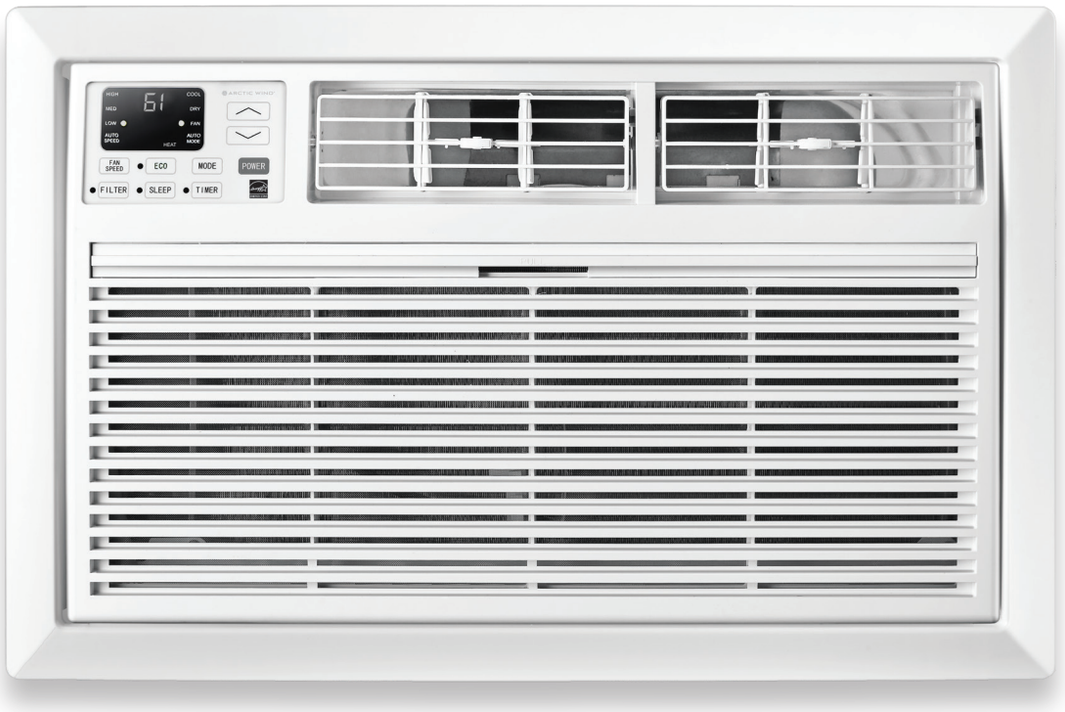
ARCTIC WIND®

OWNER'S MANUAL

Through The Wall
AIR CONDITIONER



IMPORTANT:
Thank you for your purchase. Please read this manual carefully before operating.
Make sure to save this manual for future reference.

ARCTIC WIND®

TABLE OF CONTENTS

FOR TTW A/C MODELS

2ATWH8000A
2ATWH10002A
2ATWH12002A
2ATWH14002A
2ATW8000A
2ATW10000A
2ATW10002A
2ATW12000A
2ATW12002A
2ATW14002A

ARCTIC WIND®

IMPORTANT SAFETY INSTRUCTIONS

Before installing and using your air conditioner, please read this owner's manual carefully. Store this manual in a safe place for future reference. Your safety and the safety of others is very important to us. Please pay attention to all safety messages outlined in this owner's manual.

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

- **Plug into a grounded 3 prong outlet**
- **Do not remove the ground prong**
- **Do not use a plug adapter**
- **Do not use an extension cord**
- **Unplug the air conditioner before servicing**
- **Use two or more people to move and install the air conditioner**

This is a safety alert symbol.

This symbol alerts you to potential hazards that can harm you or others or even cause death.

All safety messages will directly follow the safety alert symbol and/or the words **"DANGER"** or **"WARNING".**

⚠ DANGER
⚠ WARNING

Failure to immediately follow these instructions may cause serious injury or even death.

All Safety messages alert you of potential hazards, how to reduce the chance of injury, and what can happen if instructions are not followed correctly.

ELECTRICAL REQUIREMENTS

⚠ WARNING

Electrical Shock Hazard

Plug into a grounded 3 prong outlet.

Do not remove ground prong.

Do not use an adapter.

Do not use an extension cord.

Failure to follow these instructions can result in death, fire, or electrical shock.

The electrical ratings for your air conditioner are listed on the model and serial number label located on the front left side of the unit (when facing the front).

Specific electrical requirements are listed in the chart below. Follow the requirements below for the type of plug on the power supply cord.

Power Supply Cord	
8K/10K/12K-115V Cooling	10K/12K/14K-230V Cooling
	

Recommended Ground Method

For your personal safety, this air conditioner must be grounded. This air conditioner is equipped with a 3 prong power supply cord with a grounded plug. To minimize the possibility of electrical shock, the cord must be plugged into a 3 prong outlet and grounded in accordance with all local codes and ordinances. If a 3 prong outlet is not available, it is the customer's responsibility to have a properly grounded 3 prong outlet installed by a qualified electrician.

