40GRQ High Wall Ductless System Sizes 09 to 18



Owner's Manual

SAFETY PRECAUTIONS	
GENERAL	2
INDOOR UNIT PART NAMES	
DISPLAY PANELS	
REMOTE CONTROL PART NAMES	
REMOTE CONTROL	
REMOTE CONTROL FUNCTIONS	
COMBINATION BUTTONS	
CLEANING, MAINTENANCE AND TROUBLESHOOTING	

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	DEALERSHIP CONTACT INFORMATION
Model #	Company Name:
Serial #	Address:
INSTALLATION INFORMATION Date Installed	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 \triangle 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

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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.

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
- Heating
- Cooling
- Dehumidification (DRY)

Fan Only

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

<u>Auto</u>

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

<u>Heating</u>

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

<u>Cooling</u>

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



Fig. 1 – Indoor/Outdoor Unit

DISPLAY PANELS

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

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

REMOTE CONTROL PART NAMES



Remote Control Display



1.g. c 1.cmoor control 2 mpray



REMOTE CONTROL

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 remote controller 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

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

Fig. 4 – Battery Compartment Cover

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. 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 MATCHING

The system require the wireless remote controller to be matched to the indoor High wall unit before beginning any operations, otherwise the indoor High wall unit will not accept commands from the remote controller. Follow the instructions below to automatically match the remote controller to the indoor high wall unit:

- 1. Turn on electrical power to the indoor and outdoor units. The indoor high wall unit powers up in the Off (or Standby) mode.
- 2. Hold the remote controller 5 to 6 feet from the indoor high wall unit.
- 3. Point the remote controller at the indoor wall unit and press the Blank button for 3 seconds.
- 4. The indoor high wall unit provides 3 beeps to signal a successful match.
- 5. Press the Power ON button on the remote controller. The green indicator light displays on the indoor high wall unit.
- 6. The remote controller is matched and ready for use. If the indoor unit and remote controller fail to match, check the remote controller batteries, move closer and repeat the matching process again.

NOTE: This is a one-time requirement only. The remote controller and indoor high wall unit need to be successfully matched only once.

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 confirms 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.





- 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.



Fig. 6 – Emergency Operation

Combination of "MODE" and "-" Buttons:

Switch between Fahrenheit and Centigrade. At unit OFF, press the "MODE" and "-" buttons simultaneously to switch between $^\circ\mathrm{C}$ 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 appears for a short period of time on the remote control when the command is entered. The unit only emits 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:



Fig. 7 – Modes

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 automatically selects the suitable operation mode to provide comfort based on parameters set from the factory.

<u>—:</u>

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.

<u>+:</u>

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. COOL:

To cool to the selected set point and remove moisture.

System varies compressor speed to maintain desired temperature. HEAT:

To heat to selected room set point. System varies compressor speed to maintain desired room temperature.

FAN:

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









Press the Vertical Swing Louver button to select five different vertical (up and down) air discharge directions including Continuous Sweep. The Swing Louver icon appears. Press this button to set swing angle, which changes directions as shown below.

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Indicates louver swings back and forth in the five directions, as shown.

Fig. 9 – Swing buttons



Press the Horizontal Swing Louver button to select five different horizontal (left and right) air discharge directions including Continuous Sweep. The Horizontal Swing Louver icon appears. Press this button to set swing angle, which changes in direction as shown in the following figure.



Fig. 10 – Horizontal Swing Louver Angles

FOLLOW ME:

Press this button to use the FOLLOW ME function, and the icon appears. The unit senses room temperature at the remote controller instead of at the indoor unit. It then adjusts airflow and temperature accordingly for the ultimate in personal comfort control and energy savings.

Press the button again to exit this function. For best performance, keep remote controller away from heat or cold temperature sources while using this function.

TEMP:

Each time this button is pressed, the display on the indoor unit is switched in a sequence that goes from No display > Set Temperature > Indoor Ambient Temperature, as shown below.



Fig. 11 - Temp Modes

When selecting \square with remote controller or no display, the temperature indicator on indoor unit displays the set temperature.

When selecting $\begin{bmatrix} 1 \\ 0 \end{bmatrix}$ with the remote controller, the temperature indicator on indoor unit displays indoor ambient temperature; 3s later or within 3s it receives another remote controller signal that will return to display the setting temperature.

NOTE: This model does not have an outdoor ambient temperature function. While the remote controller can operate

 $\begin{bmatrix} 1 \\ 0 \end{bmatrix}$ and the indoor unit displays the set temperature. The unit defaults to the set temperature display when turning on the unit.

X-FAN:

Press the X-FAN button in COOL or DRY mode to activate the DRY function and the X-FAN icon appears. When this function is activated, the indoor fan continues to run for 2 minutes to dry the indoor coil after the unit is turned off. X-FAN is not available in AUTO, FAN and HEAT mode.

T-ON button (Timer ON)

To set when you want the unit to turn On at the end of a selected time period, use the button labeled "T-ON" on the remote controller. Press this button to make the clock icon disappear, replaced with the word "ON" (blinking). Press "+" or"-" buttons to adjust timer setting 1 minute at a time. Press and hold "+" or "-" button to set timer more quickly. Press"T-ON" button again to confirm setting, and the word "ON" stops blinking. To cancel, press"T-ON" button again.

T-OFF button (Timer OFF)

NOTE: Under Timer On and Off status, you can set T-ON and T-OFF simultaneously. Before setting timer, be sure to set clock to correct time.

CLOCK SETTING

Press this button to set clock time. The Clock icon on remote controller blinks. Within 5 seconds, press "+" or "-" button to set clock time. With each press of the "+" or "-" buttons, the clock time increases or decreases by 1 minute. To quickly adjust the time setting, press and hold "+" or "-" button for 2 seconds.

