WINDOW
AIR CONDITIONER
USER MANUAL
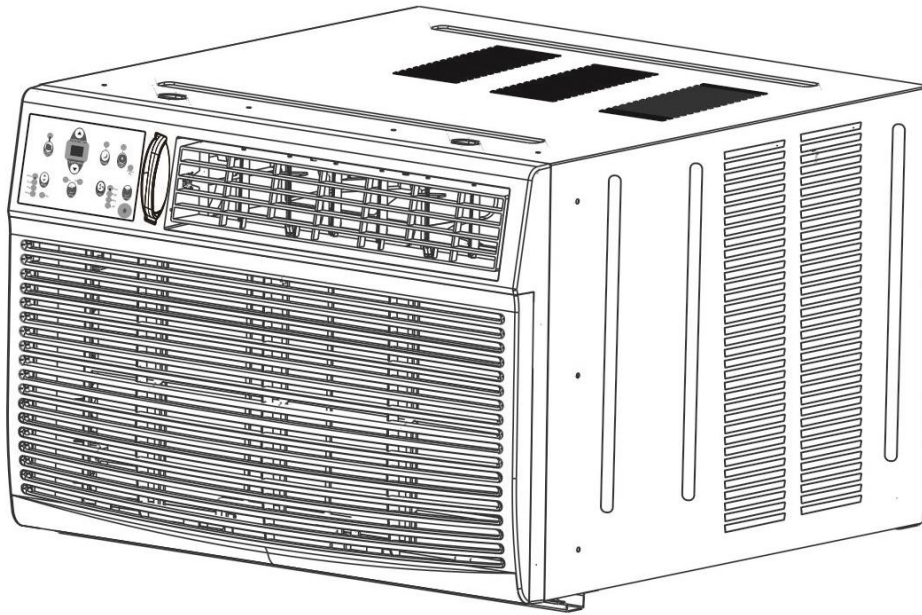
FOR MODELS:	COOLING BTU/h	HEATING BTU/h
WA428ZRB	28,000	N/A
WH418ZRB	18,500	16,000
WH418ZRC	18,500	16,000
WH425ZRB	25,000	16,000
WH425ZRC	25,000	16,000
WHP418ZRB	17,700	Elec. Heater – 11,200 Heat Pump – 16,000

CONTENTS

FOREWORD

- Inspect unit for shipping damage, mishandling and accessories before installing.
- 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 window air conditioner is an environmentally safe and friendly.

ATTENTION

- 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 your unit in the cooling mode when the outside temperature is below 64°F. Do not operate your unit in the heating mode when outside temperature is 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.
- Air conditioner with electrical heater not to be used as primary heat source.

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.
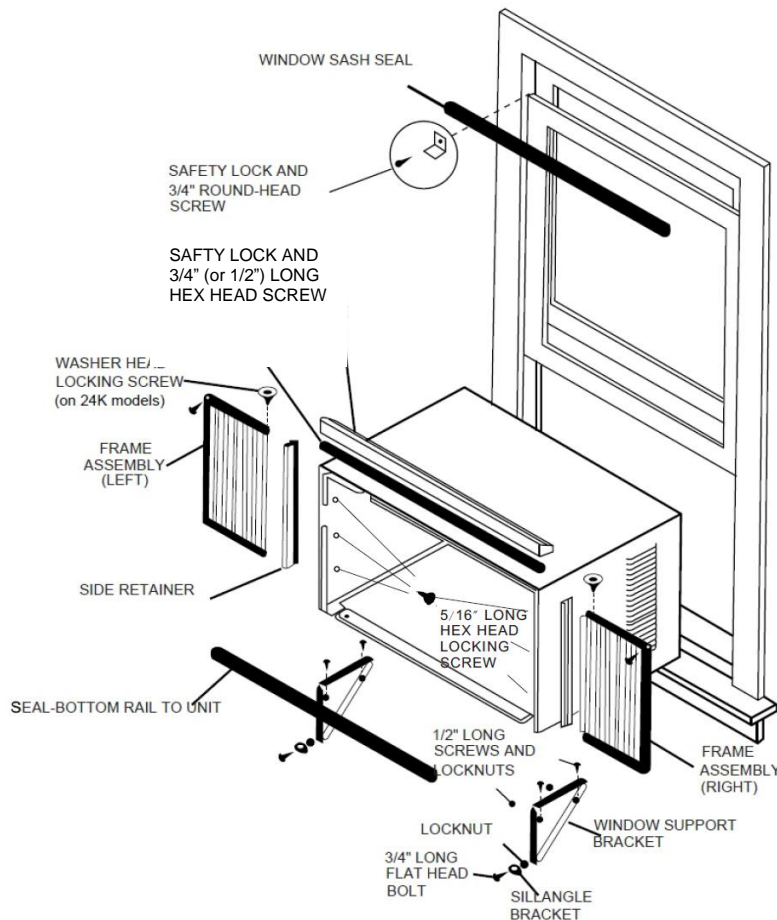- Do not remove ground prong.

- Do not use an adapter.
- Do not operate this unit if the outdoor temperature is below 64°F or above 109°F
- Do not use an extension cord.
- Unplug Air Conditioner before servicing.
- Use two or more people to move and install air conditioner.

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. The hardware kits may vary depend on different units.

Parts Supplied

WINDOW SASH SEAL

SAFETY LOCK AND 3/4" ROUND-HEAD SCREW

SAFTY LOCK AND 3/4" (or 1/2") LONG HEX HEAD SCREW

WASHER HEAD LOCKING SCREW (on 24K models)

FRAME ASSEMBLY (LEFT)

SIDE RETAINER

5/16" LONG HEX HEAD LOCKING SCREW

SEAL-BOTTOM RAIL TO UNIT

1/2" LONG SCREWS AND LOCKNUTS

LOCKNUT

3/4" LONG FLAT HEAD BOLT

SILL ANGLE BRACKET

WINDOW SUPPORT BRACKET

FRAME ASSEMBLY (RIGHT)

Hardware (Packed with the unit)	
7/16" Locking screw and Flat washer for window panels	2 ea.
3/4"(or 1/2") inch Long Hex-head Screw	7
Safety Lock	1
1/2" Long Screw and Locknut	4 ea.
3/4" Long Flat Head Bolt and Locknut	2 ea.
Sill Angle Bracket	2
Long Hex-head Locking Screw for top angle, side retainer 5/16" Long	10
Foam Insert	2
Window Sash Seal Foam	1
Safe lock (For Vinyl-Clad Window)	2
Locking screw #10x1/4 Panhead Phillips screws	2
Lock Frame (For wooden windows on some models)	2
3/4" long screws (on some models)	2

Tools Required
- Flat-blade and Phillips Screwdrivers
- Socket wrenches
- Pencil
- Ruler or tape measure
- Level
- Adjustable wrench or pliers

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 5 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 139 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:
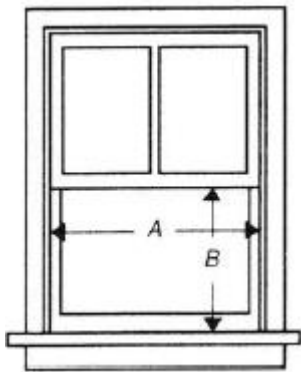
These instructions are for a standard double hung window. You will need to modify them for other types of windows.

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	Dim. A - Opening Width	Dim. B - Min Vertical Opening
WH418ZRB WH418ZRC	26.5"-40.5"	18.5"
WA428ZRB WH425ZRB WH425ZRC WHP418ZRB	31" – 42"	19.5"

TABLE -1

Thru the Wall Installation Requirements:
The air conditioner can be used in a wall, providing the vents are not blocked.
Table -2 provides the maximum wall thickness dimension from the outer case to side air louvers.

Front Cover to Side Vent
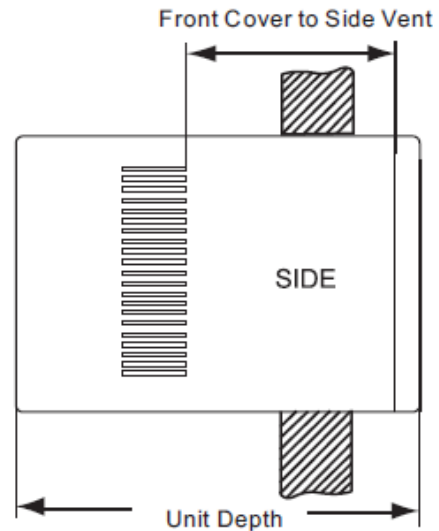
SIDE

Unit Depth

Models	Front Cover to Side Vent	Unit Depth
WH418ZRB WH418ZRC	8"	25.4"
WA428ZRB WH425ZRB WH425ZRC WHP418ZRB	10"	26.5"

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 below.

