

# DLFEHA

## OWNER'S MANUAL

### High Wall Ductless System – Sizes 09 to 24

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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: \_\_\_\_\_

## A NOTE ABOUT SAFETY

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 could 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, or 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.

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

## 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 filters and dehumidifies 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 (heat pump models only)
- Cooling
- Dehumidification (DRY)

#### Fan Only

In the **FAN ONLY** mode, the system filters and circulates the room air without changing room air temperature.

#### Auto

In **AUTO** mode, the system automatically cools or heats the room according to the user-selected set point.

**NOTE:** **AUTO** mode is recommended for use on Single Zone applications **only**. Using Auto changeover on multi-zone applications could set an indoor unit to **STANDBY** mode, indicated with two dashes (—) on the display, which will turn off the indoor unit until all the indoor units are in the same mode (**Cooling** or **Heating**). **Heating** is the system's priority mode. Simultaneous **Heating** and **Cooling** is not allowed.

#### Heating

In the **HEATING** mode, the system heats and filters the room air.

#### Cooling

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

#### Dehumidification (DRY)

In the **DEHUMIDIFICATION** mode, the system dries, filters and slightly cools the room air temperature. This mode prioritizes air dehumidification however it **does not** take the place of a dehumidifier.

#### **Wireless Remote Control**

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

#### **Wired Remote Control (Optional)**

## PART NAMES

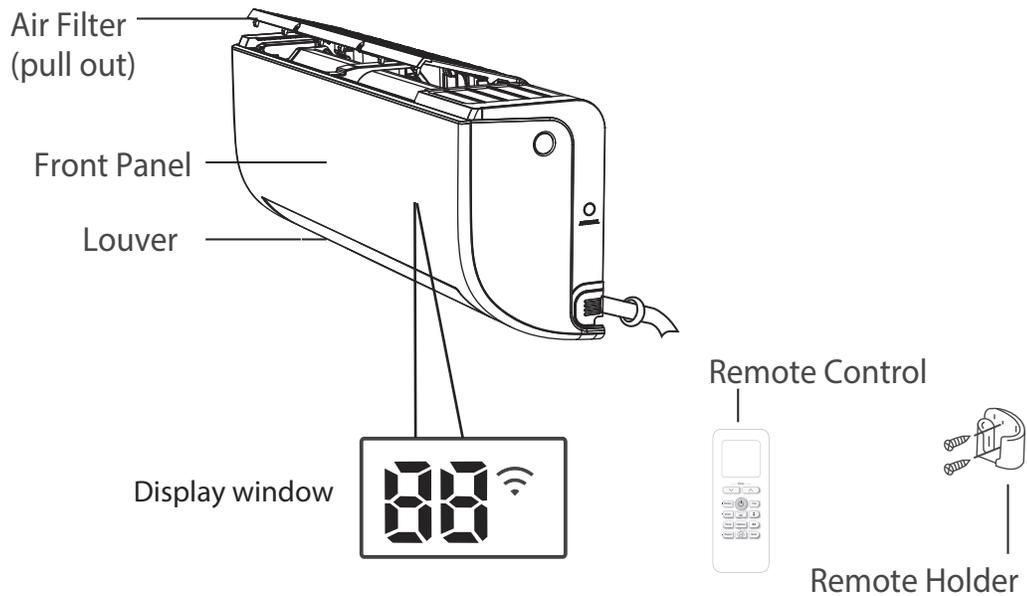


Fig. 1 – Indoor Unit

## INDOOR UNIT DISPLAY INDICATOR

" **ON** " for 3 seconds when:

- TIMER ON is set
- SWING, TURBO, or SILENCE features are turned on

" **OF** " for 3 seconds when:

- TIMER OFF is set
- SWING, TURBO, or SILENCE features are turned off

" **cF** " when anti-cold air feature is turned on (Heat Pump units)

" **dF** " when defrosting (Heat Pump units)

" **SC** " when unit is self-cleaning

" **FP** " when freeze protection is turned on

The unit displays the set point temperature.

In Fan mode, the unit displays the room temperature.

Fig. 2 – Display Panel

## REMOTE CONTROLLER



Fig. 3 – Remote Controller

# FUNCTION BUTTONS

Before you begin using your new air conditioner, make sure to familiarize yourself with the remote control. The following is a brief introduction to the remote control.

❶ **ON/OFF Button** (  )

This button turns the air conditioner ON and OFF.

❷ **Temp Up Button** (  )

Press this button to increase the set temperature or Timer setting hours.