Release the button when you have reached the desired time setting. Press the "CLOCK" button to confirm the time, and clock icon stops blinking.

NOTE: Clock time adopts 24-hour mode. A 12-hour format is not available.

SLEEP MODE:

The unit automatically adjusts room temperature during your sleep time. This slight change in temperature will not affect your comfort level due to the natural effects that sleeping has on the body, however it saves on energy consumption and lowers your electric bill.

The unit has four Sleep Modes to select from. Press the SLEEP button to select Sleep 1, Sleep 2, Sleep 3, Sleep 4 modes or Cancel. The SLEEP icon appears.

TRADITIONAL MODE - SLEEP 1

In Traditional Mode the unit slowly relaxes the room set temperature by up to 4° F until Sleep Mode is cancelled.



Fig. 12 - Cooling and Heating Modes

EXPERT MODE - SLEEP 2

In Expert Mode the unit adjusts the room set temperature at a rate based on the starting set temperature value. Sleep Mode continues until cancelled.



Fig. 13 - Cooling and Heating Modes

DIY MODE SLEEP 3

You are required to enter eight (8) room set point values for eight (8) hours of run time. The last room set point value is maintained until the sleep mode is cancelled.

In Sleep Mode 3, press the "Prog" button to enter the setup mode. The remote controller displays "1:00" in the time location. Use the "+" and "-" buttons to select the desired room set point for the first hour of run time. Then press the "Prog" button to save the set point.

Repeat this sequence for the eight (8) room set point values. After all eight (8) values have been entered, the remote controller automatically reverts to standard time and temperature display, and the Sleep 3 Mode starts.

At any time, you may press the "ON/OFF," "Mode," "Timer," "Sleep" or "Turbo" buttons to cancel the Sleep 3 Mode.

NOTE: During this procedure, if no button is pressed within 10 seconds, the remote controller automatically exits the sleep curve setting and resumes the original display. If the ON/OFF, MODE, TIMER, SLEEP, COOLING or HEATING button is pressed during the setting or inquiry procedure, the remote controller exits the sleep curve setting.

SIESTA MODE 4:

In Siesta Mode the unit automatically changes the room temperature every 30 minutes based on the room temperature setting. The Sleep Mode continues until cancelled.



Fig. 14 - Siesta Mode

NOTE: Sleep function can not be set in AUTO mode. LIGHT:

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

Press the light icon $\overleftarrow{\phi}'$ to turn the indoor unit front panel ON or OFF. The remote control displays the Light Icon $\overleftarrow{\phi}'$.

WIFI Button:

Press and hold this button for three seconds to turn WIFI function on or off. See the "Operation of Smart Control" section for more information.

Only the set point temperature appears on the front panel and on the remote controller.

COMBINATION BUTTONS

Combination of "+" and "-" Buttons:

Press "+" and "-" buttons simultaneously for 8 seconds to lock or unlock the keypad. If the remote control is locked, $\widehat{-}$ is displayed.

In this case, pressing any button, blinks three times to acknowledge the keypad is locked. Repeat the process to unlock the remote controller.

46°F Heating Functions:

Under the heating mode, press the "TEMP" and "CLOCK" buttons simultaneously to start the 46°F heating function. When this function starts, the "\$" and 46°F icons appear on the remote controller, and the air conditioner maintains the heating status. Press the "TEMP" and "CLOCK" buttons simultaneously again to exit the 46°F heating function.

NOTE: Under the 46°F heating function, the fan speed defaults to the auto speed and it can not be adjusted. Under the 46°F heating function, the set temperature can not be adjusted. Press the TURBO button and the remote controller will not send the signal. The Sleep function and the 46°F heating function can not operate at the same time. If the 46°F heating function has been set under the Cooling mode, press the Sleep button to cancel the 46°F heating function. If the Sleep function was set under the Cooling mode, the 46°F heating function cancels the Sleep function.

CLEANING, MAINTENANCE AND TROUBLESHOOTING

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.

CUT HAZARD

Failure to follow this caution may result in personal injury.

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

Cleaning the Coil

Always wear safety protection.

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.

EQUIPMENT DAMAGE HAZARD

Failure to follow this caution may result in equipment damage.

When cleaning the front panel, do not use water hotter than $105^{\circ}F$ (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 helps 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 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.

INDOOR UNIT	EVERY 3 MONTHS	EVERY 6 MONTHS	EVERY YEAR
Clean Air Filter*	•		•
Change Remote Control Batteries		•	
OUTDOOR UNIT	EVERY 3 MONTHS	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 Pans†			•

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	Air filter dirty	Clean the air filter
start-up	Output air still has odor after cleaning filter.	Contact your service representative.
You hear water flowing noise when the unit is running	• This is normal and is the refrigerant flowing through the system.	No maintenance required
Indoor unit produces a mist when the air conditioner is running	 This is normal cooling and is caused by high humidity and temperature in the room. 	No maintenance required. Mist should stop as room is cooled down and the humidity is removed.
Wireless remote control does not work	Batteries are dead.	See battery replacement section in this manual and replace batteries.
	Unit needs to be reset.	Turn off power to indoor unit. Remove plug from wall and then reinsert plug. Restart unit.
Water leaks into room from Indoor unit	Condensing water has overflowed	Check indoor condensing drain or call your representative.
Unit/System Does Not Work	 To protect the unit upon an immediate restart after a stop, the system controller delays 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. 	 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	 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. 	 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	 The filter is blocked with dust. Temperature is set too low. A window or door is open. The outdoor unit is obstructed. 	 Clean the air filter. Check the temperature and reset if necessary. Close the window or door. Remove the obstruction.
Unit Stops During Operation	 The Off timer is not operating correctly. Error codes displayed	Restart the operating mode.Call your service representative.

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