WINDOW
AIR CONDITIONER
USER MANUAL

FOR MODELS:	COOLING CAPACITY
WA412YRE	12,000 BTU
WA412ZRE	12,000 BTU

CONTENTS

FOREWORD

- The appearance of the units that you purchase may be slightly different from the ones described in this manual, but will not affect proper operations and usage.
- Please read carefully the sections corresponding to the specific model you have, and keep the manual in a safe place for reference.
- The refrigerant used in your portable air conditioner is environmentally safe.

ATTENTION

- Keep small children away from portable unit.
- Do not modify or otherwise defeat the plug.
- The appliance shall be installed and operated in accordance with National Electrical Code regulations.
- Do not operate the machine when the ambient temperature is below 64°F or above 109°F.
- If the supply cord is damaged, it must be replaced by a qualified person in order to avoid a fire hazard.
- All electrical repairs and connections must be performed by a licensed electrician.

IMPORTANT SAFETY INSTRUCTIONS

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

- Plug into a grounded 3 prong outlet.
- Do not remove ground prong.
- Do not use an adapter.
- Do not use an extension cord.

- Unplug air conditioner before servicing.
- Use two or more people to move and install air conditioner.
- Do not operate this unit if the outdoor temperature is below 64°F.

INSTALLATION REQUIREMENTS

Tools and Parts

Gather the required tools and parts before starting installation.
Read and follow the instructions provided with any tools listed here.
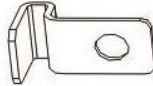
Tools Required

- Phillips head screwdriver
- Flat-blade screwdriver
- Pencil

- Ruler or tape measure
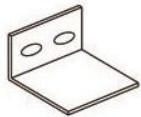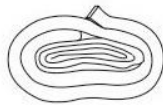- Level
- Scissors or Utility knife

Parts Supplied

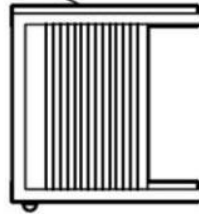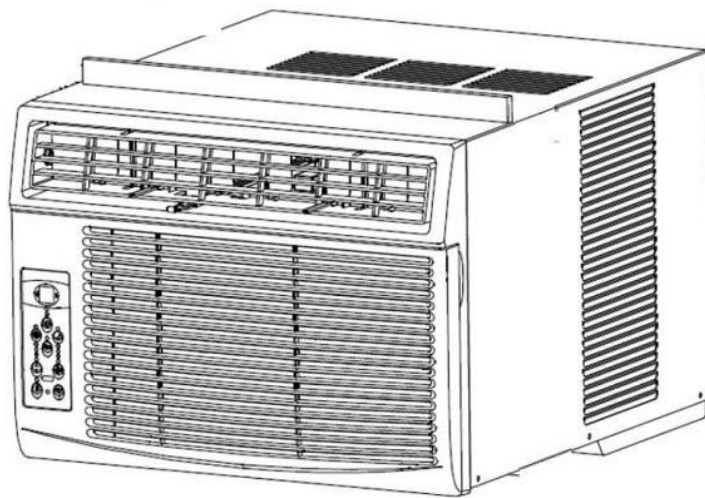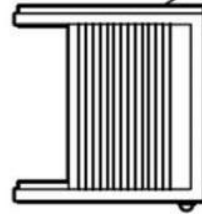MOUNTING HARDWARE

Screws (7)

Lock Frame (2)

Sash Lock (1)

Window Sash Seal Foam (1)

Left accordion panel

Right accordion panel

Location Requirements

IMPORTANT: Observe all governing codes and ordinances.
Check the location where air conditioner will be installed. Proper installation is your responsibility. Make sure you have everything necessary for correct installation.
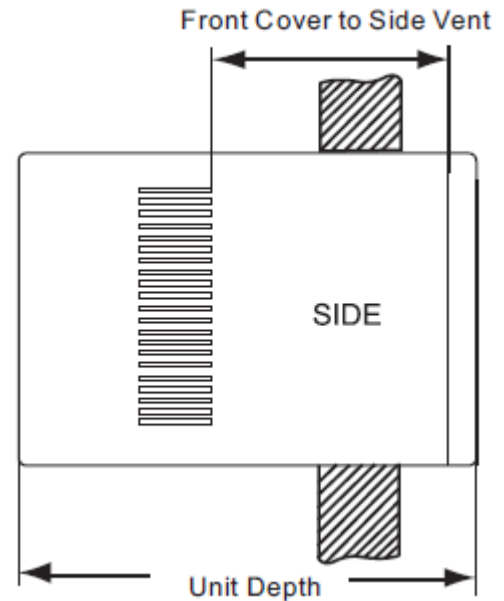The location should provide:

- Grounded electrical outlet within 6 ft of where the power cord exits the air conditioner.

NOTE: Do not use an extension cord.

- Free movement of air in room to be cooled.
- A large enough opening for the air conditioner.
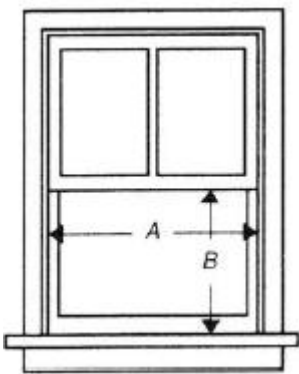- Adequate wall support for weight of air conditioner. Air conditioner weights up to 70 lbs.

NOTE: Cabinet louvers & rear of the air conditioner must not be obstructed. Air must be able to pass freely through the cabinet louvers. The rear of air conditioner must be outdoors. Not inside a building or garage.

Window Requirements:

These instructions are for a standard double hung window. You will need to modify them for other types of windows.

The air conditioner can be installed without the accordion panel if needed to fit in a narrow window. See Window Opening dimensions.

All supporting parts must be secured to firm wood, masonry or metal.
Follow the dimension in TABLE -1.

Models/Cooling Capacity	Dim. A – Opening Width	Dim. B - Min Vertical Opening
12,000	23"-36"	15 1/2"

TABLE -1

Thru the Wall Installation Requirements:
The air conditioner can be thru the wall installed.
<u>The side louvers must never be blocked.</u>
Table -2 provides the maximum wall thickness dimension from the outer case to side air louvers.

Models/Cooling Capacity	Front Cover to Side Vent	Unit Depth
12,000	8"	21.5"

TABLE -2

Storm Window Requirements:

A storm window frame will not allow the air conditioner to tilt properly which in turn will keep it from draining properly. To adjust for this, attach a board or piece of wood to the sill. The board or wood piece should have a depth of at least 1 1/2". Make sure the board or piece of wood is approximately 1/2" higher than the storm window frame. This will allow the air conditioner to tilt enough for proper drainage. See FIG-1.
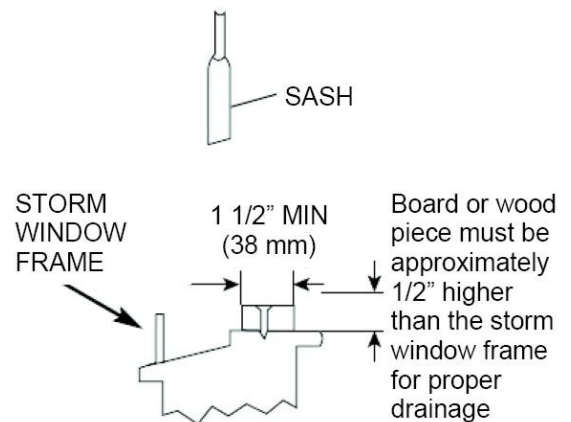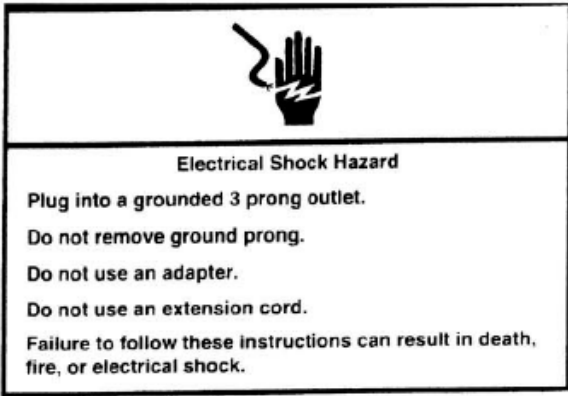

FIG-1

Electrical Requirements

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.

