



User & Installer Manual

Model RT2

Wireless Whole House Fan Control

Rev Nov 2018

The RT2 is a wireless whole house fan (WHF) control that can be placed on a bedroom table or used anywhere in the home to control the Whole House Fan using temperature for improved comfort and energy efficiency or a built-in 1 to 12-hour timer. The fan speed can be set from the remote. The RT2 has a wireless range of 125 feet in a home or building.



Pat. Pending
Made in USA

QUICK START FOR HOMEOWNERS

! Before operating your Whole House Fan (WHF), always OPEN windows. See the WHF Owners manual for more information. Your A/C should be off during WHF operation.

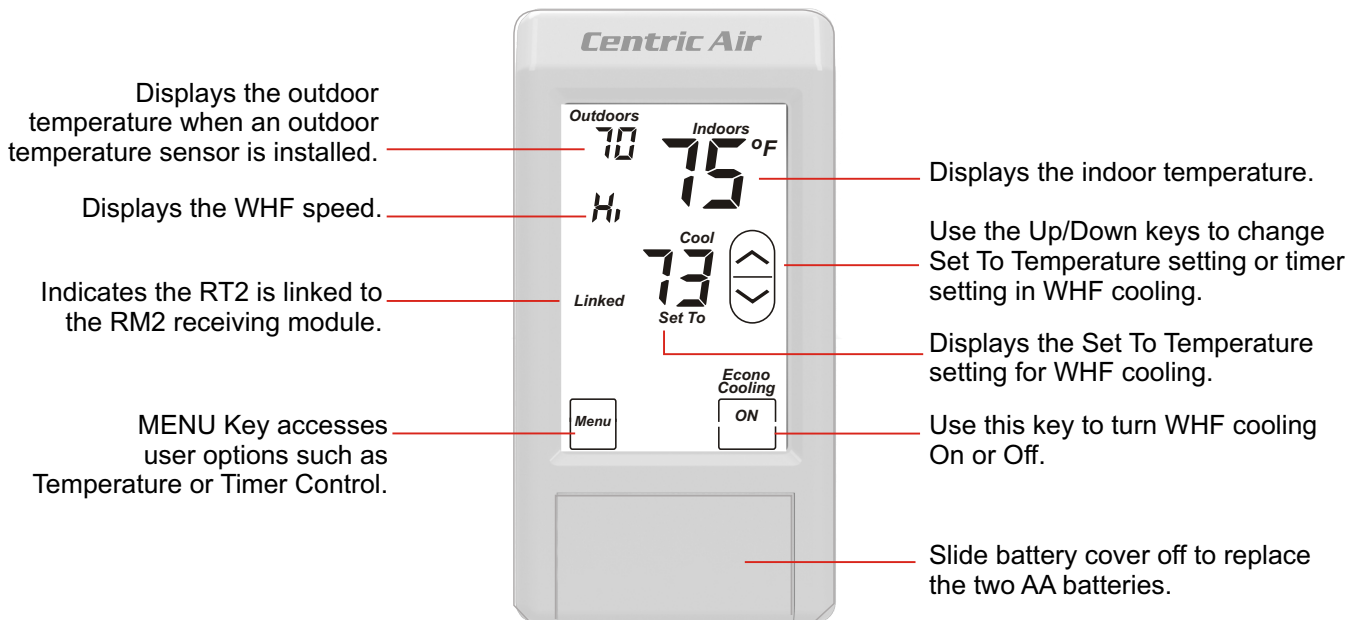
In the morning and/or before operating your A/C, make sure the RT2 control is set to Econo Cooling OFF. If operating your A/C, make sure windows are closed.

Operating your WHF using Temperature Control (See pages 2 and 3 for more information).

The RT2 wireless WHF control is factory set to control your WHF using Temperature, just like your thermostat, and improves your comfort and energy savings. Simply touch the Econo Cooling key to display ON, then set the Set To temperature to your desired Indoor temperature. The WHF will turn ON if the Indoor temperature is 1° above the Set To temperature and turn OFF when the Indoor temperature drops 1° below the Set To temperature. The following morning or when WHF operation is no longer desired, touch the Econo Cooling key to display OFF. As a precaution, the RT2 control includes a built-in Safety Timer that will turn the WHF OFF after 8 hours of operation.