Temp Down Button (  )

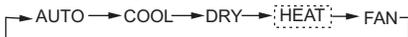
Push this button to decrease the set temperature or Timer setting hours.

NOTE:

- When the air conditioner operates under heating mode with the set temperature of 62°F(17°C), pressing  button continuously for two times will activate 46°F(8°C) heating. The indoor unit display shows "FP".
- Press and hold UP and DOWN buttons together for 3 seconds to alternate the temperature display between the °C & °F scale.

❸ **Mode Button**

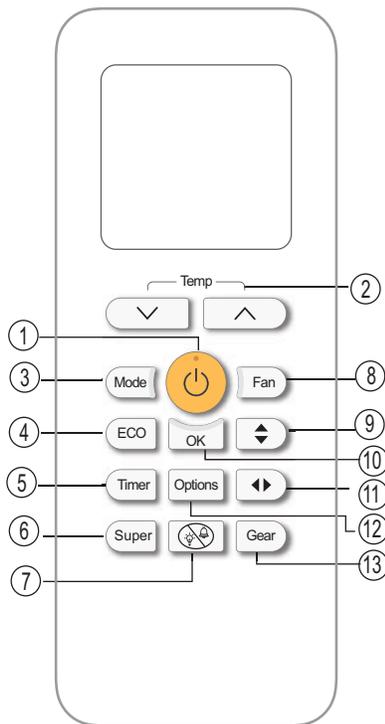
Press this button to modify the air conditioner mode in a sequence:



NOTE: Please do not select HEAT mode if the unit you purchased is the COOLING ONLY type. Heat mode is not supported by the COOLING ONLY unit.

❹ **ECO Button**

Use to enter the energy efficient mode. Under COOLING mode, press this button, the remote controller will adjust the temperature automatically to 75°F(24°C), AUTO fan speed to save energy (however only if the set temperature is less than 75°F(24°C)). If the set temperature is between 75°F(24°C) and 86°F(30°C), press the ECO button, the fan speed will change to AUTO, the set temperature will remain unchanged.



RG70E/BGEFU1

NOTE:

- Pressing the ECO button, or modifying the mode or adjusting the set temperature to less than 75°F(24°C) stops the ECO operation.
- Under ECO operation, the set temperature should be 75°F(24°C) or more. It may result in insufficient cooling. If you feel uncomfortable, press the ECO button again to stop it.

❺ **Timer Button**

Press this button to initiate the auto-on/ auto-off time sequence.

❻ **Super Button**

- Press this button under the cooling operation, the set temperature will change to 62°F(17°C), the fan speed shifts to high and starts a faster cooling operation.
- Press this button under the heating operation, the set temperature will change to 86°F(30°C), the fan speed shifts to high and starts a faster heating operation.

NOTE:

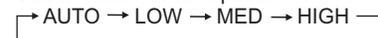
- This function is not available under AUTO, DRY, FAN, Self Clean or Comfort mode.
- Press MODE, FAN, or ECO button to cancel the Super function.

❼ **Do Not Disturb Button** (  )

Press this button to turn off the indoor screen display, and also turn off the air conditioner buzzer, the fan speed shifts to low, which creates a comfortable and quiet environment. Press it again to cancel this function. Under the Do Not Disturb mode, the display illuminates for 10 seconds while adjusting the mode, set temperature or fan speed, etc.

❽ **Fan Button**

Use to select the fan speed:



NOTE:

- You can not switch the fan speed in AUTO or DRY mode.
- Hold down this button for at least 2 seconds to activate/cancel Silent mode. Due to the low frequency operation of compressor, it may result in insufficient cooling and heating capacity.
- Press Fan, MODE, ON/OFF, ECO or Gear button to cancel the Silent function.

Fig. 4 – Remote Controller

## FUNCTION BUTTONS (CONT)

### 9 Swing Button

Use to stop or start horizontal louver movement or set the desired up/down air flow direction. The louver changes 6 degrees in angle for each press. If you keep pushing more than 2 seconds, the louver swings up and down automatically.

### 10 OK Button

Use to confirm the optional functions.

### 11 Swing Button

Not Functional on this model.

### 12 Options Button

Press this button to select the air conditioner function in a sequence

→ Fresh → Follow me → Comfort → Self clean

Press the Options button to select the desired function, the selected symbol will flash on the display area, then press the OK button to confirm.