LCDI TYPE	Wiring Requirements
NEMA 5-15P	• 115-Volt (103.5 min to 126.5 max.) • 0 to 13amps • 15-amp time-delay fuse or circuit breaker • Use on single outlet circuit only.
NEMA 6-15P	• 230-Volt (198 min to 253 max.) • 0 to 12 amps • 15-amp time-delay fuse or circuit breaker • Use on single outlet circuit only.

TABLE - 3

**Recommended Grounding Method**

This air conditioner must be grounded. This air conditioner is equipped with a power supply cord having a grounded 3 prong plug. To minimize possible shock hazard, the cord must be plugged into a mating, grounded 3 prong outlet, grounded in accordance with all local and national codes. If a mating outlet is not available, it is the customer's responsibility to have a properly grounded 3 prong outlet installed by a qualified electrical installer.
It is the customer's responsibility:
 • To contact a qualified electrical installer.
 • To assure that the electrical installation is adequate and in conformance with National Electrical Code, ANSI/NFPA 70- latest edition, and all local codes and ordinances.

Power Supply Cord

NOTE: Your unit's device may differ from the ones shown.

A. Reset button
B. Test button
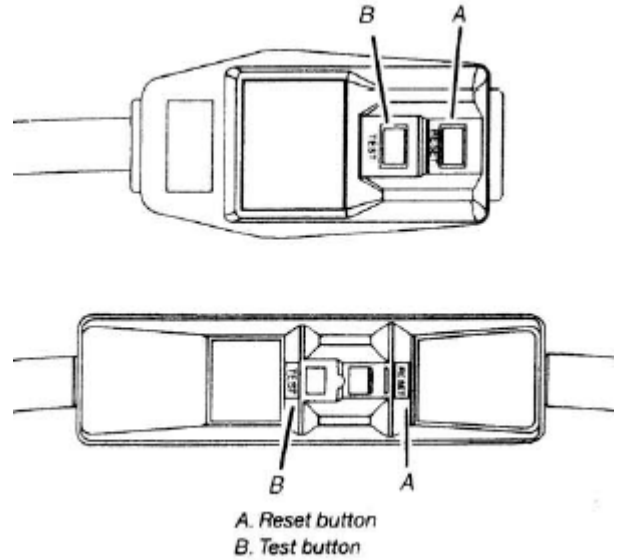
This room air conditioner is equipped with a power supply cord required by UL. This power supply cord contains state-of-the-art electronics that sense leakage current. If he cord is crushed, the electronics detect leakage current and power will be disconnected in a fraction of a second.

To Test your power supply cord:
1. Plug power supply cord into a grounded 3 prong outlet.
2. Press RESET
3. Press TEST (listen for click, Reset button will trip and pop out).
4. Press and release RESET (listen for click; Reset button will latch and remain in). The power supply cord is ready for operation.

NOTES:
 • The reset button must be pushed in for proper operation.
 • The power supply cord must be replaced if it fails to trip when the test button is pressed or fails to reset.
 • Do not use the power supply cord as an off/on switch. The power supply cord is designed as a protective device.
 • A damaged power supply cord must be replaced with a new power supply cord obtained from the product manufacturer and must not be repaired.
 • The power supply cord contains no user serviceable parts. Opening the tamper-resistant case voids all warranty and performance claims.

INSTALLATION INSTRUCTIONS

⚠WARNING

Excessive Weight Hazard

Use two or more people to move and install air conditioner.

Failure to do so can result in back or other injury.
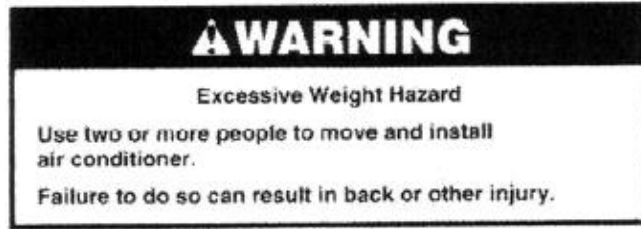
Remove packaging materials

- Remove and dispose of/recycle packaging materials. Remove tape and glue residue from surfaces before turning on the air conditioner. Rub a small amount of liquid dish soap over the adhesive with your fingers. Wipe with warm water and dry.
- Do not use sharp instruments, rubbing alcohol, flammable fluids, or abrasive cleaners to remove tape or glue. These products can damage the surface of your air conditioner.
- Handle air conditioner gently.

Prepare Your Unit

Install the Top Mounting Rail

NOTE: Your units may have the seal strip already attached to the top mounting rail. If applicable, skip this step.

Attach the rail seal strip
Remove the backing from the top mounting rail seal strip and attach the seal strip to the bottom of the top mounting rail, along the front edge.

- Locate provided bag of screws.
- Place top mounting rail on top of air conditioner, lining up the 4 holes in rail with the 4 holes on top of air conditioner.
- Using 4 screws, attach top mounting rail to air conditioner.
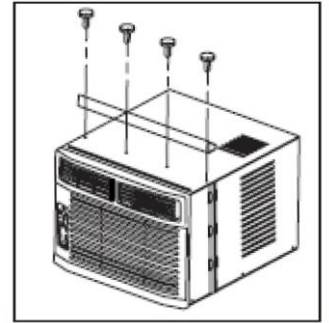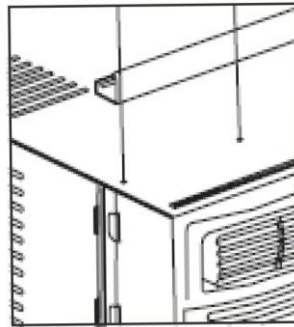
NOTE: Your unit may have top rail preinstalled, skip this step if it is installed.

Top mounting rail

Remove backing from seal strip

FRONT VIEW

Top mounting rail

Seal strip

Install the Accordion Panel

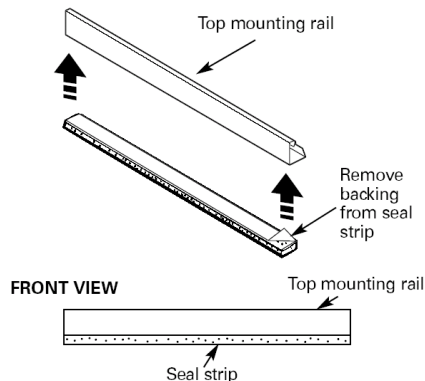- Hold the accordion panel in one hand and gently pull back to free the open end.
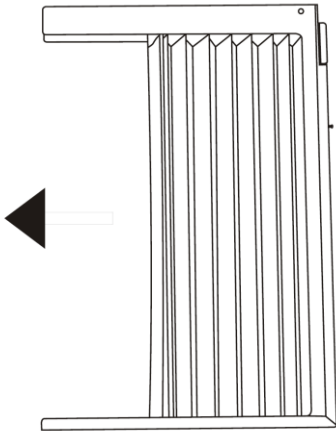
FIG.1

- Slide the free end and (I section) of the accordion panel into the cabinet as shown in Fig 2. Slide the panel down. Be sure to leave enough space to slip the top and bottom of the frame into the rails on the cabinet.