Operating your WHF using Timer Control (See pages 2 and 4 for selecting Timer Operation)

In Timer Control, touch the Econo Cooling key to display ON. The WHF will now operate for the length of time displayed on the RT2. The factory default is 3 hours but can be adjusted (see page 4).



HOMEOWNER - MENU OPTIONS

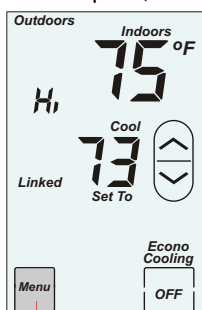
! Before operating your Whole House Fan (WHF), always **OPEN** windows. See the WHF Owners manual for more information. Your A/C should be off during WHF operation.

In the morning and/or before operating your A/C, make sure the RT2 control is set to **Econo Cooling OFF**. If operating your A/C, make sure windows are closed.

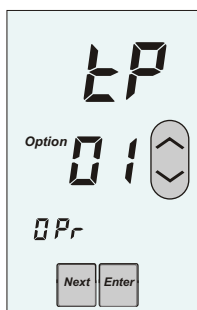
Option	Description	Display	Selections	Default
01	Select Temperature or Timer Control	OPr	Temperature (tP) or Timer (tr)	Temperature
02	Turn Safety Timer On or Off <i>Only displayed if Temperature Control is selected in Option 01.</i>	Str	On or Off	On
03	Set Safety Timer Hours <i>Only displayed if Option 02 is On</i>	StH	4 to 12 hours	8 hours
04	Clean the Touch Screen	CL	Off or On	Off

01 Select Temperature or Timer Control

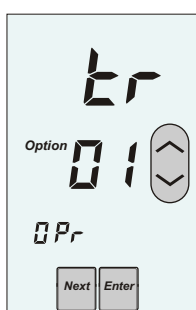
The WHF can be controlled by temperature or by a built-in timer. In Temperature Control, the RT2 control turns the fan on when the room temperature rises above your Set To Temperature or turns the fan off when the room temperature drops below your Set To Temperature, just like your air conditioner. In Timer Control, the user sets a number of hours to run the fan using the built-in 1 to 12 hour timer. When the time elapses, the fan turns off.



Press the **MENU** key to display Option 01.



Use the **DOWN** key to select **tp** for **Temperature Control (tP)**.



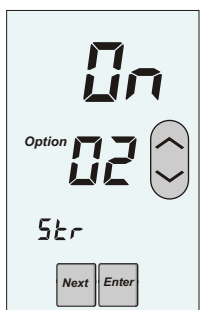
Or, use the **UP** key to select **tr** for **Timer Control (tr)**.

Press the **ENTER** key to save your selection and return to normal operation or press **NEXT** to display the next option.

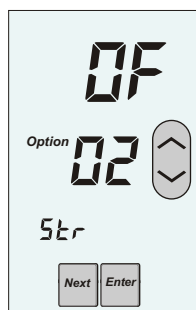
02 Turn Safety Timer On or Off

! Only displayed if Temperature Control is selected in Option 01. Safety Timer is defaulted to ON.

The Safety Timer automatically turns off the WHF after 8 hours of operation to avoid inadvertently leaving the WHF On. The number of hours can be set in Option 03. Press the **MENU** key then press **NEXT** until Option 02 is displayed.



Use the **UP** key to turn the Safety Timer **On**.



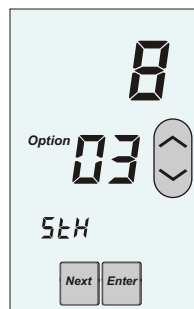
Or, use the **DOWN** key to turn the Safety Timer **OFF**.

Press the **ENTER** key to save your selection and return to normal operation or press **NEXT** to display the next option.

03 Set Safety Timer Hours

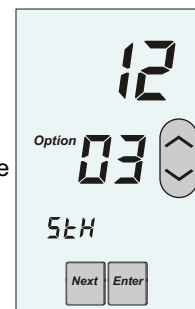
! Only displayed if Safety Timer is set to On in Option 02. The default number of hours for the Safety Timer is 8 hours but can be adjusted from 4 to 12 hours.