### \* FOLLOW ME function

When the Follow Me function is activated, the remote displays the actual temperature at its location. The remote control will send this signal to the air conditioner in a three minute interval until the user presses the FOLLOW ME button again.

### \* Comfort function

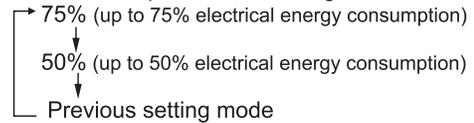
When the Comfort function is activated, the air conditioner will be set at 73°F automatically. It is not available under fan mode.

### \* SELF CLEAN function

Under SELF CLEAN mode, the air conditioner will automatically clean and dry the Evaporator and keep it fresh for the next operation. It is not available under heating or fan mode.

### 13 Gear Button

- Press this button to enter the energy efficient mode in a sequence of following:

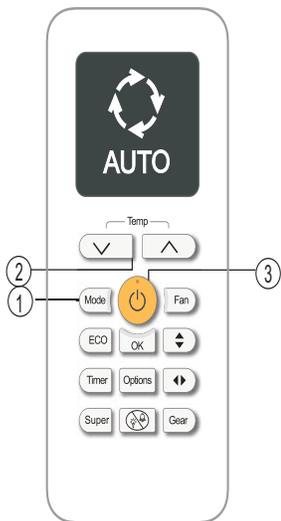


- Turn off the unit or activate ECO, FP Super, Silent or Self clean function will cancel the electrical energy consumption control function.
- This function is only available under COOL mode.

### NOTE:

- Button design is based on typical model and might be slightly different from the actual one you purchased, the actual shape shall prevail. All the functions described are accomplished by the unit. If the unit does not have a feature nothing will occur when that particular button is pressed.

# OPERATIONS

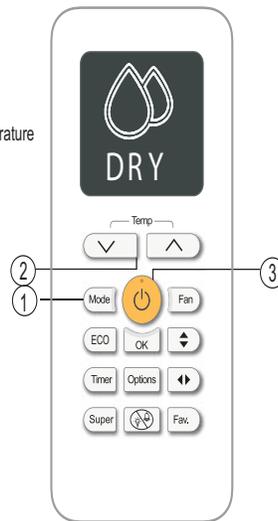


## AUTO Operation SETTING TEMPERATURE

The operating temperature range for units is 62°F - 86°F (17°C - 30°C). You can increase or decrease the set temperature in 1°F increments.

In AUTO mode, the unit will automatically select the COOL, FAN, HEAT or DRY mode based on the set temperature.

1. Press the MODE button to select the AUTO mode.
2. Set your desired temperature using the TEMP ∨ or TEMP ∧ button.
3. Press the ON/OFF button to start the unit.



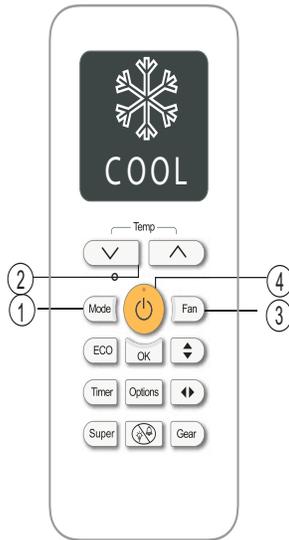
## DRY Operation (Dehumidifying)

1. Press the MODE button to select the DRY mode.
2. Set your desired temperature using the TEMP ∨ or TEMP ∧ button.
3. Press the ON/OFF button to start the unit.

NOTE!: FAN speed can not be changed in the DRY mode.

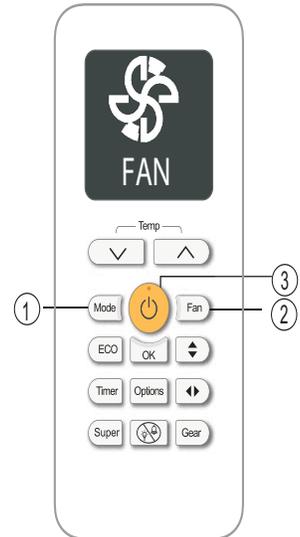
## COOL Operation

1. Press the MODE button to select the COOL mode.
2. Set your desired temperature using the TEMP ∨ or TEMP ∧ button.
3. Press the FAN button to select the fan speed: AUTO, LOW, MED, or HIGH.
4. Press the ON/OFF button to start the unit.