SASH

STORM WINDOW FRAME

1 1/2" MIN (38 mm)

Board or wood piece must be approximately 1/2" higher than the storm window frame for proper drainage

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.
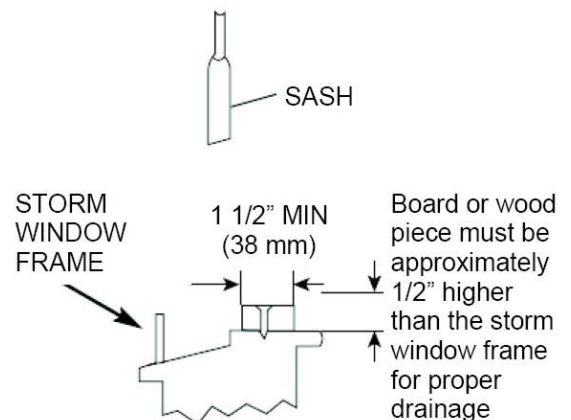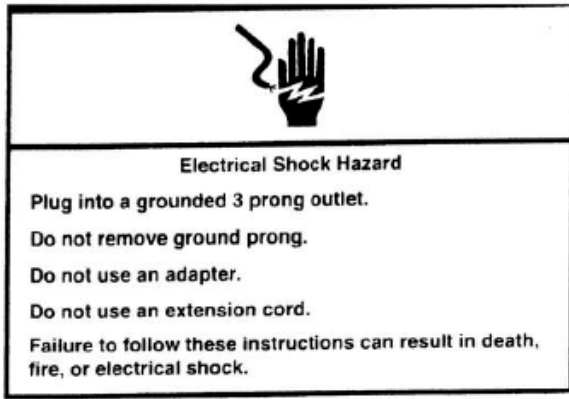
Power Supply Cord	Wiring Requirements
NEMA 5-15P	• 115-Volt (103.5 min to 126.5 max.) • 0 to 13amps • 15-amp time-delay fuse or circuit breaker • Use on single outlet circuit only.
NEMA 6-15P	• 230-Volt (198 min to 253 max.) • 0 to 12 amps • 15-amp time-delay fuse or circuit breaker • Use on single outlet circuit only.
NEMA 6-20P	• 208/230-Volt (198 min to 253 max.) • 0 to 16 amps • 20-amp time-delay fuse or circuit breaker • Use on single outlet circuit only.
NEMA 6-30P	• 230-Volt (198 min to 253 max.) • 0 to 24 amps • 25-amp time-delay fuse or circuit breaker • Use on single outlet circuit only.

TABLE - 2

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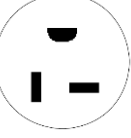- To assure that the electrical installation is adequate and in conformance with National Electrical Code, ANSI/NFPA 70- latest edition, and all local codes and ordinances.

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

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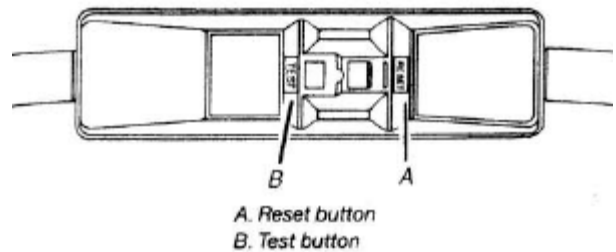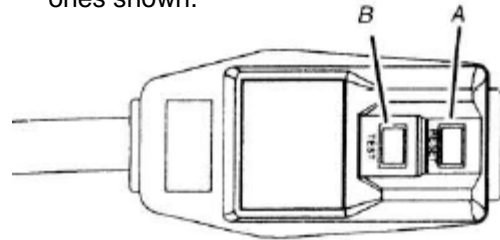
This room air conditioner is equipped with a power supply cord required by UL. This power supply cord contains state-of-the-art electronics that sense leakage current. If he cord is crushed, the electronics detect leakage current and power will be disconnected in a fraction of a second.

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.
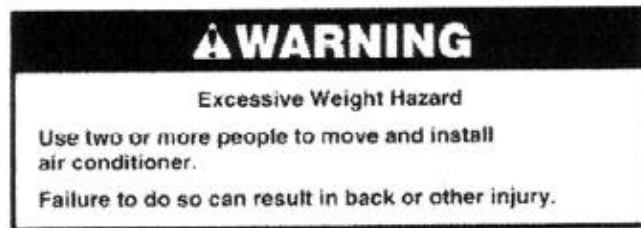
Remove packaging materials

- 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.

Remove Chassis

1. Pull down the front panel and remove the filter. See Fig.1.
2. Lift the front panel upwards to remove and place to the side.
3. Locate the four front screws and remove. These screws will need to be re-installed prior to mounting the air conditioner. See Fig.2

Fig.1

Front Panel

Front Grille

Fig.2
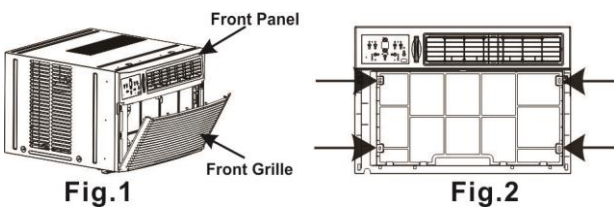
4. After removing the screws, gently pull away the front panel from the air conditioner cabinet. You may push metal cabinet side to release the plastic tabs on each side of front panel. See Fig 3A & 3B.
5. Disconnect the connector plug of the display panel from the unit. See Fig. 4.

Fig.3A

Fig.4

Fig.3B
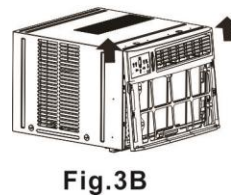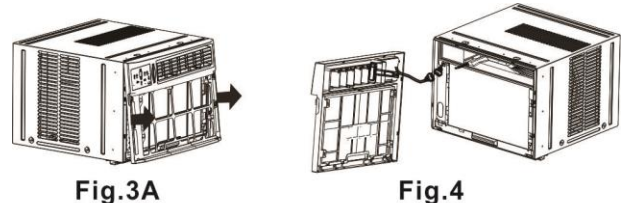
5. Remove the two screws on the top of the chassis and also on the side by base if installed. See Fig.5.
6. Hold the cabinet while pulling on the base of the chassis and carefully remove the chassis from the cabinet.
7. Add two foam inserts (included) to holes in top of cabinet where shipping screws were removed from. See Fig.6.

shipping screws

Fig.5

Fig.6
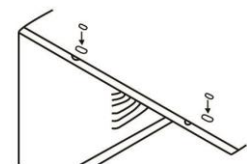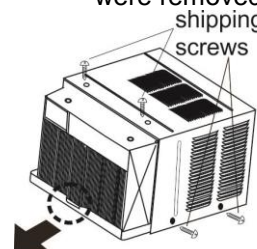
8. Your unit may come with internal packaging. This packaging must be removed prior to installing the air conditioner back into the cabinet. See Fig.7.

Shipping Packaging

Plastic tie

Fig.7
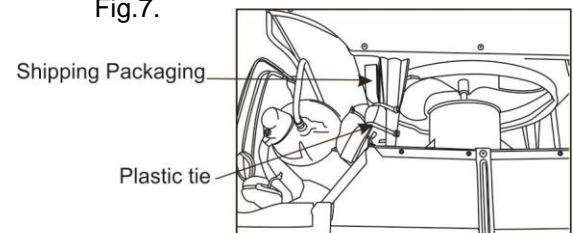
Prepare the Cabinet

1. Place the air conditioner on a hard flat surface.
2. Locate the foam gasket (included) and top angle rail (included).
3. Attach the foam gasket to the top angle rail.
NOTE: Your units may have the seal strip already attached to the top mounting rail. If applicable, skip this step.

Top mounting rail

Remove backing from seal strip

FRONT VIEW

Top mounting rail

Seal strip
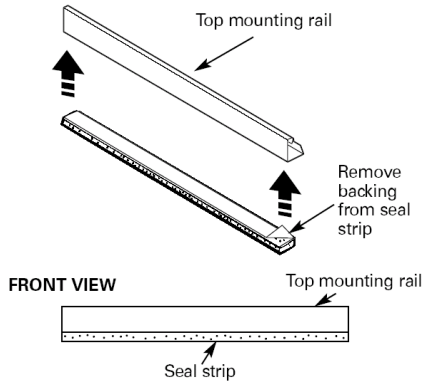
4. Install top angle and side retainers to cabinet as shown below.

5/16"long hex-head
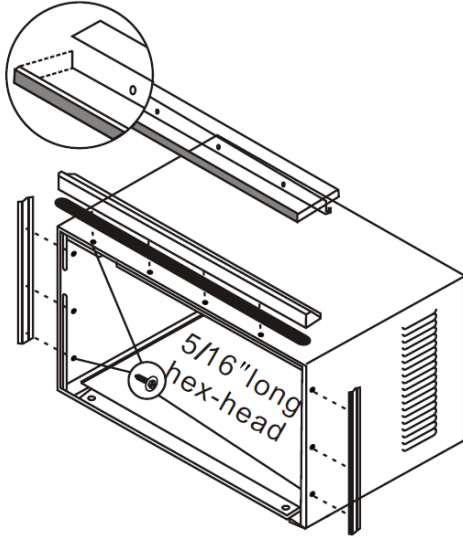
5. Slide "I" section of window filler panel into side retainer on the side of cabinet. Do both sides.

