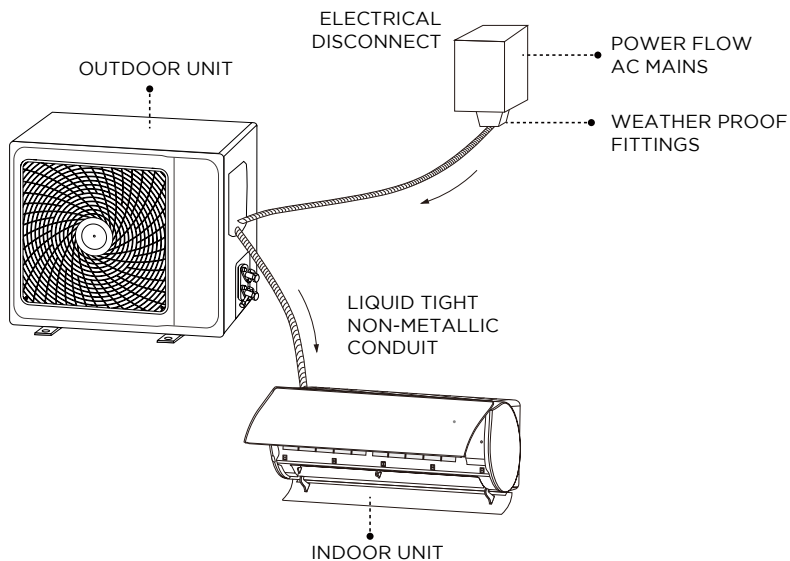
- Depending on the position of the unit, the piping may be routed sideway from the left or the right (Fig. 1), or vertically from the back (Fig. 2) (depending on the pipe length of the indoor unit). The indoor unit will draw it's power from the exterior unit. In the case of sideway routing, cut off the outlet cutting stock of the opposite side.

▲ WARNING - All exterior wiring must be in LFNC-B or equivalent in accordance with NEC requirements.



▲ WARNING - All interior wiring must be compliant articles 200-300 of NEC.

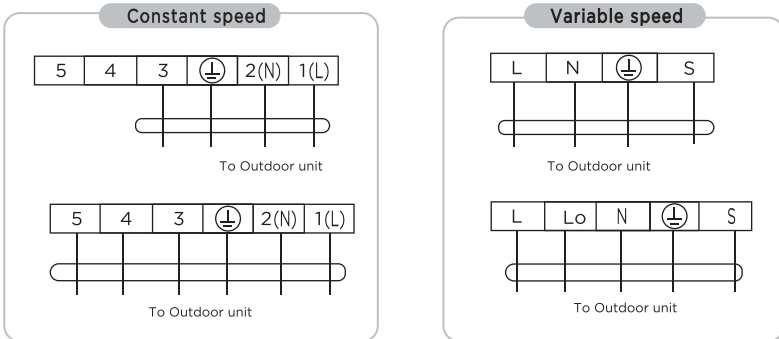
INSTALLATION INSTRUCTIONS



INSTALLATION INSTRUCTIONS

Wiring Diagram

- Connection is needed in accordance with the wiring diagram.



Connector



If there is a connector, connect it directly.

NOTE:

- This manual usually includes the wiring mode for the different kinds of A/C. We cannot exclude the possibility that some special type of wiring diagrams are not included.
- The diagrams are for reference only. If the entity is different than this wiring diagram, please refer to the detailed wiring diagram adhered on the unit which you purchased. (Inside of exterior wiring cover)
- **See wiring diagram on inside of e-parts cover for your specific model.**

INSTALLATION INSTRUCTIONS

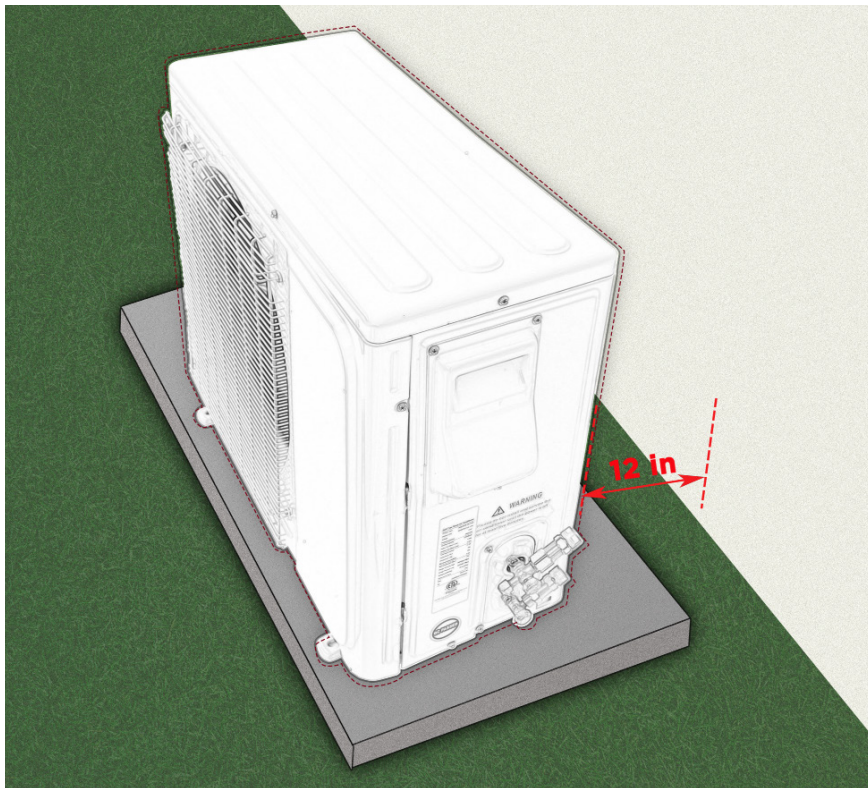


7. Run the refrigerant lines and drain hose through the hole in the wall.

- Then secure them to the designated spots on the indoor unit.
- Place the drain hose on the bottom to ensure a free flow of water.
- Each line comes pre-insulated, so you don't have to worry about adding extra insulation, then connect them to the unit.
- Secure the included copper pipes, and drain hose together with electrical tape.
- Do your best to minimize how much the pipes and cable bend to ensure that the unit performs well.
- Make sure that the drainage pipe allows water to drain in an appropriate place.