## FAN Operation

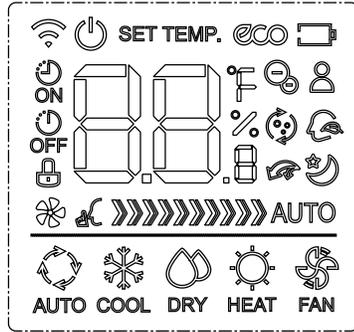
1. Press the MODE button to select the FAN mode.
2. Press the FAN button to select the FAN speed: AUTO, LOW, MED or HIGH.
3. Press the ON/OFF button to start the unit.



**Fig. 5 – Operations**

# Remote LCD Screen Indicators

Information appears when the remote controller is powered up.



## Mode Display

- |      |      |     |      |     |
|------|------|-----|------|-----|
|      |      |     |      |     |
| AUTO | COOL | DRY | HEAT | FAN |
- 
- Displayed when data is transmitted
  - Displayed when remote controller is ON.
  - Displayed in ECO mode operation
  - Battery display (low battery detection)
- 
- Displayed when TIMER ON time is set.
  - Displayed when TIMER OFF time is set.
  - Not available for this unit.
  - Displayed when Silent feature is activated
  - Show set temperature or room temperature, or time under TIMER setting.
  - Indicates that the air conditioner is operating in Follow me mode
  - FRESH is not available on this unit
  - Displayed when the SELF CLEAN feature is selected
  - Displayed when the COMFORT feature is selected
  - Displayed when the SLEEP mode is selected
  - Displayed when the SUPER mode is selected

## FAN Speed Indication

- |  |      |                |
|--|------|----------------|
|  |      | Low speed      |
|  |      | Medium speed   |
|  |      | High speed     |
|  | AUTO | Auto fan speed |

### Note:

Images shown are for illustration purposes only. During unit the operation, only the relative functions appear in the display window.

**Fig. 6 – Unit Display**



## 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.

**IMPORTANT:** The remote control can operate the unit from a distance of up to 26 ft. (8 m) as long as there are no obstructions.

When the timer function is used, the remote control should be kept in the vicinity of the fan coil (within 26 ft. / 8 m).

The remote control can perform the following basic functions:

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

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

### Battery Installation

Two AAA 1.5v 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. Insert batteries. Follow the polarity markings inside the battery compartment.
3. Replace the battery compartment cover.

#### **NOTE:**

1. When replacing batteries, do not use old batteries or a different type of 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.
5. When the batteries are removed, the remote control erases all programmed settings. The control must be reprogrammed after insertion of the new batteries.

## 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 right side of the unit. The unit confirms receipt of a command by sounding an audible beep.

1. Turn the unit on by pushing **ON/OFF**.
2. If there is a preference for °C rather than °F (default), press and hold the increase ▲ and decrease ▼ temperature set point together for approximately 3 seconds.
3. Select the desired mode by pressing **MODE**.



**Fig. 7 – Modes**

4. Select the temperature set point by pointing the control toward the unit and pressing the increase/decrease temperature set point buttons until the desired temperature appears on screen.
5. Press **FAN** to select the desired fan speed.

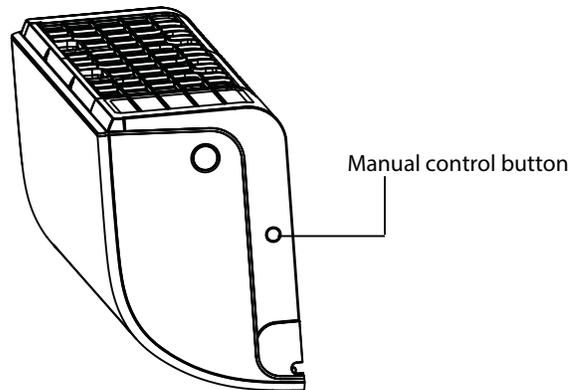
**NOTE:** If the unit is operating in the **DRY** or **AUTO** mode, the fan speed will be automatically set.

6. Set the airflow direction. When the unit is turned on, the louvers default to the cooling or heating position. The user can adjust the horizontal louver position by pushing ▲ and ▼ or have continuous louver movement by pressing it again.

### Manual Operation

If the remote control is lost, damaged, or the batteries are exhausted, **MANUAL** can be used to run the unit.

When **MANUAL** is pressed once, the **AUTO** mode takes affect (heat or cool). When this button is pressed twice, the system enters the **TEST** mode and runs for 30 minutes in the **COOLING** mode (it will run in the **AUTO** mode afterward). When pressed three times, the system turns off.