Plastic Frame

Window Filler Panel

Side Retainer

Top View

Air Conditioner Cabinet

Plastic Frame

Locking Screw Hole

"I" Section

Window Filler Panel
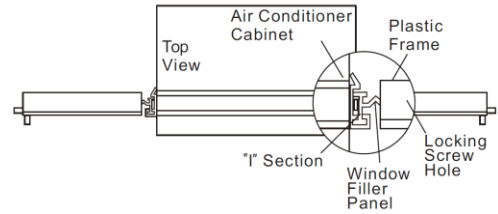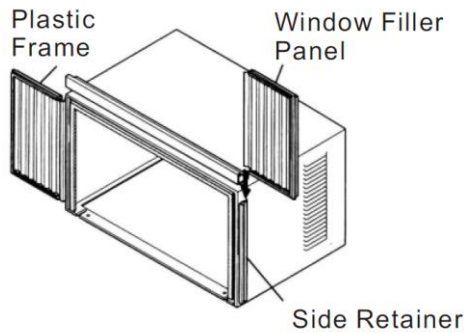
6. Insert top and bottom legs of window filler panel frame into channel in the top angle and bottom rail. Do both sides.
7. Insert washer head locking 7/16" screws (2) in to holes in top leg of filler panel frame (See Extend the Accordion Panels on Page 7.) Do not totally tighten. Screws will be tightened in later steps.

Install the Cabinet into the Window

NOTE:
- 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 5 ft 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.

Prepare the Window
Open window and mark center of the window sill.
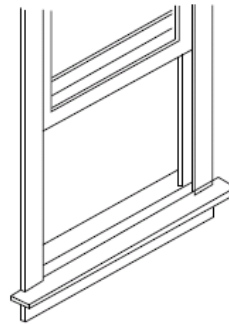
Install the Cabinet
1. Center the cabinet in window. Check that lower rail of cabinet is behind and against back side of window sill. Maintain a firm hold on the air conditioner cabinet. Lower window sash to hold cabinet in place.

Window Sill

Bottom Rail

Page 6
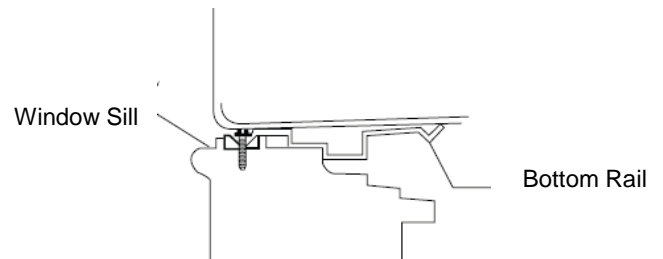
2. For wooden window: Fasten cabinet to window inner sill with two screws into holes. (You may need to pre-drill the pilot holes if it requires).
For Vinyl-Clad window: Place two safety locks into the holes located in the bottom of the cabinet and drive two #10 x 1/4" pan-head Phillips locking screws through the safety locks into the cabinet. (on some models)
3. Remove protective strip from adhesive side of bottom rail foam seal. Apply Seal over screws fastening bottom rail to window inner sill.

A. #10 X 1/4 pan-head Phillips screws
B. Safety Lock (Only for Vinly-Clad window)
C. Bottom Rail Foam Seal
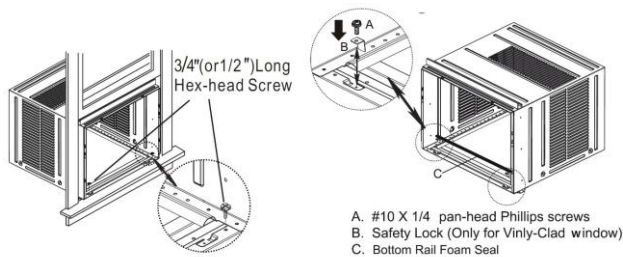
Install the Support Bracket

1. Hold each support bracket flush against the outside of the window sill. Tighten each bracket to the bottom of the cabinet as shown below. Mark the brackets at top lever of the window sill and then remove.
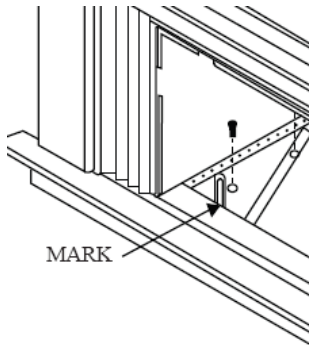
MARK

2. Assemble the sill angle brackets to the support brackets at the marked position as shown below. Hand tighten, but not all the way for any changes that may need to be made later during installation.
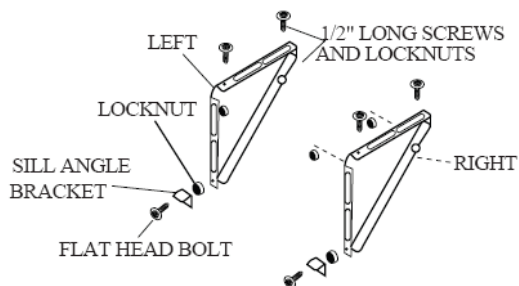
3. Install the support brackets (with sill angle

brackets attached) to the bottom of the cabinet as shown below.
4. Tighten all 6 bolts securely.

1/2" long screws and locknuts
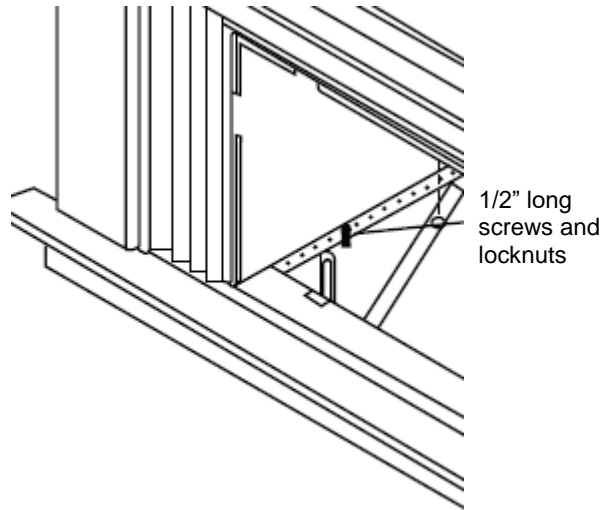
NOTE: Make sure the air conditioner is tilted back about 1 1/4" to 1 5/8" (tilted about 3º to 4º downward to the outside). After proper installation, condensate should not drain from the overflow drain hole during normal use, correct the slope otherwise. See below.
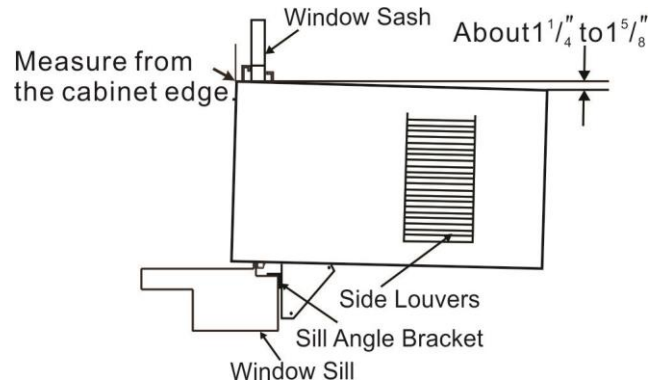
Extend the Accordion Panels

1. Carefully raise the window to expose the accordion panel and panel frame. Loosen the locking screws so the accordion panels slide easily.
2. Extend each panel to completely fill the width of the window. Tighten the locking screws when the panels are fully extended.

7/16"Locking Screw and Washer
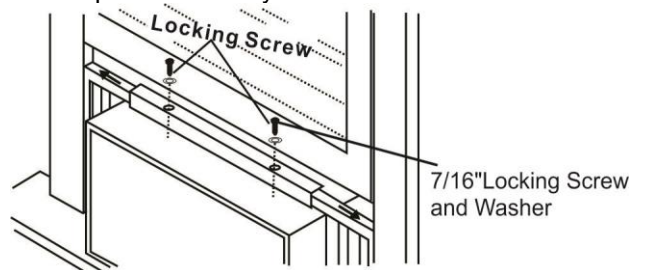
3. Close window behind top angle.
4. Attach the top angle to window frame: Use a 3/32" drill bit to drill one hole through the hole in the middle of top angle into the window frame, and drive one 3/4" (or 1/2") hex-head locking screw through hole in the middle of top angle into the window frame as below.

