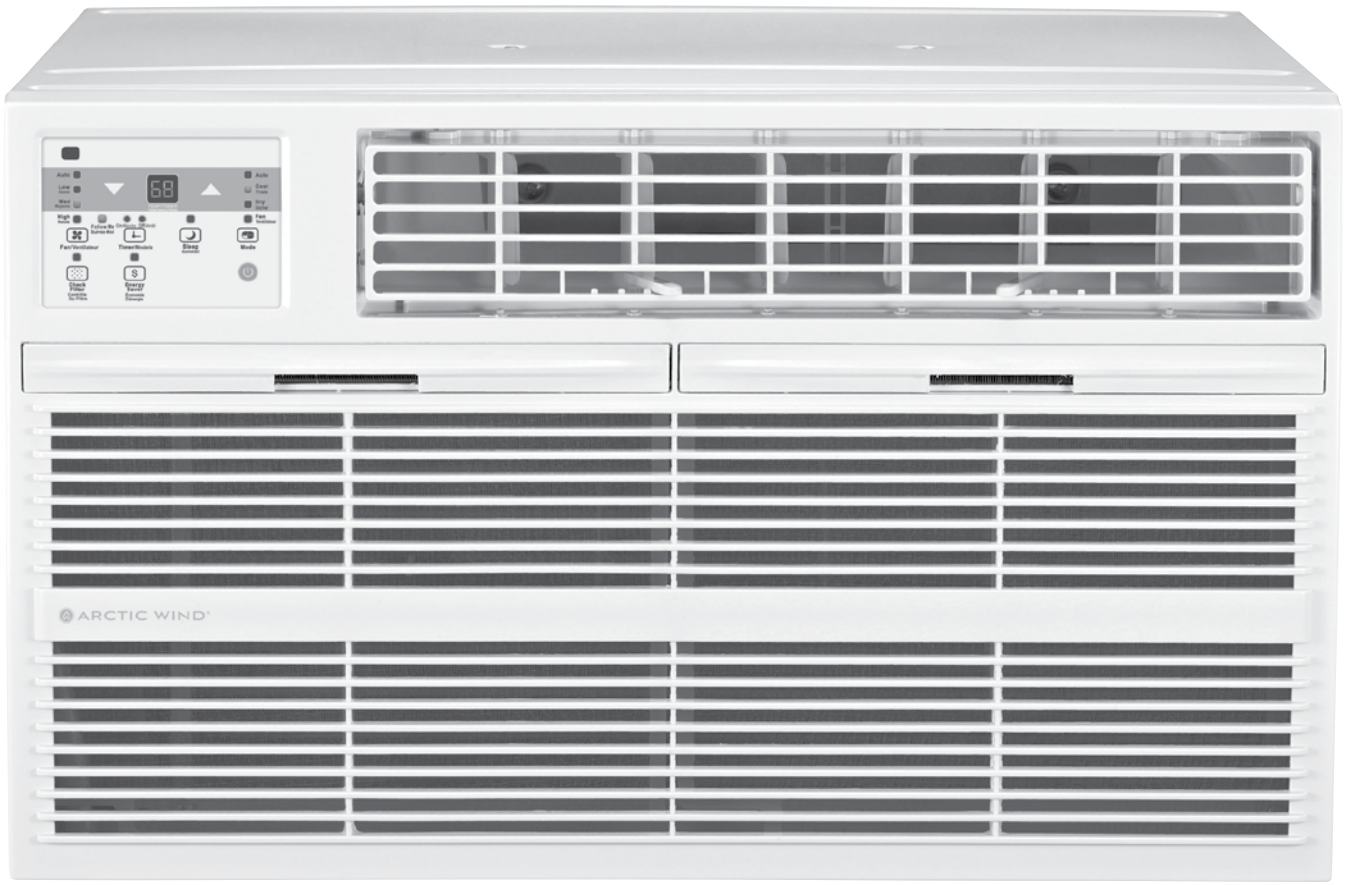
ARCTIC WIND®

OWNER'S MANUAL

THRU-THE-WALL

AIR CONDITIONER



MODELS 3AWTW8000A, 3AWTW10000A, 3AWTW10002A, 3AWTW12000A, 3AWTW120002A, 3AWTW140002A, 3AWTWH10002A, 3AWTWH120002A, 3AWTWH140002A

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IMPORTANT NOTE:
Read the manual carefully. Make sure to save this manual for future reference. Illustrations in this manual are for explanatory purposes only, your actual product may look slightly different.

IMPORTANT SAFETY INSTRUCTION

READ THESE SAFETY PRECAUTIONS BEFORE INSTALLATION AND OPERATION. For your safety, it is important that you read and follow the instructions in this manual to minimize the risk of personal injury, fire or electrical shock.

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.

⚠	**WARNING**	This symbol indicates that ignoring instructions may cause death or serious injury.
⚠	**CAUTION**	This symbol indicates that ignoring instructions may cause moderate injury to your person, or damage to your unit or other property.

⚠ California Proposition 65 Warning ⚠ WARNING: Cancer and reproductive harm - P65warningns.ca.gov

⚠ WARNING

OTHER SYMBOLS: ⃠ NEVER DO THIS. ✓ ALWAYS DO THIS.

✓	Plug in power cord properly.	Failure to do so 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 plug directly from the wall.	Doing so may cause electric shock or fire due to heat generation.
⃠	DO NOT use a damaged power cord.	Doing so may cause electric shock or fire. If the power cord is damaged, it must be replaced by the manufacturer or an authorized service center or a similarly qualified person in order to avoid a hazard.
⃠	DO NOT modify power cord length or share the outlet with other appliances.	Doing so may cause electric shock or fire due to heat generation.
⃠	DO NOT operate with wet hands or in damp environment.	Doing so may cause electric shock.
⃠	DO NOT direct airflow directly at room occupants.	This could cause health issues.
✓	Always ensure effective grounding.	Incorrect grounding may cause electric shock.
⃠	DO NOT allow water to run into electric parts.	Doing so may cause failure of machine or electric shock.
✓	Always install circuit breaker and a dedicated power circuit.	Incorrect installation may cause fire and electric shock.
✓	Always unplug the unit if strange sounds, smell or smoke comes from the unit.	Failure to do so may cause fire and electric shock.
⃠	DO NOT use the socket if it is loose or damaged.	Doing so may cause fire and electric shock.
⃠	DO NOT open the unit during operation.	Doing so may cause electric shock.
⃠	DO NOT use firearms near unit.	Doing so may cause fire.
⃠	DO NOT use the power cord close to heating appliances.	Doing so may cause fire and electric shock.
⃠	DO NOT disassemble, modify, or drill holes into the air conditioner.	Doing so may cause failure and electric shock and void the manufacturer's warranty.
✓	Ventilate room before operating air conditioner if there is a gas leak from another appliance such as a stove.	Failure to do so may cause explosion, fire and burns.
⃠	DO NOT use the power cord near flammable gas or combustibles, such as gasoline, benzene, thinner, etc.	Doing so may cause an explosion or fire.

⚠ CAUTION

⃠	When removing air filter, DO NOT touch metal parts of the unit.	Doing so may cause an injury.
⃠	DO NOT clean with water.	Water may enter the unit and degrade the insulation causing an electric shock.
✓	Ensure proper ventilation, especially in rooms with a stove or other appliances.	Failure to do so may result in an oxygen shortage.
✓	Unit and circuit breaker/fuse must be switched OFF when cleaning.	Cleaning unit when power is ON may cause fire and electric shock and may cause an injury.
⃠	DO NOT put a pet or house plant where it will be exposed to direct air flow.	This could injure the pet or plant.
✓	Use ONLY as intended.	This unit is NOT intended to preserve precision devices, food, pets, plants, and art objects. It may cause deterioration of quality, etc.
✓	Stop operation and close the window in severe storms or hurricanes.	Operation with windows open may cause moisture to enter the room.
✓	Hold the plug by the head of the power plug when taking it out.	Failure to do so may cause electric shock and damage.
✓	If unit will not be used for a long period of time, unplug or turn OFF main power switch.	Leaving power on may cause unit failure or fire.
⃠	DO NOT place obstacles around air-inlets or inside of air-outlet.	Obstacles may cause appliance failure or accident.
✓	Periodically check installation bracket for damage.	Prolonged exposure to outdoor elements may cause damage to installation bracket, causing unit to fall.
✓	Always insert filter(s) securely. Clean filter(s) AT LEAST once every two weeks.	Operation without secured, installed filters may cause failure. A dirty filter can cause the unit to not run efficiently.
✓	Use only a soft cloth to clean the unit.	Cleaners or detergents may change the color or scratch the surface of the unit.
✓	Use caution when unpacking and installing.	Sharp edges could cause injury.
⃠	NEVER drink water drained from air conditioner.	Water from unit contains contaminants and could cause illness.
⃠	DO NOT place heavy objects on the power cord and always ensure that the cord is not compressed.	There is danger of fire or electric shock.
✓	If water enters the unit's electrical components, 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 serviced technician.	There is danger of electric shock.

NOTE

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

Cooling operation	Outdoor temp:	64-109°F/18-43°C (64-125° F/18-52°C for special tropical models)	**Heating operation**	Outdoor temp:	23-76° F/ -5-24°C
	Indoor temp:	62-90° F/ 17-32°C		Indoor temp:	32-80 °F / 0-7°C

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:

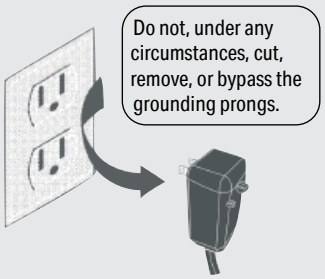
- Plug in the Air Conditioner.
- The power supply cord will have TWO buttons on the plug head. Press the TEST button, you will notice a click as the RESET button pops out.
- Press the RESET button again, you will notice a click as the button engages.
- The power supply cord is now supplying electricity 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 one can be obtained from the product manufacturer.

Grounding type wall receptacle

Power supply cord with 3-prong grounding plug and current detection device.



⚠ WARNING

ELECTRICAL INFORMATION

The complete electrical rating of your new room air conditioner 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.
- Do not use an extension cord or an adapter plug.

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:

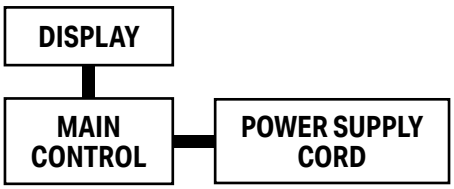
- Be sure the electrical service is adequate for the model you have chosen. This information can be found on the serial plate, which is located on the side of the cabinet and behind the grille.
- If the air conditioner is to be installed in a window, you will probably want to clean both sides of the glass first. If the window is a triple track type and has a screen panel included, remove the screen completely before installation.

- 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: The cographs are for explanation purpose only. Your machine may be slightly different. The actual shape shall prevail.

