

# OWNER'S MANUAL

## DLFCAB / DLFCHB / DLFDAB / DLFDHB

### High-Wall Ductless System

#### Sizes 09 – 36

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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.

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.

### **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.

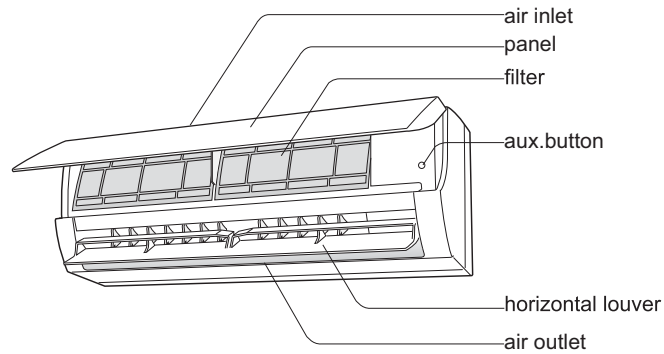
### **Dehumidification (DRY)**

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



**Fig. 1 – Indoor Unit**

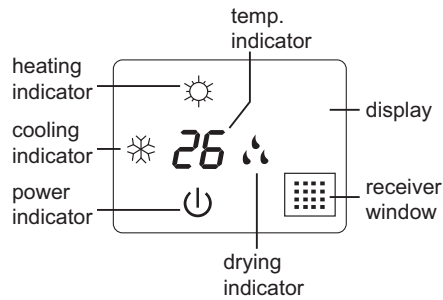


**Fig. 2 – Remote Controller**

## 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.



**Fig. 3 – Display Panels**

# REMOTE CONTROL PART NAMES



Fig. 4 – Remote Control

## Remote Control Display

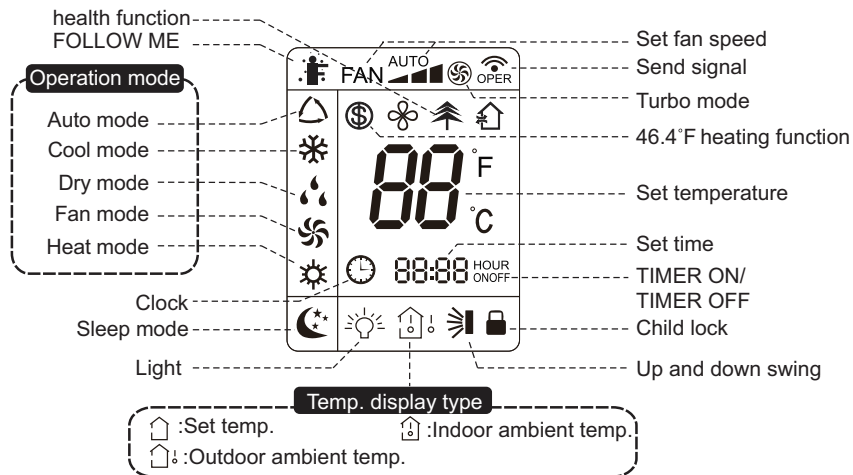


Fig. 5 – Remote Control Display

**NOTE:** The FOLLOW ME button, formerly called I FEEL has the same functionality. Starting on production of week 12 year 2016 (serial number V161215001).

## 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 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:

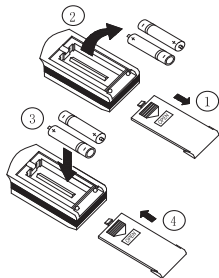
- Turn the system ON and OFF
- Select operating mode
- Adjust room air temperature set point and fan speed
- Adjust airflow direction

### 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.



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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 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.



Fig. 6 – Modes

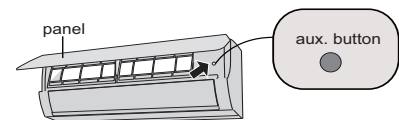
3. Select the temperature set point by pointing the control toward the unit and pressing the “▲” or “▼” temperature set point buttons until the desired temperature appears on screen.
4. Select the desired fan speed by pressing the **FAN** button to select desired fan speed.
5. Set the airflow direction. 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.



#### WARNING:

Use an insulated object to press the auto button.

Fig. 7 – Emergency Operation

## 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 **OPER** 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. 8 – Modes

**AUTO:**

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

**COOL:**

To cool to the selected set point and remove moisture. System varies compressor speed to maintain desired temperature.

**DRY:**

Select the DRY MODE to increase moisture removal during warm humid conditions. The unit operates at low speed. The Fan Speed cannot be adjusted. Press the "SWING" button to adjust the fan blow angle.

**FAN:**

To circulate air without heating or cooling use the Fan Speed button to select speed from low to high.

**HEAT:**

To heat to the selected room set point. The system varies compressor speed to maintain desired room temperature.

**▼:**

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.



Fig. 9 – Fan speed

**SWING:**

Press the Swing button to select 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.

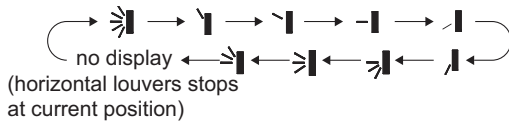


Fig. 10 – Swing buttons

**TURBO:**

The desired room set point can be achieved faster in TURBO mode. After selecting the "HEAT" or "COOL" mode button, push the "TURBO" button. The TURBO icon appears on the remote controller and the unit runs at an ultra-high speed. To deactivate the feature, push the "TURBO" button again. The unit returns to normal operation.

**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:**

By pressing this button, you can see the indoor set temperature, indoor ambient temperature or outdoor ambient temperature on the indoor unit's display. The setting on remote controller is selected circularly as shown below:

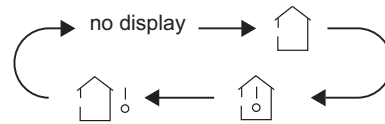


Fig. 11 – Temp

**Timer ON – Timer OFF**

To set when you want the unit to turn On at the end of a selected time period, use the button labeled "Time-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 "Timer-ON" button again to confirm setting, and the word "ON" stops blinking. To cancel, press the "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:**

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.

**LIGHT:**

This function allows 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 displays the Light Icon ☼.



### **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,  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.

#### **Combination of “MODE” and “▼” Buttons:**

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

#### **Energy-Saving Function**

Under the cooling mode, press the “TEMP” and “CLOCK” buttons simultaneously to start or stop the energy-saving function. When the energy-saving function starts “SE” displays on the remote controller, and the air conditioner adjusts the set temperature automatically according to the factory setting to reach the best energy-saving effect. Press the “TEMP” and “CLOCK” buttons simultaneously again to exit the energy-saving function.

#### **NOTE:**

- Under the Energy-Saving function, the fan speed defaults to the auto speed and can not be adjusted.
- Under the Energy-Saving function, the set temperature can not be adjusted. Press the “TURBO” button and the remote controller will not send the signal.
- The Sleep and Energy-Saving functions can not operate at the same time. If the Energy-Saving function has been set under the Cooling mode, press the Sleep button to cancel the Energy-Saving function. If the Sleep function has been set under the Cooling mode, start the Energy-Saving function to cancel the Sleep function.

#### **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

## ▲ 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 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.



**Table 1—Periodic Maintenance**

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 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 delays 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>