3/ 4" (or 1/ 2") long
HEX-HEAD
SCREW
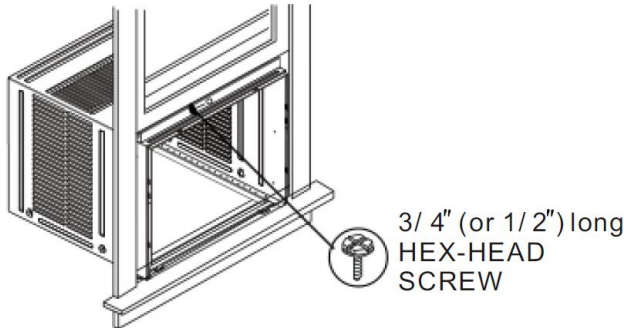
Attach Window Filler Panels to Window Frame

1. Extend the window filler panels out against the window frame
2. Use a 1/8" drill bit to drill a starter hole through the hole in the top leg of each window filler panel and into the window sash. Connect with one 3/4" (or 1/2") long hex head screw.
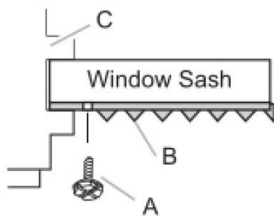
A. 3/ 4" (or 1/2") long hex head screw
B. Left-hand Window Filler Panel Top Leg
C. Window channel

weather seals

A. 3/ 4" (or1/2") long hex head screw
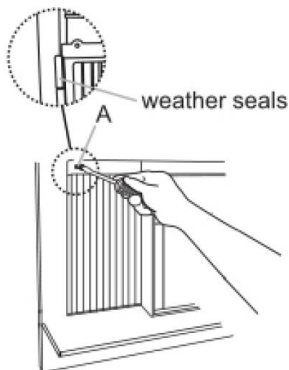
3. Attach the Lock Frames to the window sill using two 3/4" screws. (On some models)
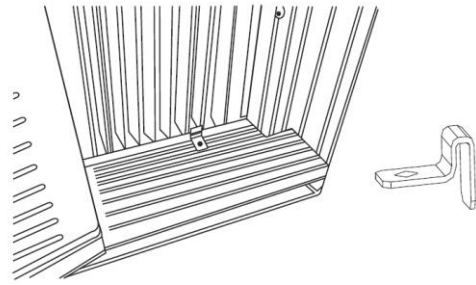
Install the Window Lock and Sash Seal

1. Trim the sash seal to fit the width of the window. Insert the sash seal into space between the upper and lower sashes.

WINDOW SASH SEAL
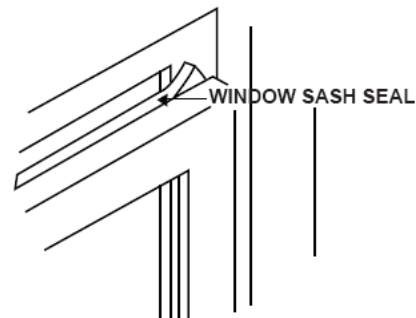
2. Attach the right angle safety lock.

Safety Lock

3/4"(or1/2")Long
Hex-head Screws
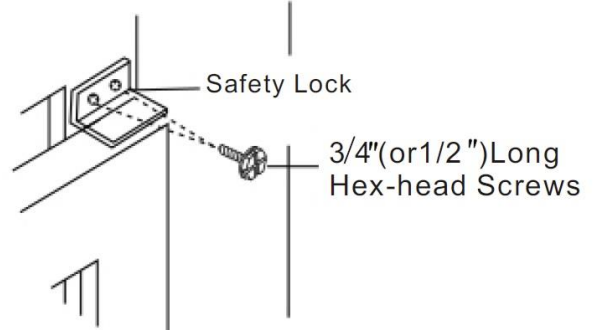
Install the Chassis into the Cabinet

1. Team lift (two people) the air conditioner chassis
2. and carefully slide it into the cabinet. Let the front of the air conditioner hang out approximately 6".

⚠ CAUTION

DO NOT PUSH ON THE CONTROLS OR FINNED COILS.
2. Be sure the chassis is firmly seated in the back of the cabinet.
3. Insert all screws removed during window installation and reattach the front face plate, front panel, and the air filter. Use the "REMOVE CHASSIS" instructions on Page 5 and figures for reference.

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.
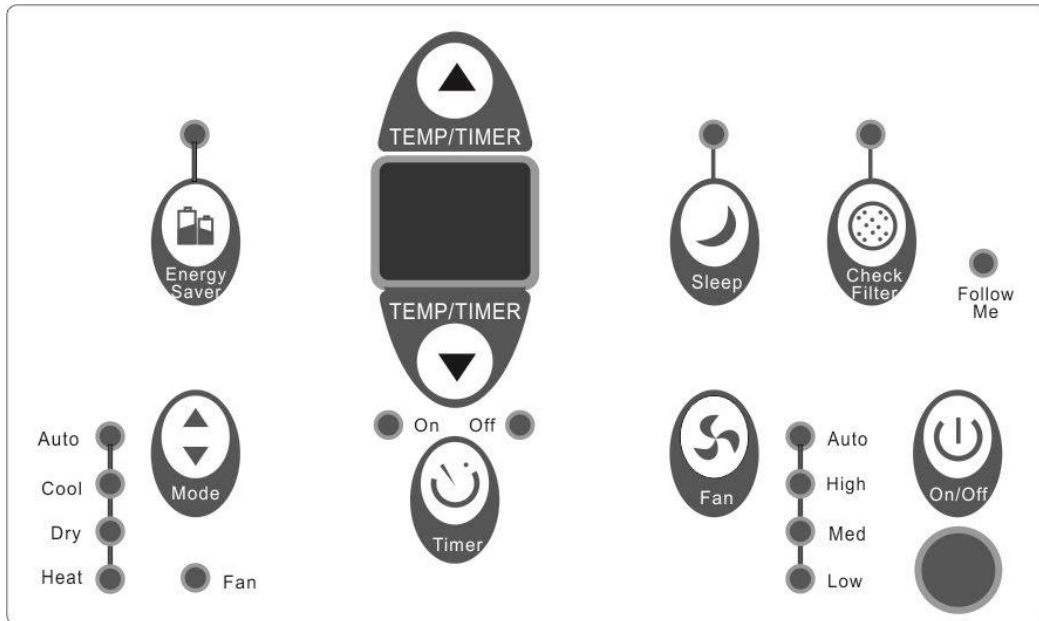
UNIT CONTROL PANEL

NOTE: HEAT MODE FOR WINDOW WITH ELECTRIC HEATER OR HEAT PUMP UNIT ONLY

Air Conditioner Controls

TO TURN UNIT ON/OFF:
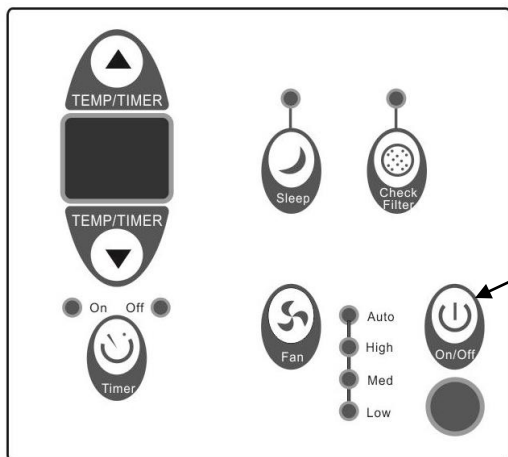
Press button to turn unit ON or OFF

TO CHANGE TEMPERATURE SETTING:
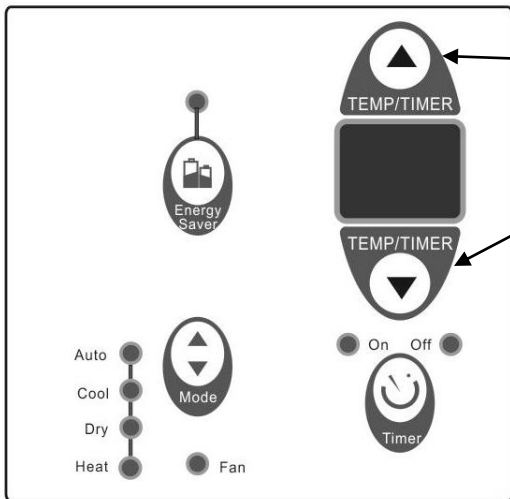
Change Temperature:
- Press or hold either Up (▲) or Down (▼) button until the desired temperature is seen on the display.
- Temperature range is 62°F (17°C) to 86°F (30°C) in 1°F (1°C) increments.
- When in Fan Only mode, display will indicate room temperature, otherwise it will show set temperature.

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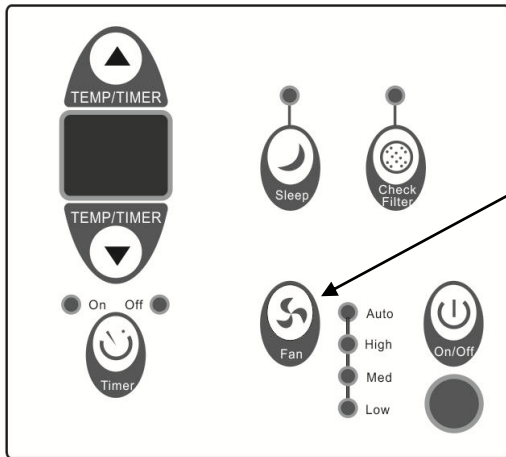
Select Fan Speed
- Used to select the Fan Speed in four steps
  - Auto
  - Low
  - Med.
  - High
- Each time the button is pressed, the fan speed mode is shifted.
- If the DRY mode is selected the fan will operate in Low speed.

TO SELECT THE OPERATING MODE:

TO USE THE ENERGY SAVER MODE:

NOTE:
For model WHP418ZRB, when indoor room temperature is above 50°F (10°C) and the outdoor temperature is above 39°F (4°C), then the heat pump (compressor) will be activated for heating. If the room temperature is below 50°F (10°C) or the outdoor temperature is below 39°F (4°C), the electric heater will be activated.
The electric heater and the compressor will not be activated at the same time.

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, Heat (For Heat model only) and Fan. The indicator light beside the Mode button will be illuminated.

To Operate Cool/Heat Mode:
* Press the **MODE** button to select Cool/Heat mode, temperature could be set between 62 °F and 86 °F in 1 °F 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 cool, heat or fan. The temperature can be changed 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, Heating, Auto and Dry). Fan speed is selectable (Auto, High, Med, and Low).
* 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.