⚠ WARNING

For using R32 refrigerant

- Do not use means to accelerate the defrosting process or to clean, other than those recommended by the manufacturer.
- The appliance shall be stored in a room without continuously operating ignition sources (for example: open flames, an operating gas appliance or an operating electric heater).
- Do not pierce or burn.
- Be aware that the refrigerants may not contain an odor.
- Appliance should be installed, operated and stored in a room with a floor area according to the amount of refrigerant to be charged. For specific information on the type of gas and the amount, please refer to the relevant label on the unit itself. When there are differences between the label and the manual on the Min. room area description, the description on label shall prevail.
- Appliance shall be installed, operated and stored in a room with a floor area larger than 43 sq. ft. (4 m^2). Appliance shall not be installed in an unvertilated space, if that space is smaller than 43 sq. ft. (4 m^2).
- No open fire or device like 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.
- Servicing should only be performed as recommended by the equipment manufacturer. Maintenance and repair requiring the assistance of other skilled personnel shall be carried out under the supervision of the person competent in the use of flammable refrigerants.
- DO NOT modify the length of the power cord or use an extension cord to power the unit.
- DO NOT share a single outlet with other electrical appliances. Improper power supply can cause fire or electrical shock. When maintaining or disposing the appliance, the refrigerant shall be recovered properly, shall not discharge 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.
- A warning that 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 authorizes their competence to handle refrigerants safely in accordance with an industry recognized assessment specification. All training shall follow the ANNEX HH requirements of UL 60335-2-40.

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

A2L

CAUTION:
Risk of fire
flammable materials

Explanation of symbols displayed on the unit		
	**CAUTION**	This symbol shows that the operation manual should be read carefully.
	**CAUTION**	This symbol shows that a service professional should be handling this equipment with reference to the installation manual.
	**CAUTION**	This symbol shows that information is available such as the operation manual or installation manual.

⚠ WARNING

For using R32 refrigerant

TRANSPORT OF EQUIPMENT CONTAINING FLAMMABLE REFRIGERANTS

- See transport regulations.

MARKING OF EQUIPMENT USING SIGNS

- See local regulations.

DISPOSAL OF EQUIPMENT USING FLAMMABLE REFRIGERANTS

- See national regulations.

STORAGE OF EQUIPMENT/APPLIANCES

- The storage of equipment should be in accordance with the manufacturer's instructions.

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.

INFORMATION ON SERVICING

1. **Checking 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.
2. **Work procedure**: Work shall be undertaken under a controlled procedure so as to minimize the risk of a flammable gas or vapor being present while the work is being performed.
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.
4. **Checking for presence of refrigerant:** The area should be checked with an appropriate refrigerant detector prior to and during work, to ensure the technician is aware of potentially flammable atmospheres. Ensure that the leak detection equipment being used is suitable for use with flammable refrigerants, i.e. non-sparking, adequately sealed or intrinsically safe.
5. **Presence of a fire extinguisher:** If any hot work is to be conducted on the refrigeration equipment or any associated parts, appropriate fire extinguishing equipment

⚠ WARNING

For using R32 refrigerant

shall be available to hand. Have a dry powder or CO2 fire extinguisher adjacent to the charging area.

6. **No ignition sources:** No person carrying out work in relation to a refrigeration system which involves exposing any pipe work that contains or has contained flammable refrigerant shall use any sources of ignition in such a manner that it may lead to the risk of fire or explosion. All possible ignition sources, including cigarette smoking, should be kept sufficiently far away from the site of installation, repairing, removing and disposal, during which flammable refrigerant can possibly be released to the surrounding space. Prior to work taking place, the area around the equipment is to be surveyed to make sure that there are no flammable hazards or ignition risks. No Smoking signs shall be displayed.
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.
8. **Checks to the refrigeration equipment:** Where electrical components are being changed, they shall be fit for the purpose and to the correct specification. At all times the manufacturer's maintenance and service guidelines shall be followed. If in doubt consult the manufacturer's technical department for assistance.

   The following checks shall be applied to installations using flammable refrigerants:

   - The charge size is in accordance with the room size within which the refrigerant containing parts are installed.
   - The ventilation machinery and outlets are operating adequately and are not obstructed.
   - If an indirect refrigerating circuit is being used, the secondary circuit shall be checked for the presence of refrigerant.
   - Marking to the equipment continues to be visible and legible. Markings and signs that are illegible should be corrected.
   - Refrigeration pipe or components are installed in a position where they are unlikely to be exposed to any substance which may corrode refrigerant containing components, unless the components are constructed of materials which are inherently resistant to being corroded or are suitably protected against being so corroded.
9. **Checks to electrical devices:**
   - Repair and maintenance to electrical components should include initial safety checks and component inspection procedures. If a fault exists that could compromise safety, then no electrical supply shall be connected to the circuit until it is satisfactorily dealt with. If the fault cannot be corrected immediately but it is necessary to continue operation, an adequate temporary solution should be used. This should be reported to the owner of the equipment, so all parties are advised.
   - Initial safety checks should 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.

SEALED ELECTRICAL COMPONENTS SHALL BE REPLACED

1. During repairs to sealed components, all electrical supplies shall be disconnected from the equipment being worked upon prior to any removal of sealed covers, etc. If it is absolutely necessary to have an electrical supply to equipment during servicing, then a permanently operating form of leak detection shall be located at the most critical point to warn of a potentially hazardous situation.
2. Particular attention shall be paid to the following to ensure that by working on electrical components, the casing is not altered in such a way that the level of protection is affected. This shall include

⚠ WARNING

For using R32 refrigerant

damage to cables, excessive number of connections, terminals not made to original specification, damage to seals, incorrect fitting of glands, etc. Ensure that apparatus is mounted securely.

- Ensure that seals or sealing materials have not degraded such that they no longer serve the purpose of preventing the ingress of flammable atmospheres. Replacement parts should be in accordance with the manufacturer's specifications.

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

INTRINSICALLY SAFE COMPONENTS MUST BE REPLACED

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

CABLING

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

DETECTION OF FLAMMABLE REFRIGERANTS

- Under no circumstances, should 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) should 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 should 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 should 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 pipework.
- If a leak is suspected, all naked flames should be removed/ extinguished. If a leakage of refrigerant is found which requires brazing, all of the refrigerant should be recovered from the system, or isolated (by means of shut off valves) in a part of the system remote from the leak. Removal of refrigerant shall be according to Removal and evacuation..

REMOVAL AND EVACUATION

- When breaking into the refrigerant circuit to make repairs—or for any other purpose - conventional procedures shall be used. However, for flammable refrigerants it is important that best practice is followed since flammability is a consideration.
- The following procedure shall be adhered to:
  - Remove refrigerant
  - 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 should be recovered into the correct recovery cylinders. if venting is not allowed by local and national codes. For

⚠ WARNING

For using R32 refrigerant

appliances containing flammable refrigerants, the system shall be purged with oxygen-free nitrogen flammable refrigerants. This process might 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.

CHARGING PROCEDURES

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

DECOMMISSIONING

- Before carrying out this procedure, it is essential that the technician is completely familiar with the equipment and all its detail. It is recommended good practice that all refrigerants are recovered safely. Prior to the task being carried out, an oil and refrigerant sample should 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.
- Become familiar with the equipment and its operation.
- Isolate the system electrically.
- Before attempting the procedure ensure that:
  - When breaking into the refrigerant circuit to make repairs or for any other purpose, conventional procedures should be used.
  - Mechanical handling equipment is available, if required, for handling refrigerant cylinders.
  - Personal protective equipment is available and being used correctly.
  - The recovery process is supervised at all times by a competent person.
  - Recovery equipment and cylinders conform to the appropriate standards.
- Pump down refrigerant system, if possible.
- If a vacuum is not possible, make a manifold so that refrigerant can be removed from various parts of the system.
- Make sure that cylinder is situated on the scales before recovery takes place.
- Start the recovery machine and operate in accordance with manufacturer's instructions.
- Do not overfill cylinders. (No more than 80 % volume liquid charge).
- Do not exceed the maximum working pressure of the cylinder, even temporarily.
- When the cylinders have been filled correctly and the process is completed, make sure that the cylinders and the equipment are removed from the site promptly and all isolation valves on the equipment are closed off.
- Recovered refrigerant should not be charged into another refrigeration system unless it has been cleaned and checked.

⚠ WARNING

For using R32 refrigerant

LABELLING

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

RECOVERY

- When removing refrigerant from a system, either for servicing or decommissioning, it is recommended good practice that all refrigerants are removed safely.
- When transferring refrigerant into cylinders, ensure that only appropriate refrigerant recovery cylinders are employed. Ensure that the correct number of cylinders for holding the total system charge is available. All cylinders to be used are designated for the recovered refrigerant and labelled for that refrigerant (i.e. special cylinders for the recovery of refrigerant). Cylinders shall be complete with pressure relief valve and associated shut-off valves in good working order. Empty recovery cylinders are evacuated and, if possible, cooled before recovery occurs.
- The recovery equipment shall be in good working order with a set of instructions concerning the equipment that is at hand and shall be suitable for the recovery of flammable refrigerants. 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.

IMPORTANT NOTICE:

WARRANTY VOID FOR IMPROPER INSTALLATION

Please note that the warranty for the thru-the-wall air conditioner will be void if any other type of installation method not specified in this user manual.

To ensure proper functioning and to maintain the validity of the warranty, it is crucial to strictly adhere to the installation procedure outlined in this user manual. Failure to do so may lead to damage or malfunctioning of the unit.

For detailed instructions on the correct installation process, please refer to the 'Installation Instruction' section of this user manual. Following these guidelines will help guarantee optimal performance and protect your warranty coverage.

If you have any questions or require further assistance, please don't hesitate to contact our US based customer service team at 855-663-9463. We are here to help ensure your satisfaction and maximize the longevity of your window air conditioner.

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

INSTALLATION INSTRUCTIONS

DO THIS FIRST (FOR EXISTING SLEEVE)

Note that the air conditioner dimensions are: 24.25 inches wide, 14.5 inches high, and 18.5 inches deep (without front).

Install air conditioner according to these installation instructions to achieve the best performance. Save these installation instructions for future reference.

NOTE: DO NOT use any screws other than those specified in these instructions.

BEFORE THE INSTALLATION

Read these instructions completely and carefully.

IMPORTANT Save these instructions.

IMPORTANT Observe all governing codes and ordinances.

NOTE TO INSTALLER: Be sure to leave these instructions with the Consumer.

NOTE TO CONSUMER: Keep these instructions for future reference.

SKILL LEVEL Installation of this appliance requires basic mechanical skills.

The installation must be carried out in strict accordance with the instructions in this manual. Proper installation is the responsibility of the installer.

Product failure due to improper installation is not covered under the Warranty.

You MUST use only supplied parts and use proper installation procedures as described in these instructions when installing this air conditioner.

Installing your AC should take about 60 minutes.

We recommend doing this with a helper.

We're here if you need us, please contact 855-663-9463 Mon-Fri for assistance.

⚠ CAUTION

DO NOT, under any circumstances, cut or remove the third (ground) prong from the power cord.

DO NOT change the plug on the power cord of the air conditioner.

Aluminum house wiring may present special problems consult a qualified electrician.

When handling unit, be careful to avoid cuts from sharp metal edges and aluminum fins on front and rear coils.

ITEMS IN KIT

You may not need all parts listed in this kit.

DO NOT discard unused parts.

HARDWARE
(Included - Packed with the Unit)

ITEM	DIMENSIONS (if applicable)	QTY
Tapered Spacer Blocks	17" Long	2
Centering/Support Blocks	4 ½" x 3 ½" x 1 ½"	4
Plastic Divider	⅛" x 4 ½" x 14 ½"	2
Stuffer Seal	1" x 1 ½" x 84"	1
Seal	1" x 1 ½" x 25"	3
Seal	1" x 1 ½" x 14"	2
Seal	1" x ⅜" x 25"	3
Seal	1" x ⅜" x 14"	2
Seal	1" x ¾" x 14"	2
Trim Frame (side legs)	—	2
Trim Frame (top & bottom legs)	—	2
Ground Wire (green)	—	1
Toothed Washer for Grounding Screw	—	2
Grounding Screw	—	1
Grille (plastic)	—	1
Grille (aluminum)	—	1
Nuts (plastic)	—	4
Screw Washer	—	4
Screw	—	4

INSTALLATION OVERVIEW

Please read ALL instructions before installing. It is recommended that two people install this product. If a new electrical outlet is required, have the outlet installed by a qualified electrician before installing the air conditioning unit.