It is the customer's responsibility:

To contact a qualified electrician

To assure that the electrical installation is adequate and in conformance with the National Electrical Code, ANSI/NFPA 70 - latest edition, and all local codes and ordinances.

Copies of the standards listed may be obtained from:

National Fire Protection Association

One Batterymarch Park

Quincy, Massachusetts 02269

LCDI Power Cord and Plug

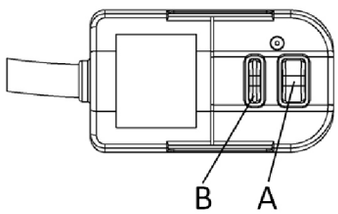
This air conditioner is equipped with an LCDI (Leakage Current Detection and Interruption) power cord that is required by UL. This power supply cord contains state-of-the-art electronics that sense leakage current. If the cord is damaged and leakage occurs, power will be disconnected from the unit.

The test and reset buttons on the LCDI Plug are used to check if the plug is functioning properly.
To test the plug:

1. Plug power cord into a grounded 3 prong outlet
2. Press RESET (on some units a green light will turn on).
3. Press the TEST Button, the circuit should trip and cut all power to the air conditioner (on some units a green light may turn off.
4. Press the RESET button for use. You will hear a click and the A/C is not ready for use.

NOTES:

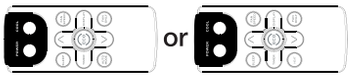
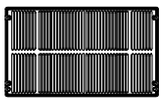
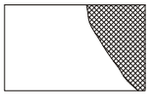
- The RESET button must be engaged for proper use.
- The power supply cord must be replaced if it fails to trip when the TEST button is pressed and the unit fails to reset.
- Do not use the power supply cord as an ON/OFF switch. The power supply cord is designed as a protection device.
- A damaged power supply cord must be replaced with a new power supply cord.
- The power supply cord contains new user serviceable parts. Opening the tamper-resistant case voids all warranty and performance claims.



A. Reset button
B. Test button

NOTE: Your units power cord and plug may differ from the one shown.

PACKING LIST

IMAGES	PARTS	QUANTITY
	Through-The-Wall Air Conditioner	1
	Remote Control	1
	Trim Frame 1 (Left & Right legs)	2
	Trim Frame 2 (Top & Bottom legs)	2
	Aluminum Grille	1
	Rear plastic net	1
	1/2″ Long Hex-head Screw	4
	Grounding wire with tooth washer	1
	AAA Battery	2

DIMENSION	PARTS	QUANTITY
1″ x 3/4″ x 14″	Sponge Seal	2
1″ x 3/8″ x 14″	Sponge Seal	2
1″ x 3/8″ x 25″	Sponge Seal	3
1″ x 1 1/2″ x 25″	Sponge Seal	3
1″ x 1 1/2″ x 14″	Sponge Seal	2
1″ x 1 1/2″ x 84″	Sponge Seal	1
3 3/4″ x 1 1/2″ x 4″	Sponge Seal	4
3/4″ x 1 1/2″ x 17″	Sponge Seal	2

Universal Wall Sleeve Dimensions

1. Identify the wall-sleeve brand for your preparing, from the below chart.

TYPE	WALL SLEEVE DIMENSIONS		
	Height	Width	Depth
Standard Dimension	15 3/4″	26″	16 3/4″

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 the sleeve or rear flange that serves as a stop for the air conditioner.**
- **If you choose another brand wall-sleeve, be sure the dimensions are suitable for this product.**
- **The wall-sleeve you selected must fasten to the wall with screws.**

CAUTION

When the installation is complete, the AC unit must have a rearward slope as shown in Fig 1.

2. Remove old Air Conditioner from wall sleeve and prepare as follows:

--- Clean interior (Do not disturb seals).
--- Check the wall sleeve to be sure it is securely fasted in the wall before installing.
--- Repair painted surface if needed.

3. If the ground wire hole does not exist, drill a 3/16″ pilot hole for the grounding screw through the left-hand side of the sleeve in a clear area no more than 3 inches from the front edge as shown below. Pull the loose end of the ground wire out of the front of the sleeve and bend it away from the opening. This will be attached to the air conditioner once installed.