INSTALLATION INSTRUCTIONS

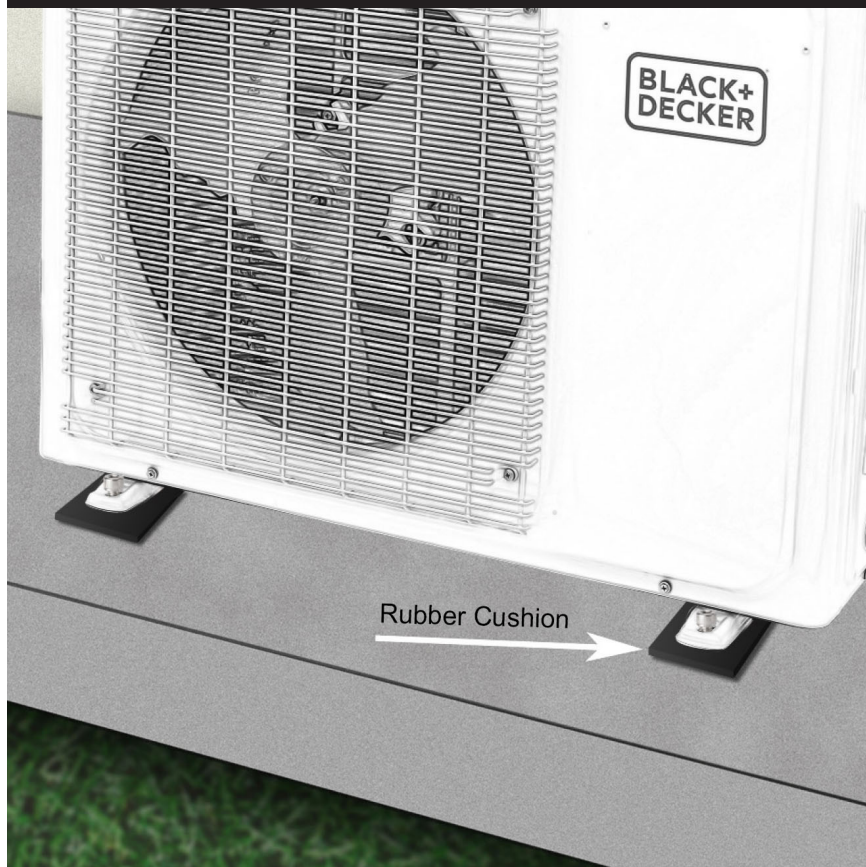
OUTDOOR UNIT INSTALLATION



1. Position the outdoor unit away from any heavily trafficked, dusty, or hot areas.

- Find the hole you drilled through the mounting plate for the interior unit and position the exterior unit within 50 feet (15 m) so the piping and cable can easily be attached. Choose a location with at least 12 inches (30 cm) of space surrounding its perimeter to ensure proper functioning. If possible, select a shady location that's sheltered from the wind in addition to dust and traffic to keep your unit functioning at its best.
- Make sure that no antenna of a radio or television is within 10 feet (3.0 m) of the outdoor condenser.

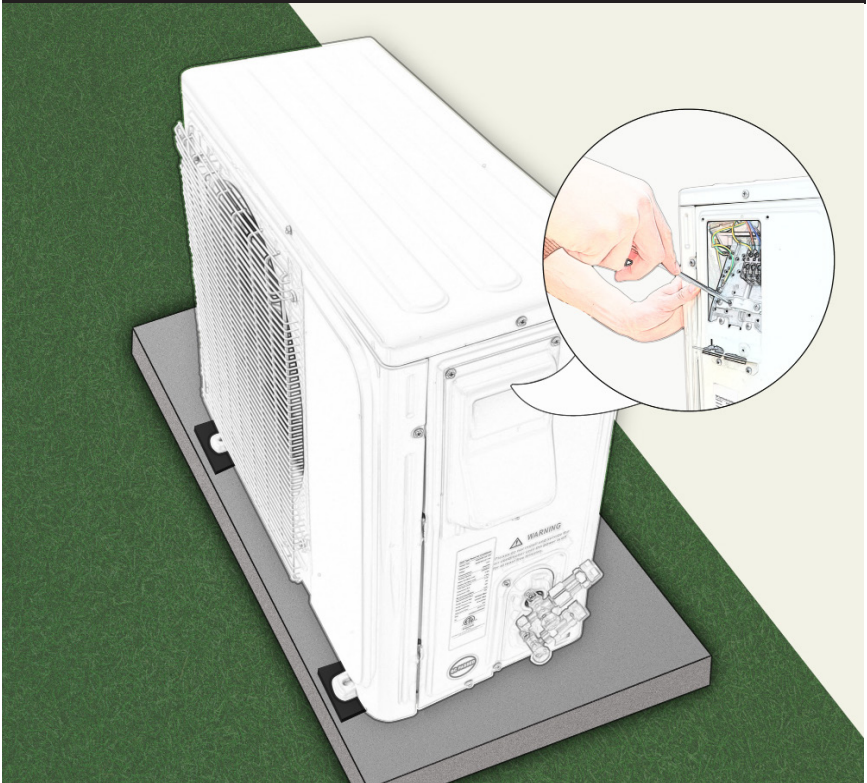
INSTALLATION INSTRUCTIONS



2. Secure the outdoor unit on top of the concrete pad.

- Lay a rubber cushion (Not included) on top of the pad to minimize vibration, then set the outdoor condenser unit on top of the pad. Secure the unit to the concrete with anchor bolts.

INSTALLATION INSTRUCTIONS



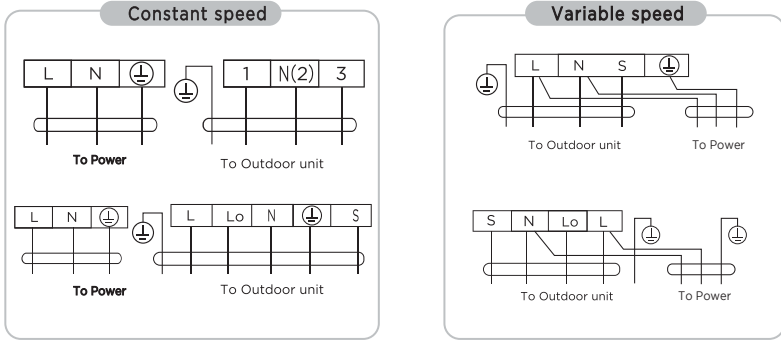
3. Wiring electrical unit.

⚠ WARNING - All electrical connections, wiring and installation should be performed by a licensed electrician. Otherwise, it may cause personal injury or damage.

- Electrician shall read rating plate for proper circuit breaker and conductor size.
- The use of suitable conductors is recommended.
- It is also recommended that the conductors terminate with UL listed closed loop ring terminals or spade terminals. The small terminal black screws may not accommodate solid conductors without terminals.