STEP 1
IDENTIFY WALL-SLEEVE BRAND

Identify the wall-sleeve brand for your installation from the chart below.

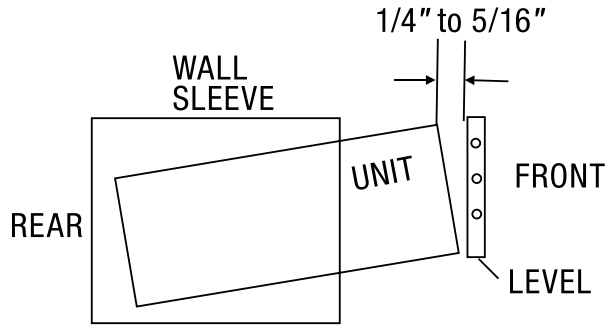
WALL SLEEVE DIMENSIONS

PERFECT AIRE, Frigidaire, White-Westinghouse, Carrier (52F Series)		
WIDTH	**HEIGHT**	**DEPTH**
25 ½"	15 ¼"	16", 17 ½", 22"
General Electric, Hotpoint		
WIDTH	**HEIGHT**	**DEPTH**
26"	15 ⅝"	15 ⅞"
Whirlpool		
WIDTH	**HEIGHT**	**DEPTH**
25 ⅞"	16 ½"	17 ⅛", 23"
Fedders, Emerson		
WIDTH	**HEIGHT**	**DEPTH**
27"	16 ¾"	16 ¾", 19 ¾"
Sears/Kenmore, Carrier (51S Series)		
WIDTH	**HEIGHT**	**DEPTH**
25 ¾"	16 ⅞"	18 ⅝"
Fedders, Emerson		
WIDTH	**HEIGHT**	**DEPTH**
26 ¾"	15 ¾"	15"
Friedrich		
WIDTH	**HEIGHT**	**DEPTH**
27"	16 ¾"	16 ¾"

NOTE: Please verify dimensions of your wall sleeve with its manufacturer before installing your Thru-The-Wall unit.

NOTE: All wall sleeves used to mount the new air conditioner must be in sound structural condition and have a rear grille that securely attaches to sleeve, or rear flange that serves as a stop for the air conditioner.

⚠ CAUTION When the installation is complete, replacement unit MUST have a rearward slope as shown.



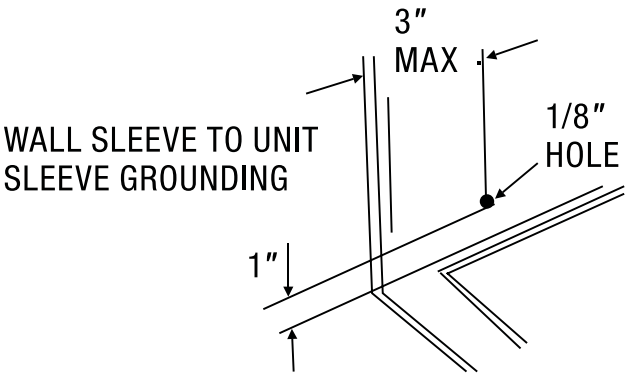
STEP 2
REMOVE OLD AIR CONDITIONER

Remove old air conditioner from wall sleeve and prepare wall sleeve as follows:

- Clean interior. (Do not disturb seals.)
- Wall sleeve must be securely fastened in wall before installing the air conditioner. Drive more nails or screws through sleeve into wall if needed.
- Repair paint if needed.

STEP 3
DRILL A ⅛" CLEARANCE HOLE

If not existing, drill a ⅛" clearance hole for grounding screw through left side of sleeve in a clear area about 3 inches maximum (to suit) back from front edge of sleeve (as shown below) using ground screw and toothed washer. Pull loose end of ground wire out front of sleeve, and temporarily bend it down and around lower edge of sleeve. The ground wire will be attached to frame of air conditioner later once it is installed.



STEP 4
PREPARE THE WALL SLEEVE

Prepare the wall sleeve for installation of the new unit per the following brand instructions.

PERFECT AIRE, Frigidaire, White-Westinghouse, Carrier (52F Series)		
NUMBER	**DEPTH**	**PAGE**
#1	16", 17 ½"	16
Fedders		
NUMBER	**DEPTH**	**PAGE**
#2	19¾"	17
Fedders or Friedrich		
NUMBER	**DEPTH**	**PAGE**
#3	16¾"	18
General Electric/Hotpoint		
NUMBER	**DEPTH**	**PAGE**
#4	16 ⅞"	19
Sears or Carrier (51S Series)		
NUMBER	**DEPTH**	**PAGE**
#5	18 ⅝"	20
Whirlpool		
NUMBER	**DEPTH**	**PAGE**
#6	17 ⅛"	21
Whirlpool		
NUMBER	**DEPTH**	**PAGE**
#7	23"	22
Emerson		
NUMBER	**DEPTH**	**PAGE**
#8	15"	23
White-Westinghouse, Frigidaire		
NUMBER	**DEPTH**	**PAGE**
#9	22"	24

STEP 5
IDENTIFY YOUR WALL SLEEVE'S BRAND

Identify your wall sleeve's brand and install new unit into wall sleeve using the applicable instructions on the following pages.

STEP 6
ATTACH GROUND WIRE TO NEW UNIT

To attach ground wire to the new unit, remove the screw from the left side front.

STEP 7
ASSEMBLE AND INSTALL THE TRIM FRAME (SEE INSTRUCTIONS)

IMPORTANT

- The unit's increased performance characteristics result from having two rear air intakes.
- It is very important that these installation instructions are followed to ensure that your unit can operate at maximum efficiency.
- If this is an existing sleeve and there is an existing rear grille, it needs to be replaced by one that has been shipped with the unit in the accessory kit.

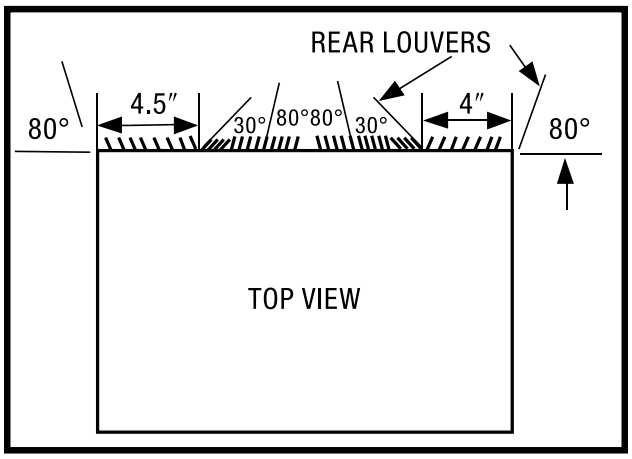
For increased efficiency, utilize the provided louvered rear panel.

Installation of the new grille provided with the unit:

1. Remove the existing grille.
2. Place the grille included with the new air conditioner towards the rear of the sleeve.
3. Mark the hole positions.
4. Drill through the sleeve's flanges with a 1/8 inch drill bit.
5. Attach the new grille with self-threading screws and washers (not included).
6. It is VERY IMPORTANT that the grille is placed exactly as shown in the picture on the right.
7. Most decorative exterior grilles may be left in place as long as the proper interior art direction grille is installed.

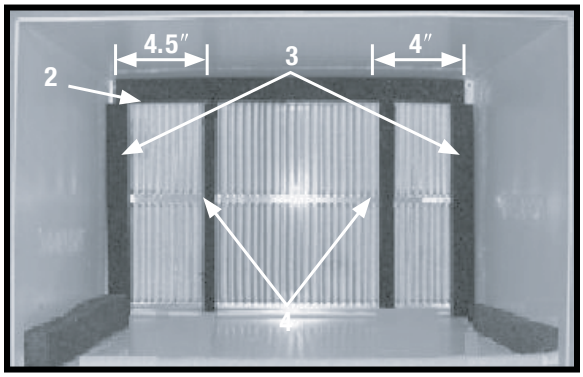
#1 PERFECT AIRE, WHITE-WESTINGHOUSE, FRIGIDAIRE, CARRIER 52F SERIES 16 IN. & 17 ½ IN. DEEP

1. Remove existing rear grille and replace with provided louvered panel. Install as shown here.



NOTE: You may need to drill holes in flange of existing sleeve to match new rear grille.

2. Attach (1) 1" x ⅜" x 25" long seal in the center at the top of the sleeve. Remove the backing paper and press into position.
3. Attach (2) 1" x ⅜" x 14" long seals to the left and right sides of the sleeve.
4. Attach (1) 1" x ¾" x 14" long seal vertically 4.5" from the left side of the sleeve. Attach the other 1" x ¾" x 14" long seal 4" from the right side of the sleeve.

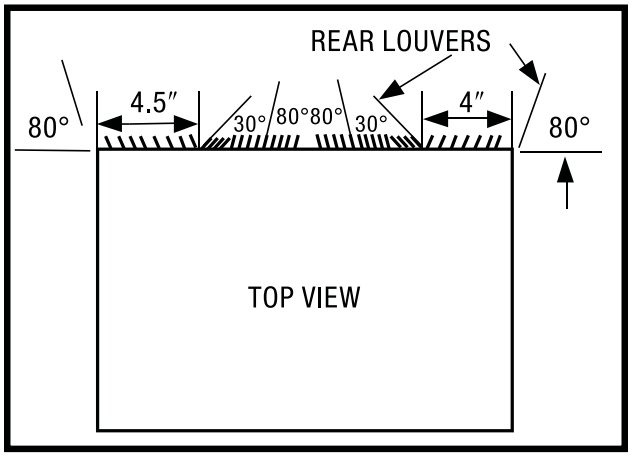


5. Center unit and gently slide unit into sleeve.
6. Before sliding all of the way back, remove second screw from front on left side of the unit.
7. Remove the plastic washer from the screw.
8. Screw and attach the other end of the ground wire to the unit as shown in picture. Make sure that the toothed washer is against the cabinet.

9. Slide the unit completely to the rear to ensure a good seal, making sure the ground wire does not become tangled.
10. Seal & frame the unit as described on page 26.
11. If you have difficulty with mounting the grille to the sleeve, follow the instructions for direct mounting on page 25.

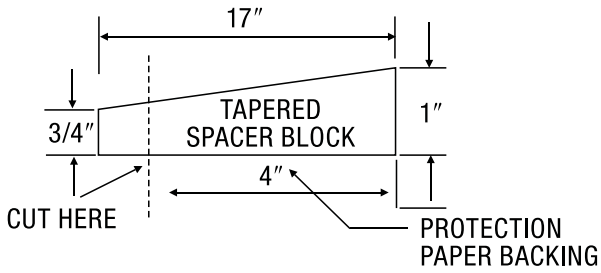
#2 FEDDERS
19 ¾ IN. DEEP

1. Remove existing rear grille and replace with provided louvered panel. Install as shown here.

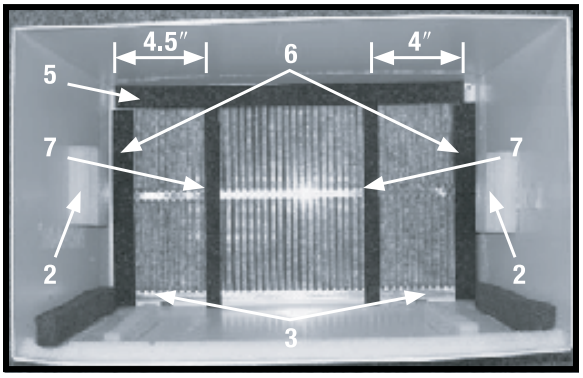


NOTE: You may need to drill holes in flange of existing sleeve to match new rear grille.