To Operate Dry Mode:
* In this 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.
* The temperature is selectable.
* Fan will run at low speed only.

Energy Saver Mode:
* This function is available in COOL/DRY/AUTO (only Auto Cool and Auto Fan available) 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 (cooling mode) / decrease (heating mode) by 2°F in 30 minutes. In another 30 minutes the temperature setting will increase (cooling mode) / decrease (heating mode) 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:
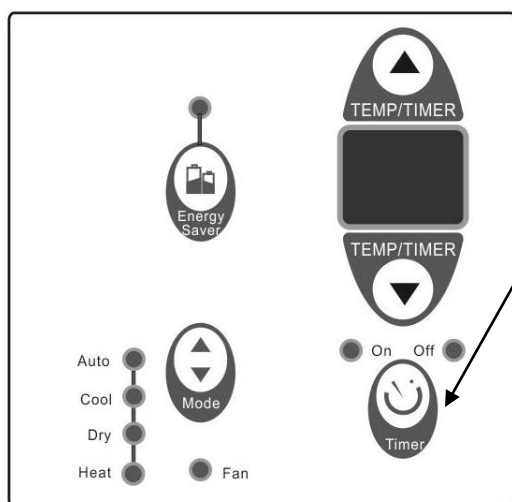
TIMER ON / TIMER OFF:
- Press the Timer button to select "On or Off". After the time is selected the unit will either turn on or off after the timer has timed out.

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 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.

FOLLOW ME:
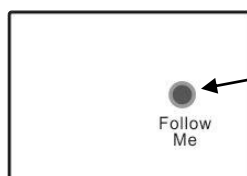
Light Flashing

FOLLOW ME:
This function can be activated by the remote control only. The remote control works as a remote thermostat allowing for the precise temperature control at its location.
To active the Follow Me function, 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 at 3 minutes intervals until the follow me button is pressed again. The air conditioner will beep to indicate the FOLLOW ME feature has ended if it does not receive the signal during any 7 minute interval.

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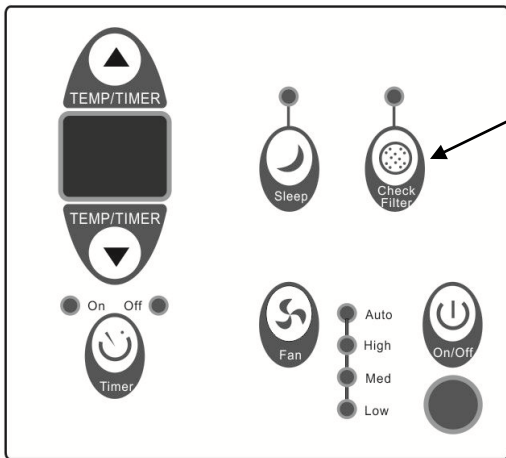
CHECK FILTER FEATURE:
This feature is a reminder to clean the Air Filter for more efficient operation. The LED (light) will illuminate after 250 hours of operation. To reset after cleaning the filter, press the Check Filter button and the light will turn off.

DISPLAYS:
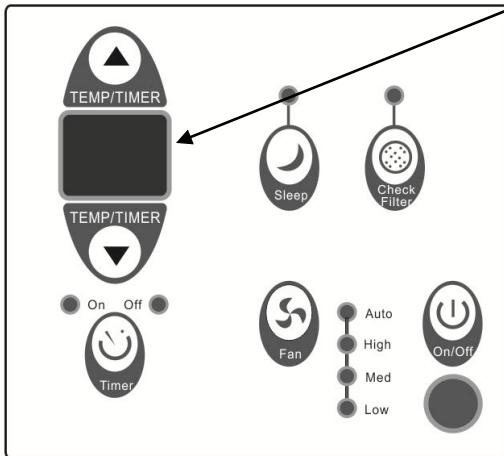
DISPLAY INDICATIONS:
Displays the following possibilities:
* °F or °C
* Timer setting
* Set temperature (all modes other than fan).
* Room temperature in the fan mode
* Error codes

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.
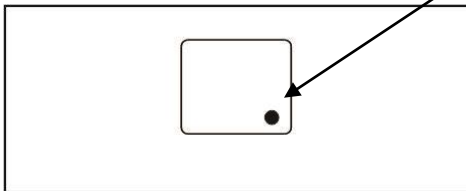
REMOTE CONTROL

Handling and location of the remote controller

Use the remote controller at a distance of 26 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	2.0V
Signal Receiving Range	26 ft
Environment	-41-140 ˚F

1) The illustrations in this manual are for explanation purposes only. The actual shape of remote controller may be slightly different.
2) An audible sound will be heard when the buttons are pressed to change settings or modes.
3) When using the panel controls to select any change, this change will not be received by the remote. The next change by the remote control, the change will update the function for the mode, fan temperature and other settings.

Function Buttons
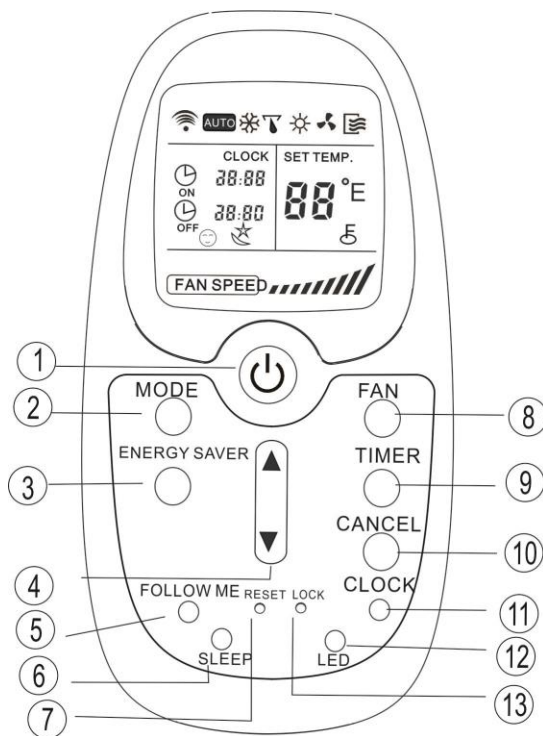
① ON/OFF Button: Push this button to start operation, push the button again to stop operation.
NOTE: The unit will initiate automatically the Energy Saver function under Cool, Dry, Auto (Only Auto-Cooling and Auto Fan) modes.

② MODE Button:

Press this button to select the desired operation mode from AUTO, COOL, DRY, HEAT (for Heat Models only) and FAN as the following sequence.

→ AUTO ⟶ COOL ⟶ DRY ⟶ HEAT ⟶ FAN ⟶

③ Energy Saver Button:

This function is only available on COOL, DRY, AUTO (only AUTO-COOL and AUTO-FAN) modes. Push the button, the fan will continue to run for another 3 minutes after the compressor stops. 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.

④ TEMP/TIME button:

Press the "▲" button to increase the room temperature setting or to adjust the TIMER in a clockwise direction. Push the "▼" button to decrease the indoor temperature setting or to adjust the TIMER in a counter-clockwise direction.
NOTE: Press and hold "▲" and "▼" buttons together for 3 seconds will alternate the temperature display between the ℃ & ℉ scale.

⑤ FOLLOW ME button:
Press the button to initiate the FOLLOW ME function, the remote display is actual temperature at its location. The remote control will send this signal to the air conditioner at 3 minute intervals until the follow me button is pressed again. The air conditioner will beep to indicate the FOLLOW ME feature has ended if it does not receive the signal during any 7 minute interval.

⑥ SLEEP button:
In SLEEP mode, the set temperature will increase (Cooling) or decrease (heating) by 2℉ over the next 30 minutes and by another 2℉ after an additional 30 minutes. This new temperature will be maintained for 6 hours before it returns to the originally selected temperature.
NOTE: While the SLEEP mode is operating, it can be cancelled by press SLEEP button again.

⑦ RESET Button:
When you press the recessed RESET button, all current setting are cancelled and the control will return to the initial settings.

⑧ FAN Button:
Select the Fan Speed in four steps AUTO, LOW, MED, or HIGH. Once pressed, the fan speed mode will change.

⑨ TIMER Button:
Set the time ON (start to operate), and the time OFF (turn off the operation).

⑩ CANCEL Button:
a.   If the TIMER ON, TIMER ON→OFF or TIMER OFF→ON feature has been set, press the CANCEL button will override the TIMER program and turn off the unit as well.
b.   If the TIMER OFF feature is set, pressing the cancel button will cancel the TIMER OFF function, and turn the unit on.

⑪ CLOCK Button:

Use to set the time.

⑫ LED Button:

Turns the display on and off.

⑬ LOCK Button:

When you press the LOCK button, all current settings are locked in and the remote controller will not operate until the lock button is pressed again.

Remote Display

Transmission Indicator
This transmission indicator lights when remote controller transmits signals to the indoor unit.

Mode display
Displays the current operation mode. Including AUTO(AUTO), COOL(❄), DRY(▼), HEAT(☀) (Not applicable to cooling only models), FAN ONLY (🌀)and back to AUTO(AUTO).

ON/OFF display
Displayed by pressing the ON/OFF button. Press the ON/OFF button to turn unit on of off. The display will illuminate indicating the unit is on.