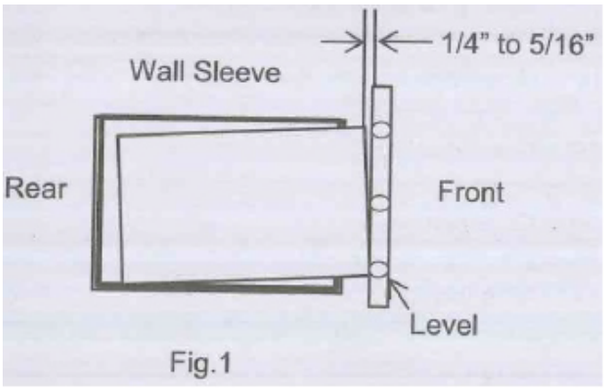


Fig.1

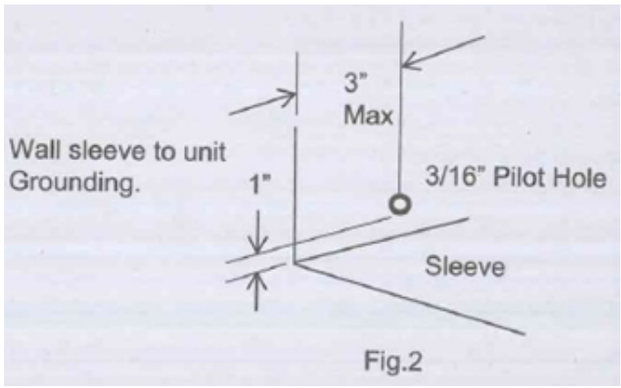


Fig.2

4. Install the new unit into the wall sleeve.

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

6. Assemble and install the trim frame.

INSTALLATION & ASSEMBLY INSTRUCTIONS

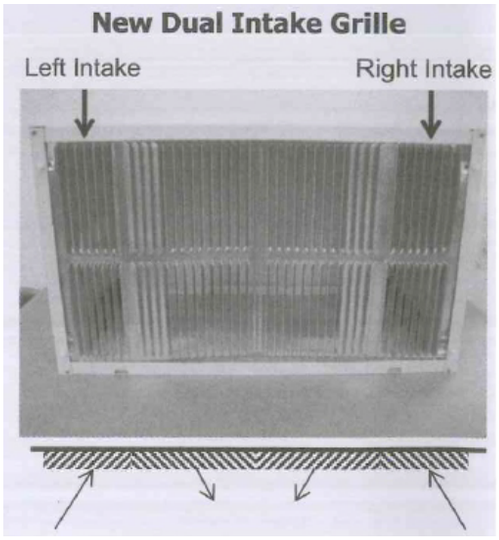
NOTE:

- **This unit's increased performance characteristics are the result of having two rear intakes.**
- **These installation instructions must be followed for your unit to operate at maximum efficiency.**
- **If there is an existing sleeve and rear grille, please check whether the dimension is suitable or not, otherwise replace them.**

Existing Frigidaire sleeves may have older single-sided intake grilles, as the below pictures show.

1. These grilles should be replaced with the dual intake grille type, as shown in the pictures below.

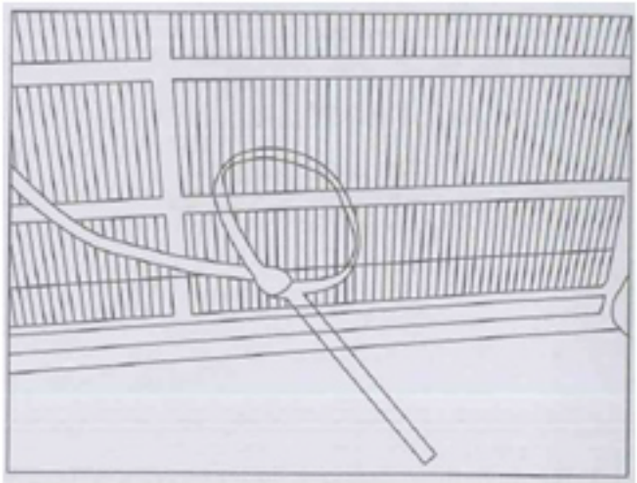
   - Remove the existing grille and save the mounting screws.
   - Place the grille included with your new air conditioner towards the inside rear of the sleeve.
   - Attach the new grille by aligning the four mounting holes.
   - Re-insert the self-tapping screws into the nylon retainers.

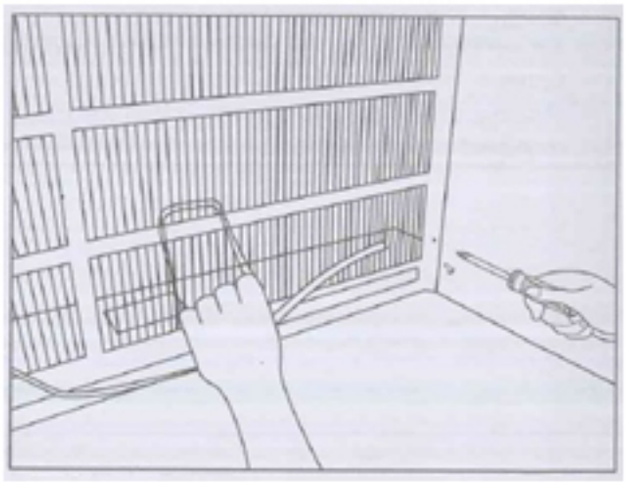


2. Grille Removal
   IMPORTANT: Single intake grille must be removed when used with dual intake TTW unit.

   WARNING: When removing the grille, protect it from falling by securing with a leash. This can be fastened from cord or strapping looped through the grille and secured with a knot.

