

Owner's Manual

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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.

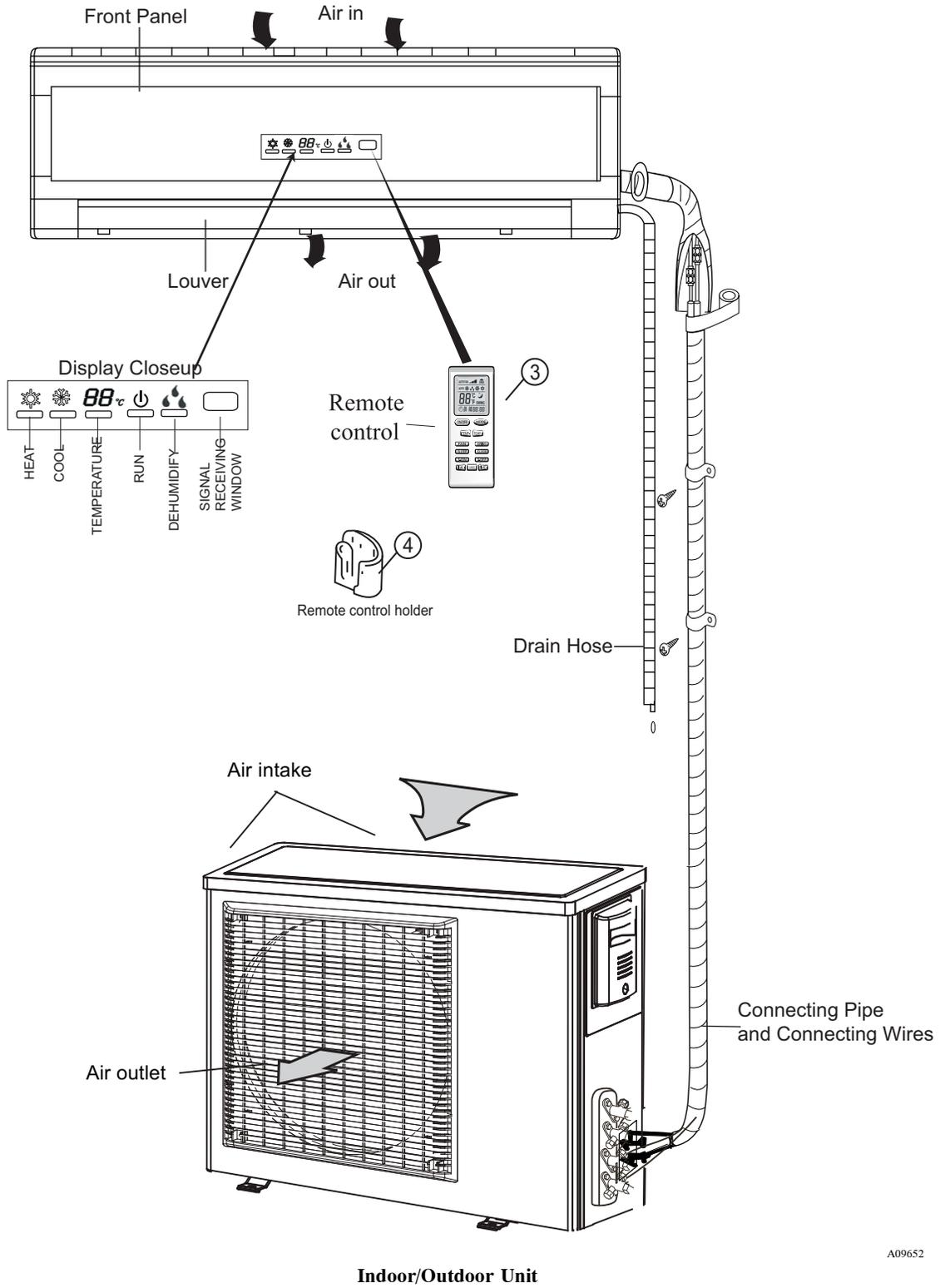
Dehumidification (DRY)