Press the **MENU** key then press **NEXT** until Option 03 is displayed.



Use the **UP** key to increase the number of hours.

Or, use the **DOWN** key to decrease the number of hours.

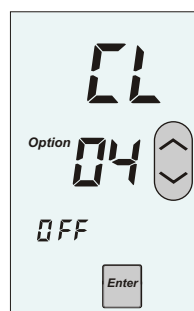


Press the **ENTER** key to save your selection and return to normal operation or press **NEXT** to display the next option.

04 Cleaning the Touch Screen

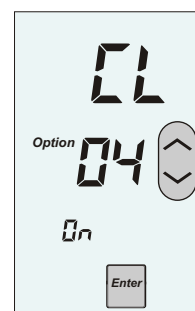
This option disables the touch screen for 30 seconds so the screen can be cleaned with a soft damp cloth.

Press the **MENU** key then press **NEXT** until Option 04 is displayed.



To exit the option and return to normal operation, press the **ENTER** key.

To disable the screen and start the count down, press the **UP** key to select **ON** then press the **ENTER** key



HOMEOWNER - TEMPERATURE CONTROL

1 Before operating your Whole House Fan (WHF), always **OPEN** windows. See the WHF Owners manual for more information. Your A/C should be off during WHF operation.

In the morning and/or before operating your A/C, make sure the RT2 control is set to **Econo Cooling OFF**. If operating your A/C, make sure windows are closed.

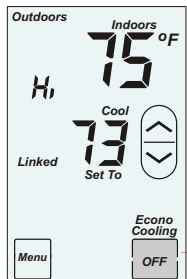
- 1) Turn Econo Cooling (WHF) ON
- 2) Set the Set To Temperature
- 3) Change Outdoor Temperature Limit
- 4) Turn Econo Cooling (WHF) OFF

When EconoCooling is On, the RT2 activates the WHF when the indoor temperature is 1 degree warmer than the Set To Temperature. The WHF is turned Off by the RT2 when the cooler outdoor air has lowered the indoor temperature 1 degree below the Set To Temperature. The WHF will cycle On and Off as needed to keep the space comfortable.

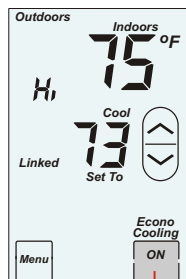
When an optional outdoor temperature sensor is installed, WHF operation will be delayed if the outdoor temperature is above the outdoor temperature limit. This improves energy efficiency and comfort by delaying WHF operation when the outdoor temperature is too warm to provide cooling.

1) Turn Econo Cooling (WHF) ON

When Econo Cooling is On, the WHF will continue to operate if the indoor temperature is warmer than the Set To Temperature.



Press the **ECONO COOLING** key to turn the WHF **On**. **On** blinks when WHF is active and is solid when the WHF is not active.

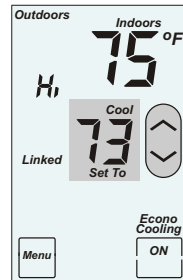


On blinks when WHF is active and is solid when WHF is not active.

1 If the Safety Timer is set to ON (see Homeowner - Menu Options, Option 02 and Option 03), the WHF will automatically turn off after the set number of hours of operation. The Safety Timer is helpful to those who may inadvertently leave the WHF on.

2) Set the Set To Temperature

Just like your air conditioning thermostat, set the Set To Temperature desired using the Up / Down keys.



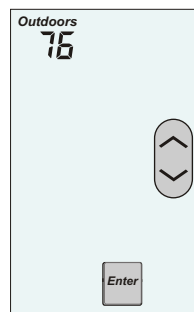
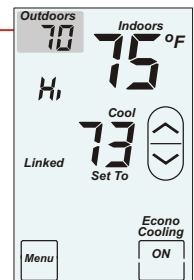
Press the **UP** or **DOWN** key to set the Set To Temperature.

When Econo Cooling is **ON**, the WHF will turn **ON** if the Indoor temperature is above the Set To Temperature, or turn **OFF** if the Indoor temperature is below the Set To Temperature.