INSTALLATION INSTRUCTIONS

Wiring Diagram



Connector

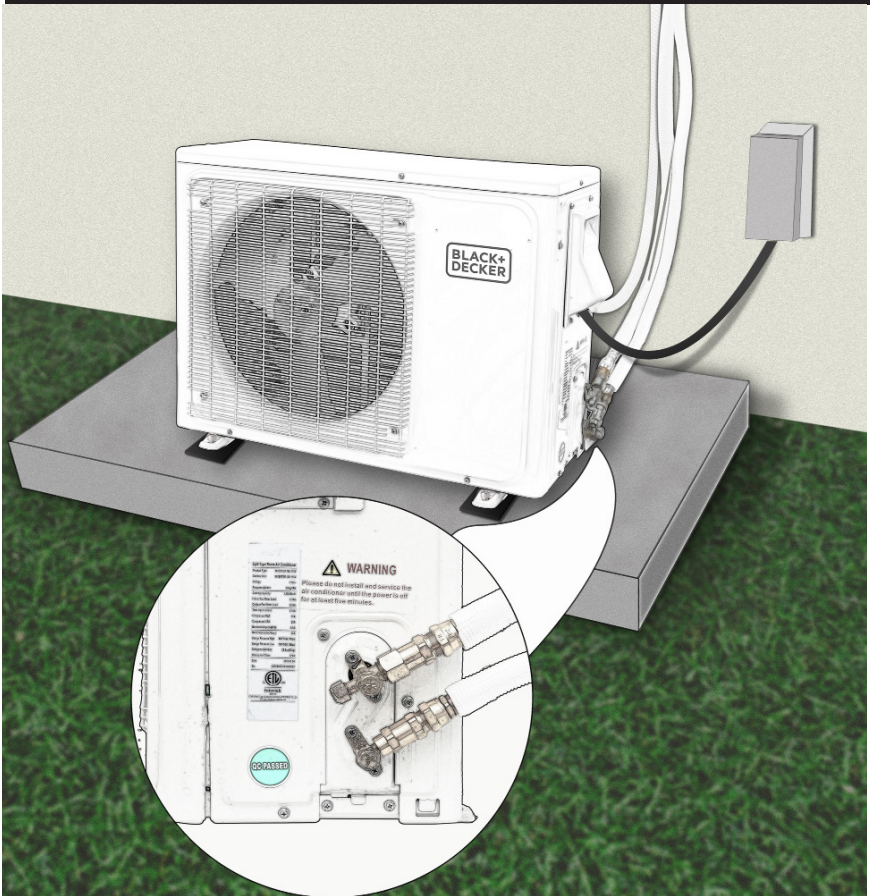


If there is a connector, connect it directly.

NOTE:

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- The diagrams are for reference only. If the entity is different than this wiring diagram, please refer to the detailed wiring diagram adhered on the unit which you purchased.
- See wiring diagram on inside of e-parts cover for your specific model.

INSTALLATION INSTRUCTIONS



4. Connect the refrigerant lines and electrical power to the outdoor unit.

- Use flare nuts to secure the refrigerant lines from the indoor unit to the outdoor unit as per manual. Make all electrical connections as well.

INSTALLATION INSTRUCTIONS

INSTALL THE REFRIGERANT PIPE (the unit with the quick connectors)



NOTE: All the illustrations in this manual are for explanation purpose only. Your air conditioner may be slightly different. The actual shape shall prevail. They are subject to change without notice for future improvement.

Connecting the Refrigerant Pipe to Indoor Unit

- Do not remove the plastic seals from the indoor equipment and the appropriate refrigerant pipe until immediately before you connect them.
- Align the refrigerant pipes correctly, make sure the dimensions of the connecting the refrigerant pipe are the same. Place the screw connector on the refrigerant pipes just on to the thread on the indoor equipment and tighten the first few threads by hand. See Fig. 1.

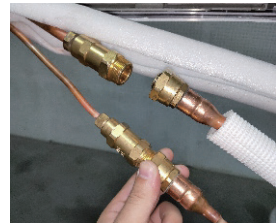


Fig.1

- **CAUTION** - Before you continue, it is essential that read the following instructions carefully.
- Hold the points marked “①” using an open-ended spanner and turn the nuts only at the points marked “②” using an open-ended spanner (Select the appropriate spanner according to the dimensions of the connector). See Fig.2.
- Ensure that the screw connectors do not skew as you tighten them and work quickly.

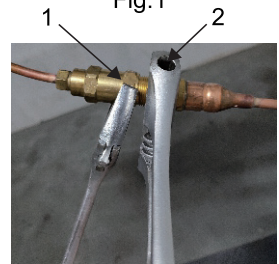


Fig.2

- **CAUTION** - Since the coupling works with tapping rings, it may leak if you undo and reconnect the pipes. This will also void the warranty.
- After finishing the connection, use the tape to wrap the refrigerant pipe and connecting cable together. See Fig.3.

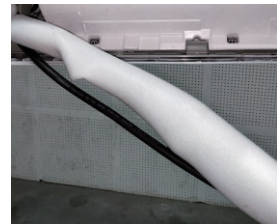


Fig.3

INSTALLATION INSTRUCTIONS

- After finishing connecting the couple of the quick connectors, pass drain hose and the refrigerant pipes through the wall hole.

NOTE: The quick connector parts must be placed outside of room. Using wall hole sleeve, cap and neoprene to seal the wall hole.

- In order to prevent the quick connector parts from being exposed in the air, the sound deadening pads are supposed to be used during installation, see Fig. 4.
- Wrap up the quick connectors with the sound deadening pads, pack down the pads solid as tightly as shown in Fig. 5.
- At last, use the tape to wrap the connection pipe and connecting cable together.

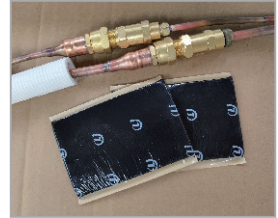


Fig.4

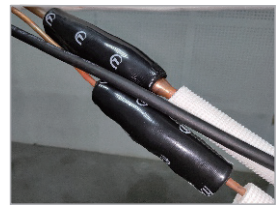


Fig.5

Connecting the Refrigerant Pipe to Outdoor Unit

▲ CAUTION - For your safety, always wear goggles and work gloves when connecting the pipes.

- The outdoor unit as shown in Fig.6.
- Do not remove the plastic seals from the outdoor unit and the appropriate the refrigerant pipes until immediately before you connect them, Fig.7.