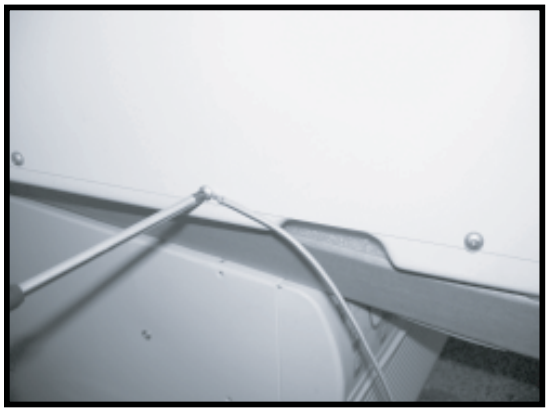
2. Attach (2) 4 ¼" x 3 ½" x 1 ½" centering/ support blocks, one on each side wall. Place in center of side walls with the tapered end facing the opening.
3. Cut the (2) 17" Tapered Spacer Blocks as shown below into two pieces.



4. The 4" section is placed in front of the rib on base with the tapered end facing the back of the sleeve. The remaining portion behind the rib again is sloping toward the rear of the sleeve. This helps induce a rearward slope on the unit.
5. Attach (1) 1" x ⅜" x 25" long seal in the center at the top of the sleeve. Remove the backing paper and press into position.
6. Attach (2) 1" x ⅜" x 14" long seals to the left and right sides of the sleeve.
7. Cut (2) 1" x ⅜" x 25" long seal to 14" long and attach it to the vertical sections of the rear grille as shown.



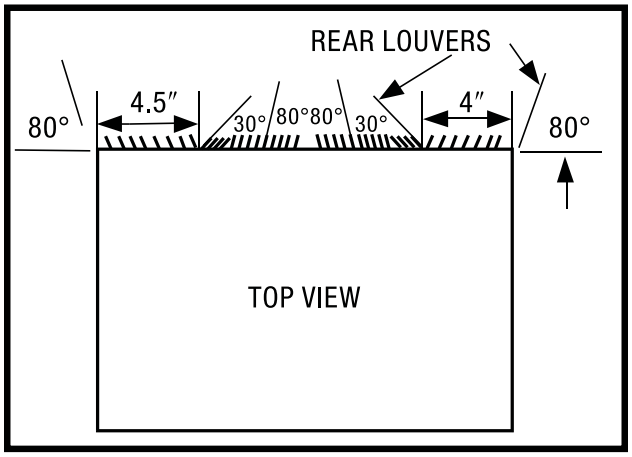
8. Gently slide unit into sleeve.
9. Before sliding all of the way back, remove second screw from front on left side of the unit.
10. Remove the plastic washer from the screw.
11. Screw and attach the other end of the ground wire to the unit as shown in picture. Make sure that the toothed washer is against the cabinet.



12. Slide the unit completely to the rear to ensure a good seal, making sure the ground wire does not become tangled.
13. Seal & frame the unit as described on page 26.
14. If you have difficulty with mounting the grille to the sleeve, follow the instructions for direct mounting on page 25.

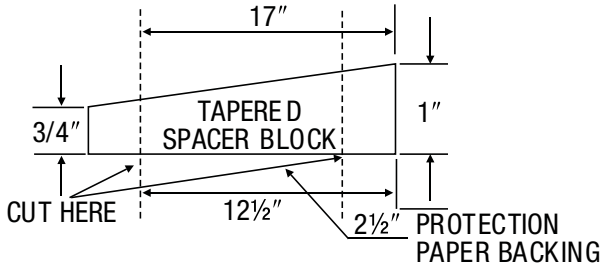
#3 FEDDERS OR FRIEDRICH 16 ¾ IN. DEEP

1. Remove existing rear grille and replace with provided louvered panel. Install as shown here.

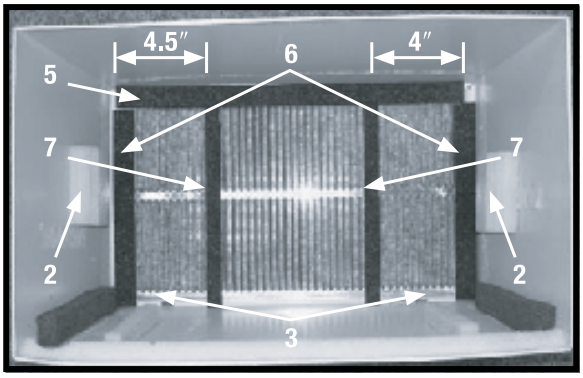


NOTE: You may need to drill holes in flange of existing sleeve to match new rear grille.

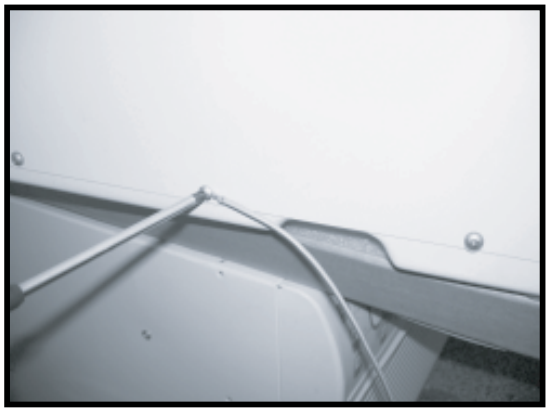
2. Attach (2) 4 ¼" x 3 ½" x 1 ½" centering/ support blocks, one on each side wall. Place in center of side walls with the tapered end facing the opening.
3. Cut the (2) 17" Tapered Spacer Blocks as shown below into two pieces.



4. The 2 ½" section is placed in front of the rib on base with the tapered end facing the back of the sleeve. Cut the remaining portion to 12 ½" and place behind the rib again, sloping toward the rear of the sleeve. This helps to induce a rearward slope on the unit.
5. Attach (1) 1" x ⅜" x 25" long seal in the center at the top of the sleeve. Remove the backing paper and press into position.
6. Attach (2) 1" x ⅜" x 14" long seals to the left and right sides of the sleeve.
7. Cut (2) 1" x ⅜" x 25" long seal to 14" long and attach it to the vertical sections of the rear grille as shown.



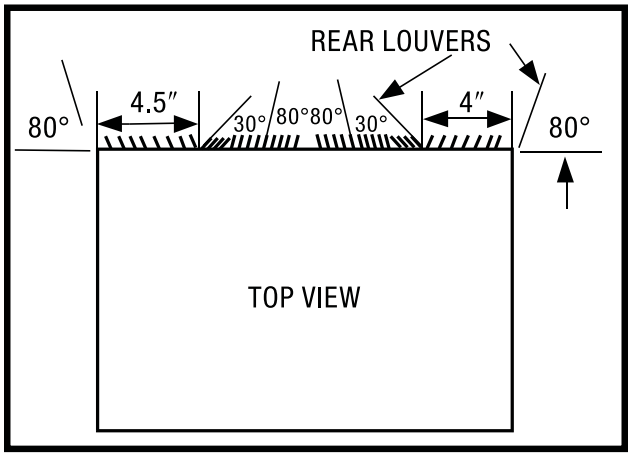
8. Gently slide unit into sleeve.
9. Before sliding all of the way back, remove second screw from front on left side of the unit.
10. Remove the plastic washer from the screw.
11. Screw and attach the other end of the ground wire to the unit as shown in picture. Make sure that the toothed washer is against the cabinet.



12. Slide the unit completely to the rear to ensure a good seal, making sure the ground wire does not become tangled.
13. Seal & frame the unit as described on page 26.
14. If you have difficulty with mounting the grille to the sleeve, follow the instructions for direct mounting on page 25.

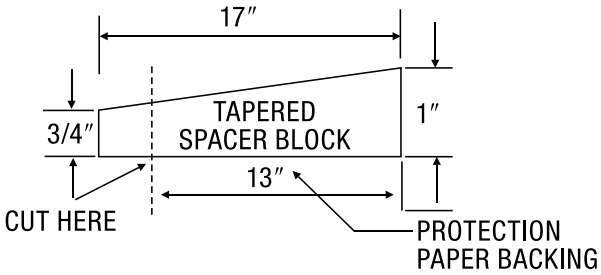
#4 GENERAL ELECTRIC OR HOTPOINT 16 ⅞ IN. DEEP

1. Remove existing rear grille and replace with provided louvered panel. Install as shown here.

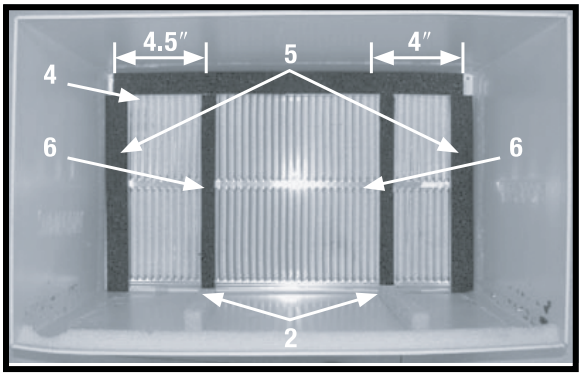


NOTE: You may need to drill holes in flange of existing sleeve to match new rear grille.

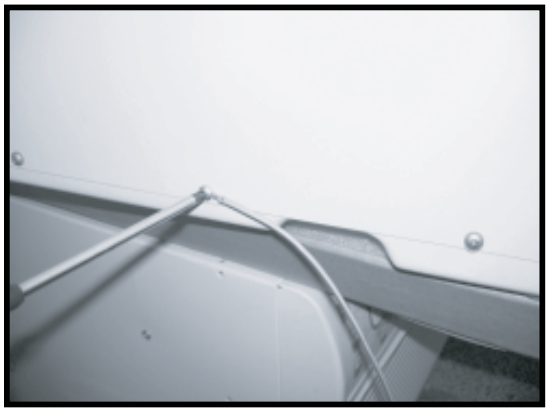
2. Cut the (2) 17" Tapered Spacer Blocks as shown below into two pieces.



3. Install 13" section as shown with the tapered end ½" from the back of the sleeve. This helps induce a rearward slope on the unit.
4. Attach (1) 1" x ⅜" x 25" long seal in the center at the top of the sleeve. Remove the backing paper and press into position.
5. Attach (2) 1" x ⅜" x 14" long seals to the left and right sides of the sleeve.
6. Cut (2) 1" x ⅜" x 25" long seal to 14" long and attach to the vertical sections of the rear grille as shown.



