

# Owner's Manual

## TABLE OF CONTENTS

	PAGE
SAFETY PRECAUTIONS .....	2
GENERAL .....	2
INDOOR UNIT PART NAMES .....	3
REMOTE CONTROL PART NAMES .....	4
DISPLAY PANELS .....	5
REMOTE CONTROL .....	6
REMOTE CONTROL FUNCTIONS .....	7
CLEANING, MAINTENANCE AND TROUBLESHOOTING .....	8-9

### NOTE TO EQUIPMENT OWNER:

Please read this Owner's Information Manual carefully before installing and using this appliance and keep this manual for future reference.

For your convenience, please record the model and serial numbers of your new equipment in the spaces provided. This information, along with the installation data and dealer contact information, will be helpful should your system require maintenance or service.

#### UNIT INFORMATION

Model # \_\_\_\_\_

Serial # \_\_\_\_\_

#### INSTALLATION INFORMATION

Date Installed \_\_\_\_\_

#### DEALERSHIP CONTACT INFORMATION

Company Name: \_\_\_\_\_

Address: \_\_\_\_\_

Phone Number: \_\_\_\_\_

Technician Name: \_\_\_\_\_


## SAFETY PRECAUTIONS

### **WARNING**

#### **PERSONAL INJURY, DEATH, OR PROPERTY DAMAGE HAZARD**

Failure to follow this warning could result in personal injury, death, or property damage.

Read and follow all instructions and warnings, including labels shipped with or attached to unit before operating your new air conditioner.

Any time you see this symbol  in manuals, instructions and on the unit, be aware of the potential for personal injury. There are three levels of precaution:

**DANGER** identifies the most serious hazards which will result in severe personal injury or death.

**WARNING** signifies hazards that could result in personal injury or death.

**CAUTION** is used to identify unsafe practices which would result in minor personal injury or product and property damage.

**NOTE** is used to highlight suggestions which **will** result in enhanced installation, reliability, or operation.

### **WARNING**

#### **PERSONAL INJURY, DEATH AND / OR PROPERTY DAMAGE HAZARD**

Failure to follow this warning could result in personal injury, death or property damage.

Improper installation, adjustment, alteration, service, maintenance, or use can cause explosion, fire, electrical shock, or other conditions which may cause personal injury or property damage.

Consult a qualified installer, service agency, your distributor or branch for information or assistance. The qualified installer or service agency must use factory-authorized kits or accessories when modifying this product.

## GENERAL

The high wall fan coil unit provides quiet, maximum comfort. In addition to cooling and/or heating, the high wall fan coil unit matched with an outdoor condensing unit will filter and dehumidify the air in the room to provide maximum comfort.

**IMPORTANT:** The high wall fan coil unit should be installed by authorized personnel only; using approved tubing and accessories. If technical assistance, service or repair is needed, contact the installer or call 1-800-227-7437.

The high wall fan coil unit can be set up and operated from the remote control (provided). **If the remote is misplaced, the system can be operated from the "Auto" setting on the unit.**

### **Operating Modes:**

The high wall fan coil unit has five operating modes.

- Fan only
- Auto (heat pump models only)
- Heating (heat pump models only)
- Cooling
- Dehumidification (DRY)

### **Fan Only**

In Fan Only mode, the system filters and circulates room air without changing room air temperature.

### **Auto**

In Auto mode, the system will automatically cool or heat the room according to the user-selected set point.

### **Heating**

In Heating mode, the system heats and filters room air.

### **Cooling**

In Cooling mode, the system cools, dries and filters room air.