   While holding the grille by the leash with one hand, the retaining screws can be removed and the grille can be brought inside through the front of the sleeve.





Direct Unit Mounting

In the case where the dual intake grille cannot be mounted directly to the sleeve, it is necessary to attach the grille to the back of the TTW unit to the hole predrilled in the unit.

1. Attach the 2 seals(1″x3/8″x14″), as shown in Fig. 1.

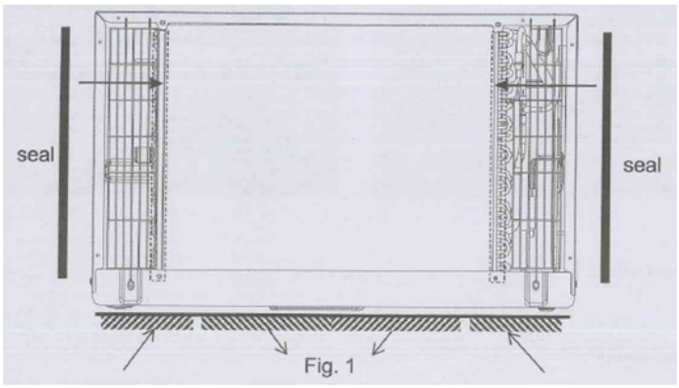


Fig. 1

2. 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 intake fins on either side are pointed away from the unit.
3. Align the top of the grille with the top of the unit. The overhang on each side is equal.
4. If the unit has not been predrilled (some models), carefully drill 4-1/8″ holes through the grille and into the side flange of the unit approximately 1 1/2″ to 2″ from the top and bottom, as Fig. 2 and 3 show. (Be careful not to break the copper pipe)

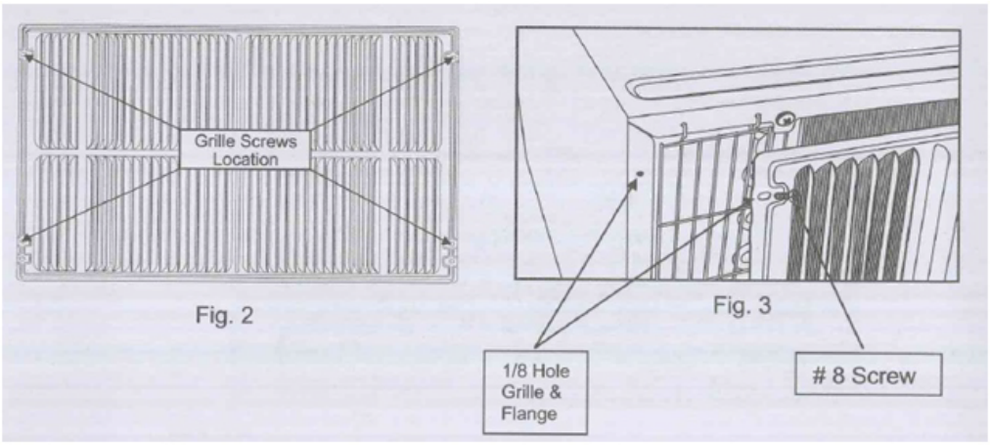


Fig. 2 Fig. 3

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

Grille to Sleeve Attachment

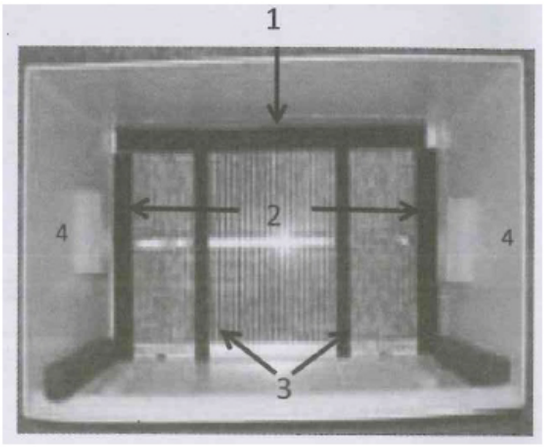
In the case where the dual intake grille fits inside the sleeve and the grille flange overlaps the sleeve flange, direct attachment may be possible.

IMPORTANT

If the suitable grille is not used, it may lead to product damage and possible failure.

Seal Installation

1. 1″x3/8″x25″ long seal in the center at the top of the sleeve. Remove the back paper and press it into position.
2. 1″x3/8″x14″ seals to the left and right sides of the sleeve.
3. Cut 1″x3/8″x25″ long seals to 14″ long each and attach to the vertical sections of the grille as shown.
4. 1/2″x3 1/2″x1 1/2″ centering blocks one on each sidewall. Place in the center of the sidewall with the tapered end facing the opening.
5. Gently slide the unit into the sleeve.