Fig.6



Fig.7

INSTALLATION INSTRUCTIONS

- Align the refrigerant pipes correctly so that they line up with the valves and are not stressed. Place the screw connector on the refrigerant pipes just on to the thread on the outdoor unit and tighten the first few threads by hand, Fig. 8.

NOTE: The refrigerant pipes must be connected to the valves on the outdoor unit with as little stress as possible.

⚠ CAUTION - Before you continue, it is essential that you read the following instructions carefully.

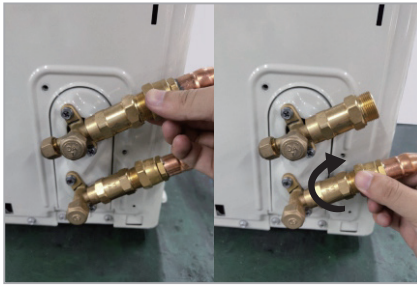


Fig.8

- Now tighten the bottom screw connector first and then the top screw connector using the open-ended spanner. Hold the points marked “①” using an open-ended spanner and turn the nuts only at the points marked “②” using an open-ended spanner (Select the appropriate spanner according to the dimensions of the connector). see Fig. 9.

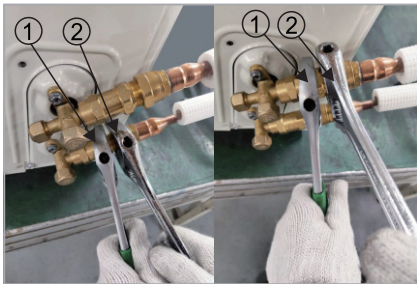


Fig.9

Ensure that the screw connectors do not skew as you tighten them and work quickly. See the table for the proper torque.

Coupling size (last 2 part numbers)	Pound-force foot (1bf-ft)	Newton meter (N•m)	Kilogram-force meter(kgf•m)
06(9.5mm dash size)	18-20	24.4-27.1	2.4-2.7
08(12.7mm dash size)	30-35	40.6-47.4	4.1-4.8
12(19.1mm dash size)	45-50	61.0-67.7	6.2-6.9
16(25.4mm dash size)	60-65	81.3-88.1	8.2-8.9

INSTALLATION INSTRUCTIONS

IMPORTANT: Since the coupling works with tapping rings, it may leak if you undo and reconnect the pipes. This will also void the warranty. After completing steps 1-4, check that all the connections are sealed correctly using leak detection spray or soap suds. If any bubbles form, the system has a leak and the screw connectors must be re-tightened using an open-ended spanner.

- Now remove the cover on the bottom valve using an open-ended spanner. Open the valve by turning it counter-clockwise as far as it will go using a 5 mm Allen key. The valve is now open. Screw the cover back on to the bottom valve and tighten it well to ensure that it is properly sealed. See Fig. 10.

NOTE: If the valve is not opened fully, the system may malfunction and suffer damage.



Fig.10

- Now remove the cover on the top valve using an open-ended spanner. Open the valve by turning it counter-clockwise as far as it will go using a 5 mm Allen key. The valve is now open. Screw the cover back on to the top valve and tighten it well to ensure that it is properly sealed. See Fig. 11.

NOTE: If the valve is not opened fully, the system may malfunction and suffer damage.

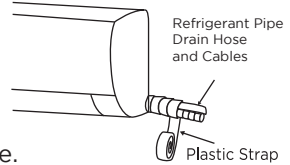


Fig.11

INSTALLATION INSTRUCTIONS

Wrap the Piping

1. Use the insulation sleeve to wrap the joint part the indoor unit and the refrigerant pipe, and then use the insulating material to pack and seal insulation pipe, to prevent generation of condensate water on the joint part.
2. Connect the water outlet with drain hose, and make the refrigerant pipe, cables, and the drain hose straight.
3. Use plastic cable ties to wrap the refrigerant pipes, cables and drain hose. Run the pipe sloping downward shown in the following table.



⚠ CAUTION - The conical ring on the valve has an important sealing function together with the sealing seat in the caps. Ensure that you do not damage the cone and that you keep the cap free of dirt and dust.

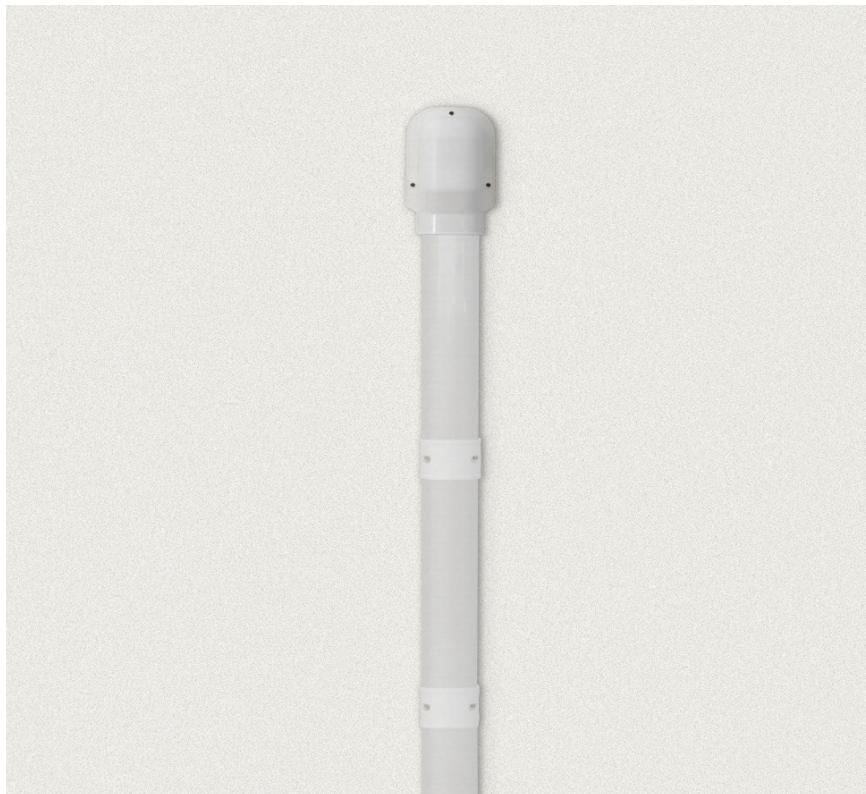
- After completing steps 1-6, check that all the connections are sealed correctly using leak detection spray or soap suds. If any bubbles form, the system has a leak and the screw connectors must be retightened using an open-ended spanner.
- Start the equipment so that the operating pressures build up inside it. Check all the connectors again for signs of leaks: (a) during cooling mode. (b) in heating mode. If any bubbles form, the system has a leak and the screw connectors must be re-tightened using an open-ended spanner.