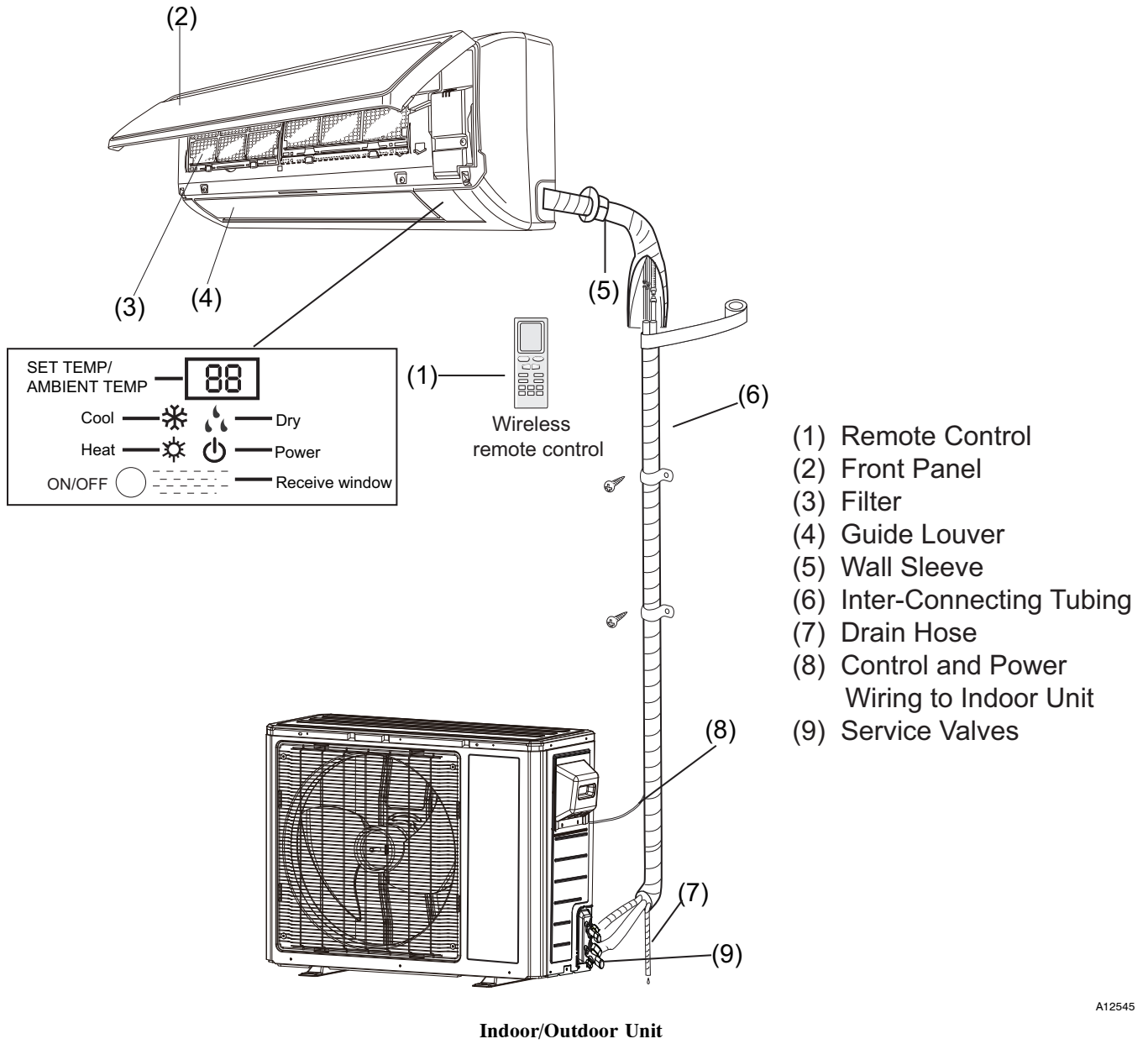
### **Dehumidification (DRY)**

In Dehumidification mode, the system dries, filters and slightly cools room air temperature. Use of this mode **does not** take the place of a dehumidifier.