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

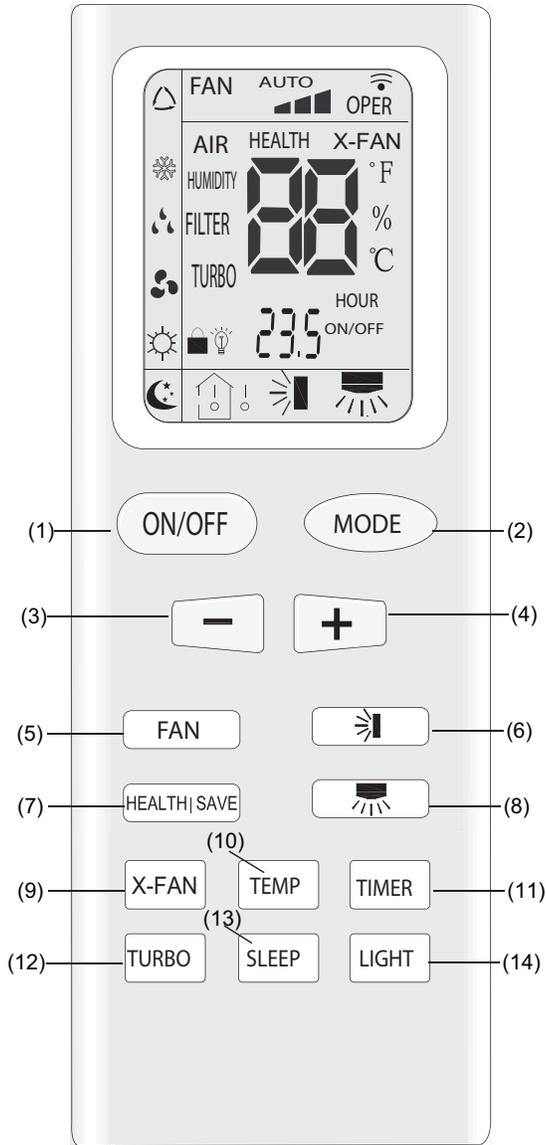
The remote control transmits commands to set up and operate the system. The control has a window display panel that shows the current system status. The control can be secured to a surface when used with the mounting bracket provided.

INDOOR UNIT PART IDENTIFICATION



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REMOTE CONTROL PART IDENTIFICATION



- (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 (Not Available)**
- (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