NOTE:
There is a right and a left accordion panel. Be sure to use the proper panel for each side.
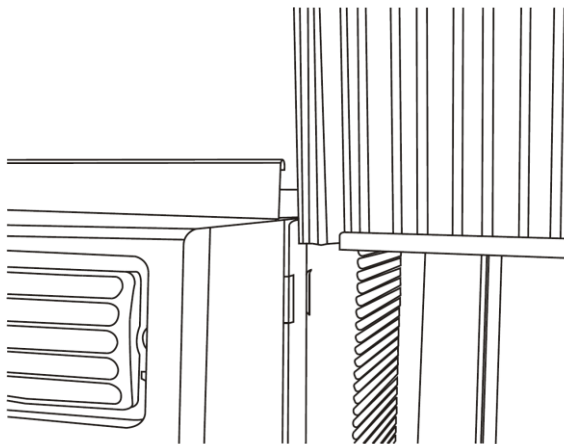
FIG.2

- Once the panel has been installed on the side of the cabinet, make sure it sits securely inside the frame channel by making slight adjustments. Slide the top and bottom ends of the frame into the top and bottom rails of the cabinet. See Fig.3.
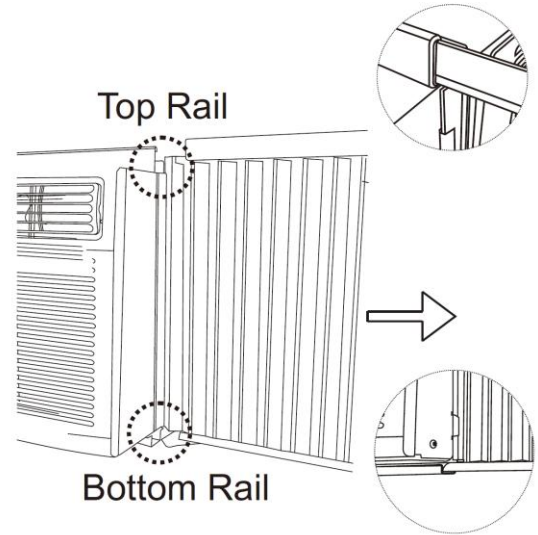
FIG.3

- Slide the panel all the way in and repeat on the other side.
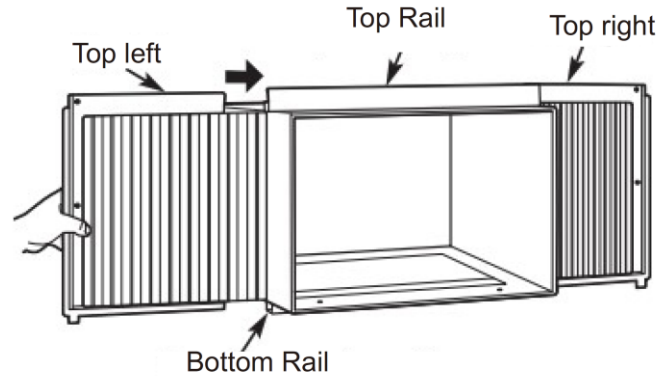
FIG.4

Install Your Air Conditioner in the Window

- Handle air conditioner gently.
- Be sure your air conditioner does not fall out of the opening during installation or removal.
- The place where the power cord exits the air conditioner should be no more than 6 ft (182 cm) from a grounded 3 prong outlet.
- Do not block the louvers on the front panel.
- Do not block the louvers on the outside of the air conditioner.

Install Your Unit
- Center the air conditioner in window. Check that lower rail of air conditioner is behind and against back side of window sill. Maintain a firm hold on the air conditioner cabinet. Lower window sash to hold cabinet in place.
- Measure the distance between the right-hand side of the cabinet and the inside of the window channel.
- Repeat for the left side. Adjust the cabinet until the distance on each side is the same.
- Extend the left and right accordion panels to the vertical window sashes and use the screws to attach.

- Install the frame locking brackets between the bottom of the accordion panel and the window sill. Attach with 2 screws.
  To prevent the window sill from splitting, drive the pilot holes before driving screws.
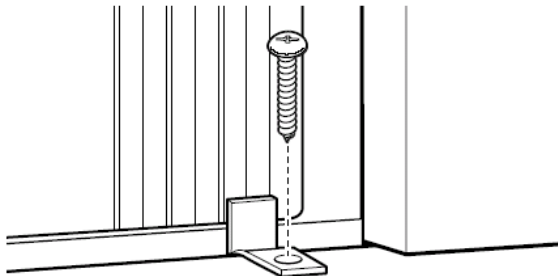
- Check that air conditioner cabinet is tilted to the outside so that water will run to the outside.

Install the Support Bracket and Seal the

Window

CAUTION:
To prevent broken glass or damage to windows, on vinyl or other similarly constructed windows, attach the window locking bracket to the window side jamb with one screw.
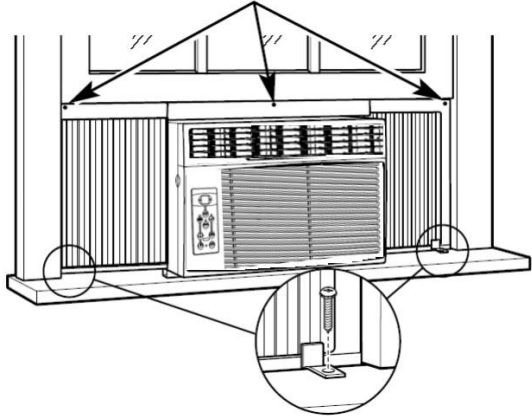
- Attach the right angel sash lock with screw as shown below.
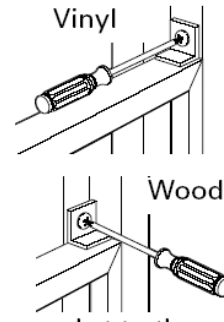
- Cut the foam top window gasket to the window width.
- Stuff the foam between the glass and the window to prevent air and insects from getting into the room.
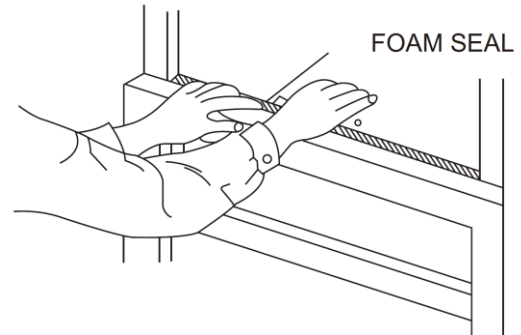
If the gasket supplied does not fit the window, obtain appropriate material locally to provide a proper installation seal.

AIR CONDITIONER CONTROLS (Panel)

Before you begin, thoroughly familiarize yourself with the control panel and remote as shown below and all its functions then follow the symbol for the functions you desire. The air conditioner can be controlled by the remote or the control panel.