### **Remote Control**

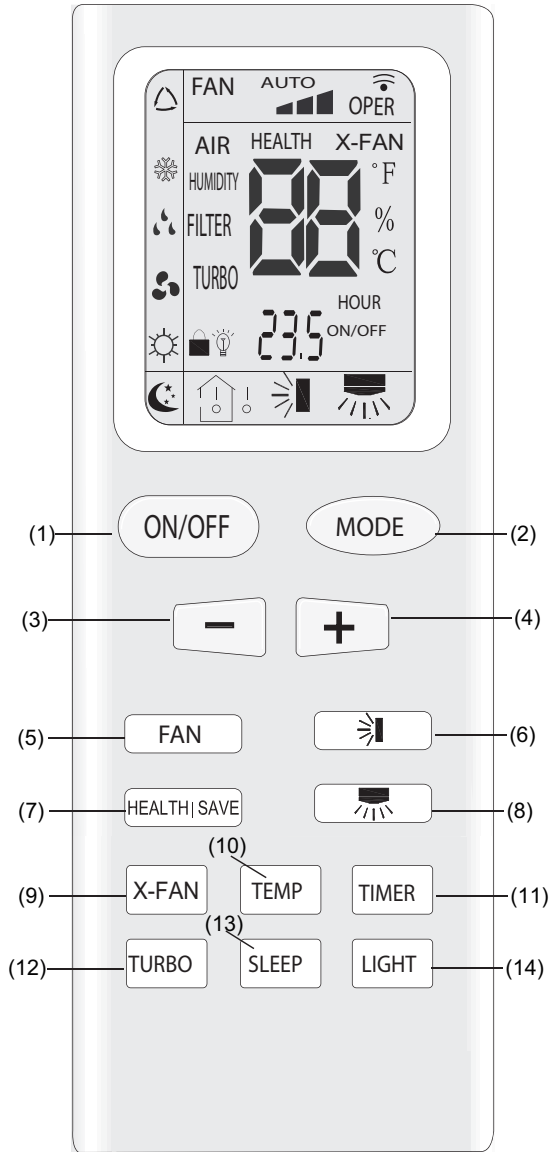
The remote control transmits commands to set up and operate the system. The control has a window display panel that shows the current system status. The control can be secured to a surface when used with the mounting bracket provided.



# INDOOR UNIT PART NAMES



A12545

# REMOTE CONTROL PART NAMES



- (1) **ON/OFF**  
Press to start or stop operation
- (2) **MODE**  
Press to select operation mode (AUTO/COOL/DRY/FAN/HEAT)
- (3) **-**: Press to decrease temperature setting
- (4) **+**: Press to increase temperature setting
- (5) **FAN**  
Press to set fan speed
- (6)  **Horizontal Swing**  
Press to activate horizontal swing or set louver positions
- (7) **HEALTH|SAVE**  
Press to turn HEALTH function on or off
- (8)  **Vertical Swing** (Not Available)
- (9) **X-FAN**  
Press to activate or deactivate DRY function
- (10) **TEMP**  
Press to alternate between set point and room temperature display
- (11) **TIMER**  
Press to set TIMER ON/ TIMER OFF
- (12) **TURBO**  
Press to activate or deactivate TURBO mode
- (13) **SLEEP**  
Press to activate or deactivate SLEEP mode
- (14) **LIGHT**  
Press to activate or deactivate display panel light