Temp. display
Displays the temperature setting (17°C/62°F to 30°C/86°F）when you set the operating mode to FAN ONLY, room temperature is displayed.

Time display
Indicate Timer on/off time(0-24 hours) or clock time.
The clock time is indicated only when no AUTO-ON/OFF timer is set. When AUTO-TIMER feature is operating, it displays the AUTO-ON/OFF time. To check the current time, press the CLOCK button, and the time will display.

Fan speed display
Displays the selected fan speed, AUTO and three fan speed levels "///" (LOW) "/////" (MED) "//////" (HIGH) can be indicated. Displays AUTO when the operating mode is either AUTO or DRY.

Lock Display
Indicates locked display.

Sleep Display
Displayed by pressing the SLEEP button. Press the SLEEP button again to remove.

Follow Me Display
Displayed by pressing the FOLLOW ME button. Press it again to remove.

Note:
All displays on the remote controller are shown for illustration purposes only.

Setting the Clock
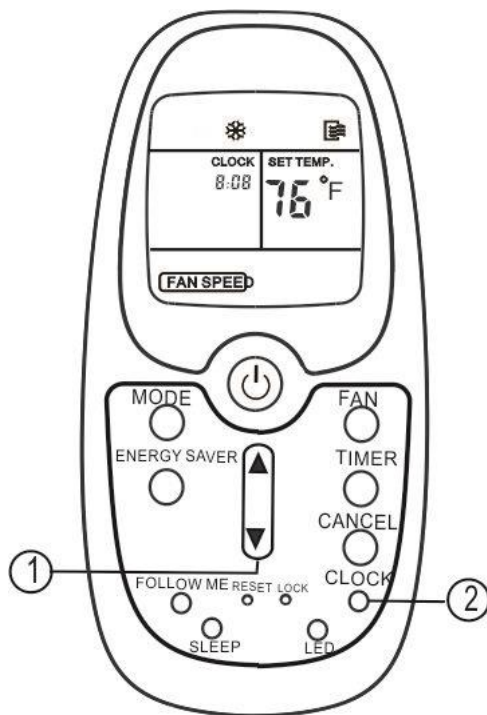
Before you start operation the air conditioner, set the clock of remote control using the procedures given in this section. The clock panel on the remote control will display the time regardless of whether the air conditioner is in use or not.

Initial Setting or the Clock

After batteries are inserted in the remote controller, the clock panel will display "12:00". Press and hold the CLOCK button for 3 seconds, the time display will begin to flash.

1. TEMP/TIME adjust button
    *   Press this button to set time.

▲Forward.

▼Backward.

*   Each time you press the button, the time moves forward or backward by one minute depending which button is pressed. The time alters as quickly as you push the button.
*   Keep pressing the button without releasing, the time moves forward or backward by 10 minutes depending which button is pressed.

2. Clock Button

When the right time is achieved, press the CLOCK button or release the "▲" or "▼"and wait for 5 seconds, the clock time stops flashing and the clock starts operating.

3. Readjust the Clock.

Press the CLOCK button on the remote controller for about 3 seconds, the clock display time will start to flash.

To set the new time, follow 1 and 2 of "Initial Setting of the Clock".

NOTE: The timer of the CLOCK must be set before the AUTO TIMER feature operates. If you readjust the time of the CLOCK after setting the AUTO ON/OFF timer, the remote control will send the readjusted timer information to the unit.

Clock accuracy is within 15 seconds per day.

CAUTION:

Static electricity or other factors (in case of extremely high voltage) can cause remote controller control clock to initialize. If your remote control is initialized (flashing "12:00"), readjust the clock before you start operation.

Automatic Operation
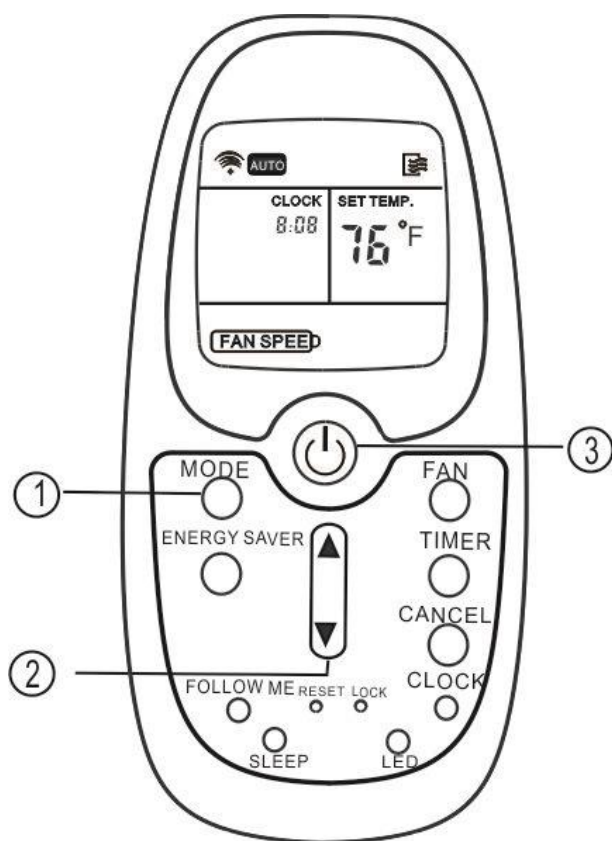
When you set the air conditioner in AUTO mode, it will automatically select cooling or fan only operation depending on what temperature you have selected and the room temperature. Once you select the operating mode, the operating conditions are saved in the unit's microcomputer memory.

Thereafter, the air conditioner will start operating under the same conditions when you simply press the ON/OFF button of the remote controller.

START the function:

Ensure the unit is plugged in and power is available. The OPERATION indicator on the display panel of the unit starts flashing.

1. MODE button

Press to select AUTO.

2. TEMP/TIME button

Set the desired temperature. Normally, set it between 70℉ to 82℉.

3. ON/OFF button

When the remote controller is off, press this button to start the air conditioner.

STOP the function:

ON/OFF button

Press this button again to stop the air conditioner.

If the AUTO mode is uncomfortable, you can select the desired conditions manually. When you select the AUTO mode, you do not have to set the fan speed. The fan speed will be automatically controlled.

Cooling/Heating/Fan only Operation

Start the function:
Ensure unit is plugged and power is available. The OPERATION lamp on the display panel of the unit starts flashing.
1. MODE button
Press to select COOL, HEAT (for Heat Model only) or FAN ONLY.
2. TEMP/TIME button
Set the desired temperature, the most comfortable temperature is between 70℉ to 82℉.
3. FAN SPEED button
Press to select "AUTO" "LOW" "MED" and "HIGH".
4. ON/OFF button
When the remote control is off, push this button to start the air conditioner.

Stop the function:
ON/OFF button
Push this button again to stop the air conditioner.

NOTE: The FAN ONLY mode does not control temperature. The temperature cannot be set on FAN ONLY mode.

Dry Operation
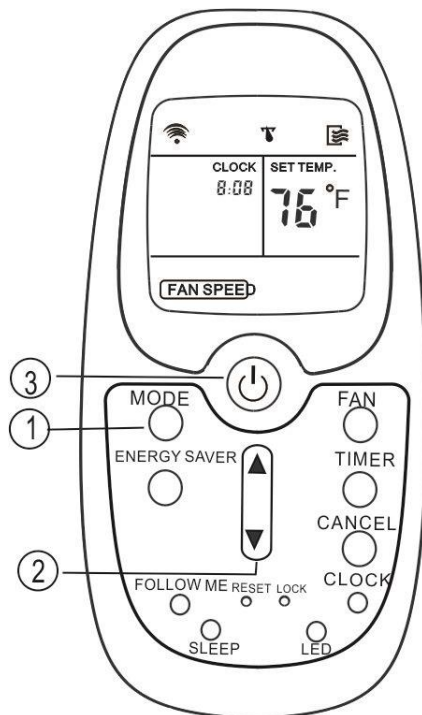
Start the function:
Ensure unit is plugged and power is available.
The OPERATION lamp on the display panel of the indoor unit starts flashing.
1. MODE button
Press to select DRY.
2. TEMP/TIME button
Push the "TEMP/TIME" button to set the desired temperature from 70℉ to 82℉.
3. ON/OFF button
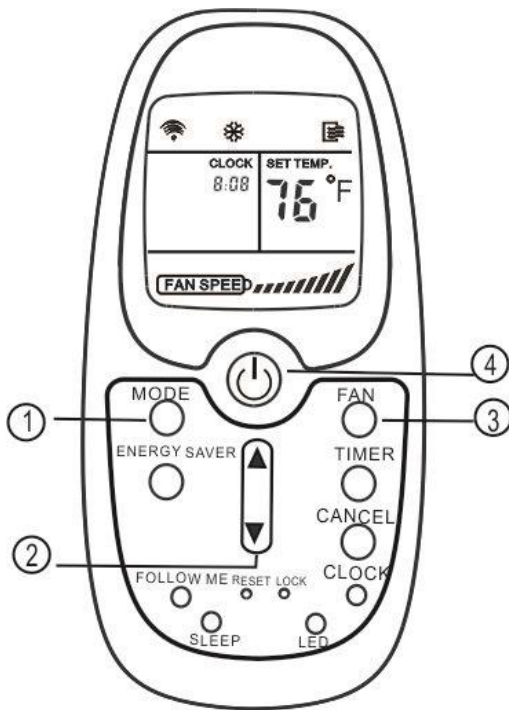When the remote control is off, push this button to start the air conditioner.