ADJUSTS TEMPERATURE OR TIME

ACTIVATES TIMER

CHECK FILTER RESET BUTTON

SETS MODE

REMOTE SIGNAL RECEPTOR

ENERGY SAVER MODE

Temp
Timer

Temp
Timer

On
Off

Check Filter
Timer

Sleep

Auto
Cool
Dry
Fan

Auto
Low
Med
High

Mode

Fan

Energy Saver

On/Off

ADJUSTS TEMPERATURE OR TIME

DISPLAYS TEMPERATURE OR TIME OR ERROR CODES

SLEEP MODE

SET FAN SPEED
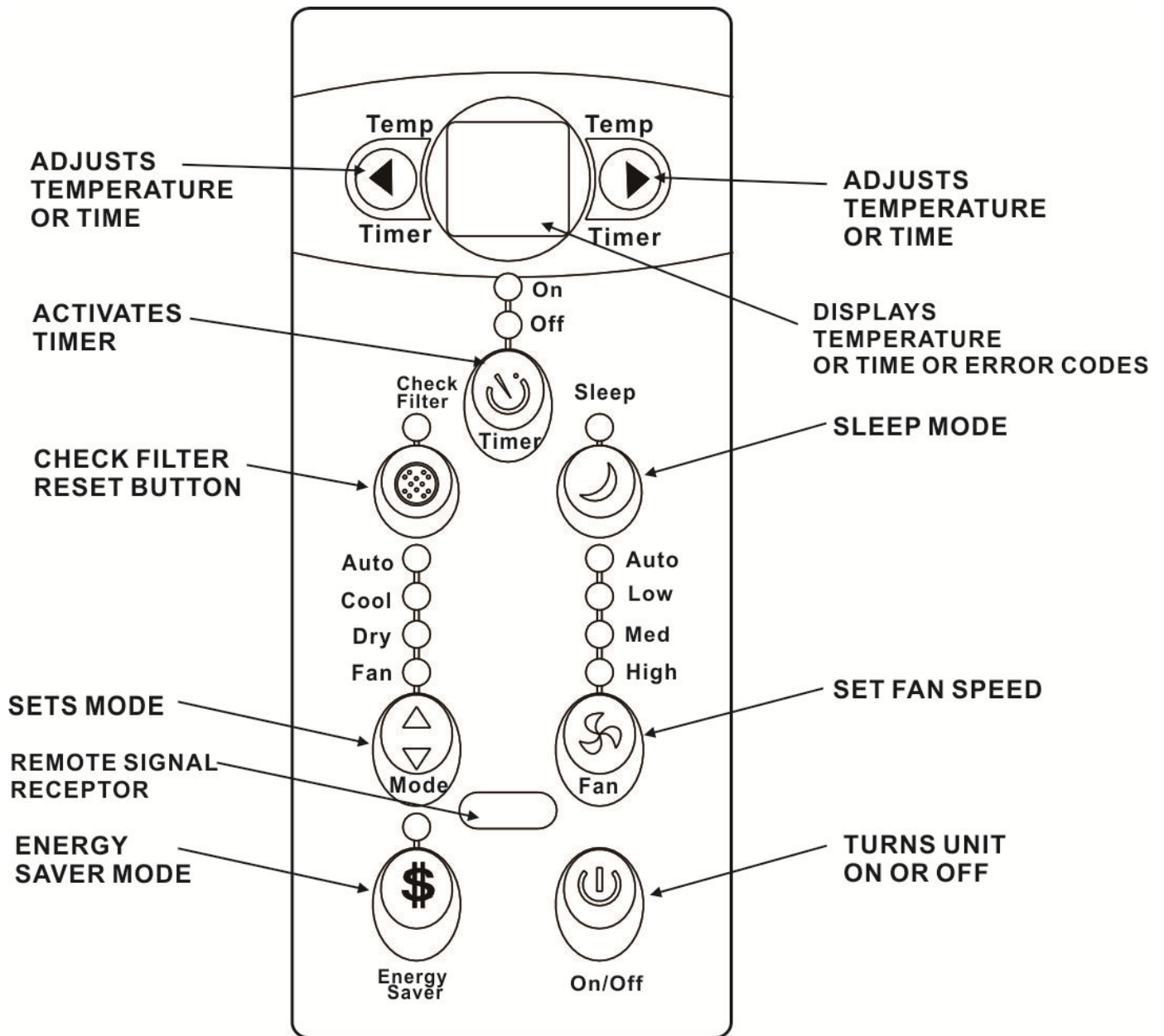
TURNS UNIT ON OR OFF

Unit Control Panel
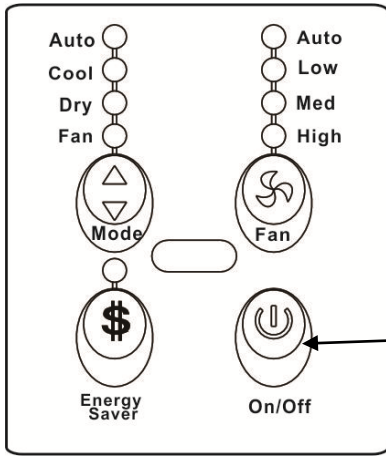
TO TURN UNIT ON:

Press button to turn unit on or off.

TO CHANGE TEMPERATURE SETTING:
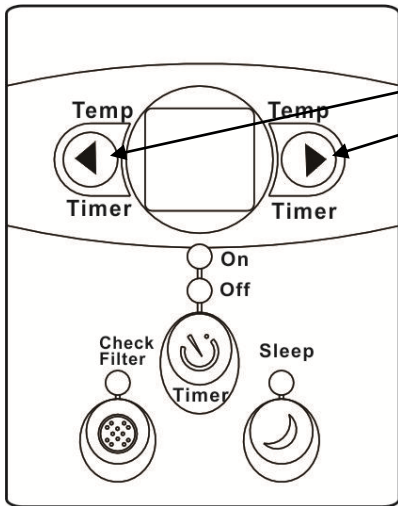
Change Temperature:
- Press or hold either Left (<) or Right (>) button until the desired temperature is seen on the display.
- Temperature range is 62°F (17°C) to 86°F (30°C) in 1°F (1°C) increments.
- Display indicates set temperature in all modes except "FAN ONLY" mode.

TO ADJUST FAN SPEED:
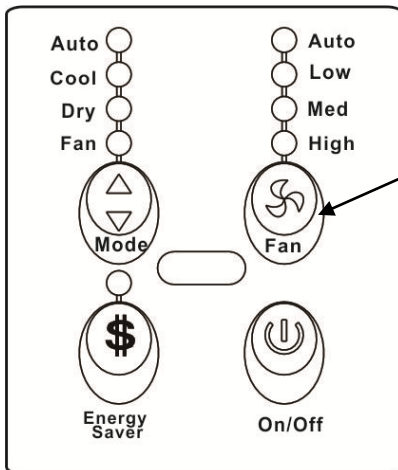
Select Fan Speed:
- Used to select the Fan Speed
  - Auto
  - Low
  - Medium
  - High
- Each time the button is pressed the fan speed is shifted.
- If the DRY mode is selected the fan will operate in LOW speed.

Air Conditioner Controls (Cont.)

TO SELECT THE OPERATING MODE:

TO USE THE ENERGY SAVER MODE:
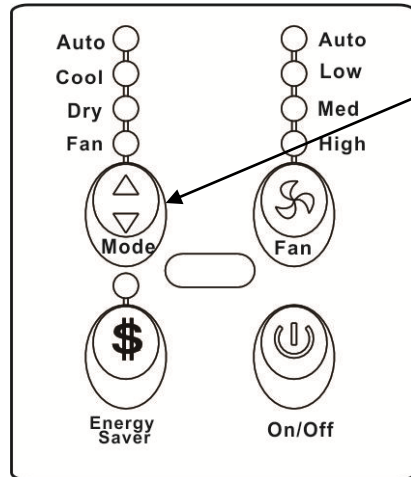
Select Operating Mode:
- To choose operating mode, press the Mode button. Each time you press the button, a mode is selected in a sequence that goes from Auto, Cool, Dry and Fan. The indicator light above the Mode Button will be illuminated.

To Operate Cooling Mode:
- Press the **MODE** button to select Cool mode, temperature could be set between 62 ⁰F and 86 ⁰F in 1 ⁰F increments
- In cooling mode, the FAN-AUTO function can be selected, automatically changing the fan speed as the room temperature gets closer to set point.

To Operate Auto Mode:
- When the "AUTO" function is selected, it will automatically select the cooling or fan function. The set temperature can be selected as desired. The temperature range is 62°F to 86°F.
- The air conditioner will control room temperature automatically around the temperature set point.
- In the "AUTO" mode, the fan speed is not selectable. The fan will change speeds according to the room temperature and the set point.
- If "AUTO" mode is not comfortable, select another mode.

To Operate Fan Only Mode:
- Use this function only when cooling is not desired such as for room air circulation or to exhaust stale air. Open the outside vent for maximum circulation. The outside vent should be closed for all other modes (Cooling, Auto and Dry). Fan speed is selectable (Auto, Low, Med, and High).
- The FAN ONLY function will display the actual room temperature.
- In other modes the set point is displayed.
- In Fan only mode, the temperature is not adjustable.
- If the Fan-Auto is selected, the temperature is automatically set to 75 °F. The fan speed will decrease as the room temperature approaches set point.

To Operate Dry Mode:
- The air conditioner will operate in the form of a dehumidifier. Since the conditioned space is a closed or sealed area, some degree of cooling will continue.