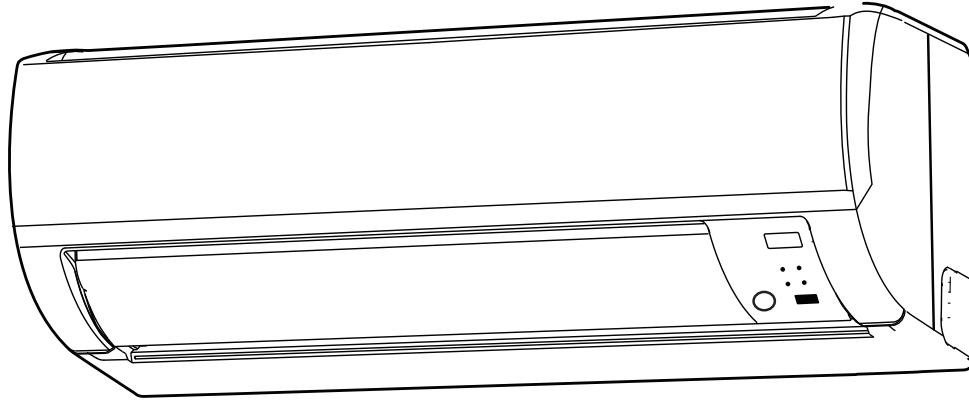
## Remote Control

A12390

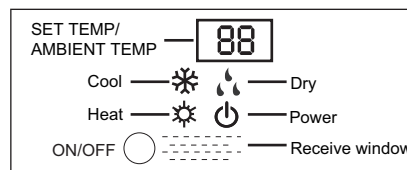
# DISPLAY PANELS

**NOTE:** The display panel on the indoor unit can be turned on or off using the **LIGHT** button on the remote control.

## On the Unit:



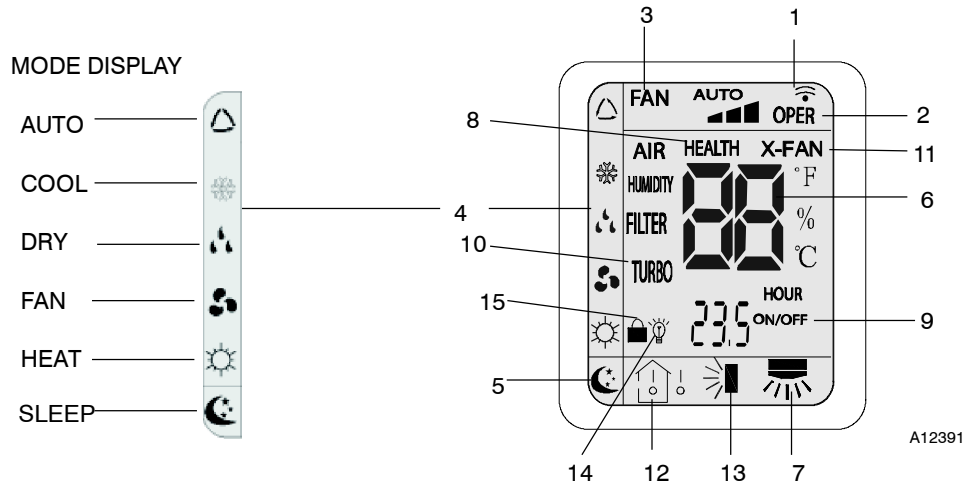
A12547



A12546

\* The temperature readout will be replaced by an error code if there is a malfunction.

## Remote Control Display



A12391

**NOTE:** Symbols shown in this manual are for the purpose of demonstration. During actual operation, only the relevant symbols are displayed.

1. **TRANSMISSION INDICATOR:** Illuminates when remote control transmits signals to the indoor unit.
2. This symbol appears when the unit is turned on by the remote control, and disappears when the unit is turned off.
3. **FAN SPEED DISPLAY:** Indicates the set fan speed. AUTO is displayed when unit is running in AUTO mode.
4. **MODE DISPLAY:** Indicates the current operation mode "AUTO", "COOL", "DRY", "FAN ONLY", or "HEAT"
5. **SLEEP DISPLAY:** Indicates unit is running in SLEEP mode.
6. **TEMPERATURE DISPLAY:** Temperature setting from 61°F (16°C) to 86°F (30°C) will be displayed. If FAN mode is selected, there will be no temperature displayed. During DEFROST operation, H1 will be displayed. During SAVE mode, SE will be displayed.
7. **Left/Right Louver Swing:** Not available on these models.
8. **HEALTH/SAVE:** HEALTH is not available. SAVE is available on sizes 18k and 24k. SAVE mode can be applied to cooling mode and when set point is less than 80°F (27°C).
9. **SETTING ON / OFF TIMES:** 0.5 to 24 hours.
10. **TURBO DISPLAY:** Displayed when unit is running in TURBO mode.
11. **DRY COIL DISPLAY:** Indicates unit is running in DRY COIL mode where the fan continues to run after the unit is shut off to dry the coil.
12. **TEMPERATURE DISPLAY:** Displays set point or room temperature.
13. **SWING DISPLAY:** Sets louver position or set louvers to continuously move for better air distribution.
14. **LIGHT DISPLAY:** Indicates if LED display on the front panel is illuminated or not.
15. **LOCK DISPLAY:** Indicates if remote control is locked.

## REMOTE CONTROL

### ⚠ CAUTION

#### EQUIPMENT DAMAGE HAZARD

Failure to follow this caution may result in equipment damage. Handle the control with care and avoid getting the control wet.

**NOTE:** To switch between °C and °F, push the “MODE” and “-” button simultaneously while the unit is off.

**IMPORTANT:** The remote control can operate the unit from a distance of up to 25 ft. (7.6 m) as long as there are no obstructions.