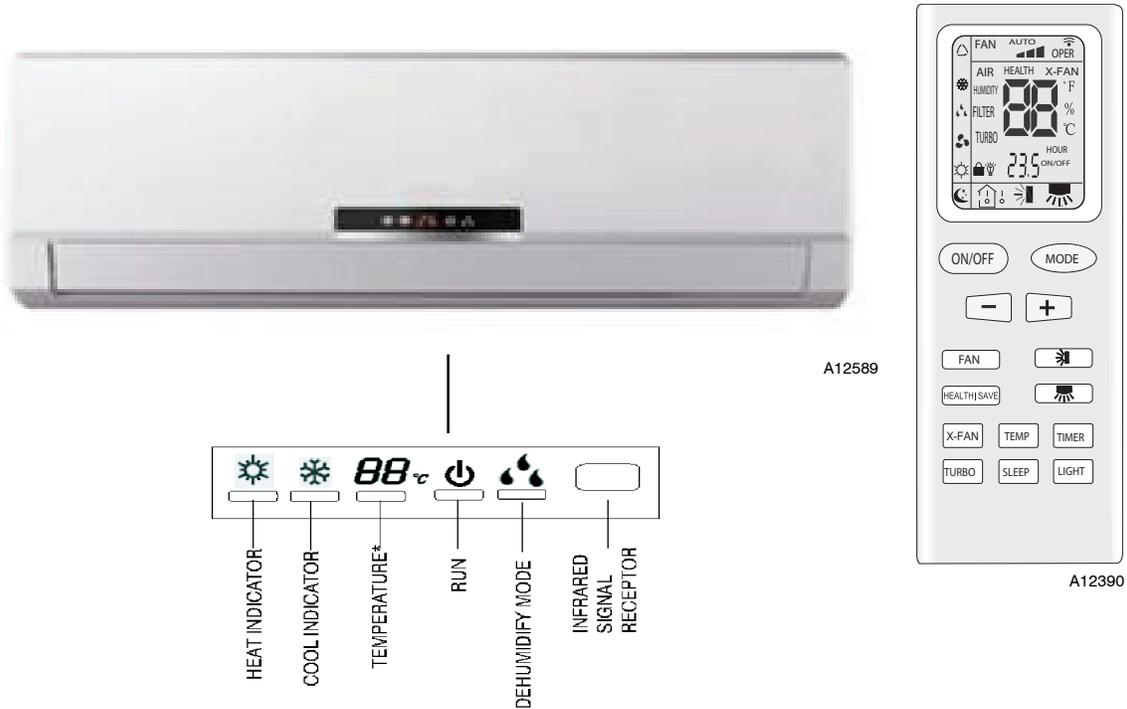
Remote Control

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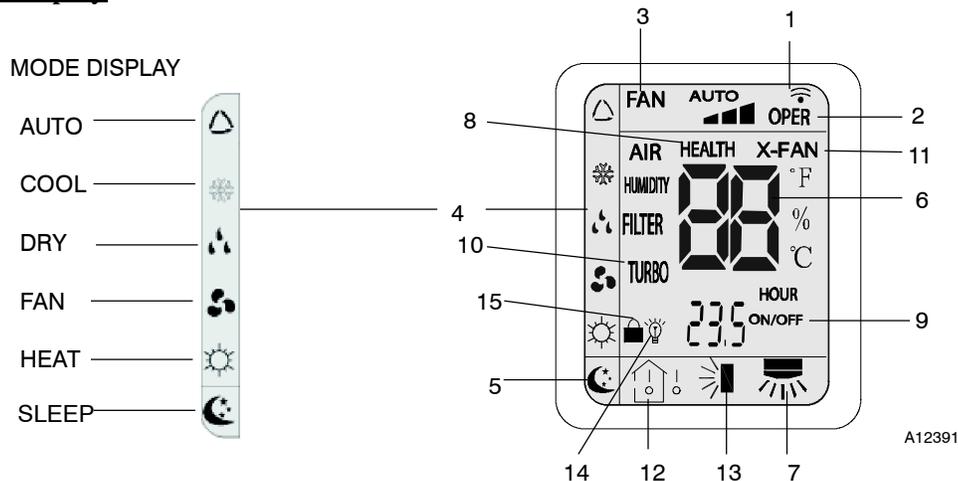
DISPLAY PANELS

Unit Display

NOTE: The display panel on the indoor unit can be turned on or off using the remote control. Press the Light button to turn the display on and off. Some of the functions will appear on the display panel, on the remote control, or both.



Remote Control Display



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:** Not available on these models.
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

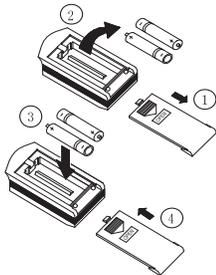
Refer to the *Remote Control Function* section for detailed description of all the capabilities of the remote control.

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.



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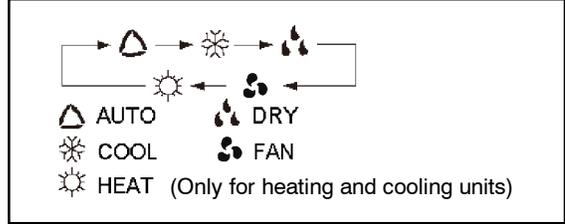
NOTE:

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.



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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.