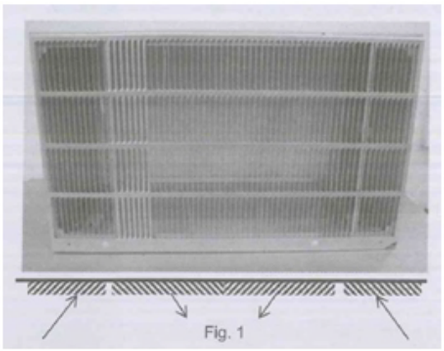
Ground Wire Installation

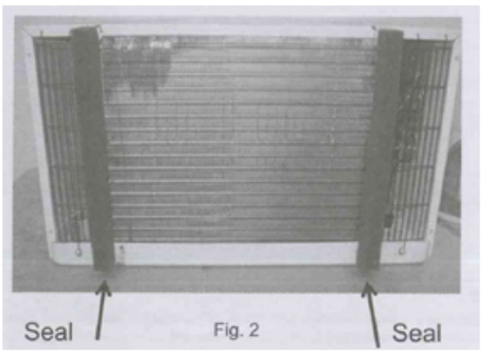
1. Install screw end of the ground wire into the inside of the sleeve according to preparation instruction.
2. Before sliding the unit all the way back remove the second screw from the left side of the unit.
3. Remove the plastic washer from the screw.
4. Screw the other end of the ground wire into the unit as shown. Make sure the toothed washer is against the cabinet.
5. Slide unit completely to the rear

Non-Frigidaire Dual Intake Grille

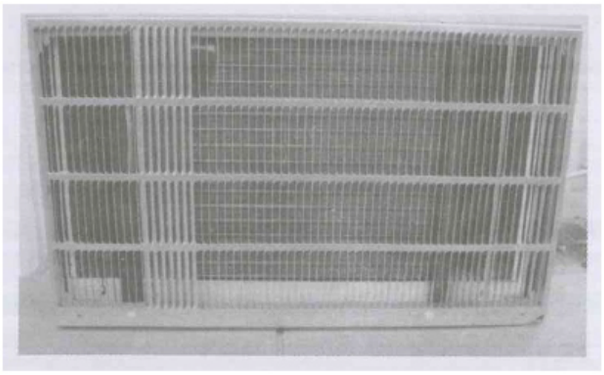
In the case where the existing sleeve is a non-Frigidaire sleeve but is installed with a dual intake grille, the existing grille may be left in place. Make sure the outer 3 1/2″ to 4 1/2″ louvers are angled from the left and right sides of the sleeve toward the center, as Fig. 1 shows. This provides the proper flow of outside air into the unit.

From the installation kit, apply two 1″x3/4″x14″ seals along the flat metal flange of the condenser, as Fig. 2 shows.

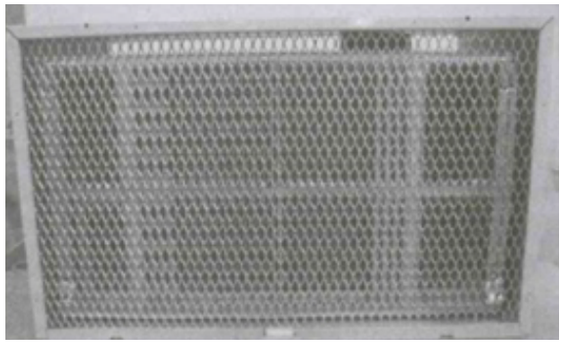




Insert the unit with the seal into the sleeve, making sure the seals are against the rear grille. The seals are necessary to reduce the recirculation of hot air into the intakes which would reduce system performance.

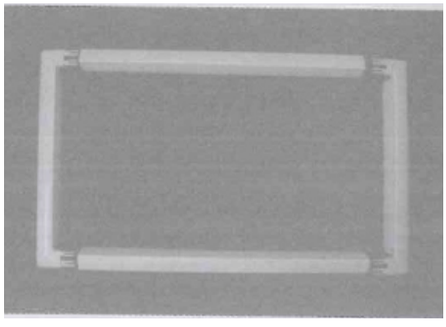


One option is to purchase a 3/4″ diamond-cut aluminum grille and cut it to fit inside the sleeve. Secure it with screws. Attach the dual intake grill directly to the back of the unit. Slide the entire unit into the sleeve and seal with the stuffing seal supplied with the kit.



Trim Kit Installation Instructions

1. Install the 1″x1″x84″ long stuffer seal between the wall sleeve and the unit. A flat-bladed screwdriver or putty knife is needed.
2. Assemble the trim frame by inserting the top and bottom pieces into side pieces and snapping into place.
3. Pull the cord through the trim frame and slide the trim over the unit until flush with the wall.