This is one way communication only (from remote control to fan coil).

The remote control can perform the following basic functions:

- Turn the system ON and OFF
- Select operating mode
- Adjust room air temperature set point and fan speed
- Adjust airflow direction

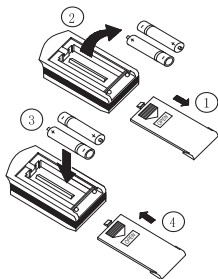
Refer to the *Remote Control Function* section for detailed description of all the capabilities of the remote control.

### Battery Installation

Two AAA 1.5 v alkaline batteries (included) are required for operation of the remote control.

To install or replace batteries :

1. Slide the back cover off the control to open the battery compartment.
2. Remove old batteries if you are replacing the batteries.
3. Insert batteries. Follow the polarity markings inside the battery compartment.
4. Replace battery compartment cover.



A08299

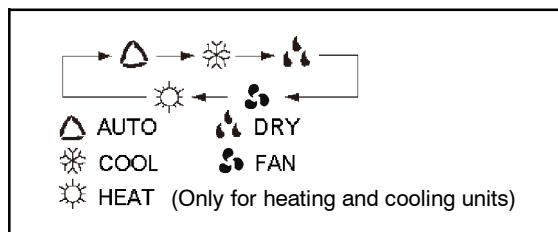
#### NOTE:

1. When replacing batteries, do not use old batteries or a different type battery. This may cause the remote control to malfunction.
2. If the remote is not going to be used for several weeks, remove the batteries. Otherwise battery leakage may damage the remote control.
3. The average battery life under normal use is about 6 months.
4. Replace the batteries when there is no audible beep from the indoor unit or if the Transmission Indicator fails to light.

## Remote Control Operation - Quick Start

**NOTE:** When transmitting a command from the remote control to the unit, be sure to point the control toward the LED display on the front panel of the unit. The unit will confirm receipt of a command by sounding an audible beep.

1. Turn the unit on by pushing the **ON/OFF** button.
2. Select the desired mode by pushing the mode button.



A08301

**NOTE:** Cool only units have no heat mode.

3. Select the temperature set point by pointing the control toward the unit and pressing the “+” or “-” temperature set point buttons until the desired temperature appears on screen.
4. Select the desired fan speed by pressing the **FAN SPEED** button to select desired fan speed.

**NOTE:** If unit is operating in Dry mode (X-FAN), low fan speed will be displayed and the fan speed cannot be changed.

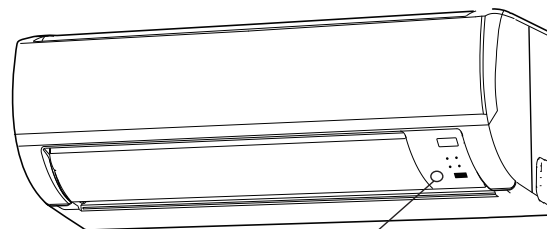
5. Set the airflow direction. When the unit is turned on, the louvers default to the cooling or heating position. The user can adjust the default louver position by pushing the “SWING” buttons. For details on operating the SWING louvers, refer to the Remote Control Functions section.

### Emergency Operation

If the remote control is lost, damaged, or the batteries are exhausted, the **ON/OFF** button on the unit can be used to run the unit.

Press the **ON/OFF** button once briefly when the system is off.

To stop emergency operation, push the **ON/OFF** button once.



ON/OFF Button


A12547

### Combination of “MODE” and “-” Buttons:

Switches between Fahrenheit and Centigrade. At unit OFF, press “MODE” and “-” buttons simultaneously to switch between °C and °F.

## REMOTE CONTROL FUNCTIONS

The remote control is the interface between the user and the high-wall systems. Commands are entered by the user to control the system. Any command that has been entered with the remote control will remain in the memory until it is changed by the user or the batteries are replaced.

**NOTE: When entering commands, point the remote control in the direction of the LED display on the front panel. The  will appear for a short period of time on the remote control when the command is entered. The unit will only emit an audible beep when the signals are received correctly.**

### ON/OFF:

Press this button to turn unit on and off.