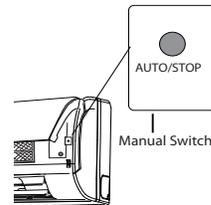
5. Set the airflow direction. When the unit is turned on, the louvers default to the cooling or heating position. The user can adjust the default louver position by pushing the “SWING” buttons. For details on operating the SWING louvers, refer to the Remote Control Functions section.

Emergency Operation

If the remote control is lost, damaged, or the batteries are exhausted, the **AUTO** button on the unit can be used to temporarily operate the unit.

Open the front cover panel and press the **AUTO** button once briefly when the system is off.

To stop emergency operation, push the **AUTO** button once. The emergency operation can also be stopped by pushing the “ON/OFF” button on the remote control.



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The following occurs when the **AUTO** button is pushed:

- No temperature will be displayed on display panel.
- Unit will run in **FAN ONLY** mode if return air temperature is between 68°F (20°C) and 77°F (25°C).
- Unit will run in **HEATING** if return air temperature is less than 68°F (20°C).
- Unit will run in **COOLING** if return air temperature is greater than 77°F (25°C).
- Fan speed will be set to **AUTO**
- **SWING** will be on.

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:

When the air conditioner is not in operation, the remote control will display the last set point and time.

- Press the On/Off button to start the unit.
 - The unit will start in the last operating mode and set point. The “OPER” indicator will appear. The “RUN” indicator on the display panel turns green.
- Press button On/Off to stop the unit.
 - The “RUN” indicator light on the display panel will turn red and the remote control will display the setpoint and time. “OPER” will disappear.

NOTE: If the On/Off button is pressed too soon after a stop, the compressor will not start for 3 minutes due to the inherent protection against frequent compressor cycling. When turning the unit ON and OFF, the Timer and Sleep functions will be canceled.

SELECTING THE OPERATING MODE:

MODE BUTTON:

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:



*Only models with heating function.

AUTO MODE

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.

COOL & HEAT MODES

Press the “+” and “-” button to select the temperature. The unit will confirm signal receipt with a beep and the value of the set temperature is displayed on the remote and on the front panel display.

The temperature can be set between 61°F (16°C) and 86°F (30°C).

DRY MODE

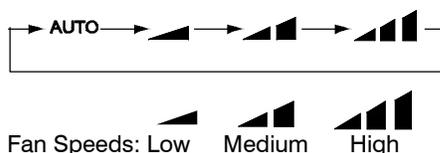
This is a de-humidification mode of operation. The system will dry filter and slightly cool the room air temperature. This mode does not take the place of a dehumidifier.

In DRY mode, the indoor fan will operate continuously in Low speed. The fan speed is not adjustable.

FAN MODE

This mode filters and circulates room air at the selected fan speed. See figure below for selecting fan speed.

The fan speed is selected by pressing the FAN button. This button is used to set the fan speed in the following sequence



NOTE: When the unit is on, the fan will run continuously in cooling or heating. When in heating, there might be situations where the fan will slow down or shut off to prevent cold blow.

Using Dry Coil Function (X-Fan):

When operating in humid areas, hi-wall units have a DRY COIL function that will allow the indoor fan to run for a pre-determined amount of time (10 minutes) after the unit is turned off (**cooling or dry modes**) to ensure that additional moisture is removed from coil. Push the “X-FAN” button to enable this feature. This will be displayed on remote control.



Remote Dry Coil Display

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To deactivate this feature, push the “X-FAN” button again.

Selecting the Horizontal Direction Louver Position

When the unit is turned on, the louvers default to the cooling or heating position.

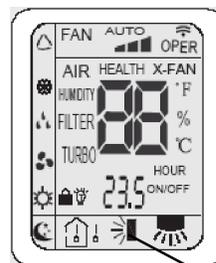
If the louver position is not providing adequate comfort due to room layout or where people are gathered, two options are available to correct the situation:



The louver can be set to swing the full swing or be set to a stationary position. The stationary position can be one of (5) default positions or a position selected by the user.