**Fig. 8 – Manual Button**

The set conditions of manual operation are as follows:

- Preset set point: 76°F (24°C)
- Fan speed: **AUTO**
- Discharge air direction: Pre-set position based on operation in the “**COOL**” or “**HEAT**” mode.

**IMPORTANT:** **MANUAL** is intended for testing purposes and emergency operation only. Do not use this function unless the remote controller is lost. To restore regular operation, use the remote controller to activate the unit.

# REMOTE CONTROL FUNCTIONS

## Pressing the On/Off Button

When the air conditioner is not in operation, the remote control displays the last set point and mode.

- Press **ON/OFF** to start the unit.
  - The unit starts in the last operating mode and set point. The **ON/OFF** indicator appears.
- Press **ON/OFF** to stop the unit.
  - All the indicator lights on the unit go out, and the remote control displays the set point and mode.

**NOTE:** If **ON/OFF** is pressed too soon after a stop, the compressor will not start for 3 to 4 minutes due to the inherent protection against frequent compressor cycling. The unit only emits an audible beep when the signals are received correctly.

## Selecting an Operating Mode

Use the **OPERATING** mode button to select one of the available modes.

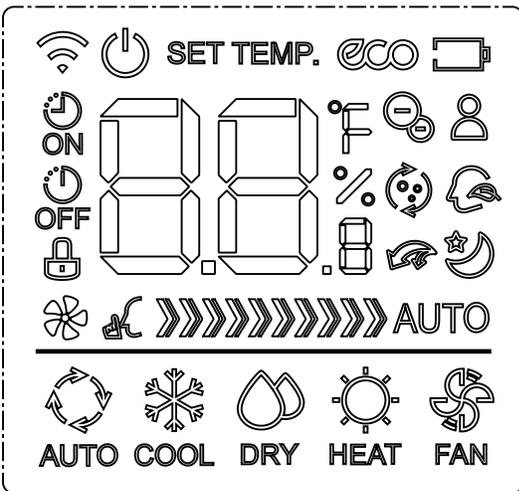


Fig. 9 – Display

## Setting the Room Temperature Set Point

Press the increase temperature set point ▲ and decrease ▼ to raise or lower the temperature.

The unit confirms the signal receipt with a beep and the value of the set temperature appears on the display and changes accordingly. The temperature can be set between 62°F (17°C) and 86°F (30°C) in increments of 1°F or 1°C.

**NOTE:** In the **COOLING** mode, if the temperature selected is higher than the room temperature, the unit will not start. The same applies for the **HEATING** mode if the selected temperature is lower than the room temperature.

## Selecting the Fan Speed

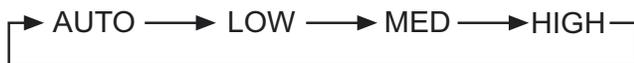


Fig. 10 – Fan Speeds

The fan speed can be selected by pressing **FAN**.

**NOTE:** When the unit is on, the fan runs 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.

## Selecting the up-down airflow Louver Position

To optimize comfort, the up-down airflow louver operates in a preset range as shown in the following figure.

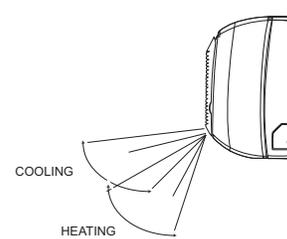


Fig. 11 – Louver Position

The up-down airflow louver can be adjusted by pressing **DIRECT** on the remote control and can be set to move continuously or remain stationary by pressing ▲ and ▼. The UP/DOWN louver position is stored in the settings, however it is deactivated when the **TURBO** or **MANUAL** settings are set, or when a power interruption takes place.

## Air Direction

Press ▲ and ▼ repeatedly to choose one of the Up-Down airflow louver positions. Every time ▲ and ▼ is pushed, the specific louver swings by 6 degrees.

In the **COOLING**, **DEHUMIDIFICATION**, and **FAN ONLY** modes, the louver swings in the cooling range. In the **HEATING** mode, the louver swings in the heating range.

**NOTE:** Always use the remote control to adjust the up-down airflow louver position, otherwise abnormal operation may occur. If the up-down airflow louver is manually adjusted out of its range, power the unit off and then back on again.

## Auto Swing

For automatic Up-Down airflow louver swing, push ▲ and ▼.