### MODE:

Each time this button is pressed, a mode is selected in a sequence that goes from AUTO, COOL, DRY, FAN and HEAT\*, as shown below:



**NOTE: \*Only models with heating function.**

AUTO mode is the default setting at start-up. In AUTO mode, the set temperature will not be displayed on the LCD, and the unit will automatically select the suitable operation mode to provide comfort based on parameters set from the factory.

### 

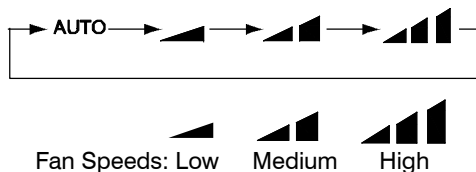
Press this button once to decrease the setpoint by 1°F. If the button is pressed for more than two seconds, the setpoint decreases rapidly in increments of 1°F. In AUTO mode, set temperature is not adjustable.

### 

Press this button to increase the setpoint by 1°F. If the button is pressed for more than two seconds, the setpoint increases rapidly in increments of 1°F. In AUTO mode, set temperature is not adjustable.



### FAN:

This button is used to set the fan speed in the following sequence






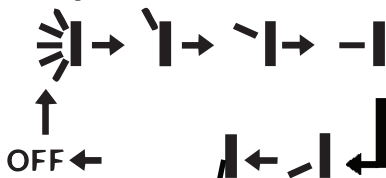
### 

The horizontal swing button can be used to have the louvers swing continuously, or to move the louvers to a predetermined position. To move the louvers continuously:

- Press  button to start the swing function. Press  again to stop the swing function.

To move the louvers to a predetermined position:

- Press + button and  button at the same time while the unit is off. The  will blink for two seconds.
- Now, pressing the  button changes the horizontal louvers to positions shown below.



### HEALTH|SAVE:

HEALTH is not available, SAVE is available on unit sizes 18K and 24K.

When SAVE (right-hand side of button) is pressed, SE is displayed and the unit goes into SAVE operation mode (set point defaults to 80°F/27°C). Press SAVE button again to cancel function. During SAVE operation, the temperature and fan speed is not adjustable.

### X-FAN:

Pressing X-FAN button in COOL or DRY mode will activate the DRY function and the X-FAN icon will be displayed. When this function is activated, the indoor fan will continue to run for 10 minutes in order to dry the indoor coil after the unit is turned off. X-FAN is not available in AUTO, FAN and HEAT mode.

### TEMP:

The unit will display the set point temperature. Pressing the TEMP button once will display the room temperature (measured by return air sensor). After 5 seconds, the set point will be displayed again.

### TIMER:

This function will allow the user to set the unit to run for a number of hours and be off for a number of hours, on a continuous basis. The time OFF and ON can be set from 0.5 hours to 24 hours in half hour increments, within a one minute accuracy.

**Setting the Timer ON Time:** With the remote control and system OFF, press the “TIMER” button. Within 5 seconds, use the “+” and “-” buttons to set the TIMER ON hours. The range of hours is from 0.5 to 24 hours, in half hour increments. Press the “TIMER” button again to save the setting.

**Setting the Timer OFF Time:** With the remote control and system ON, press the “TIMER” button within 5 seconds, use the “+” and “-” button to set the Timer OFF hours. The range of hours is 0.5 to 24 hours, in half hour increments. Press the “TIMER” button again to save the setting.

### **NOTE:**

1. Once the Time ON time is set to a number of hours, and the Time OFF time is set to a number of hours, the system will operate on and off at those set times. It will continue until the hours ON and OFF are changed or the timer function is turned OFF.
2. To Turn OFF timer function, simply press the “TIMER” button again, clearing the timer function from the remote control display.

### TURBO:

Press this button to activate/deactivate the TURBO function. The TURBO function enables the unit to reach the set temperature quicker by running at higher fan speeds.

### SLEEP MODE:

This mode is used to conserve energy and can be used when the unit is in the COOL, HEAT or DRY mode only.



**In Cool Mode:** Push the SLEEP button. After 1 hour, the set point will be raised by 1.8°F (1°C). After another hour, the set point will be raised by another 1.8°F (1°C) and the fan will run in low speed.

The SLEEP mode will be cancelled when the SLEEP button is pushed again.