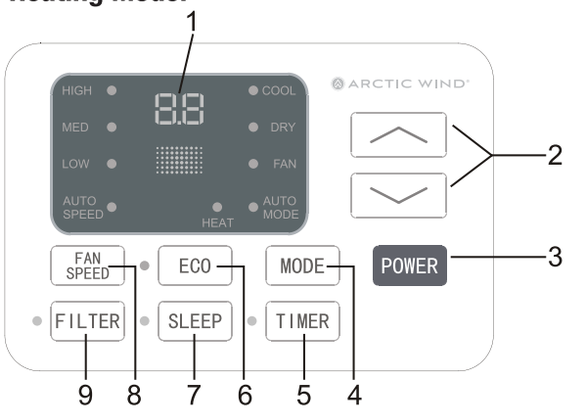
WARNING: To reach the maximum energy saving and comfortability, it is necessary to use an appropriately sized cover to provide additional insulation and air sealing when the unit is not in use during the off-using-season.

USING YOUR AIR CONDITIONER

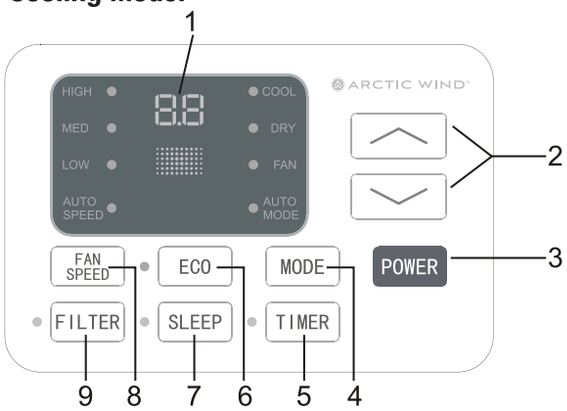
Electronic Control Panel & Remote Control

NOTE: This display always shows the room temperature in Fan Mode except when setting the Timer.

For Heating Model



For Cooling Model



Air Conditioner Controls

Normal Operating Sounds

- You may hear a pinging noise caused by water hitting the condenser on rainy days, or when the humidity is high. This design feature helps remove moisture and improve efficiency.
- You may hear the thermostat click when the compressor cycles on and off.
- Water will collect in the base pan during rain or days of high humidity. The water may overflow and drip from the outside part of the unit.
- The fan may run even when the compressor is not on.

1. **Digital Display:** Without timer setting, the set temperature will be displayed. Time will be displayed under the timer setting.

2. ∧ **and** ∨ **Button:** Use these buttons on the control panel and remote to increase or decrease the Set Temperature or Timer. Temperature range: 61ºF~88ºF or 16ºC~31ºC.

3. ⏻ **Button:** Turn the air conditioner on and off.

4. **Mode Button:** Press the mode button to cycle through the various modes: Cool, Dry, Fan and Auto, or Heat.

   Cool Mode: The cooling function allows the air conditioner to cool the room and at the same time reduces air humidity. Press the MODE button to activate the cooling function. To optimize the function of the air conditioner, adjust the temperature and the speed by pressing the button indicated.

   Dry Mode: This function reduces the humidity of the air to make the room more comfortable. Press MODE button to set the DRY mode. An automatic function of alternating cooling cycles and air fan is activated.

   Fan Mode: The conditioner works in only ventilation. Press MODE button to set the FAN mode. With pressing the FAN SPEED button the speed changes in the following sequence: Hi, Med and Lo in FAN mode.

   Auto Mode: In AUTO mode the unit automatically chooses the fan speed and the mode of operation (COOL, HEAT, DRY or FAN). In this mode the temperature are set automatically according to the room temperature (tested by the temperature sensor which is incorporated in the indoor unit.).

   Heat Mode: The heating function allows the air conditioner to heat the room. Press the MODE button to activate the heating function. To optimize the function of the air conditioner, adjust the temperature and the speed by pressing the button indicated.

Electronic Control Panel & Remote Control

5. **Timer Button:** Use these buttons on the control panel and remote to set the Timer.
Timer Off: The timed stop is programmed by pressing TIMER button. Set the rest time by pressing the button "∧" or "∨" until the rest time displayed is to your liking then press the TIMER button again.
Timer On: When the unit is off, press TIMER button at the first time, set the temperature with pressing the button "∧" or "∨". Press TIMER button at the second time, set the rest time with pressing the button "∧" or "∨". Press TIMER button at the third time, confirm the setting, then the rest time to next automatical switching-on could be read on the display of the machine.

Note: It can be set to automatically turn off or on in 0.5-24 hours. Each press of the "∧" or "∨" buttons will increase or decrease the timer. The Timer can be set in 0.5 hours increment below 10 hours and 1 hour increment for 10 hours or above. The SET light will turn on while setting. To cancel the set function, press the TIMER button again.