## Selecting Right-Left airflow Direction of the Louver

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

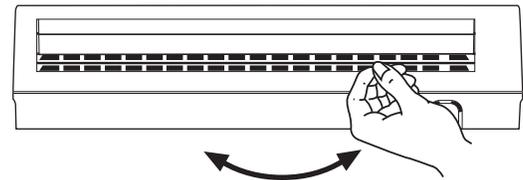


Fig. 12 – Right-Left Airflow Louver

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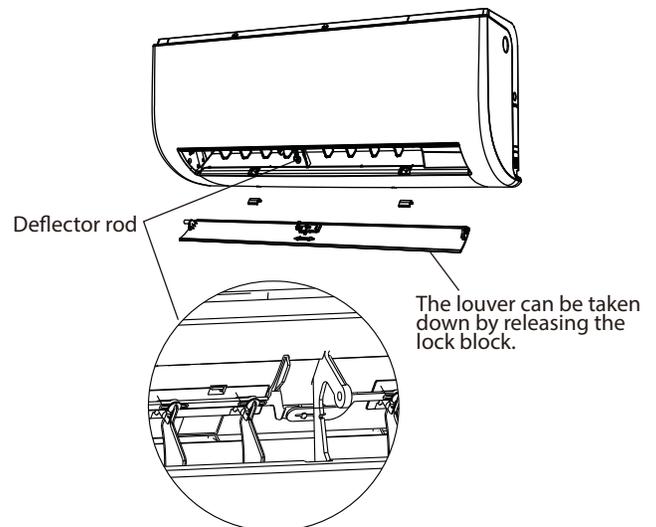


Fig. 13 – Louver Angles

## **Timer Function**

**TIMER ON** (to start the unit) and **TIMER OFF** (to stop the unit) can be used separately or together.

### **Timer ON only**

This function allows the unit to start automatically at the set time. The **TIMER ON** can be set while the unit is on or off.

#### **UNIT ON**

- a. Press **TIMER ON** to initiate the auto-on time sequence. The set time is displayed in the remote control display. Every time **TIMER ON** is pressed, the time increases by 30 minutes, up to 10 h. It increases by 60 minutes, afterwards, until the time setting reaches 24 h.
- b. When the **TIMER ON** is set, the **TIMER** light on unit illuminates. The unit continues to run at the set time.

#### **UNIT OFF**

- a. Set the timer described in the **UNIT ON** section.
- b. The unit starts at the set time.

Adjust the **TIMER ON** settings to **0.0** to cancel this option.

### **Timer OFF only**

This function allows the unit to stop automatically at the set time. The timer can be set while the unit is on or while it is off.

#### **UNIT ON**

- a. Press **TIMER OFF** to initiate the auto-off time sequence. The set time appears on the remote control display. Every time **TIMER OFF** is pressed, the time increases by 30 minutes, up to 10 h. It increases by 60 minutes, afterwards, until the time settings reach 24 h.
- b. When the **TIMER OFF** is set, the timer light on the unit illuminates and the unit turns off automatically at the set time.

#### **UNIT OFF**

- a. Set the **TIMER** off as described in the **UNIT ON** section. The **TIMER** display on the unit illuminates and the unit remains off.
- b. Adjust the **TIMER ON** settings to 0.0 to cancel this option.

## **Timer ON and Timer OFF**

Use both functions to program the unit to turn on and shut off at specified times.

#### **UNIT OFF**

- a. Set **TIMER ON** as previously described.
- b. Set **TIMER OFF** as previously described. The unit starts automatically at the set **TIME ON** and turns off at the set **TIME OFF**.

#### **UNIT ON**

- a. Set **TIME OFF** as previously described.
- b. Set **TIME ON** as previously described. The unit turns off automatically at the set **TIME OFF** and turns on at the set **TIME ON**.

## **ECO Mode**

Used to enter the energy efficient mode. Under cooling mode, press **ECO**, the remote controller will adjust the temperature automatically to 75°F (24°C), fan speed of **AUTO** to save energy (however only if the set temperature is less than 75°F(24°C)).

If the set temperature is between 75°F(24°C) and 86°F(30°C), press **ECO**, the fan speed will change to **AUTO**, the set temperature will remain unchanged.

#### **Cool Mode**

- a. Push **SLEEP**. After 1 hour the set point raises by 1.8°F (1°C). After another hour, the set point raises by another 1.8°F (1°C) and the fan runs in a low speed. The unit shuts off 5 hours after setting the **SLEEP** mode. The **SLEEP** mode cancels if either the “**Mode**”, “**TEMP**”, “**Fan**”, “**Timer**”, or “**On/Off**” buttons on the remote control is pressed.