Energy Saver Mode:
- This function is available in COOL/DRY/AUTO mode. 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. If the room temperature goes above the set point, the compressor turns on and begins to cool.
- Press the temperature UP/DOWN buttons to select the desired set temperature. The temperature range is 62°F to 86°F.
- The fan speed is selectable in the Energy Saver mode.
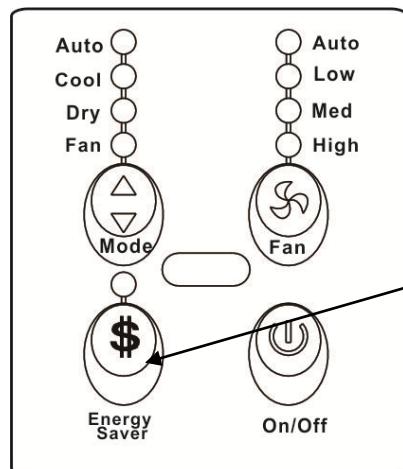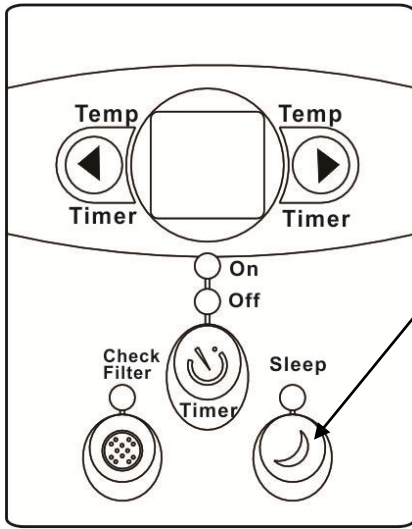
SLEEP MODE:

SLEEP MODE:
The temperature setting will increase by 2 °F in 30 minutes. In another 30 minutes the temperature setting will increase by another 2 °F.
This temperature will be maintained for 6 hours and then the temperature will return to the original set point temperature.
To cancel the sleep mode, press the "Sleep" button.

TIMER: AUTO START/STOP FEATURE:
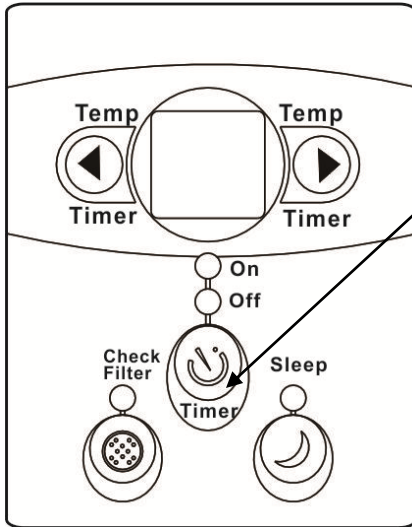
TIMER ON / TIMER OFF:
- Press the Timer button to select "On or Off". After the time is selected the unit will either turn on or off after the timer has timed out.

Example:
- If the unit is operating and "OFF' is selected the unit will turn off after the selected time times out.
- If the unit is off and "On" is selected the unit will turn on after the selected times out.
- 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 the unit starts or stops.
- The selected time will update in 5 seconds. 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.

Air Conditioner Controls (Cont.)

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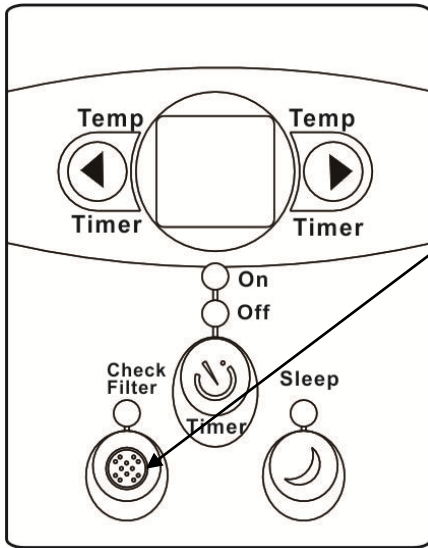
CHECK FILTER FEATURE:
This feature is a reminder to clean the Air Filter for more efficient operation. The LED (light) will illuminate after 250 hours of operation. To reset after cleaning the filter, press the Check Filter button and the light will turn off.

DISPLAYS:

DISPLAY INDICATIONS:
Displays the following possibilities:
* °F or °C
* Timer setting
* Set temperature (all modes other than fan).
* Room temperature in the fan mode
* Error codes
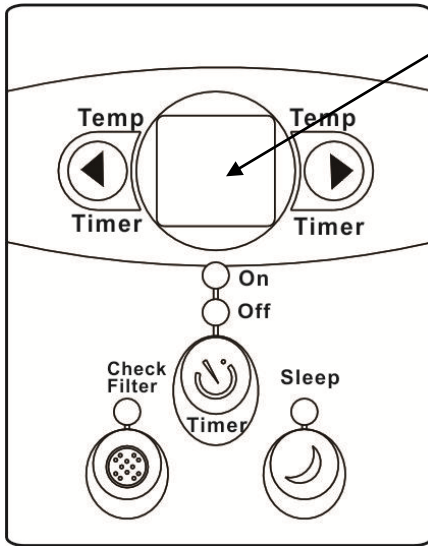
Error codes:
1) **AS -** Room temperature sensor error. Unplug the unit and plug it back in. If error repeats, call for service.
2) **LO** or **HI** – (Fan Only Mode) Room temperature sensor error. Unplug the unit and plug it back in. If error repeats, call for service.
3) " • " **(see picture to the left)** - Evaporator temperature sensor error. Unplug the unit and plug it back in. If error repeats, call for service.
4) **HS -** Electric heating sensor error. Unplug the unit and plug it back in. If error repeats, call for service.
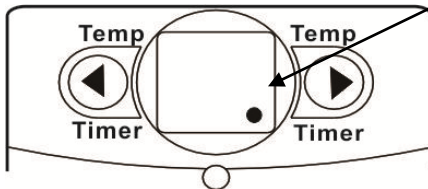
REMOTE CONTROL

Handling and location of the remote controller

Use the remote controller at a distance of 16 ft., or less, from the appliance. Point it towards the receiver on the air conditioner. Communication is confirmed with a beep.

⚠CAUTIONS

- The air conditioner will not operate if curtains, doors or other materials block the signal from the remote control to the air conditioner.
- Avoid
  - Liquids
  - Direct Sunlight
  - Extreme Temperatures
- If the infrared signal receiver on the indoor unit is exposed to direct sunlight, the air conditioner may not function properly.
- If other electrical appliances react to the remote controller, either move these appliances or consult your local dealer.

Replacing Batteries

The remote control is powered by two AAA alkaline batteries housed in the back of the remote. (Do not use rechargeable batteries)
(1) Remove the cover by pressing down and sliding back.
(2) Remove the old batteries and insert the new batteries, observing polarity.
(3) Replace the battery cover.
NOTE: When the batteries are removed, the remote control erases all settings. After inserting new batteries, the remote controller settings must be selected.

Remote Control Specifications

Rated Voltage	3.0V
Lowest Voltage of CPU Emitting Signal	2.4V
Signal Receiving Range	16 ft
Environment	23-140 °F

1) The remote control is a sending device only. The display on the control panel of the air conditioner will indicate changes made by the remote control.
2) The illustrations in this manual are for explanation purposes only. The actual shape of remote controller may be slightly different.

Function buttons

ON/OFF button
Operation starts when this button is pressed and stops when it is pressed again.

MODE button
Press this button to select the desired operation mode from AUTO, COOL, DRY, and FAN.

TEMP / TIME UP button
Push this button to increase the temperature setting in 1 ºF increments. Temperature range is 62 ºF to 86 ºF.
Adjust the time setting.

TEMP / TIME DOWN button
Push this button to decrease the indoor temperature setting in 1 ºF increments. Temperature range is 62 ºF to 86 ºF.
Adjust the time setting.

MODE

TIMER   FAN

ONE
TOUCH   SLEEP

TIMER button
Push this button to activate the "Auto Start" or "Auto Stop" program.

FAN button
Used to select the fan speed in four steps: Auto, Low, Med and High.