IMPORTANT: The unit with the quick connectors does not require vacuum pumping.

Market Sampling Test Guidelines

Pressure-maintaining refrigerant is available in the indoor equipment and the refrigerant pipe (Different models have different refrigerant quantities). The installer must use the original refrigerant pipe.

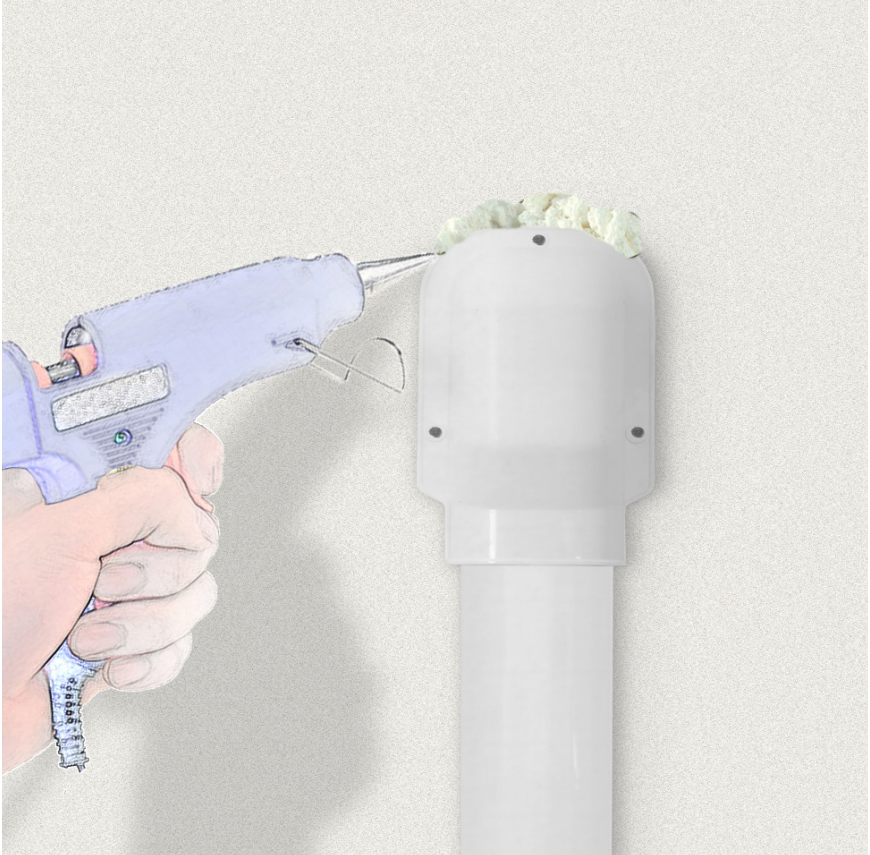
INSTALLATION INSTRUCTIONS



5. Affix the piping to the wall with clamps (Not included)

- To ensure the pipes and cables don't move around or become disconnected, attach them to the exterior wall of your home using clamps (not included).

INSTALLATION INSTRUCTIONS



6. Seal up the hole in the wall using expanding polyurethane foam.

- Spray expanding polyurethane foam into the hole you drilled to feed the cable and piping through the wall. Make sure the hole is completely sealed to prevent hot air or insects from getting through.
- Let the foam dry as per the instructions on the label before turning on your air conditioning.

INSTALLATION INSTRUCTIONS



7. Turn on the unit and enjoy the cool air!

- All that's left to do is to start the A/C, which you can do from the indoor unit. It should only take a minute or 2 for cool air to start blowing into your home.

REMOTE CONTROL INSTRUCTIONS

CAUTION

- Before first time use of the remote control, install the batteries and ensure that the “+” and “-” poles are correctly positioned.
- Ensure the remote control is pointed to the signal receiving window, and that there is no obstruction in between and the distance is 8m at the maximum.
- Do not let any liquid in the remote control.
Do not expose the remote control directly to the sunlight or excessive heat.
- If the remote control does not work normally, remove the batteries for 30 second before reinstalling them. If that doesn't work, replace the batteries.
- When replacing the batteries, do not mix the new batteries with old ones or mix batteries of different types, which could cause failure of the remote control.
- If the remote control is not to be used for a long period of time, remove the batteries first, lest the leakage from them may damage the remote control.
- Properly dispose the discarded batteries.

NOTE: This is a universal remote control. Please understand that some of the buttons may not function, depending on the specific air conditioner you have purchased. (If a specific function is not available on the air conditioner, pressing the corresponding button will simply have no response.)

REMOTE CONTROL INSTRUCTIONS

HANDLING ALKALINE BATTERIES

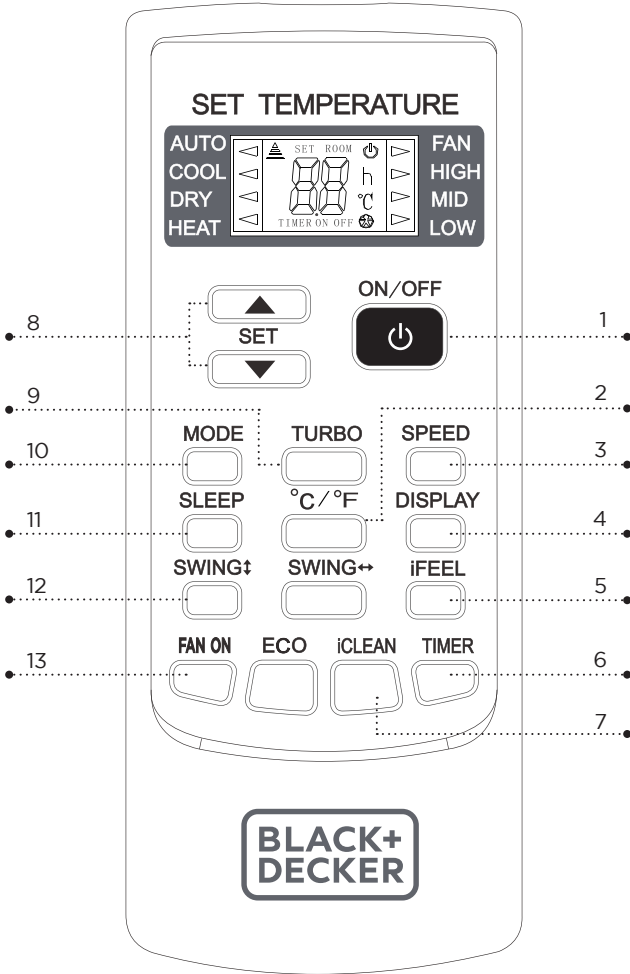
WARNING

When handling alkaline, basic safety precautions should be followed, including the following:

1. NEVER mix alkaline, standard (carbon-zinc), rechargeable (nickel-cadmium) batteries with this product.
2. Should fluid from the battery accidentally get into your eyes, there is a threat of loss of eyesight, do not rub them. Immediately rinse your eyes with clean tap water and then consult a physician immediately.
3. Do not put the battery in a fire expose it to heat dismantle or modify it. If the insulation or safety valve is damaged, the battery may leak fluid, overheat or explode.
4. Do not insert the battery with the poles reversed. Doing so may cause some abnormality or a short and the battery may leak fluid, overheat or explode.
5. Keep the battery out of the reach of children. If the battery is swallowed, contact a physician immediately.
6. If the alkali fluid gets in your mouth, rinse your mouth with water and contact a physician immediately.
7. If the alkali fluid gets on your skin or clothes, it may burn your skin, thoroughly rinse the affected area with tap water. If a chemical burn occurs or if irritation persists, seek medical attention.
8. Do not mix new and old batteries or other makes of batteries. The different attributes may cause the battery to leak fluid, overheat or explode.
9. This battery was not made to be recharged. Recharging this battery may damage the insulation or internal structure and may cause the battery to leak fluid, overheat or explode.
10. Do not damage or remove the label on the exterior of the battery. Doing so may cause the battery to short, leak fluid, overheat or explode.
11. Do not drop, throw or expose the battery to extreme impact. Doing so may cause the battery to leak fluid, overheat or explode.
12. Do not alter the shape of the battery. If the insulation or safety valve is damaged, the battery may leak fluid, overheat or explode.
13. Immediately remove batteries when they have lost all power. Leaving the batteries in the unit for a long time may cause the batteries to leak fluid, overheat or explode due to gas that is generated by the batteries.
14. Remove the batteries from the unit when not using the unit for an extended period of time. The batteries may leak fluid, overheat or explode due to gas that is generated by the batteries.
15. Do not apply solder directly to the batteries. The heat may cause the batteries to leak fluid, overheat or explode.
16. Do not get the batteries wet. Doing so may cause the batteries to overheat.
17. Store batteries someplace out of direct sunlight where the temperature and humidity are not high. Not doing so may cause the batteries to leak fluid, overheat or explode. Also, it may cause the life and performance of the batteries to decline.
18. Follow the regulations of the local government when disposing of these batteries.

SAVE THESE INSTRUCTIONS
HOUSEHOLD USE ONLY

REMOTE CONTROL INSTRUCTIONS



NOTE: The remote control displays all symbols during power-on and only those corresponding to current operation the rest of the time.

REMOTE CONTROL INSTRUCTIONS

1. ON/OFF

- Press this button to turn on/off the unit.
- This will clear the existing timer and SLEEP settings.

2. °C/°F

- Press this button to set the temperature display to Fahrenheit, which is displayed by default in Celsius. The “C” will not be displayed on the LCD.
- Press this button again to restore the temperature display to Celsius.

NOTE: Temperature display in Fahrenheit is not available for some models. When temperature is displayed in Fahrenheit on the remote control, it might be in Celsius on the unit, the function and operation of which will not be affected.

3. SPEED

- Press this button, you can select the fan speed as follows:



NOTE: AUTO air speed is not available in FAN mode.

4. DISPLAY

- Press this button to turn on/off the display. This is for the convenience of users who are unconformable sleeping with the backlight on.

5. iFEEL

- Press this button on the remote control to turn on the iFEEL function. The remote control has a temperature sensor built-in to sense its surrounding temperatures. The unit will adjust the room temperature based on the location of the remote control rather than the unit itself.

6. TIMER

- With the unit ON, press this button to set OFF timer or with it OFF to set ON timer.
- Press this button once, an “ON(OFF)” will flash. Press “▲” or “▼” to set the number of hours in which the unit will be turned ON/OFF, with an interval of 0.5 hour if less than 10 hours or 1 hour if longer than 10 hours, and a range of 0.5-24 hours.
- Press it again to confirm the setting the “ON (OFF)” will stop flashing.
- If the timer button is not pressed longer than 10 seconds after the “ON (OFF)” start flashing, the timer setting will be exited.
- If a timer setting is confirmed, pressing this button again will cancel it.

NOTE: When an ON timer is set, all function buttons (except SLEEP, DISPLAY, and iFEEL can't be set) are valid and when the ON time set is up, the unit will operate as preset.

REMOTE CONTROL INSTRUCTIONS

7. iCLEAN

- Press this button with the unit OFF, the remote control will display “CL” and the unit will automatically clean dust off the evaporator and dry it, to increase the cooling and heating efficiency.
- The iCLEAN function runs for approximately 30 minutes, during which if the unit is turned on with the remote control or this button is pressed again, the iCLEAN will be deactivated.

8. ▲ or ▼

- Each time the “▲” is pressed, the temperature setting will increase by 1°C and each time the “▼” is pressed, it will decrease by 1°C.
- The setting temperature of the remote control ranges from 16°C-32°C (60°F-90°F).

NOTE: The temperature cannot be set in AUTO or FAN mode, thus these two buttons are not functional.

9. TURBO

- Press this button only in COOL or HEAT mode to set TURBO on or off to speed up the cooling or heating.
- When TURBO is on, the air speed is HIGH.
- When TURBO is off, the air speed will restore to previous status.

10. MODE

- Press this button, you can select the running mode as follows:



NOTE: HEAT mode is not available for cool only units.

11. SLEEP

- Press this button to enter SLEEP mode, which the unit will exit after 10 hours of continuous operation and restore to the previous status.

NOTE: The SLEEP function cannot be activated in Fan mode.

12. SWING †

- Press this button to activate up/down swing and press it again to fix the swing position.

REMOTE CONTROL INSTRUCTIONS

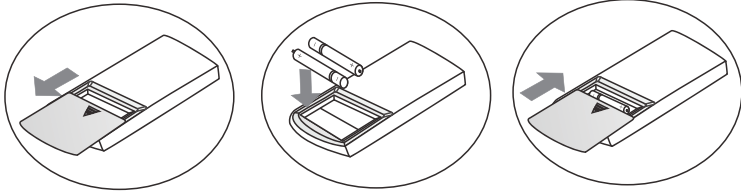
13. FAN ON

- The Fan On functions when the unit is turned off with the remote control in COOL, DRY, or AUTO mode. It will operate in HEAT mode (FAN mode for cool units only) with the internal fan running for additional time before stopping. On excessive hot and humid days, extra moisture is accumulated in the indoor Air Conditioner unit. The Fan On function will continue to run after the unit is shut off for an additional 3 minutes to help get rid of any accumulative moisture.
- This function is not set in the factory. You may set it or cancel it at any time you want as follows: With both the unit and remote control OFF, point the remote control at the unit and press the “Fan On” button once, the buzzer will sound 5 times, indication the function is on. Once set, this function will remain valid except when the unit is turned off or until it is cancelled.
- To cancel Fan On:
 1. Power off the unit.
 2. With both the unit and the remote control OFF, point the remote control at the unit and press the Fan On button once. The buzzer will sound 3 times indicating the function is cancelled.