#### **Heat Mode**

Same as **COOLING** mode however set points are lowered by 1.8°F (1°C).

## **Super Mode**

Use the **SUPER** mode to cool or heat the room rapidly. Press this button under the **COOLING** operation, the set temperature will change to 62°F(17°C), the fan speed shift to high and bring faster cooling operation. Press this button under heating operation, the set temperature will change to 86°F(30°C), the fan speed shift to high and bring faster heating operation.

**NOTE:** This function is not available under **AUTO**, **DRY**, **FAN**, **Self Clean** or **Comfort** mode. Press **MODE**, **FAN**, **SLEEP** or **ECO** button will cancel Super function.

### **Self Clean Mode**

Press **SELF CLEAN** to activate or deactivate the self-cleaning function. Under this function, the air conditioner automatically cleans and dries the evaporator. The cleaning cycle takes 16 minutes, after which the unit turns off automatically. Press **CLEAN** on the middle of the cycle to cancel the operation and turn off the unit. This function can be activated only in the **COOL** or **DRY** mode.

### **Follow Me Mode**

**OPTIONS** to activate or deactivate this function. Under this setting, the temperature that appears in the remote control is the actual temperature at its location. The remote control sends this signal to the air conditioner every 3 minutes. This function is not available for **DRY** and **FAN** modes.

### **Freeze Protection Mode**

With the set temperature of 62°F(17°C), press ▼ continuously two times to activate or deactivate the **FREEZE PROTECTION** mode (heating set back). The indoor unit displays “FP”.

**NOTE: This function is only available in the heating mode.**

Under this function, the unit operates at a high fan speed and the coil temperature automatically sets to 46°F (8°C). This mode can also be deactivated by pressing the “On/Off”, “Mode”, “Fan”, or either “TEMP” buttons.

### **Silence Mode**

Press **FAN** for at least 2 seconds to activate or deactivate the **SILENCE** mode. Under this function, the compressor operates at a low frequency and the indoor unit produces a faint breeze, which reduces the noise to the lowest level. Due to the low frequency operation of the compressor, it may result in insufficient cooling and heating capacity.

### **LED Light**

Press **Do Not Disturb** to turn the display light on and off.

### **Resetting the Remote Control**

If the batteries in the remote control are removed, the current settings will be cancelled and the control returns to the initial settings and will be in standby mode. Push **ON/OFF** to activate it.

### **Time Delay**

If **ON/OFF** is pressed too soon after a stop, the compressor will not start for 3 to 4 minutes due to the inherent protection against frequent compressor cycling. The unit only emits an audible beep when the signals are received correctly.

### **Heating Features**

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

### **Auto Defrost Operation**

In heating mode, if the outdoor coil is frosted, the indoor fan and outdoor fan turns off while the system removes the frost on the outdoor coil. The system automatically reverts to normal operation when frost is removed from the outdoor unit.

### **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

## ⚠ 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. The air filter is under the top air inlet grill.
2. Grip the tab on the end of the filter, lift it up, then pull it towards yourself.
3. If your filter has a small air freshening filter, un-clip it from the larger filter. Clean the air freshening filter with a hand-held vacuum.
4. Clean the large air filter with warm, soapy water. Be sure to use a mild detergent.
5. Rinse the filter with fresh water, then shake off any excess water.
6. Dry it in a cool, dry place, and refrain from exposing it to direct sunlight.
7. When dry, re-clip the air freshening filter to the larger filter, then slide it back into the indoor unit.