Stop the function:
ON/OFF button
Push this button again to stop the air conditioner.
NOTE: The fan speed cannot be adjusted when the unit is in AUTO or DRY mode.

Timer Operation
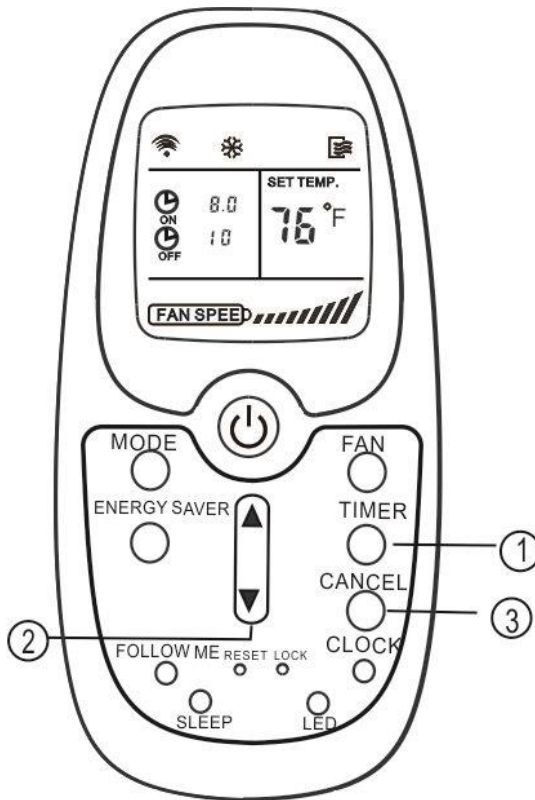
1. TIMER button
Press the TIMER button, the remote will display "0.0" alongside either the TIMER ON or TIMER OFF indicator, and will flash.
2. TEMP/TIME button
Press to set the desired time.
▲ Forward
▼ Backward
Press or hold the "▲" or "▼" button to change the Auto time by 0.5 hour increments, up to 10 hours, then at 1hour increments up to 24 hours.
The selected time will register in 3 seconds after setting.
After setting the timer for TIMER ON and TIMER OFF, check the TIMER indicator on the display panel of the unit should be illuminated.
Cancel the TIMER
Press Cancel button to cancel the timer setting.
Change the TIMER

CAUTONS:
When you select the timer operation, the remote control automatically transmits the timer signal to the indoor unit at the specified time. Therefore, keep the remote control in a location from which it can transmit the signal to the indoor unit properly.
The effective operation time set by remote control is limited to 24 hours.

Example of Timer Setting

TIMER ON
(Timer start Operation)
The TIMER ON function is useful when you want the unit to turn on automatically before you return home.
The air conditioner will automatically start operating at the set time.
IMPORTANT: The time will be registered within a 3 seconds period (after pressing the TEMP/TIME button), so you should continue pressing the button until the desired time is established. Otherwise you must repeat the steps again.
Example:
To turn the unit on in 8 hours.
1. Press the TIMER button, the TIMER ON indicator is displayed and the setting time is flashing.
2. Use the TEMP/TIME button to display "8.0" beside the TIMER ON display of the remote control
3. Wait for 3 seconds and the setting time stops flashing and this function is activated.
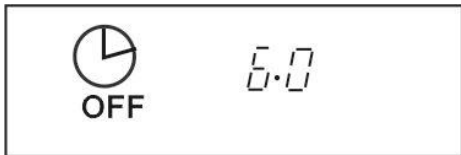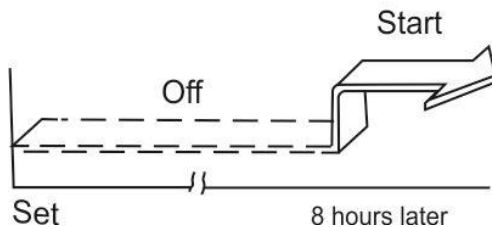
TIMER OFF
(Timer Stop Operation)
The TIMER OFF function is useful when you want the unit to turn off automatically. The air conditioner will stop automatically at the set time.
Example:
To turn the unit off in 6 hours.
1. Press the TIMER button until the TIMER OFF indicator is displayed and the setting time beside is flashing.
2. Use the TEMP/TIME button to display "6.0" beside the TIMER OFF display.
3. This function will be activated after 3 seconds you release the TEMP/TIME button.
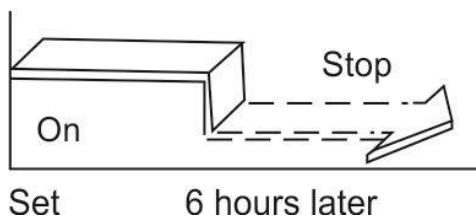
Combined Timer
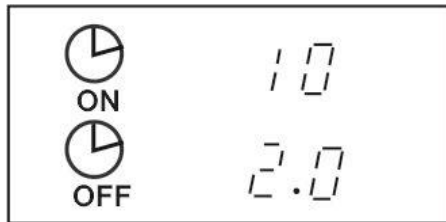
Setting both ON and OFF timers simultaneously
TIMER OFF → TIMER ON
(ON→STOP→START operation)
This feature is useful when you want to stop the air conditioner after you go to bed, and start it agin in the morning when you wake up or when you return home.
Example:
To stop the unit 2 hours after setting and start it again 10 hours after setting.

1. Press the TIMER button until the TIMER OFF indicator is displayed and time setting is flashing.
2. Use the TEMP/TIME button to display "2.0" beside the TIMER OFF display.
3. Press the TIMER button again to display the TIMER ON.
4. Use the TEMP/TIME button to display "10" beside the TIMER ON display.
5. Wait for 3 seconds until the TIMER ON time stops flashing and this function is activated.
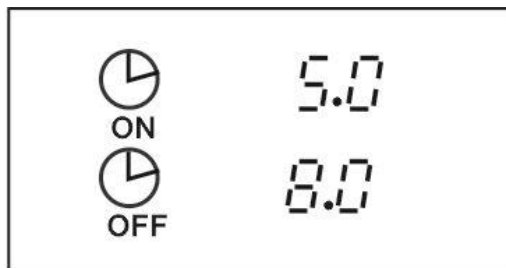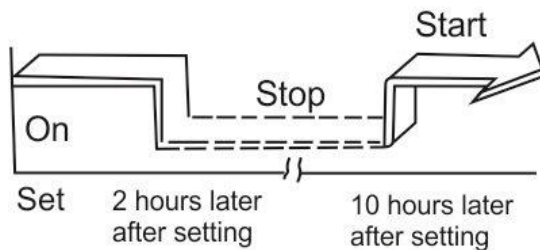
TIMER ON →TIMER OFF
(OFF→START→STOP operation)
This feature is useful when you want to start the air conditioner before you wake up and stop it after you leave the house.
Example:
To start the unit 5 hours after setting, and stop it 8 hours after setting.

1. Press the TIMER button, the TIMER ON displays and the setting time flashes.
2. Use the TEMP/TIME button to display "5.0" beside the TIMER ON display of the remote control.
3. Press the TIMER button again to display the TIMER OFF and the setting time.
4. Use the TEMP/TIME button to display "8.0" beside the TIMER OFF display.
5. Wait for 3 seconds until the TIMER OFF time stops flashing and this function is activated.
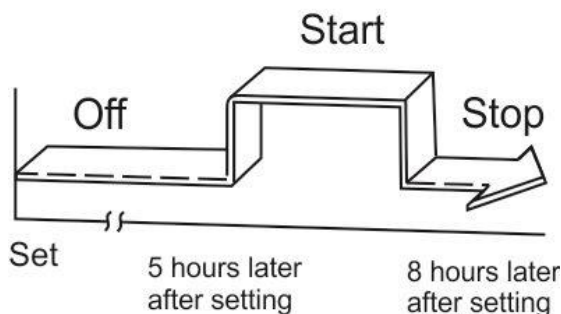
IMPORTANT INFORMATION

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 ℉ 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 TEMP/TIMER buttons on control panel simultaneously for 3 seconds.

Fresh Air Vent Control
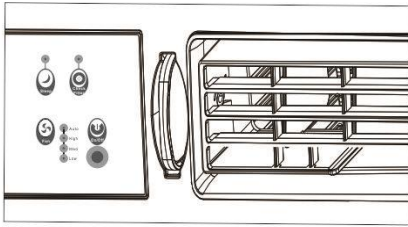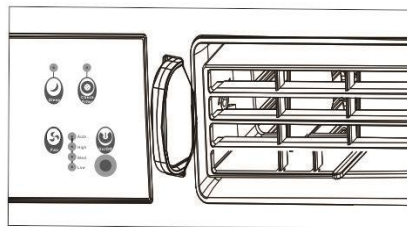
Fig. A (VENT CLOSED) **Fig. B** (VENT OPEN) **Fig. C** (VENT & EXHAUST OPEN)
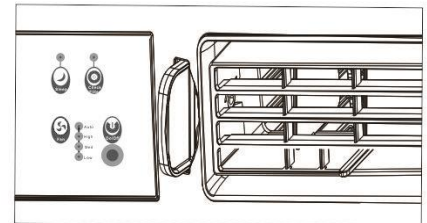
The Fresh Air Vent allows the air conditioner to:
1. Recirculate inside air - Vent Closed – Pushed In (See Fig. A)
2. Draw fresh air into the room- Vent Open – Partially Pulled Out (see Fig. B)
3. Exchange air from the room and draws fresh air into the room - Vent and Exhaust Open – Fully Pulled Out (see Fig. C)
4. To change vent operation (position) pull lever to desired opening.