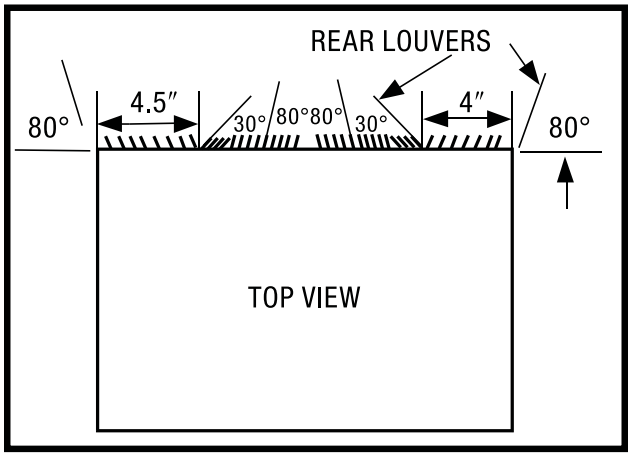
7. Center unit and gently slide unit into sleeve.
8. Before sliding all of the way back, remove second screw from front on left side of unit.
9. Remove the plastic washer from the screw.
10. Screw and attach the other end of the ground wire to the unit as shown in picture. Make sure that the toothed washer is against the cabinet.



11. Slide the unit completely to the rear to ensure a good seal, making sure the ground wire does not become tangled.
12. Seal & frame the unit as described on page 26.
13. If you have difficulty with mounting the grille to the sleeve, follow the instructions for direct mounting on page 25.

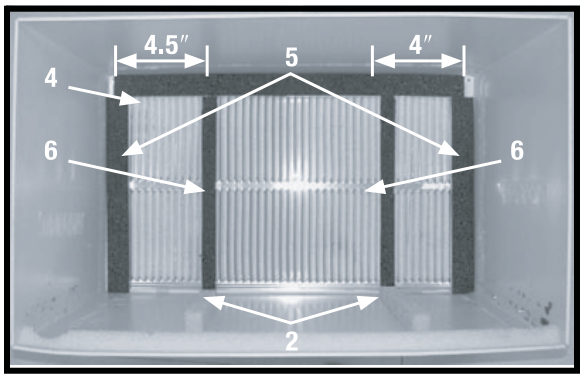
#5 SEARS OR CARRIER 51S SERIES 18 ⅝ IN. DEEP

1. Remove existing rear grille and replace with provided louvered panel. Install as shown here.



NOTE: You may need to drill holes in flange of existing sleeve to match new rear grille.

2. Install (2) Tapered Spacer Blocks to the floor of the sleeve as shown. DO NOT CUT THE BLOCKS. This helps induce a rearward slope on the unit.
3. Install as shown with the tapered end ½" from the back of the sleeve. This helps induce a rearward slope on the unit.

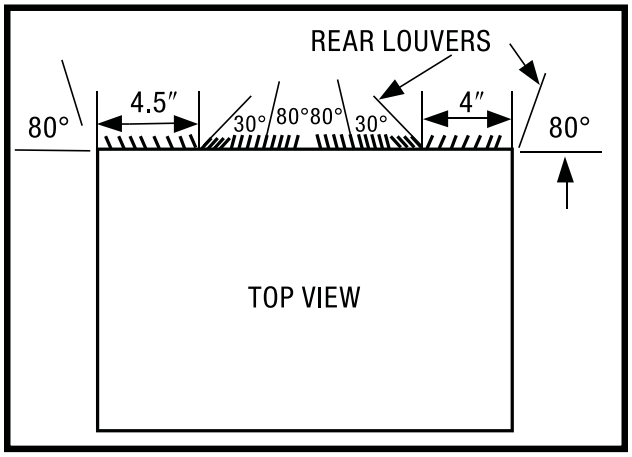


4. Attach (1) 1" x ⅜" x 25" long seal in the center at the top of the sleeve. Remove the backing paper and press into position.
5. Attach (2) 1" x ⅜" x 14" long seals to the left and right sides of the sleeve.
6. Cut (2) 1" x ⅜" x 25" long seal to 14" long and attach it to the vertical sections of the rear grille as shown.
7. Center unit and gently slide unit into sleeve.
8. Before sliding all of the way back, remove second screw from front on left side of the unit.
9. Remove the plastic washer from the screw.
10. Screw and attach the other end of the ground wire to the unit as shown in picture. Make sure that the toothed washer is against the cabinet.

11. Slide the unit completely to the rear to ensure a good seal, making sure the ground wire does not become tangled.
12. Seal & frame the unit as described on page 26.
13. If you have difficulty with mounting the grille to the sleeve, follow the instructions for direct mounting on page 25.

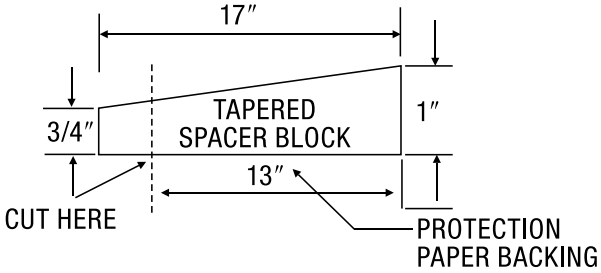
#6 WHIRLPOOL 17 ⅛ IN. DEEP

1. Remove existing rear grille and replace with provided louvered panel. Install as shown here.

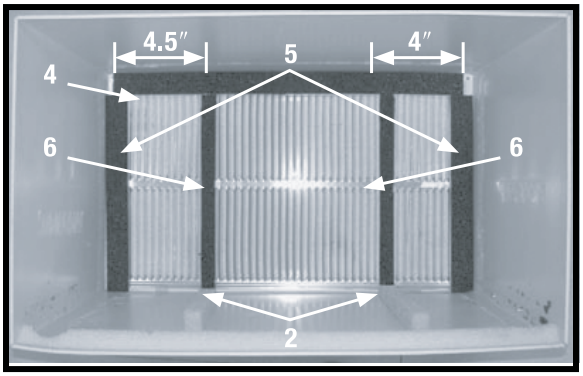


NOTE: You may need to drill holes in flange of existing sleeve to match new rear grille.

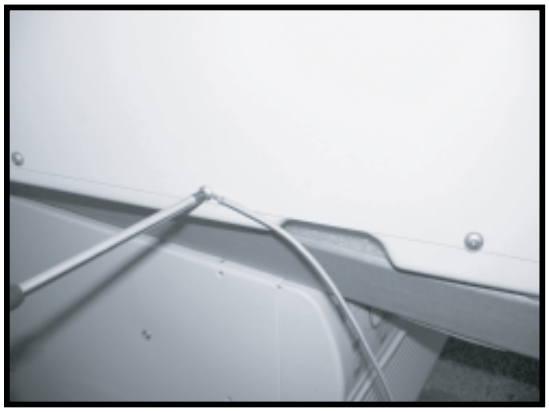
2. Cut the (2) 17" Tapered Spacer Blocks as shown below into two pieces.



3. Install 13" section to the floor of the sleeve as shown. This helps induce a rearward slope on the unit.
4. Attach (1) 1" x ⅜" x 25" long seal in the center at the top of the sleeve. Remove the backing paper and press into position.
5. Attach (2) 1" x ⅜" x 14" long seals to the left and right sides of the sleeve.
6. Cut (2) 1" x ⅜" x 25" long seal to 14" long and attach to the vertical sections of the rear grille as shown.



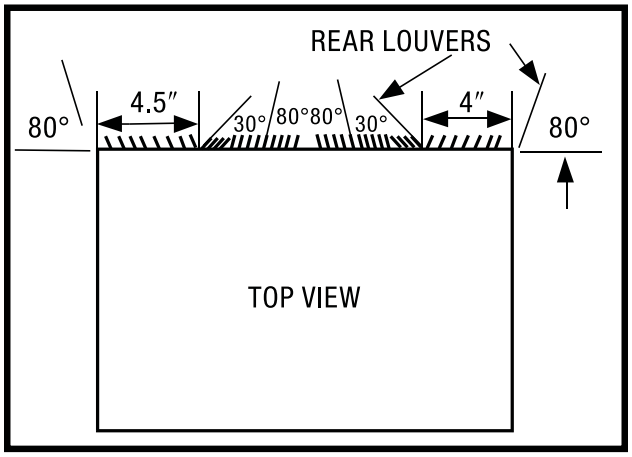
7. Center unit and gently slide unit into sleeve.
8. Before sliding all of the way back, remove second screw from front on left side of unit.
9. Remove the plastic washer from the screw.
10. Screw and attach the other end of the ground wire to the unit as shown in picture. Make sure that the toothed washer is against the cabinet.



11. Slide the unit completely to the rear to ensure a good seal, making sure the ground wire does not become tangled.
12. Seal & frame the unit as described on page 26.
13. If you have difficulty with mounting the grille to the sleeve, follow the instructions for direct mounting on page 25.

#7 WHIRLPOOL 23 IN. DEEP

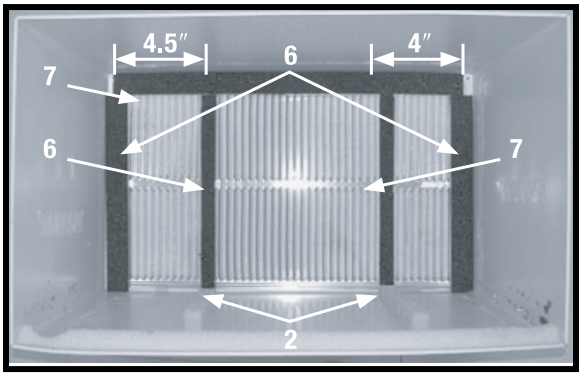
1. Remove existing rear grille and replace with provided louvered panel. Install as shown here.



NOTE: You may need to drill holes in flange of existing sleeve to match new rear grille.

BECAUSE OF THE INCREASED UNIT DEPTH, FIRST TRY DRY FITTING USING METHODS DESCRIBED BELOW:

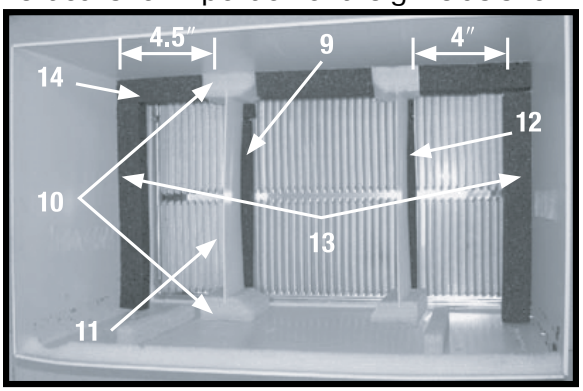
2. Place (2) 1" x 1 ½" x 14" seals against each side.
3. Gently slide unit in and check if amount extending from the sleeve is sufficient once the trim frame is attached.
4. If position is OK, remove unit and proceed to the next step. If not, go to step 9.
5. Attach (1) 1" x 1 ½" x 25" long seal in the center at the top of the sleeve. Remove the backing paper and press into position.
6. Attach (2) 1" x 1 ½" x 14" seals to the left and right sides of the sleeve.
7. Cut (2) 1" x ⅜" x 25" long seals to 14" long and attach to the vertical sections of the grille as shown.



8. Attach the tapered spacer blocks to the floor of the sleeve. Now go to step 15.

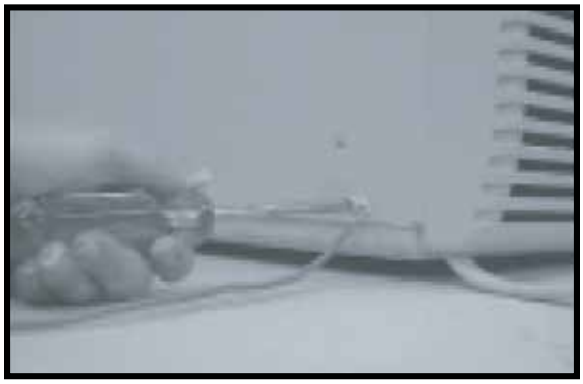
USE THESE NEXT STEPS IF THE UNIT REQUIRES EXTRA EXTENSION INTO THE ROOM.