NOTE: With Fan On activated, it is advised not to turn ON the unit again before it is fully OFF. Fan On function will be invalid when OFF timer is set.

REMOTE CONTROL INSTRUCTIONS

Battery Instructions



1. Slide to open the cover according to the direction indicated by the arrowhead.
2. Insert two brand new batteries (AAA, not included), and position the batteries to the right electric poles (+ & -).
3. Put the cover back on.

Automatic operation mode

1. Press the “MODE” button, select the automatic operation mode.
2. By the “SPEED” button, you can select the fan speed from LOW, MID, HIGH, AUTO.
3. Press the “ON/OFF” button the air-conditioner starts to operate.
4. Press the “ON/OFF” button again, the air-conditioner stops to operate.

NOTE: In the fan operation mode, the temperature settings is non-effective.

Cooling/Heating operation mode

1. Press the “MODE” button, select the Cooling or Heating operation mode.
2. By pressing the “▲” or “▼” button, you can set the temperature, the display changes as you touch the button.
3. By pressing the “SPEED” button, you can select the fan speed from LOW, MID, HIGH, AUTO.
4. Press the “ON/OFF” button, the air-conditioner starts to operate.
5. Press the “ON/OFF” button again, the conditioner stops.

NOTE: The cold wind type has no heating function.

REMOTE CONTROL INSTRUCTIONS

Fan operation mode

1. Press the “MODE” button select the fan operation mode.
2. By pressing the “SPEED” button, you can select the fan speed from LOW, MID, HIGH.
3. Press the “ON/OFF” button, the air-conditioner starts to operate.
4. Press the “ON/OFF” button again, the air-conditioner stops.

NOTE: In the fan operation mode, the temperature setting are non-effective.

Drying operation mode

1. Press the “MODE” button, select the drying operation mode.
2. By pressing the “▲” or “▼” button, you can set the temperature, the display changes as you touch the button.
3. By pressing the “SPEED” button, you can select the fan speed from LOW, MID, HIGH, AUTO.
4. Press the “ON/OFF” button, the air-conditioner starts to operate.
5. Press the “ON/OFF” button again, the air-conditioner stops.

Backlight function

- The remote control has a backlight which can be turned on by pressing any button for the convenience of operation in darkness. The backlight will be automatically turned off if there is no operation within 10 seconds.

TEST OPERATION

Check after Installation

Electrical Safety Check

1. If the supply voltage is as required.
2. If there is any faulty or misconnection in each of the power, signal and grounding wires.
3. If the grounding wire of the air conditioner is securely grounded.

Installation Safety Check

1. If the installation is secure.
2. If the water drain is smooth.
3. If the wiring and piping are correctly installed.
4. Check that no foreign matter or tools are left inside the unit.

Leak test of the refrigerant

Depending on the installation method, the following methods may be used to check for suspect leak, on areas such as the four connections of the outdoor unit and the cores of the cut-off valves and t-valves:

1. Bubble method: Apply or spray a uniform layer of soap water over the suspected leak spot and observe carefully for bubbles.
2. Instrument method: Checking for leak by pointing the probe of the leak detector according to the instruction to the suspect points of leak.

Test Operation

Test Operation preparation

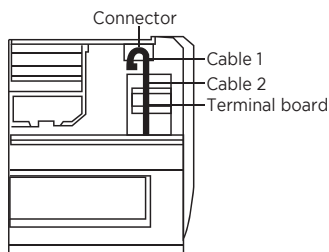
- Verify that all piping and connection cables are well connected.
- Confirm that the valves at the gas side and the liquid-side are fully open.
- Connect the power cord to an independent power socket.
- Install batteries in remote control.

Test Operation method

1. Turn on the power and push the ON/OFF switch button of the remote control to start the air conditioner.
2. Select COOL, HEAT(not available on cool-only models), SWING and other operation modes with the remote control and see if the operation is ok.

⚠ WARNING

1. Open front panel of the indoor.
2. The connector can not touch the terminal board, and is positioned as shown.



CLEAN & CARE

⚠ WARNING

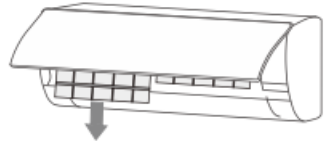
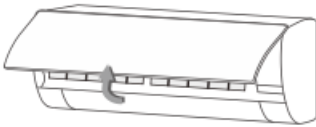
- Before the cleaning of the air conditioner, it must be shut down and the electricity must be cut off for more than 5 minutes, otherwise there might be the risk of electric shocks.
- Do not wet the air conditioner, which can cause an electric shock. Make sure not to rinse the air conditioner with water under any circumstances.
- Volatile liquids such as thinner or gasoline will damage the air conditioner housing, therefore please clean the housing of air conditioner only with soft dry cloth and damp cloth moistened with neutral detergent.
- In the course of usage, pay attention to cleaning the filter regularly, to prevent the covering of dust which may affect the effect. If the service environment of the air conditioner is dusty, correspondingly increase the number of times for cleaning. After removing the filter, do not touch the louver part of the indoor unit with the finger, so as to avoid scratching it.

Clean the Panel

- When the panel of the indoor unit is contaminated, clean it gently with a wrung towel using tepid water below 113°F and do not remove the panel while cleaning.

Cleaning the Air Filter

- Remove the air filter.



1. Use both hands to open the panel for an angle from both ends of the panel in accordance with the direction of the arrow.
2. Release the air filter from the slot and remove it.

- Clean the Air Filter

Use a vacuum cleaner or water to rinse filter, and if the filter is very dirty (for example with greasy dirt), clean it with warm water (below 113°F with mild detergent dissolved in, and then put the filter in the shade to dry in the air.