ONE TOUCH button
Push this button; the system will automatically shift to COOL Operation with auto fan speed, the setting temperature is 80°F. And the timer setting program will be cancelled.

SLEEP button
Press this button to activate the Sleep mode. This function is available on COOL, HEAT or AUTO mode only.
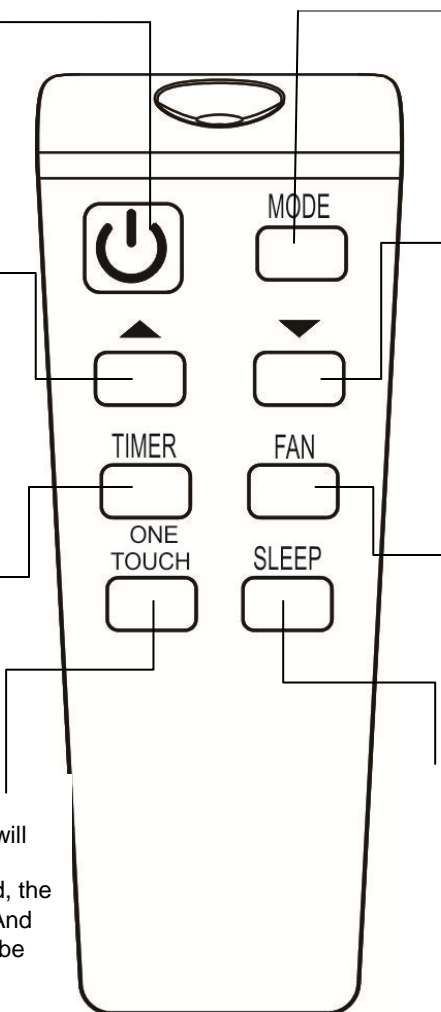
Remote Operation
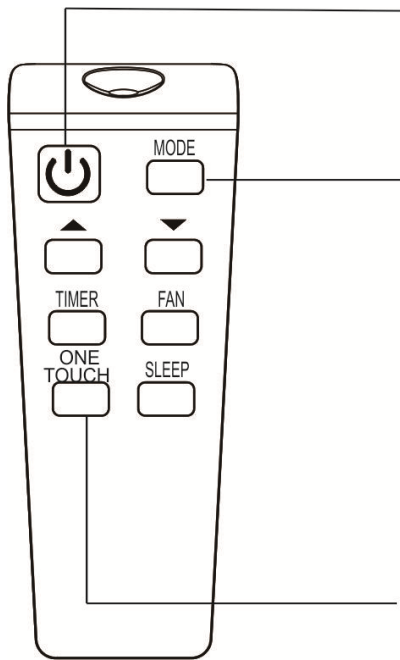
Press to turn unit ON/OFF

Auto operation
1. Press the **ON/OFF** button to start the air conditioner.
2. Press the **MODE** button to select Auto. The panel "**AUTO**" LED will illuminate when selected.
3. Press the **TEMP UP/DOWN** button to set the desired temperature. The temperature range is 62 $^{\circ}$F – 86 $^{\circ}$F in 1 $^{\circ}$F increments.
NOTE:
1. *In the Auto mode the air conditioner will select Cooling or Fan depending upon set point vs. room temperature.*
2. *In the Auto mode, you cannot switch the fan speed. It is automatically controlled.*
3. *If the Auto mode is not comfortable select another mode for manual operation.*

ONE TOUCH button
4. Push this button; the system will automatically shift to COOL Operation with auto fan speed, the setting temperature is 80°F. And the timer setting program will be cancelled.
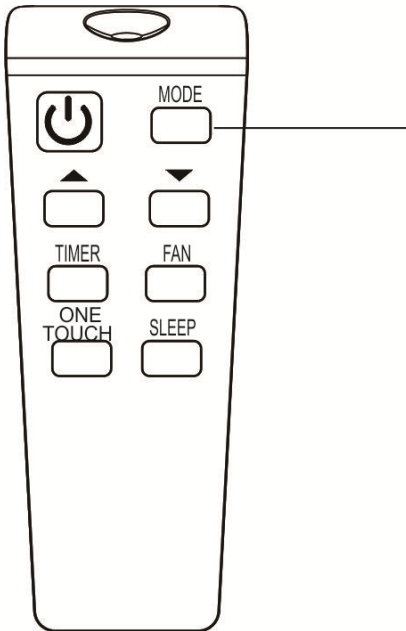
Cooling/Fan operation
1. Press the **ON/OFF** button to start the air conditioner.
2. Press the **MODE** button to select Cool or Fan mode. The panel "**Cool**" or "**Fan**" LED will illuminate when selected.
3. Press the **TEMP UP/DOWN** button to set the desired temperature. The temperature can be set within the range of 62 $^{\circ}$F - 86 $^{\circ}$F in 1 $^{\circ}$F increments.
4. If cooling is selected, the FAN-AUTO function can be selected, automatically changing the fan speed as the room temperature gets closer to set point. The panel "**Fan-Auto**" LED will illuminate when selected.
5. Press the **FAN** button to select the fan speed in four steps - Auto, Low, Med, or High.
6. In the **FAN** mode, actual room temperature is displayed in the control panel. If the Fan-Auto is selected, the temperature is automatically set to 75 °F. The fan speed will decrease as the room temperature approaches set point.

Remote Operation (cont.)
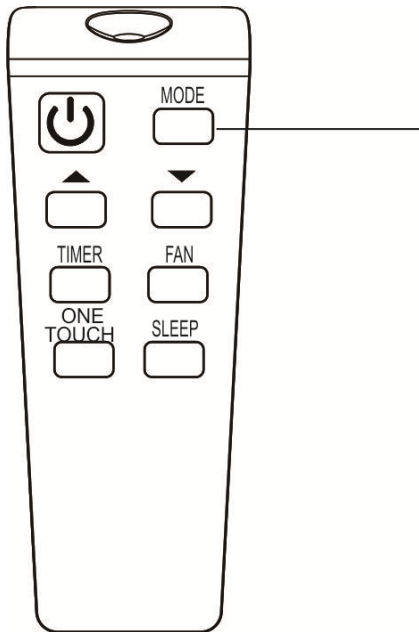
Dehumidifying (DRY) operation
1. Press the **ON/OFF** button to start the air conditioner.
2. Press the **MODE** button to select **DRY**. The panel "**DRY**" LED will illuminate when selected.
3. Press the **TEMP UP/DOWN** button to set the desired temperature. The temperature can be set within a range of 62 ⁰F - 86 ⁰F in 1 ⁰F increments.

NOTE:
In the Dehumidifying mode, you can not change the fan speed. It is controlled in low speed.
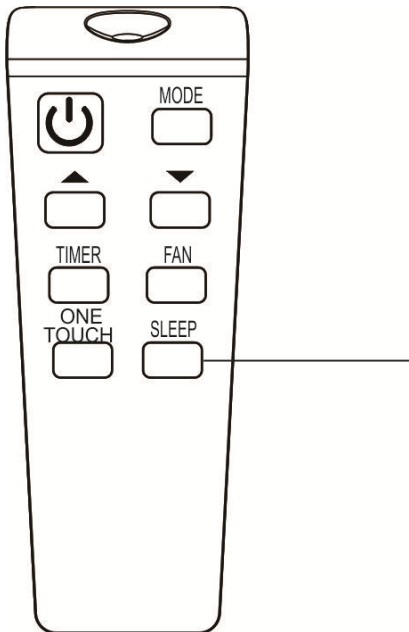
SLEEP operation
Press this button to activate the **SLEEP** mode. This function is available on COOL or AUTO mode only and maintains the most comfortable temperature for you. The panel "**SLEEP**" LED will illuminate when selected.
In this mode the selected temperature will increase by 2 ⁰F in 30 minutes after the mode is selected. The temperature will then increase by another 2 ⁰F 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 may be cancelled by pressing the MODE, ON/OFF, FAN SPEED and SLEEP button during operation.
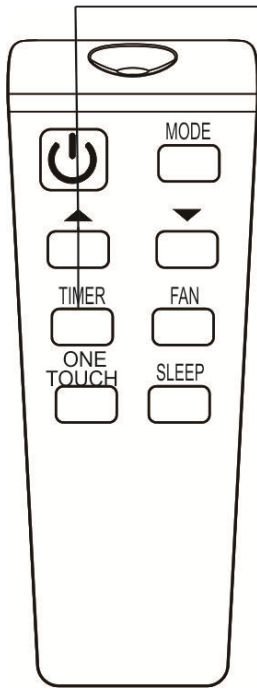
Timer operation

Press the **TIMER** button to initiate the Auto-start and Auto-stop setting program of the unit. The time can be set for 0~24 hours.
To set the Auto-start/stop time.
1. Press the **TIMER** button, when the **TIMER ON** indicator displayed on the LED window of the air conditioner, it indicates the Auto Start setting program is initiated. When the **TIMER OFF** indicator displayed on the LED window of the air conditioner, it indicates the Auto Stop setting program is initiated.