9. Attach 1" x ¾" x 14" long seal over the solid vertical portion of the rear grille.
10. Attach (2) 4 ½" x 3 ½" x 1 ½" foam blocks with the slot overlapping the seal above.
11. Install the divider into the slots of the foam blocks. You may need to trim the length to size.
12. Repeat steps 9 through 11 for the other vertical shown portion of the grille as shown.



13. Attach (2) 1″ x 1½″ x 14″ seals along the sides of the sleeve again making sure all seals are flush.
14. Cut the 1″ x 1½″ x 25″ seal to fit the top of the sleeve. The pieces must be fitted flush to the edge of the divider.
15. Center unit and gently slide in sleeve.
16. Before sliding all the way back, remove first screw from front on left side of unit.

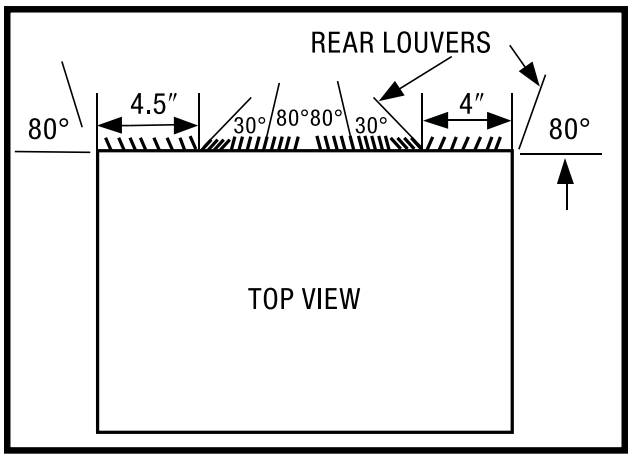
17. Remove the plastic washer from the screw.
18. Screw and attach the other end of the ground wire to the unit as shown in picture. Make sure that the toothed washer is against the cabinet.



19. Slide the unit completely to the rear to ensure a good seal, making sure the ground wire does not become tangled.
20. Seal & frame the unit as described on page 26.
21. If you have difficulty with mounting the grille to the sleeve, follow the instructions for direct mounting on page 25.

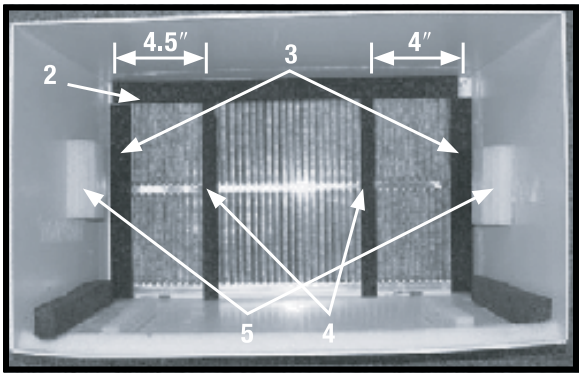
#8 EMERSON 15 IN. DEEP

1. Remove existing rear grille and replace with provided louvered panel. Install as shown here.



NOTE: You may need to drill holes in flange of existing sleeve to match new rear grille.

2. Attach (1) 1" x ⅜" x 25" long seal in the center at the top of the sleeve. Remove the backing paper and press into position.
3. Attach the (2) 1" x ⅜" x 14" long seals to the left and right sides of the sleeve.
4. Cut (2) 1" x ⅜" x 25" long seals to 14" long and attach to the vertical sections of the rear grille as shown.

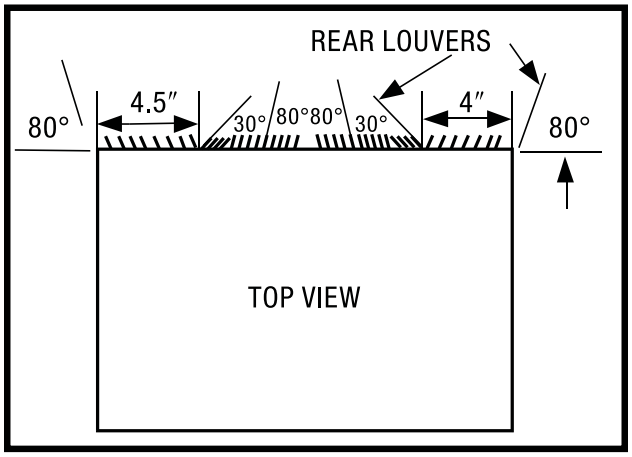


5. Attach (2) 4 ½" x 3 ½" x1 ½" centering/support blocks, one on each side wall. Place in center of side wall with the tapered end facing the opening.
6. Gently slide unit into sleeve.
7. Before sliding all the way back, remove second screw from front on left side of unit.
8. Remove the plastic washer from the screw.
9. Screw and attach the other end of the ground wire to the unit as shown in picture. Make sure that the toothed washer is against the cabinet.

10. Slide the unit completely to the rear to ensure a good seal, making sure the ground wire does not become tangled.
11. Seal & frame the unit as described on page 26.
12. If you have difficulty with mounting the grille to the sleeve, follow the instructions for direct mounting on page 25.

#9 WHITE WESTINGHOUSE, FRIGIDAIRE 22 IN. DEEP

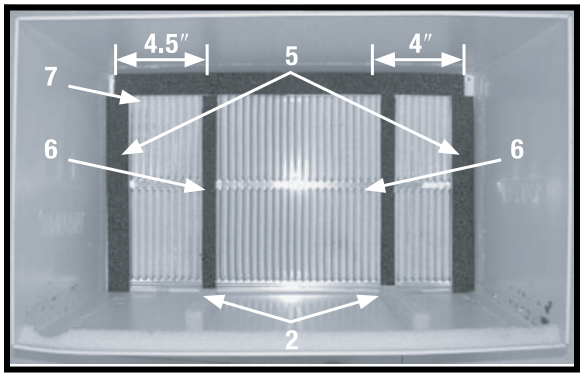
1. Remove existing rear grille and replace with provided louvered panel. Install as shown here.



NOTE: You may need to drill holes in flange of existing sleeve to match new rear grille.

BECAUSE OF THE INCREASED UNIT DEPTH, FIRST TRY DRY FITTING USING METHODS DESCRIBED BELOW:

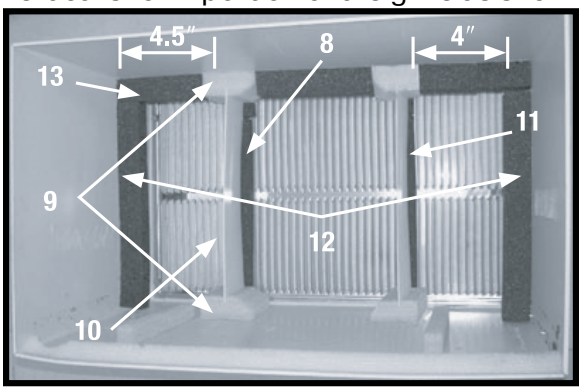
2. Place (2) 1" x 1 ½" x 14" seals against each side.
3. Gently slide unit in and check if amount extending from the sleeve is sufficient once the trim frame is attached.
4. If position is OK, remove unit and proceed to the next step. If not, go to step 8.
5. Attach (1) 1" x 1 ½" x 15" long seal to the left side of the sleeve and (1) 1" x 1 ½" x 15" seal to the right side of the sleeve.
6. Cut (2) 1" x 1 ½" x 25" long seals to 14" long and attach to the vertically to the rear grille 4.5" from the left side and 4" from the right side.



7. Attach (1) 1" x 1 ½" x 25" long seal in the center at the top of the sleeve. Remove the backing paper and press into position. Proceed to step 14.

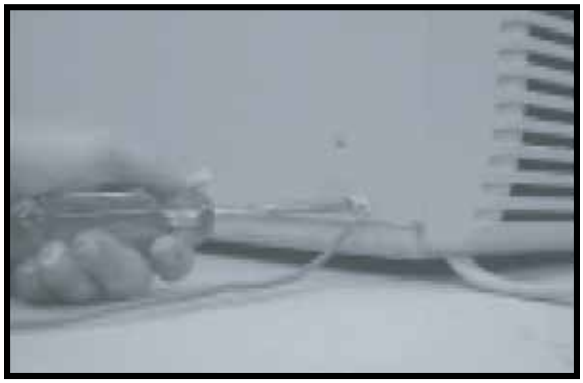
USE THESE NEXT STEPS IF THE UNIT REQUIRES EXTRA EXTENSION INTO THE ROOM.

8. Attach 1" x ¾" x 14" long seal over the solid vertical portion of the rear grille.
9. Attach (2) 4 ½" x 3 ½" x 1 ½" foam blocks with the slot overlapping the seal above.
10. Install the divider into the slots of the foam blocks. You may need to trim the length to size.
11. Repeat steps 8 through 10 for the other vertical shown portion of the grille as shown.



12. Attach (2) 1″ x 1½″ x 14″ seals along the sides of the sleeve again making sure all seals are flush.
13. Cut the 1″ x 1½″ x 25″ seal to fit the top of the sleeve. The pieces must be fitted flush to the edge of the divider.
14. Center unit and gently slide in sleeve.
15. Before sliding all the way back, remove first screw from front on left side of unit.
16. Remove the plastic washer from the screw.

17. Screw and attach the other end of the ground wire to the unit as shown in picture. Make sure that the toothed washer is against the cabinet.



18. Slide the unit completely to the rear to ensure a good seal, making sure the ground wire does not become tangled.
19. Seal & frame the unit as described on page 26.
20. If you have difficulty with mounting the grille to the sleeve, follow the instructions for direct mounting on page 25.

DIRECT UNIT MOUNTING

The previous directions are the preferable way to mount the new rear grille. The unit's performance is slightly better and the possibility of drafts is reduced. As a last resort, direct mounting of the grille to the unit can be considered.

NOTE: The grille must be installed prior to inserting the unit into the sleeve.

21. Attach the 2 seal pieces (1″ x 3/8″ x 14″) as shown in **FIG. 1**.

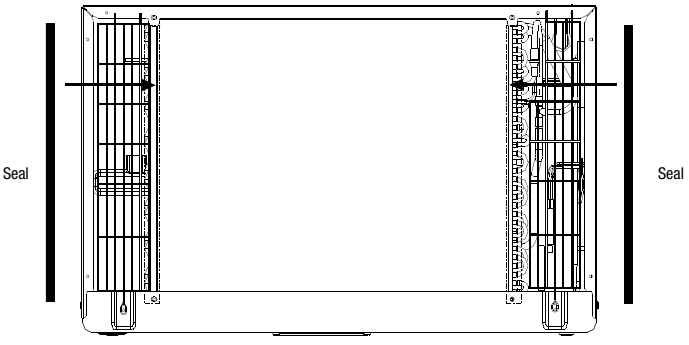


FIG. 1

22. Position the grille over the rear of the unit making sure that:
    a. The double set of screw holes are at the bottom.
    b. The fins of the grille are pointed away from the unit.
23. Align the top of the grille with the top of the unit and ensure that the overhang on each side is equal.
24. If the unit has not been pre-drilled (some models), carefully drill 4 -1/8″ holes through the grille and into the side flange of the unit approximately 1½″ to 2″ from the top and bottom as in **FIG. 2** and **FIG. 3**. (Be careful not to drill into copper heat exchange coils).