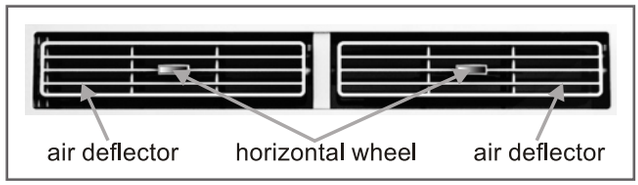
6. **Eco Mode Button:** When the unit is in ECO mode, the light will turn on. In ECO mode, the unit will turn-off once the room is cooled to the user set temperature. The unit will turn back on when the room temperature rises above the user set temperature. Before the compressor starts, the fan motor will run for 20 sec., then it will stop for 10 min., It will repeat to provide a much more comfortable feeling and save energy

7. **Sleep Button:** Press the SLEEP button, all the display lights will turn off after a while, but the SLEEP light is always on. In SLEEP mode, the air conditioner will automatically adjust the temperature and fan speed to make the room more comfortable during the night. The set temperature will automatically change every 30-60 minutes and at most change six times until the setting temperature is 81°F or 82°F for cooling mode and 75°F or 76°F for heating mode.

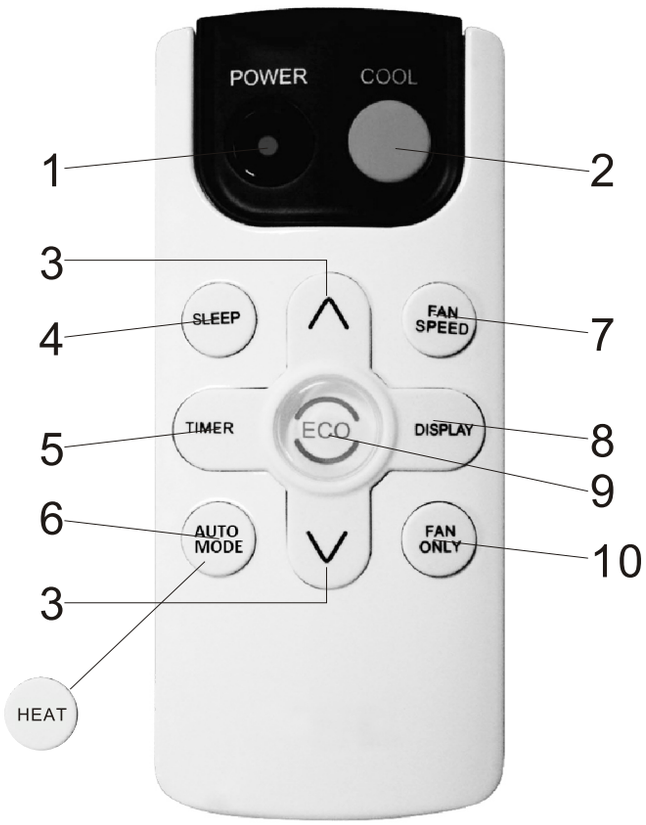
8. **Fan Speed Button:** Press the FAN SPEED button to choose the fan speed options. You can choose Hi, Med, Lo or auto speed in COOL or HEAT mode and choose Hi, Med, Lo in FAN mode.

9. **Filter Button:** When the Filter Check light is off, it isn't necessary to press the Filter Check button. When the Filter Check light is on, you can turn off the light by pressing the Filter Check button. After the fan motor works for 500 total hours, the Filter Check light will turn on to remind the user to clean the filter.

10. **Directional Louvers:** To direct the airflow, use the horizontal wheel to control the horizontal direction and the air deflector to control the vertical direction.



REMOTE CONTROL



1. **POWER:** Turn the air conditioner on and off.
2. **COOL:** Press the COOL button to COOL mode.
3. ∧ **and** ∨ **:** Use these buttons on the control panel and remote to increase or decrease the Set Temperature or Timer.
   Temperature range: 61ºF~88ºF or 16ºC ~31ºC .
4. **SLEEP:** Press the SLEEP button, all the display lights will turn off after a while, but the Sleep Light is always on. In SLEEP mode, the air- conditioner will automatically adjust the temperature and fan speed to make the room more comfortable during the night. For cooling mode, the set temperature will automatically raise every 30-60 minutes and at most change six times until the set temperature is 81 or 82 ºF. For heating mode, the set temperature will automatically decrease every 30-60 minutes and at most change six times until the set temperature is 75 or 76 ºF. And every running time depends on the set temperature.
5. **TIMER:** Use these buttons on the control panel and remote to set the Timer.
   Timer Off: The timed stop is programmed by pressing TIMER button. Set the rest time by pressing the button "∧" or "∨" until the rest time you want is displayed, then press TIMER button again.
   Timer On: When the unit is off, press TIMER button one time and set the temperature by pressing the button "∧" or "∨". Press TIMER button a second time to set the rest time by pressing the button "∧" or "∨". Press TIMER button at the third time, confirm the setting, then the rest time to next automatical switching-on could be read on the display of the machine.