2. Press or hold the Up(▲) or Down(▼) 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 starts/stops.
3. The selected time will register in 5 seconds and the air conditioner will automatically revert back to display the previous temperature setting.
4. Turning the unit ON or OFF at any time will cancel the Auto start/stop function.
5. To cancel the TIMER setting, push the TIMER button and press or hold the Up (▲) or Down (▼) until 0 hour is displayed on the LCD window of the air conditioner

Timer operation (Combined)

(Setting both ON and OFF timers simultaneously)
AUTO STOP-> AUTO START
(On-> Stop ->Start operation)

This feature is useful when you want to stop the air conditioner after you go to bed, and start it again in the morning when you wake up or when you return home.
Example:
To stop the air conditioner 2 hours after setting and start it again 10 hours after setting.
1. Press the **TIMER** button until the TIMER OFF indicator is displayed on the LED display of the air conditioner.
2. Use the UP/DOWN button to display "2.0" on the LED display.
3. Press the **TIMER** button again to display the TIMER OFF
4. Use the UP/DOWN button to display "10".
5. Wait for 5 seconds until the previous display revert back to the LED window.

AUTO START -> AUTO STOP
(Off ->Start->Stop operation)

This feature is useful when you want to start the air conditioner before you wake up and stop it after you leave the house.
Example:
To start the air conditioner 5 hours after setting, and stopping it 8 hours later.
1. Press the **TIMER** button until the TIMER ON indicator is displayed.
2. Use the UP/DOWN button to display "5.0".
3. Press the **TIMER** button again to display the TIMER OFF.
4. Use the UP/DOWN button to display "8.0".
5. Wait for 5 seconds until the previous display reverts back to the LED window.

IMPORTANT INFORMATION

3 minutes delay

The Cool circuit has an automatic 3 minute 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.

Select ℉ or ℃

The unit is shipped in degree F as the default indication.
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 temperature (Timer) buttons on control panel simultaneously for 3 seconds.

Fresh Air Vent Control

Fig 1 (VENT CLOSED)

The Fresh Air Vent allows the air conditioner to:
1. Recirculate inside air - Vent Closed (See Fig.1)
2. Draw fresh air into the room- Vent Open (see Fig.2)
3. Exchange air from the room and draws fresh air into the room - Vent and Exhaust Open (see Fig.3)
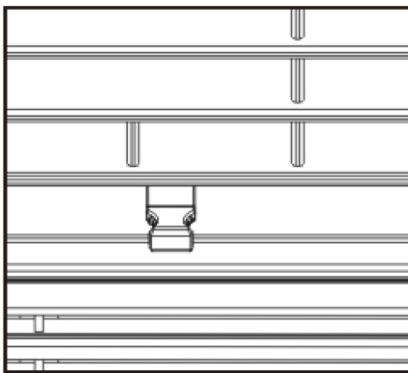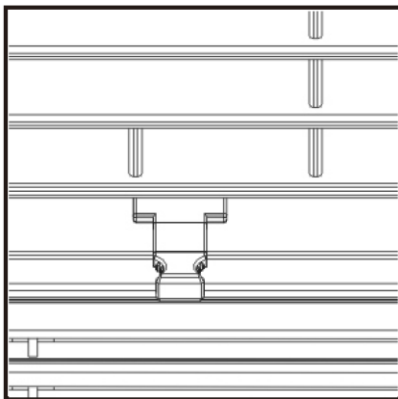
Fig 2 (VENT OPEN)

Fig 3 (VENT & EXHAUST OPEN)

Air Directional Louvers

Levers
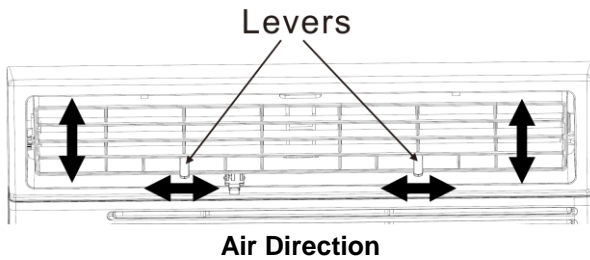
Air Direction

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

Normal Sounds

When your air conditioner is operating normally, you may hear sounds such as:
- Droplets of water hitting the condenser, causing a pinging or clicking sound. The water droplets help to cool the condenser.
- Air movement, for improved operation.
- Clicks from the thermostat cycling.
- Vibrations or noise due to poor wall or window construction.
- A high-pitched hum or pulsating noise caused by the modern high-efficiency compressor cycling on and off.

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

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

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

Pinging or Switching
Droplets of water hitting condenser during normal operation may cause "pinging or switching" sounds.

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

AIR CONDITIONER CARE

Your new air conditioner is designed to give you many years of dependable service. This section tells you how to clean and care for your air conditioner properly. Call your local authorized dealer for an annual checkup. Remember, the cost of this service call is your responsibility.

_____

Cleaning the Air Filter

The air filter is removable for easy cleaning. A clean filter helps remove dust, lint, and other particles from the air and is important for best cooling and operating efficiency. Check the filter every 3 weeks to see if it needs cleaning.

NOTE: Do not operate the air conditioner without the filter in place.

1. Turn off the air conditioner.
2. Remove air filter by pulling down on the indents in the top or sides of filter door and sliding air filter up and out. *Filter door is not removable*.

3. Use a vacuum cleaner to clean air filter. If air filter is very dirty, wash it in warm water with a mild detergent. Do not wash air filter in the dishwasher or use any chemical cleaners. Air dry the filter completely before replacing to ensure maximum efficiency.

4. Replace air filter by sliding filter down into filter door and closing filter door.
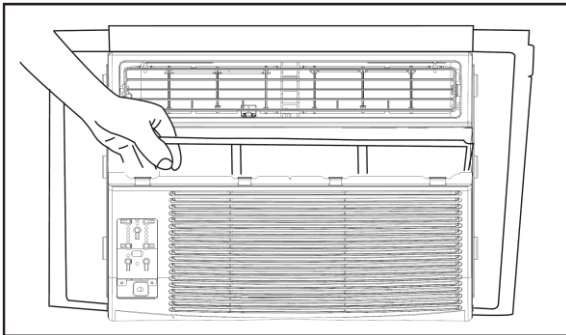
NOTE: Never use hot water over 104 °F to clean the air filter. Never attempt to operate the unit without the air filter.

Cleaning the Front Panel

1. Turn off the air conditioner
2. Remove the air filter and clean it separately. See Cleaning the Air Filter.
3. Wipe the front panel with a soft damp cloth.
4. Air dry front panel completely.

_____

Repairing Paint Damage of Outside Case

Check once or twice a year for paint damage. This is very important, especially in areas near oceans or where rust is a problem. If needed, touch-up with a good grade enamel paint.