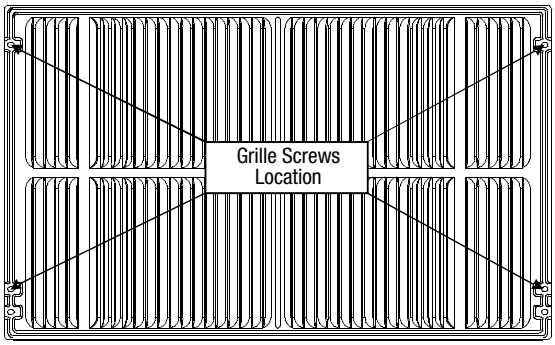


FIG. 2

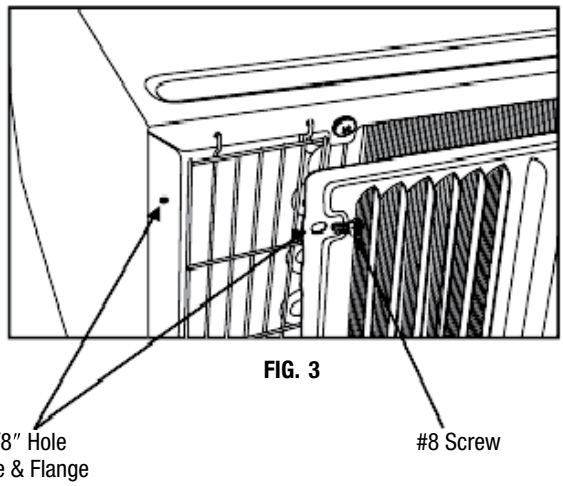


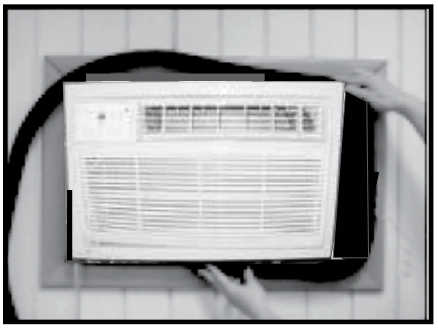
FIG. 3

25. Install 4 - #8 self tapping screws to affix the grille to the unit.
26. Insert the unit into the sleeve.

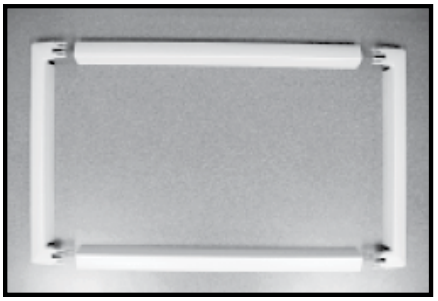
SEAL & FRAME AND NORMAL SOUNDS

SEAL & FRAME

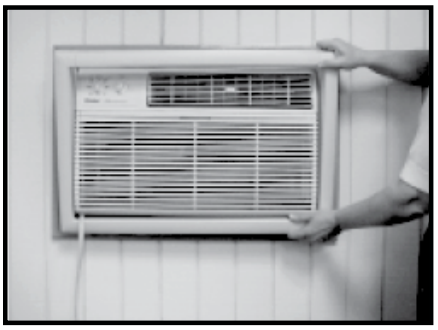
1. Install the 1" x 1 ½" x 84" long stuffer-seal between the wall sleeve and the unit. A flat bladed screwdriver or putty knife is recommended.



2. Assemble the trim frame by inserting top and bottom pieces into side pieces and snapping into place.



3. Pull cord through trim frame, then slide in unit until flush with wall.



NORMAL SOUNDS

High Pitched Chatter

High efficiency compressors may have a high pitched chatter during the cooling cycle.

Sound of Rushing Air

At the front of the unit, you may hear the sound of rushing air being moved by the fan.

Gurgle/Hiss

"Gurgling or hissing"noise may be heard due to refrigerant passing through evaporator during normal operation.

Vibration

Unit may vibrate and make noise because of poor wall or window construction or incorrect installation.

Pinging or Switching

Droplets of water hitting condenser during normal operation may cause "pinging or swishing" sounds. This noise can be reduce by removing the water plug at the bottom of unit's rear as shown below. Removing this plug will lower the Energy Efficiency of your unit.

NOTE: Don't try to drill any holes on the base pan to eliminate the normal sounds, otherwise it will void the warranty. Internal parts can be permanently damaged by drilling a hole into the base pan or any other location on the machine. The machine is designed to evaporate the water under normal conditions, not continuously drain.

OPERATION INSTRUCTIONS

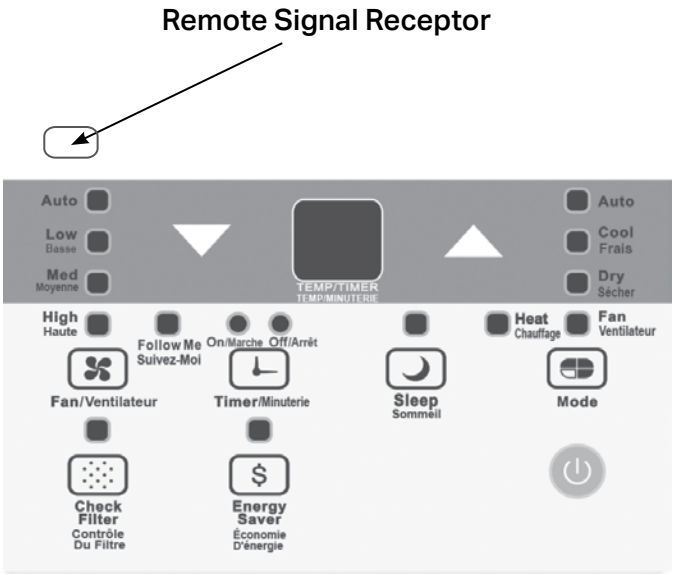
GET TO KNOW THE FEATURES

⚠ WARNING

- To reduce the risk of fire, electric shock, or injury to persons, read the IMPORTANT SAFETY INSTRUCTIONS before operating this appliance.
- Please always wait 3 minutes when turning unit off then on again, and when changing from cool to fan and back to cool. This prevents compressor from overheating & possible circuit breaker tripping.

ELECTRONIC CONTROL OPERATING INSTRUCTIONS

Thoroughly familiarize yourself with the control panel as shown below and all of its functions. Afterwards, follow the symbol for the functions you desire BEFORE operating the unit. This unit can be controlled by the unit control or with the remote control.



UNIT CONTROL PANEL

Heat indicator is only on units that possess heating capabilities.

TO TURN UNIT ON OR OFF

Press ⏻ POWER button to turn unit on or off.

NOTE: The unit will initiate automatically the Energy Saver function under COOL, DRY and AUTO modes. (only AUTO-COOLING and AUTO-FAN modes).

TO CHANGE TEMPERATURE SETTING

Press ▲/▼ button to change temperature setting.

NOTE: Press or hold either UP or DOWN (or ▲/▼ symbols) button until the desired temperature is shown on the display. This temperature will be automatically maintained anywhere between 62°F (17°C) and 86°F (30°C). If you want the display to read the actual room temperature, set the machine to Fan Mode.

TO ADJUST FAN SPEEDS

Press button to select the Fan Speed in four steps-Auto, Low, Med or High. Each time the button is pressed, the fan speed mode is shifted. During DRY mode the fan speed is set to Low and cannot be adjusted.

SLEEP FEATURE

Press SLEEP button to initiate the SLEEP mode. In this mode the selected temperature will increase (cooling) or decrease (heating) by 2°F (1°C) 30 minutes after the mode is selected. The temperature will then increase (cooling) or decrease (heating) by another 2°F (1°C) after an additional 30 minutes. This new temperature will be maintained for 6 hours before it returns to the originally selected temperature. This ends the SLEEP mode and the unit will continue to operate as originally programmed. The SLEEP mode program can be cancelled at any time during operation by pressing the SLEEP button again.

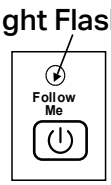
CHECK FILTER FEATURE

Press Check filter button to initiate this feature. This feature is a reminder to clean the Air Filter for more efficient operation. The LED (light) will illuminate after 250 hours of operation. To reset after cleaning the filter, press the button and the light will go off.

ENERGY SAVER/ECO FEATURE

Press ENERGY SAVER button to initiate this function. This function is available on COOL, DRY, AUTO (only AUTO-COOLING and AUTO-FAN) modes. The fan will continue to run for 3 minutes after the compressor shuts off. The fan then cycles on for 2 minutes at 10 minute intervals until the room temperature is above the set temperature, at which time the compressor turns back on and Cooling starts.

FOLLOW ME FEATURE



This feature can be activated from the remote control ONLY. The remote control serves as a remote thermostat allowing for the precise temperature control at its location.

To activate the FOLLOW ME feature, point the remote control towards the unit and press the Follow Me button. The remote display is actual temperature at its location. The remote control will send this signal to the air conditioner every 3 minutes interval until press the Follow Me button again. If the unit does not receive the Follow Me signal during any 7 minutes interval, the unit will beep to indicate the Follow Me mode has ended.

TO SELECT THE OPERATING MODE

To choose operating mode, press the Mode button. Each time you press the button, a mode is selected in a sequence that goes from AUTO, COOL, DRY, HEAT (units with heating function only) and FAN. The indicator light beside will be illuminated and remained on once the mode is selected.

The device activates the Energy Saver function automatically when operating in COOL, DRY, or AUTO mode, specifically under AUTO-COOLING and AUTO-FAN. You may turn it off by pressing the "Energy Saver" button on the control panel.

To operate on COOL mode

- Choose COOL Mode to set the cooling function. Use the ▲/▼ buttons to choose the desired temperature.
- When Cool Mode is selected, the fan speed can be adjusted by pressing the FAN button.

To operate on HEAT mode

- Choose Heat Mode to set the heating function. Use the ▲/▼ buttons to choose the desired temperature. When heat mode is selected, the fan speed can be adjusted by pressing the fan button.
- The heating coils take about 5-10 minutes to heat up to full capacity, during this time you may not feel heat coming from the machine.
- During the Heat mode, you may observe a bright red or orange color visible behind the air louvers. This is caused by the heating coils generating light and is completely normal. Please be assured that this is not a cause for concern and does not indicate any malfunction or defect.

NOTE: Energy Saver/ECO function will not operate in Heat mode

To operate on AUTO mode

- Auto Mode is designed to automatically regulate the room temperature around the temperature point set by you. This means that once you have set the desired temperature, the air conditioner will rotate between modes accordingly to maintain that temperature point.
- In this mode, the fan speed cannot be adjusted, it starts automatically at a speed according to the room temperature.

To operate on FAN ONLY mode

- Use this function only when cooling is not desired, such as for room air circulation or to exhaust stale air. (Remember to open the vent during this function, but keep it closed during cooling for maximum cooling efficiency.)
- During Fan Mode:
  - You may chose any fan speed.
  - The display will show the actual room temperature.
  - The temperature will not be adjustable.

To operate on DRY mode

- 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 occur.
- In Dry Mode, the fan speed is automatically set to Low and cannot be adjusted.

TIMER: AUTO START/STOP FEATURE

- Press button, the TIMER ON or TIMER OFF indicator light illuminates. It indicates the Auto Start or Auto Stop program is initiated. For some units, keep pressing the Timer button will cancel the timer settings.
- Press or hold the UP or DOWN button to change the Auto time by 0.5 hour increments, up to 10 hours, then at 1 hour increments up to 24 hours. The control will count down the time remaining until start.
- The selected time will register in 5 seconds, and the system will automatically revert back to display the previous temperature setting or room temperature when the unit is on. (When the unit is off, there is no display.)
- Turning the unit ON or OFF at any time or adjusting the timer setting to 0.0 will cancel the Auto Start/Stop timed program.