CLEAN & CARE

Clean the Air Filter

1. Reinstall the dried filter in reverse order of removal, then cover and lock the panel.



Check Before Use

1. Check whether all the air inlets and outlets of the units are unblocked.
2. Check whether there is blocking in the water outlet of the drain hose, and immediately clean it up.
3. Check that the ground wire is reliably grounded.
4. Check whether the remote control batteries are installed and whether the power is sufficient.
5. Check whether there is damage in the mounting bracket of the outdoor unit, and if any, please contact a local service center.

Maintain After Use

1. Turn off the power source of the air conditioner, turn off the circuit breaker and remove the batteries from the remote control.
2. Clean the filter and the unit body.
3. Remove the dust and debris from the outdoor unit.
4. Check whether there is damage in the mounting bracket of the outdoor unit, and if any, please contact a local service center.

TROUBLESHOOTING & WARRANTY

TROUBLE	POSSIBLE CAUSE
Air conditioner can not operate at all.	<ul style="list-style-type: none"> • Has the power been shut down? • Is the wiring loose? • Is voltage too high or too low ? (measured by professionals) • Does it reach the set time for start up? • Does the circuit protection device trip?
Remote control is not available.	<ul style="list-style-type: none"> • Is the remote control out of effective distance to the indoor unit? • Are there any obstructions between the controller and the signal receptor? • Is the battery exhausted?
Cooling (Heating) efficiency is not good.	<ul style="list-style-type: none"> • Is the setting temperature suitable? • Is the air inlet or outlet obstructed? • Is indoor fan speed set at low speed? • Is there any heat source in your room? • Is the air filter dirty?
Indoor unit does not operate Immediately when the air conditioner is restarted.	If the air conditioner is turned on immediately after it is turned off, the protective delay switch will delay the operation for 3 to 5 minutes.
There is unusual smell blowing from the outlet after operation is started.	The air conditioner itself does not have an undesirable odor. If there is an odor, it may be due to accumulation of the odor in the environment. Please clean the air filter or activate the cleaning function.
There is sound of running water during the running of air conditioner.	Sometimes the “hissing” sound of running water can be heard. This is the sound of the flow of the refrigerant, not a malfunction.
A slight “click” sound is heard at the of start-up or shut-down.	Due to temperature changes, panel and other parts will swell, causing the sound of friction. This is normal, not a fault.
During the cooling operation, the indoor unit outlet sometimes will blow out mist.	This is because the indoor air is cooled rapidly. After it runs for some time, the indoor temperature and humidity will be reduced and the mist will disappear.

⚠ WARNING - Immediately stop all operations and turn off the power supply, contact a Service center locally in following situations.

- Shrill sound is heard or an unpleasant odor is emitted during the operation.
- There is an abnormal heat in power supply cord and power plug.
- Accidentally pour impurities or water into the machine or the remote control.
- Air switch or protection switch often breaks.

TROUBLESHOOTING & WARRANTY

BEFORE YOU CALL FOR SERVICE

IF THE AIR CONDITIONER FAILS TO OPERATE:

- A) Check to make sure that the air conditioner is plugged in securely. If it is not, remove the plug from the outlet, wait 10 seconds and plug it in again securely.
- B) Check for a blown circuit fuse or a tripped main circuit breaker. If these seem to be operating properly, test the outlet with another appliance.
- C) Check if electricity to the main power switch of the unit appears to be working.
- D) Make sure that both units are in the upright position.

IF NONE OF THE ABOVE SOLVES THE PROBLEM, CONTACT A QUALIFIED TECHNICIAN.



WARNING: DO NOT TRY TO ADJUST OR REPAIR THE AIR CONDITIONER YOURSELF.

CUSTOMER SERVICE

IMPORTANT

DO NOT RETURN THIS PRODUCT TO THE STORE

If you have a problem with this product, please contact the BLACK+DECKER Customer Satisfaction Center at 844-299-0879 or service@equitybrands.com

DATED PROOF OF PURCHASE, MODEL # AND SERIAL #
REQUIRED FOR WARRANTY SERVICE

TROUBLESHOOTING & WARRANTY

LIMITED WARRANTY

Any repair, replacement, or warranty service, and all questions about this product should be directed to BLACK+DECKER at **844-299-0879** from the USA or Puerto Rico.

W Appliance Co warrants to the original purchaser that the product will be free from defects in material, parts and workmanship for the period designated for this product. The warranty commences the day the product is purchased and covers up to a period of **5 years limited compressor /2 years limited parts (manufacturing defects only)**.

BLACK+DECKER agrees that it will, at its option, replace the defective product with either a new or remanufactured unit equivalent to your original purchase during the warranty period.

Exclusions: This warranty does not apply to the below:

1. If the appearance or exterior of the product has been damaged or defaced, altered or modified in design or construction.
2. If the product original serial number has been altered or removed or cannot be readily determined.
3. If there is damaged due to power line surge, user damage to the AC power cord or connection to improper voltage source.
4. If damage is due to general misuse, accidents or acts of God.
5. If repair attempts are done by unauthorized service agents, use of parts other than genuine parts or parts obtained from persons other than authorized service companies.
6. On units that have been transferred from the original owner.
7. On products that have been purchased as refurbished, like new, second-hand, in a "As-Is" or "Final Sale" terms.
8. To products used in a commercial or rental setting.
9. To products used in settings other than ordinary household use or used other than in accordance with the provided instructions.
10. To damages for service calls for improper installations.
11. Transportation and shipping costs associated with the replacement of the unit.
12. Service calls to instruct you how to use your product.
13. Service calls to repair or replace the house fuse, reset the circuit breaker or correct the wiring in the house.

REPAIR OR REPLACEMENT AS PROVIDED UNDER THIS WARRANTY IS THE EXCLUSIVE REMEDY OF THE CUSTOMER; BLACK+DECKER SHALL NOT BE LIABLE FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES FOR BREACH OF ANY EXPRESS OR IMPLIED WARRANTY ON THIS PRODUCT, EXCEPT TO THE EXTENT PROHIBITED BY APPLICABLE LAW. ANY IMPLIED WARRANTY OF MERCHANTABILITY OF FITNESS FOR A PARTICULAR PURPOSE ON THIS PRODUCT IS LIMITED TO THE DURATION OF THE WARRANTY.

Some states do not allow the exclusion or limitations of incidental or consequential damages, or limitations on how long the warranty lasts. In these cases the above exclusions or limitations may not apply to you. This warranty gives you specific legal rights and you may also have other rights which vary from state to state.

Obtaining Service: To obtain service, product literature, supplies or accessories please call **844-299-0879** to create a ticket for exchange/repair. Please make sure to provide the date of purchase, model number and a brief description of the problem. Our customer service representative will contact you or send detailed return instructions.

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1356 Broadway
New York, NY 10018

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