3) Change Outdoor Temperature Limit

If an optional outdoor temperature sensor is installed, WHF operation will be delayed until the outdoor temperature is below the limit set.

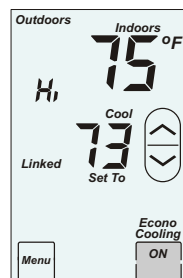
Outdoor Temperature is displayed here if an outdoor temperature sensor is installed. The temperature will blink when WHF operation is delayed. Press this area to change the Outdoor temperature Limit.



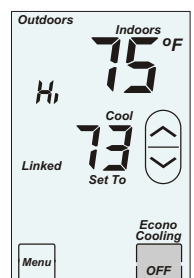
Press the **UP** or **DOWN** key to change the Outdoor Temperature Limit and then press the **ENTER** key to return to normal operation.

4) Turn Econo Cooling (WHF) OFF

In the morning or when WHF operation is no longer desired, turn the WHF OFF.



Press the **ECONO COOLING** key to turn the WHF **OFF**.



The WHF will not activate when **OFF** is displayed.

HOMEOWNER - TIMER CONTROL

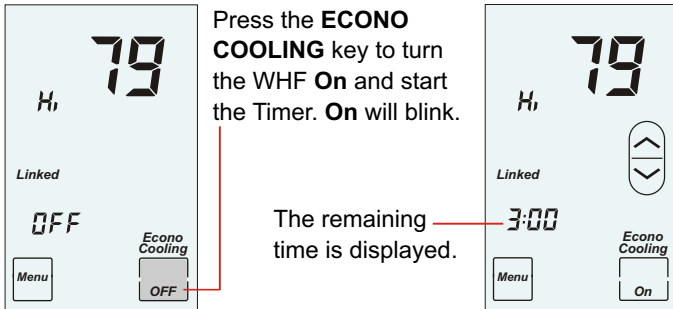
❶ Before operating your Whole House Fan (WHF), always OPEN windows. See the WHF Owners manual for more information. Your A/C should be off during WHF operation.

In the morning and/or before operating your A/C, make sure the RT2 control is set to Econo Cooling OFF. If operating your A/C, make sure windows are closed.

- 1) Start the WHF Timer
- 2) End the WHF Timer
- 3) Adjust the WHF Timer
- 4) Change the Preset WHF Timer

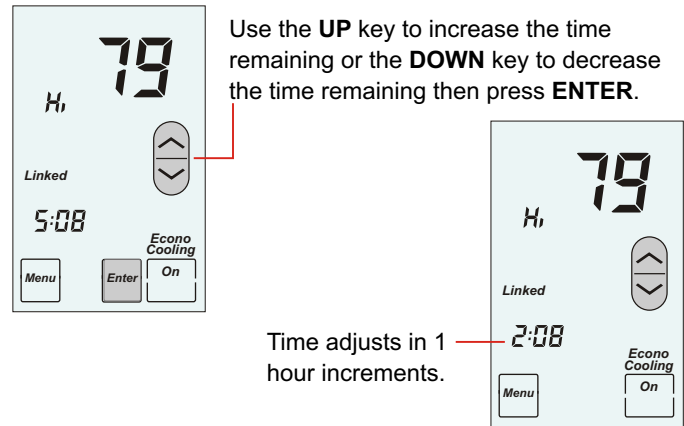
1) Start the WHF Timer

When Econo Cooling is turned On, the WHF will operate for the preset time period.



3) Adjust the WHF Timer

The Timer can be adjusted during WHF operation.