Note: The timer can be set to automatically turn off or on in 0.5-24 hours. Each press of the "∧" or "∨" buttons will increase or decrease the timer. The Timer can be set in 0.5 hours increment below 10 hours and 1 hour increment for 10 hours or above. The SET light will turn on while setting. To cancel the set function, press the TIMER button again.

6. **MODE: a. AUTO:** In AUTO mode the unit automatically chooses the fan speed and the mode of operation (COOL,HEAT,DRY or FAN). In this mode the temperature is set automatically according to the room temperature (tested by the temperature sensor which is incorporated in the indoor unit.). It is for cooling only model.
   b. HEAT: Press the HEAT button to HEAT mode. It is for heating model.
7. **FAN SPEED:** Press the FAN SPEED button to choose the fan speed options. You can choose Hi, Med, Low, or auto speed in COOL mode and choose Hi, Med, Lo in FAN mode.
8. **DISPLAY:** To press the DISPLAY button, it can switch off/on all lights or LED display.
9. **ECO:** When the unit is in ECO mode, the light will turn on. In ECO mode, the unit will turn-off once the room is cooled to the user set temperature. The unit will turn back on when the room temperature rises above the user set temperature. Before the compressor starts the fan motor will run for 20 sec., then it will stop for 10 min., It will repeat to provide a much more comfortable feeling and save energy.
10. **FAN ONLY:** Press the Fan Only button to FAN ONLY mode.

Battery Size: AAA - NOTE: Do not mix old and new batteries or different types of AAA batteries

CARE AND MAINTENANCE

Clean your air conditioner to keep it looking new and to minimize dust build-up.

Air Filter Cleaning

The air filter should be checked at least once every month to see if it needs cleaning. Trapped particles and dust can build up in the filter and may decrease airflow as well as cause the cooling coils to accumulate frost. To clean the air filter:

1. Remove the filter by pulling down on the indents of the filter door on the front of the unit. (See FIG. 21)
2. Wash the filter using liquid dish soap and warm water. Rinse the filter thoroughly. Gently shake the filter to remove excess water.
3. Let the filter dry completely before placing it into the air conditioner.
4. If you do not wish to wash the filter, you may vacuum the filter to remove the dust and other particles.

FIG.21

ATTENTION:
To minimize wear and tear on the air conditioner always wait at least 3 minutes before changing modes. This will help prevent the compressor from overheating and the circuit breaker from tripping.

Cabinet Cleaning

To clean the air conditioner cabinet:

- Unplug the air conditioner to prevent shock or a fire hazard. The cabinet and front panel of the air conditioner may be dusted with an oil free cloth or washed with a cloth dampened in a solution of warm water and mild liquid soap. Rinse thoroughly with a damp cloth 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.

TROUBLESHOOTING

PROBLEM	POSSIBLE CAUSES	SOLUTIONS
The Air Conditioner will not start	The air conditioner is unplugged	• Make sure the air conditioner plug is pushed completely into the outlet
	The fuse is blown/circuit breaker is tripped.	• Check the house fuse/circuit breaker box and replace the fuse or reset the breaker.
	Power failure	• The unit will automatically re-start when power is restored. • There is a protective time delay (approx. 3 minutes) to prevent tripping of the compressor overload. For this reason, the unit may not start normal cooling for 3 minutes after it is turned back on.
	The current interrupter device is tripped.	• Press the RESET button located on the power cord plug. • If the RESET button will not stay engaged, discontinue the use of the air conditioner and contact a qualified service technician.
The Air Conditioner does not cool as it should	Airflow is restricted	• Make sure there are no curtains, blinds, or furniture blocking the front of the air conditioner
	The temperature control may not be set correctly.	• Lower the set thermostat temperature
	The air filter is dirty	• Clean the filter. See the Cleaning and Care section of the manual.
	The room may be too warm	• Please allow time for the room to cool down after turning on the air conditioner.
	Cold air is escaping	• Check for open furnace registers and cold air returns
	The cooling coils are frozen	• See “Air Conditioner Freezing Up” below.

PROBLEM	POSSIBLE CAUSES	SOLUTIONS
The Air Conditioner is freezing up	Ice blocks the airflow and stops the air conditioner from cooling the room	• Set the MODE dial to HIGH FAN or HIGH COOL and set the thermostat to a higher temperature
The Remote Control is not working	The batteries are inserted incorrectly	• Check the position of the batteries.
	The batteries may be dead	• Replace the batteries
Water is dripping outside	Hot and humid weather.	• This is normal
Water is dripping inside the room	The air conditioner is not correctly tilted outside.	• For proper water drainage, make sure the air conditioner is slightly tilted downward from the front of the unit to the rear.
Water collects in the base pan	Moisture removed from the air is draining into the base pan.	• This is normal for a short period in areas with low humidity and normal for a longer period in areas with high humidity.
Digital Display reads "E1", "E2"	A sensor has failed	• Contact customer service

ARCTIC WIND®

5401 Dansher Road
Countryside, IL 60625

1120_M528

855-663-9463
www.arcticwindac.com

Printed in China