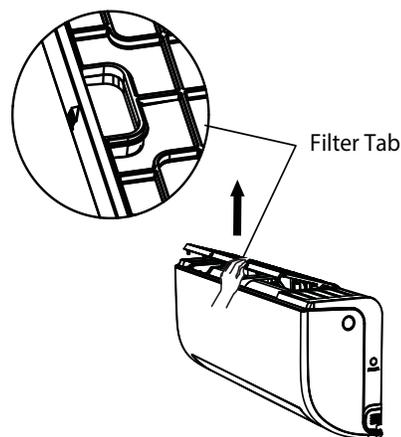


Fig. 14 – Filter Tab

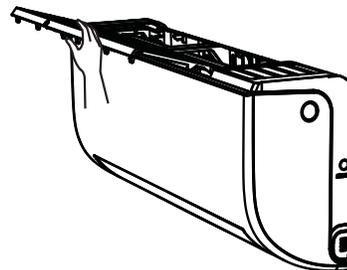


Fig. 15 – Filter Tab



Fig. 16 – Rinse the Filter

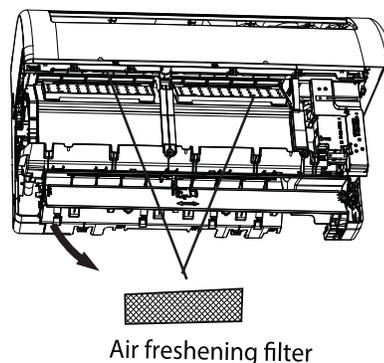


Fig. 17 – Air Freshening Filter

# ⚠ 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 (40.6°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.

### 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 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 the unit is on.
- Keep the display panel on the 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 ductless system:

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

## TROUBLESHOOTING

Refer to Tables 2 through 3 before contacting your local dealer.

**Table 1—Periodic Maintenance**

INDOOR UNIT	EVERY MONTH	EVERY 6 MONTHS	EVERY YEAR
Clean Air Filter*	•		•
Replace Carbon 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

## TROUBLESHOOTING (CONT)

The issues listed in Table 2 are not malfunctions and in most situations will not require repairs.

**Table 2—Common Issues**

Issue	Possible Causes
Unit does not turn on when pressing ON/OFF	The unit has a 3-minute protection feature that prevents the unit from overloading. The unit cannot restart within three minutes of being turned off.
The unit changes from COOL/HEAT mode to FAN mode	The unit may change its setting to prevent frost from forming on the unit. Once the temperature increases, the unit starts operating in the previously selected mode again.
	The set temperature has been reached, at which point the unit turns off the compressor. The unit continues operating when the temperature fluctuates again.
The indoor unit emits white mist	In humid regions, a large temperature difference between the room's air and the conditioned air can cause white mist.
Both the indoor and outdoor units emit white mist	When the unit restarts in HEAT mode after defrosting, white mist may be emitted due to moisture generated from the defrosting process.
The indoor unit makes noises	A rushing air sound may occur when the louver resets its position.
	A squeaking sound may occur after running the unit in HEAT mode due to expansion and contraction of the unit's plastic parts.
Both the indoor unit and outdoor unit make noises	Low hissing sound during operation: This is normal and is caused by refrigerant gas flowing through both indoor and outdoor units.
	Low hissing sound when the system starts, has just stopped running, or is defrosting: This noise is normal and is caused by the refrigerant gas stopping or changing direction.
	Squeaking sound: Normal expansion and contraction of plastic and metal parts caused by temperature changes during operation can cause squeaking noises.
The outdoor unit makes noises	The unit makes different sounds based on its current operating mode.
Dust is emitted from either the indoor or outdoor unit	The unit may accumulate dust during extended periods of non-use, which will be emitted when the unit is turned on. This can be mitigated by covering the unit during long periods of inactivity.
The unit emits a bad odor	The unit may absorb odors from the environment (such as furniture, cooking, cigarettes, etc.) which will be emitted during operations.
	The unit's filters have become moldy and should be cleaned.
The outdoor unit's fan does not operate	During operation, the fan speed is controlled to optimize product operation.
Operation is erratic, unpredictable, or unit is unresponsive	Interference from cell phone towers and remote boosters may cause the unit to malfunction. In this case, try the following: <ul style="list-style-type: none"> <li>• Disconnect the power, then reconnect.</li> <li>• Press ON/OFF button on remote control to restart operation.</li> </ul>

**NOTE: If an issue persists, contact a local dealer or your nearest customer service center. Provide them with a detailed description of the unit malfunction as well as your model number.**

**Table 3—Troubleshooting**

PROBLEM	POSSIBLE CAUSE	SOLUTION
<b>Unit/System Does Not Work</b>	<ul style="list-style-type: none"> <li>• The circuit breaker has tripped or a fuse has blown.</li> <li>• Power failure.</li> <li>• Diagnostic lights illuminate.*</li> <li>• Voltage is too low.</li> </ul>	<ul style="list-style-type: none"> <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>• Ensure all doors and windows are closed while operating the unit.</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>• Ensure all doors and windows are closed while operating the unit.</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>• Diagnostic lights illuminate.*</li> </ul>	<ul style="list-style-type: none"> <li>• Restart the operating mode.</li> <li>• Call your service representative.</li> </ul>

\* Diagnostic lights are a combination of lights that will illuminate in the display area on the unit. They are a combination of the lights you see during normal operation.