NOTE: To reduce paint damage during the winter, install a heavy duty cover over the air conditioner cabinet.
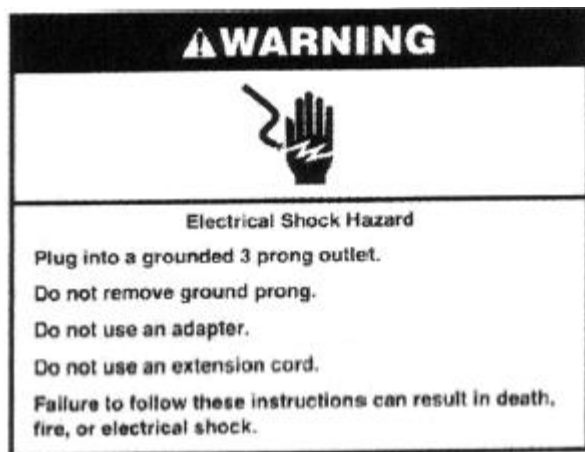
_____

Annual Maintenance

Your air conditioner needs annual maintenance to help ensure steady, top performance throughout the year. Call your local authorized dealer to schedule an annual checkup. The expense of an annual inspection is your responsibility

TROUBLESHOOTING

Before calling for service, try the suggestions below to see whether you can solve your problem without outside help.

Air conditioner will not operate

⚠ 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.

1. **The power supply cord is unplugged.** Plug into a grounded 3 prong outlet. See "Electrical Requirements".

2. **The power supply cord has tripped (Reset button has popped out).** Press and release RESET (listen for click; Reset button will latch and remain in) to resume operation.

3. **A household fuse has blown, or a circuit breaker has tripped.** Replace the fuse or reset the circuit breaker. If the problem continues, call an electrician. See "Electrical Requirements".

4. **Depending on model, the Power button has not been pressed or the Fan control is turned to OFF.** Press POWER or turn the Fan control to an active setting.

5. **The local power has failed.** Wait for power to be restored.

Air conditioner blows fuses or trips circuit breakers

Too many appliances are being used on the same circuit. Unplug or relocate appliances that share the same circuit.

Time delay fuse or circuit breaker wrong capacity is being used. Replace with a time delay fuse or circuit breaker of the correct capacity. See "Electrical Requirements".

An extension cord is being used. Do not use an extension cord with this or any other appliance.

You are trying to restart the air conditioner too soon after turning the unit off. Wait at least 3 minutes after turning the unit off before trying to restart the air conditioner.

Air conditioner power supply cord trips (Reset button pops out)

Disturbances in your electrical current can trip (Reset button will pop out) the power supply cord. Press and release RESET (listen for click; Reset button will latch and remain in) to resume operation.

Electrical overloading, overheating, pinched cord can trip (Reset button will pop out) the power supply cord.
After correcting the problem, press and release RESET (listen for click; Reset button will latch and remain in) to resume operation.

NOTE: a damaged power supply cord must be replaced with a new power supply cord obtained from the product manufacturer and must not be repaired.

Air conditioner runs too long

The current air conditioner replaced an older model. The use of more efficient components may cause the air conditioner to run longer than an older model, but the total energy consumption will be less. Newer air conditioners do not emit the blast of cold air you may be accustomed to from older units, but this is not an indication of lesser cooling capacity or efficiency. Refer to the efficiency rating (EER) and capacity rating (in BTU/hr.) marked on the air conditioner.

The air conditioner is in a heavily occupied room, or heat-producing appliances are in use in the room. Use exhaust vent fans while cooking or bathing and try not to use heat producing appliances during the hottest part of the day. A higher capacity air conditioner may be required, depending on the size of the room being cooled.

Air Conditioner cycles on and off too often, or does not cool room in cooling mode

The air conditioner is not properly sized for your room.
Check the cooling capabilities of your room air conditioner. Room air conditioners are not designed to cool multiple rooms.

The filter is dirty or obstructed by debris. Clean the filter.

The inside evaporator and outside condenser coils are dirty or obstructed by debris. See "Annual Maintenance.

There is excessive heat or moisture (open container cooking, showers, etc.) in the room. Use a fan to exhaust heat or moisture from the room. Try not to use heat-producing appliances during the hottest part of the day.

The louvers are blocked. Install the air conditioner in a location where the louvers are free from curtains, blinds, furniture, etc.

The outside temperature is below 65ºF (18ºC). Do not try to operate your air conditioner in the cooling mode when the outside temperature is below 65ºF (18ºC).

The temperature of the room you are trying to cool is extremely hot. Allow extra time for the air conditioner to cool off a very hot room.

Windows or doors to the outside are open. Close all windows and doors.

The Vent control is set to open (on some models). Push the Vent control to CLOSED for maximum cooling and/or heating.

The temperature set point or Thermostat control is not at a cool enough setting. Adjust the temperature set point to a cooler setting by pressing the minus button to reduce the temperature or adjust the Thermostat control to a cooler setting by turning the knob clockwise. Turn the Fan control to HIGH or Turbo Cool.

Temperature on display does not match room temperature

When the compressor and fan motor turn off during Power Saver mode, or after you turn off the unit, a lower temperature reading than the actual room temperature may be displayed for a short period of time. This lower temperature reading is caused by the temperature sensor being located close to the cold evaporator coil. The actual room temperature will display within a few minutes.

Water drips from cabinet into your house

The air conditioner is not properly leveled. The air conditioner should slope slightly downward toward the outside. Level the air conditioner to provide a downward slope toward the outside to ensure proper drainage. See the Installation instructions.

NOTE: Do not drill a hole into the bottom of the metal base and condensate pan.

SPECIFICATIONS

IRP Catalog No.	WAC412YRE	WA412ZRE
Product Code	422-0100	422-0101
Cooling Capacity	12000	12000
EER Rating	11.3	11.3
Dehumidification (pints/hr)	2.2	2.2
Air Flow Max (CFM) (H/M/L)	288/244/206	288/244/206
Rated Voltage	115	230/208
Operating Voltage Range	103.5-126.5	198-253
Frequency/Cycle	60HZ	60HZ
Cooling Amps	9.5	5.1/4.7
Cooling Watts - Input	1062	1062/1035
Plug Type - LCDI	NEMA 5-15P	NEMA 6-15P
Power Cord Rating (amps)	15A	15A
Power Cord Length (ft)	6.56	6.56
Refrigerant Charge - R410a (oz.)	20.11	20.11
Indoor Noise Level dB(A)	61/57/54	61/57/54
4 Way Air Adjustment	Yes	Yes
2 Way Air Swing	Yes	Yes
Air Discharge	Top Front	Top Front
Motor, A/C (bearing type)	Ball Bearing	Ball Bearing
Fan Motor Capacitor	15 µF	4 µF
Controls	Remote	Remote
Ambient Operating Temperature	64-109 °F	64-109 °F
Unit Size - Width	19"	19"
Unit Size - Depth	21.5"	21.5"
Unit Size - Height	14.6"	14.6"
Window Width Opening	23"-36"	23"-36"
Thru. Wall Max. Thickness	8"	8"
Weight Net/Gross (Lbs)	69/76.6	69.1/76.6

NOTE: Product specification subject to change without notice.

WARRANTY

International Refrigeration Products warrants that the product supplied is free from defects in material and workmanship. This warranty is valid as long as this product is properly handled, installed, operated and serviced in accordance with the Installation and Operating Instructions shipped with this unit, and the warranty card is completed and mailed no later than 30 days after date of purchase. All warranty claims must be made within one (1) year, (five (5) years for compressor), from date of purchase (unless national regulations require a longer registration period).

This warranty provides free replacement of defective parts only.
Labor is not covered under this warranty. Replacement as a result of normal wear and tear is not covered under this warranty.

Additional claims are excluded, unless required by national regulations. International Refrigeration Products Inc. is not responsible for incidental, consequential, direct, or indirect damages, or expenses relating to the use of, or the inability to use the product for any purpose. Other implied warranties are excluded.

This constitutes International Refrigeration Products' warranty obligation and replaces any and all prior warranties for this product.

International Refrigeration Products Inc
1035 Wheeler Way
Langhorne, PA 19047
Service - Tel: 215-750-9876 Fax: 215-750-1169
　　　　　　　Hours: 8:00 AM to 4:30 PM EST
Website: www.irproducts.biz