NOTE: When you set the timer, the unit will only go on once and off once. If you want the air conditioner to cycle on and off based on desired room temperature, you do not need to set the timer. Instead, set your desired temperature and the unit will cycle on and off based on that temperature setting.

DISPLAY

Shows the set temperature in "°F" or "°C" and the Auto-timer settings. While on FAN only mode, it shows the room temperature.

If the room temperature has more than two digits and cannot be displayed on the screen, it will display "HI" or "LO".

Error codes:

AS - Room Temperature Sensor Error

HS - Electric Heating Sensor Error

• - Evaporator Temperature Sensor error

Unplug the unit and plug it back in.
If error repeats, call Consumer Services

NOTE: If an error code occurs in Fan only mode, the unit will display "LO" (loose connection) or "HI" (short circuit).

⚠ CAUTION If the unit breaks off unexpectedly due to the power cut, it will restart with the previous function setting automatically when the power resumes.

ADDITIONAL THINGS YOU SHOULD KNOW

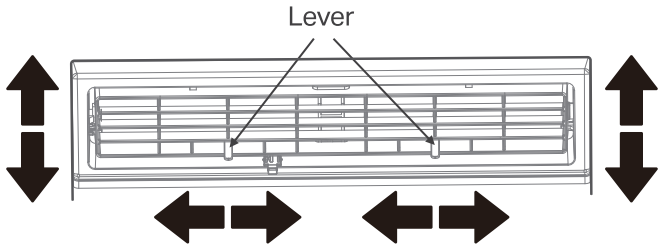
Now that you have mastered the operating procedure, here are more features in your control that you should become familiar with.

- The Cool circuit has an automatic 3 minutes time delayed start if the unit is turned off and on quickly. This prevents overheating of the compressor and possible circuit breaker tripping. The fan will continue to run during this time.
- The control is capable of displaying temperature in degrees Fahrenheit or degrees Celsius. To convert from one to the other, press and hold the Up and Down (or ▲/▼ symbols) buttons at the same time for 3 seconds.

ADJUST YOUR AC DIRECTION

⚠ CAUTION Do not stick your fingers in the air outlet, it may cause an injury.

FOUR-WAY ADJUSTMENT (UP OR DOWN, LEFT OR RIGHT)



The louvers will allow you to direct the air flow Up or Down and Left or Right throughout the room as needed. Pivot horizontal louvers until the desired Up/Down direction is obtained. Move the Lever(s) from side to side until the desired Left/Right direction is obtained.

CHECK THE AIR FILTER ONCE A MONTH TO SEE IF CLEANING IS NECESSARY

The air filter should be checked at least once a month to see if cleaning is necessary. Trapped particles in the filter can build up and cause an accumulation of frost on the cooling coils.

If the area usually has high air particle pollution, for example animal fur or smoking, the filter will need to be checked and cleaned more often.

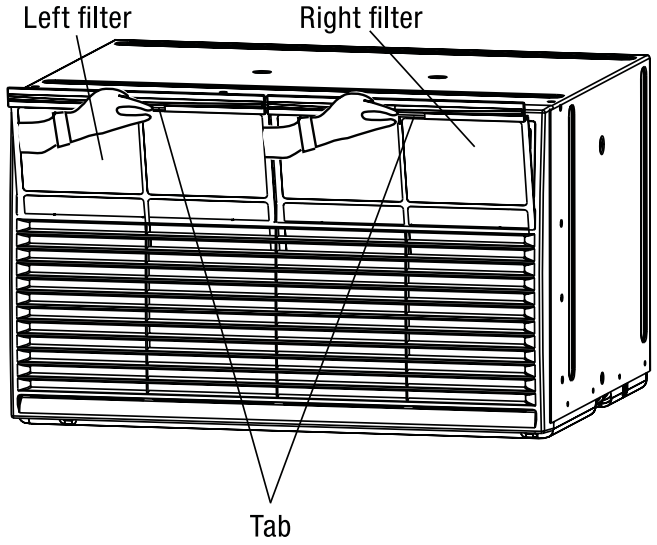
To clean the filter:

- Push the vent handle to the Vent Closed position (where applicable).
- Place one hand on each side of the unit and tilt open the front panel.
- Grasp the filter by the center to pull up and out.
- Wash the filter using liquid dish-washing detergent and warm water. Rinse filter thoroughly.
- Gently shake excess water from the filter. Be sure the filter is thoroughly dry before replacing.
- As an alternative to washing the filter, vacuum the filter clean.

NOTE: Never use hot water over 104°F (40°C) to clean the air filter. Never attempt to operate the unit without the air filter.

⚠ CAUTION

Clean your air conditioner occasionally to keep it looking new. **Be sure to unplug the unit before cleaning to prevent electric shock or fire hazards.**



CABINET CLEANING

- Be sure to unplug the air conditioner to prevent shock or fire hazard. The cabinet and front may be dusted with an oil-free cloth or washed with a cloth dampened in a solution of warm water and mild liquid dish washing detergent. Rinse thoroughly and wipe dry.
- Never use harsh cleaners, wax or polish on the cabinet front.
- Be sure to wring excess water from the cloth before wiping around the controls. Excess water in or around the controls may cause damage to the air conditioner.
- Plug in air conditioner.

ENERGY SAVING NOTE

In order to reach maximum energy savings and comfort, when not in use, it is recommended that the unit be covered inside your home for added insulating purposes. The recommended size for the cover is 24.4" wide x 14.8" high x 2.2" deep.

INSTRUCTIONS FOR WINTER STORAGE

Choose the Storage Location

Select a dry, cool, and indoor location for storage. Avoid places with extreme temperature changes, for example, uninsulated garages, crawlspaces, and sheds should be avoided.

Locate the Original Box

Retrieve the original box and packaging materials that the air conditioner came in. If the original box is unavailable, find a suitable cardboard box that is close in size and provides a snug fit for the unit and accessories.

1. **Power Down and Unplug:**
   Turn off the air conditioner using the power button or remote control. Unplug the unit from the electrical outlet.
2. **Remove Any Attachments:**
   If there are any detachable parts or accessories, such as side accordion panels, carefully remove them from the air conditioner.
3. **Clean the Air Conditioner:**
   Allow the unit to cool down if recently used. Use a soft, damp cloth to clean the air conditioner's exterior, removing dirt or dust. **ALLOW THE AIR CONDITIONER TO DRY A FULL 48 HOURS BEFORE STORAGE**
4. **Position the Air Conditioner in the Box:**
   Pack any detachable parts in Step 2 alongside the air conditioner and user manual inside the box. Make sure they are properly secured to avoid damage during storage. Carefully place the air conditioner inside the original or suitable replacement box. Ensure the unit fits securely, leaving little to no room for movement. Never use a tarp, garbage bag, or similar material to wrap the air conditioner, this will trap moisture. Always store upright, NEVER store on the side or upside down!
5. **Store the Remote Control:**
   If your air conditioner has a remote control, remove the batteries before storage to prevent potential corrosion. Always use fresh batteries the following year.
6. **Seal the Box:**
   Close the box securely and seal all the seams and edges using packing tape. This will prevent dust and debris from getting inside during storage.
7. **Elevate the Air Conditioner:**
   Place the air conditioner on a clean and dry surface. Elevate the unit slightly off the ground using wooden blocks or other suitable supports to protect it from moisture damage.

Periodically check the air conditioner during winter to ensure no water or moisture buildup inside the box. If you notice any issues or damage following summer, contact a technician before using the unit again.

TROUBLESHOOTING

Before calling for service, review this list. It may save your time and expense. This list includes common occurrences that are not the result of defective workman-ship or materials in this appliance.

Problem	Solution
AIR CONDITIONER NOT COOLING ROOM, OR NOT BLOWING COLD AIR	Be sure unit is not too large or too small for the area of the room.
	Verify that all doors, windows, curtains and any other openings are closed.
	Verify nothing is obstructing the front grille of unit, such as curtains, etc.
	Allow enough time for room to cool, especially if outside temp is very high.
	Check that the filter is not dirty and louvers are open all the way and blowing in the desired direction.
	Check that unit is set to COOL mode and that temperature is down enough (but not too low).
	If unit is near a heat source, such as a stove, etc., relocate unit.
	If air coming from unit is cool to the touch, then unit is working properly; please double check the first three bullet points above.
	If using Follow Me remote feature, move remote away from unit.
	Temperature sensor behind air filter touching cold coil. These two elements should not be touching. Carefully straighten tube away from coil.
	Unplug unit for at least 5 minutes. Follow Reset instructions on plug.
AIR CONDITIONER COOLING BUT ROOM IS TOO WARM - ICE FORMING ON COOLING COIL BEHIND DECORATIVE FRONT	Outdoor temperature is below 64ºF (18ºC). To defrost the coil, set to FAN only mode.
	Air filter may be dirty. Clean filter. Refer to Care and Cleaning section. To defrost, set to FAN only mode.
	Thermostat is set too cold for night-time cooling. To defrost the coil, set to FAN only mode. Then, set temperature to a higher setting.
AIR CONDITIONER CYCLING ON AND OFF TOO FREQUENTLY OR NOT ENOUGH	Be sure unit is not too large or too small for the area of the room.
	Remove grille and make sure the temperature sensor is not too close to the coils. These two elements should not be touching. Carefully straighten tube away from coil.
	Make sure nothing is blocking the grille or side vents.
	Make sure there is no dirt or debris inside the unit or on the filter.
UNIT WILL NOT TURN ON	Reset circuit breaker. Make sure there are not too many items (i.e. lamps, TV's, etc.) working off the same breaker.
	Check plug connection.
	If plug is operating on an on/off switch, be sure that the switch is 'on'.
	Try plugging unit into another outlet.
	Unplug unit for at least 5 minutes. Follow Reset instructions on plug.

TROUBLESHOOTING *(Continued)*

Problem	Solution
UNIT BLOWS FUSES OR POPS CIRCUIT BREAKER	Make sure there are enough available amps on the circuit for the air conditioner.
	Large units which run on a 230v will require a dedicated 20 or 30 amp circuit.
AIR CONDITIONER IS MAKING NOISES	Check to be sure the unit is free from debris such as leaves, sticks, etc. Verify nothing is obstructing the unit.
	Check the fan blade for cracks or chips.
	Make sure the unit is properly and securely mounted inside the window or wall.
	Clean the air filter.
WATER PUDDLES INSIDE UNIT OR IS COMING INTO ROOM	Adjust the slope of the unit so that it drains downward toward the exterior of the home. (See Installation Instructions.)
	Make sure that there is no debris blocking the drainage area of the unit.
WATER DRIPPING OUTSIDE	Unit is removing a large quantity of moisture from a humid room. This is normal during excessively humid days.
REMOTE SENSING / FOLLOW ME DEACTIVATING PREMATURELY	Remote control not located within range. Place remote control within 20 ft and 180º radius of the front of the unit.
	Remote control signal obstructed. Remove obstruction.

NOTE: A highly recommended troubleshoot for any issue in general consists of turning off unit and unplugging for 5 minutes. It is also recommended to try another wall outlet. For further assistance, contact customer service at 855-663-9463.

The design and specifications are subject to change without prior notice for product improvement. Any updates to the manual will be uploaded to the Arctic Wind website (www.arcticwindac.com), please check for the current version.

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