The default setting allows the user to select the swing or a stationary position.

To change the louver position, press the  ‘SWING’ button once. The icon will be displayed on the remote.



Swing Icon

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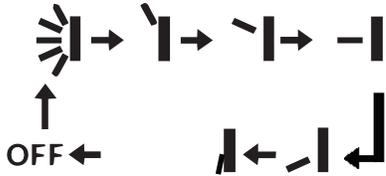
The louver will swing continuously.

If the  “SWING” button is pushed again, the louver will stop in its present position.

If the user prefers to select swing with (5) preset stationary positions, follow the instructions below:

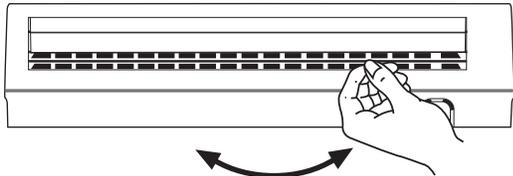
- Turn OFF the remote control.
- Simultaneously press the  “SWING” and “+” button.
- Wait 2 seconds.
- Turn remote control on.

Pushed once, the louver will swing continuously. If the button is pushed again, the louver will move to position 1. If position 2 through 5 is desired, push the button repeatedly until the desired position (2 through 5) is displayed on the remote control.



Selecting Vertical Direction of the Louver

The vertical louvers can be adjusted manually to direct the airflow to achieve the optimal comfort in the space.



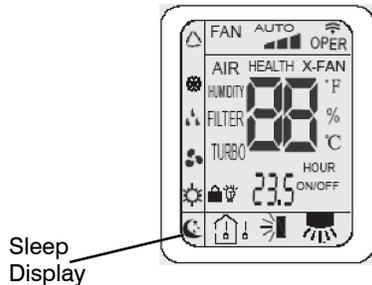
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Sleep Mode

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

Cool Mode:

- Push the SLEEP button. The SLEEP display will appear on the remote control.



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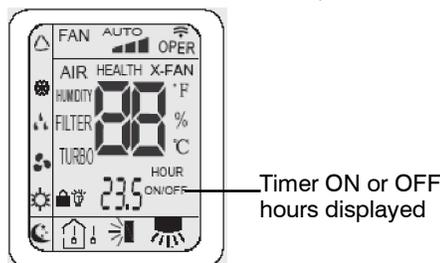
- After 1 hour the set point will be raised by 1.8°F (1°C).
- After another hour, the set point will be raised by another 1.8°F (1°C) and the fan will run in low speed.
- The SLEEP mode will be cancelled when the SLEEP button is pushed again.

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.

Timer Function

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.



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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.

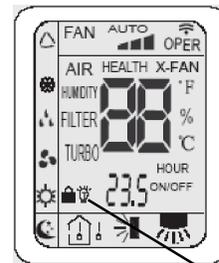
NOTE:

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.

Light Function

This function will allow the user to Turn ON or OFF the display 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 ☼ as shown below.



Light Icon

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Time Delay

If the On/Off button is pressed too soon after a stop, the compressor will not start for 3 minutes due to the inherent protection against frequent compressor cycling. The unit will only emit an audible beep when the signals are received correctly.

Heating Features

If the unit is in the heating mode, there will be a delay when the fan starts. The fan will start only after the coil is warmed up to prevent cold blow.

Defrost Operation

In heating mode, if the outdoor coil is frosted, the indoor fan and outdoor fan will turn off while system removes the frost on the outdoor coil. “H1” will be displayed on the display panel on the front cover of the unit.

The system will automatically revert to normal operation when frost is removed from the outdoor unit, and “H1” will disappear.

Auto Start

If the power fails while the unit is operating, the unit stores the operating condition, and it will start operation automatically under those conditions when the power is restored.

CLEANING, MAINTENANCE AND TROUBLESHOOTING

WARNING

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