Air Directional Louvers
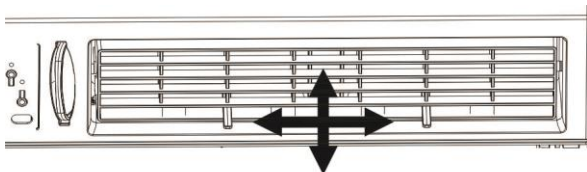
Air Direction(4- way)

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 from the fan.
- 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.
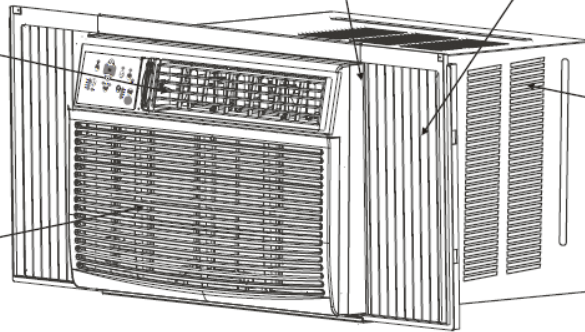
AIR CONDITIONER CARE

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.

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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 2 weeks to see whether it needs cleaning, or when the filter light is illuminated.

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 filter completely before replacing to ensure maximum efficiency.
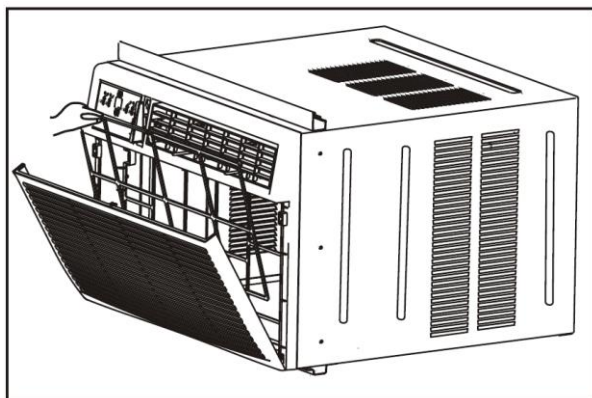
4. Replace air filter by sliding filter down into filter door and closing filter door.

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, Touchup 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.
If you plan to store the air conditioner during winter, remove it carefully from the window according to the installation instructions. Cover it with plastic or return it to the original carton.

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.

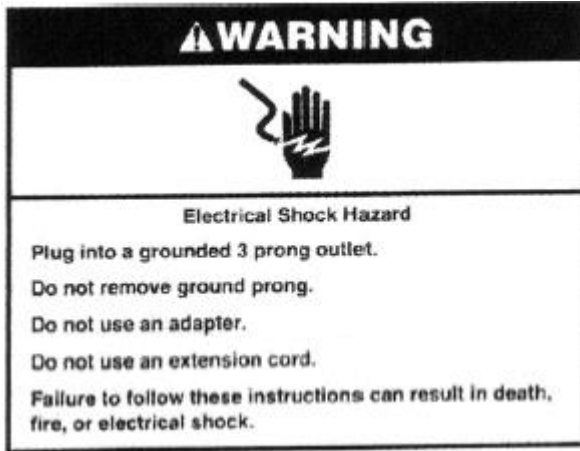3. **A household fuse has blown, or a circuit breaker has tripped.** Replace the fuse or reset the circuit breaker. If the problem continues, call an electrician. See "Electrical Requirements".

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 of the 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 64ºF (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 Model No.	WA428ZRB	WH418ZRB	WH425ZRB	WHP418ZRB
Product Code	422-0114	422-0117	422-0118	422-0120
Rated Voltage	208/230	208/230	208/230	208/230
Cooling Capacity	28,000	18,200/18,500	24,700/25,000	17,400/17,700
Heating Capacity	N/A	N/A	N/A	15,700/16,000
Electric Heat Capacity	N/A	13,000/16,000	13,000/16,000	9,100/11,200
CEER Rating	9.0	10.7	9.4	9.8
EER Rating	9.0	10.7	9.4	9.8
COP Rating	N/A	N/A	N/A	9.2
Dehumidification (pints/hr)	6.3	3.8	5.7	3.8
Air Flow H/M/L (CFM)	523/485/445	446/388/329	523/485/445	523/485/445
Operating Voltage Range	198-253	198-253	198-253	198-253
Frequency/Cycle	60 HZ	60 HZ	60 HZ	60 HZ
Cooling Amps	15.0/13.8	8.3/7.7	12.4/11.3	8.65/8.05
Cooling Watts	3110	1701/1729	2628/2660	1775/1805
Heating Amps	N/A	N/A	N/A	7.45/7.05
Heating Watts	N/A	N/A	N/A	1530/1600
Electric Heat Amps	N/A	20.0/22	20.0/22.5	14.5/16.0
Electric Heat Watts	N/A	4160/5060	4200/5100	2821/3450
Plug Type – LCDI	6-30P	6-30P	6-30P	6-20P
Power Cord Rating (amps)	30	30	30	20
Power Cord Length (ft)	6.5	5.9	5.9	5.9
Refrigerant Charge - R410a (oz.)	41.62	31.75	36.7	35.3
Max dbA Level (Indoor/Outdoor)	63.2/68.2	60/66	63.2/68.2	63.2/68.2
4 Way Air Adjustment	YES	YES	YES	YES
2 Way Air Swing	YES	YES	YES	YES
Air Discharge	Top Front	Top Front	Top Front	Top Front
Motor, A/C (bearing type)	Ball Bearing	Ball Bearing	Ball Bearing	Ball Bearing
Compressor Capacitor	55µF	45µF	60µF	45µF
Fan Motor Capacitor	8µF	8µF	8µF	8µF
Controls	Remote	Remote	Remote	Remote
Ambient Operating Temperature	64-109 °F	64-109 °F	64-109 °F	64-109 °F
Unit Width	26.5"	23.6"	26.5"	26.5"
Unit Depth	26.5"	25.4"	26.5"	26.5"
Unit Height	18.6"	17.9"	18.6"	18.6"
Window Width Opening	31-42"	26.5-40.5"	31-42"	31-42"
Thru. Wall Max. Thickness	10"	8"	10"	10"
Chassis Slide Out	Yes	Yes	Yes	Yes
N.W./G.W. (Lbs)	142.6/159	116.8/131	130.9/146.5	127/142
Energy Star	NO	NO	NO	NO

NOTE: 1) Product specification subject to change without notice.
2) Above 109 °F unit will still operate but efficiency starts to decline.

IRP Model No.	WH418ZRC	WH425ZRC
Product Code	422-0129	422-0130
Rated Voltage	208/230	208/230
Cooling Capacity	18,200/18,500	24,700/25,000
Heating Capacity	N/A	N/A
Electric Heat Capacity	13,000/16,000	13,000/16,000
CEER Rating	10.7	9.4
EER Rating	10.7	9.4
COP Rating	N/A	N/A
Dehumidification (pints/hr)	3.8	6.3
Air Flow H/M/L (CFM)	446/388/329	523/485/445
Operating Voltage Range	198-253	198-253
Frequency/Cycle	60 HZ	60 HZ
Cooling Amps	8.3/7.7	12.4/11.3
Cooling Watts	1701/1729	2628/2660
Heating Amps	N/A	N/A
Heating Watts	N/A	N/A
Electric Heat Amps	20.0/22	20.0/22.5
Electric Heat Watts	4160/5060	4200/5100
Plug Type – LCDI	6-30P	6-30P
Power Cord Rating (amps)	30	30
Power Cord Length (ft)	6.5	7.0
Refrigerant Charge - R410a (oz.)	28.92	34.22
Max dbA Level (Indoor/Outdoor)	60/66	63.2/68.2
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
Compressor Capacitor	45µF	55µF
Fan Motor Capacitor	8µF	8µF
Controls	Remote & Panel	Remote & Panel
Ambient Operating Temperature	64-109 °F	64-109 °F
Unit Width	23.6"	26.5"
Unit Depth	25.4"	26.5"
Unit Height	17.9"	18.6"
Window Width Opening	26.5-40.5"	31-42"
Thru. Wall Max. Thickness	8"	10"
Chassis Slide Out	Yes	Yes
N.W./G.W. (Lbs)	118.4/133.4	136.5/155.6
Energy Star	NO	NO

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 for spare parts and compressor from date of purchase (unless national regulations require a longer registration period).

Warranty coverage:
1) LABOR IS NOT COVERED.
2) OUT OF CARTON ISSUES MUST BE REPORTED WITHIN ONE DAY.
3) PARTS ARE COVERED FOR 1 YEAR.
4) COMPRESSORS ARE COVERED FOR 1 YEAR.
5) NORMAL WEAR AND TEAR IS NOT COVERED.

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.

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