**In Heat Mode:** Same as cooling mode but set points will be lowered by 1.8°F (1°C) and the HEAT icon will disappear from the display panel.

### LIGHT:

This function will allow the user to turn the display ON or OFF on the front panel.

Press the light icon  to turn the indoor unit front panel ON or OFF. The remote control will display the Light Icon .

### Combination of “+” and “-” Buttons:

Press “+” and “-” buttons simultaneously to lock or unlock the keypad. If the remote control is locked,  is displayed. In this case, pressing any button,  blinks three times to acknowledge the keypad is unlocked.

# CLEANING, MAINTENANCE AND TROUBLESHOOTING

## CAUTION

### ELECTRICAL SHOCK HAZARD

Failure to follow this caution may result in personal injury or death.

Always turn off power to the system before performing any cleaning or maintenance to the system. Turn off the outdoor disconnect switch located near outdoor unit. Be sure to disconnect indoor unit if on a separate switch

## CAUTION

### EQUIPMENT DAMAGE/OPERATION HAZARD

Failure to follow this caution may result in equipment damage or improper unit operation.

Operating the system with dirty air filters may damage the indoor unit and could cause reduced cooling performance, intermittent system operation, frost build-up on indoor coil or blown fuses.

### Periodic Maintenance

Periodic maintenance is recommended to ensure proper operation of the unit. Recommended maintenance intervals may vary depending on the installation environment, e.g., dusty zones, etc. Refer to Table 1.

## CAUTION

### CUT HAZARD

Failure to follow this caution may result in personal injury.

The coil fins are very sharp. Use caution when cleaning.

Always wear safety protection.

### Cleaning the Coil

Clean the coil at the beginning of each cooling season, or when necessary. Use a vacuum cleaner or a long-bristle brush to avoid damage to the coil fins.

### Air Filters

Remove and clean the air filters once a month.

**NOTE:** If air filters show signs of excessive wear or are torn, they must be replaced. Contact your local dealer for replacement filters.

1. Open front panel on unit.
2. Pull filters down to remove.
3. Vacuum filters.
4. Clean with warm water.
5. Shake filter to remove excess water and dry thoroughly.
6. Replace filter by sliding into rack until filter snaps in place.
7. Close front panel on unit.

## CAUTION

### EQUIPMENT DAMAGE HAZARD

Failure to follow this caution may result in equipment damage.

When cleaning the front panel, do not use water hotter than 105°F (40.56°C) and do not pour water onto the fan coil. Do not use abrasive or petroleum based cleaners as they may damage the front panel.

### Indoor Unit Front Panel

To clean the front panel on the indoor unit, wipe the outside with a soft, dry cloth. If necessary, a mild liquid detergent can be applied and wiped off with a dry cloth.

### Preparing for Extended Shutdown Period

Clean the filters and reposition them in the unit. Operate the unit in Fan only mode for 12 hours to dry all internal parts.

Turn main power supply off and remove batteries from the remote control.

### System Operation Recommendations

The items outlined in the following list will help to assure proper system operation:

- Replace both remote control batteries at the same time.
- Point the remote control toward the unit display panel when transmitting a command.
- Keep doors and windows closed while unit is operating.
- Contact an authorized service representative if a problem arises that cannot be easily resolved.
- Do not perform cleaning or maintenance activities while unit is on.
- Keep display panel on unit away from direct sunlight and heat as this may interfere with remote control transmissions.
- Do not block air intakes and outlets on the indoor or outdoor units.

### Energy Saving Recommendations

The following recommendations will add greater efficiency to the ductfree system:

- Select a comfortable thermostat setting and leave it at chosen setting. Avoid continually raising and lowering the setting.
- Keep unit filter clean. Frequent cleaning may be necessary depending on indoor air quality.
- Use drapes, curtains or shades to keep direct sunlight from heating room on very hot days.
- Do not obstruct air intake on front panel.
- Turn on air conditioning before indoor air becomes too uncomfortable.

### Troubleshooting

Refer to Table 2 before contacting your local dealer.



**Table 1—Periodic Maintenance**

INDOOR UNIT	EVERY MONTH	EVERY 6 MONTHS	EVERY YEAR
Clean Air Filter*	•		•
Change Remote Control Batteries		•	
OUTDOOR UNIT	EVERY MONTH	EVERY 6 MONTHS	EVERY YEAR
Clean Outdoor Coil from Outside		•	•
Clean Outdoor Coil from Inside†			•
Blow Air Over Electric Parts†			•
Check Electric Connection Tightening†			•
Clean Fan Wheel†			•
Check Fan Tightening†			•
Clean Drain Pan†			•

\* Increase frequency in dusty zones.

† Maintenance to be carried out by qualified service personnel. Refer to the Installation Manual

**Table 2—Troubleshooting**

PROBLEM	POSSIBLE CAUSE	SOLUTION
<b>Indoor unit emits a bad odor on start-up</b>	<ul style="list-style-type: none"> <li>Air filter dirty</li> <li>Output air still has odor after cleaning filter.</li> </ul>	<ul style="list-style-type: none"> <li>Clean the air filter</li> <li>Contact your service representative.</li> </ul>
<b>You hear water flowing noise when the unit is running</b>	<ul style="list-style-type: none"> <li>This is normal and is the refrigerant flowing through the system.</li> </ul>	<ul style="list-style-type: none"> <li>No maintenance required</li> </ul>
<b>Indoor unit produces a mist when the air conditioner is running</b>	<ul style="list-style-type: none"> <li>This is normal cooling and is caused by high humidity and temperature in the room.</li> </ul>	<ul style="list-style-type: none"> <li>No maintenance required. Mist should stop as room is cooled down and the humidity is removed.</li> </ul>
<b>Wireless remote control does not work</b>	<ul style="list-style-type: none"> <li>Batteries are dead.</li> <li>Unit needs to be reset.</li> </ul>	<ul style="list-style-type: none"> <li>See battery replacement section in this manual and replace batteries.</li> <li>Turn off power to indoor unit. Remove plug from wall and then reinsert plug. Restart unit.</li> </ul>
<b>Water leaks into room from Indoor unit</b>	<ul style="list-style-type: none"> <li>Condensing water has overflowed</li> </ul>	<ul style="list-style-type: none"> <li>Check indoor condensing drain or call your representative.</li> </ul>
<b>Unit/System Does Not Work</b>	<ul style="list-style-type: none"> <li>To protect the unit upon an immediate restart after a stop, the system controller will delay the unit for 3 minutes before allowing the unit to start back up.</li> <li>The circuit breaker has tripped or a fuse has blown.</li> <li>Power failure.</li> <li>Error codes displayed</li> <li>Voltage is too low.</li> </ul>	<ul style="list-style-type: none"> <li>After turning unit off, wait at least 3 minutes before trying to restart.</li> <li>Reset the circuit breaker or replace the fuse with the specified replacement fuse.</li> <li>Restart operation when the power is restored.</li> <li>Call your service representative.</li> <li>Call your service representative.</li> </ul>
<b>Cooling is Not Working Properly</b>	<ul style="list-style-type: none"> <li>The filter is blocked with dust.</li> <li>Temperature is not set properly.</li> <li>A window or door is open.</li> <li>The outdoor unit is obstructed.</li> <li>The fan speed is too low.</li> <li>The operation mode is in Fan instead of Cool.</li> </ul>	<ul style="list-style-type: none"> <li>Clean the air filter.</li> <li>Check the temperature and reset if necessary.</li> <li>Close the window or door.</li> <li>Remove the obstruction.</li> <li>Change the fan speed selection.</li> <li>Change the operating mode to Cool or reset the unit.</li> </ul>
<b>Heating is Not Working Properly</b>	<ul style="list-style-type: none"> <li>The filter is blocked with dust.</li> <li>Temperature is set too low.</li> <li>A window or door is open.</li> <li>The outdoor unit is obstructed.</li> </ul>	<ul style="list-style-type: none"> <li>Clean the air filter.</li> <li>Check the temperature and reset if necessary.</li> <li>Close the window or door.</li> <li>Remove the obstruction.</li> </ul>
<b>Unit Stops During Operation</b>	<ul style="list-style-type: none"> <li>The Off timer is not operating correctly.</li> <li>Error codes displayed</li> </ul>	<ul style="list-style-type: none"> <li>Restart the operating mode.</li> <li>Call your service representative.</li> </ul>