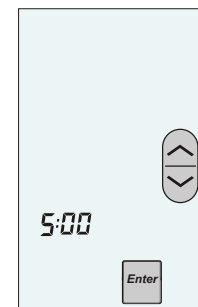
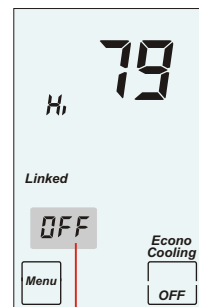
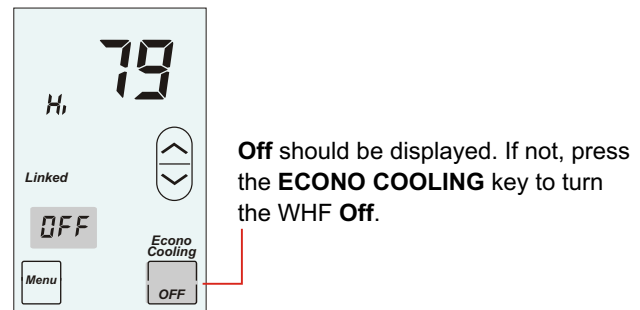
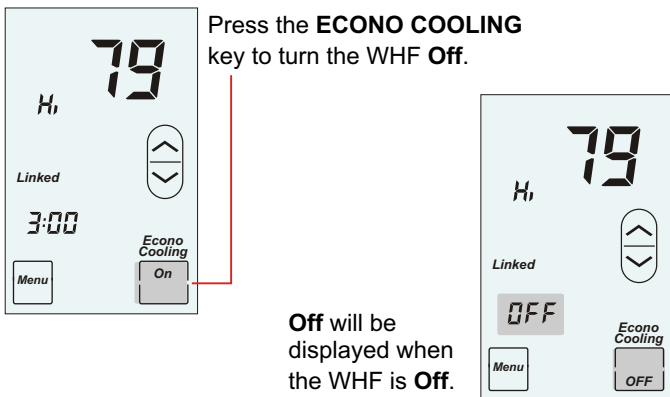


4) Change the Preset WHF Timer

The preset WHF Timer can be set from 1 to 12 hours and can only be set when Econo Cooling is Off as shown.

2) End the WHF Timer

The WHF Timer can be terminated and the WHF turned off anytime.



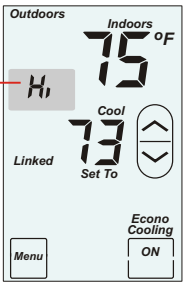
HOMEOWNER - WHF OPERATION

Change the Fan Speed

For single speed WHFs, the fan speed will be displayed as Hi and cannot be adjusted. For 2, 3 or variable speed WHFs, the speed can be adjusted by pressing the Fan Speed and using the **UP** and **DOWN** Keys.

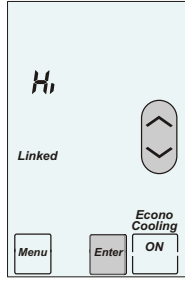
Changing 2 or 3-Speed WHFs

Press here to change the WHF speed.



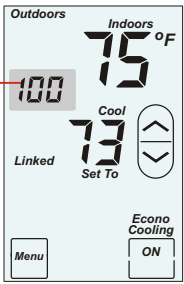
Use the **UP** and **DOWN** keys to select the fan speed then press **ENTER**.

High speed (Hi)
Medium speed (Int)
Low speed (Lo)

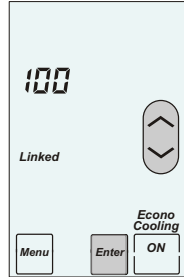


Changing Variable Speed WHFs

Press here to change the WHF speed.



Use the **UP** key to increase the WHF speed or the **DOWN** key to decrease the WHF speed. Adjusts in 5% increments. Press **ENTER**.



INSTALLATION

! Homes with plaster walls with steel lathe may experience wireless communication interference when using wireless controls.

CAUTIONS

- Turn off power before installing whole house fan or WHF controls.
- Read and follow all instructions carefully, including those included with the whole house fan.
- Read entire manual before installing products.
- Follow all local electrical codes during installation. All wiring must conform to local and national electrical codes.
- Installation should be performed by a qualified individual with sufficient experience and skill.
- Use cautions when mounting components to surfaces that may have concealed wiring beneath the surface.
- When servicing WHF Controls or accessing products, turn off all power to these items.

ATTENTION INSTALLER

- 1) Connect the WHF to the RM2 radio module using the plug&play cable provided.
- 2) Install optional Outdoor Temperature Sensor and wire to the RM2.
- 3) Set Installer Options
Select Fan Type
Select Fan Speed

An optional Damper Control can be installed. See the Damper Control Manual for wiring information.

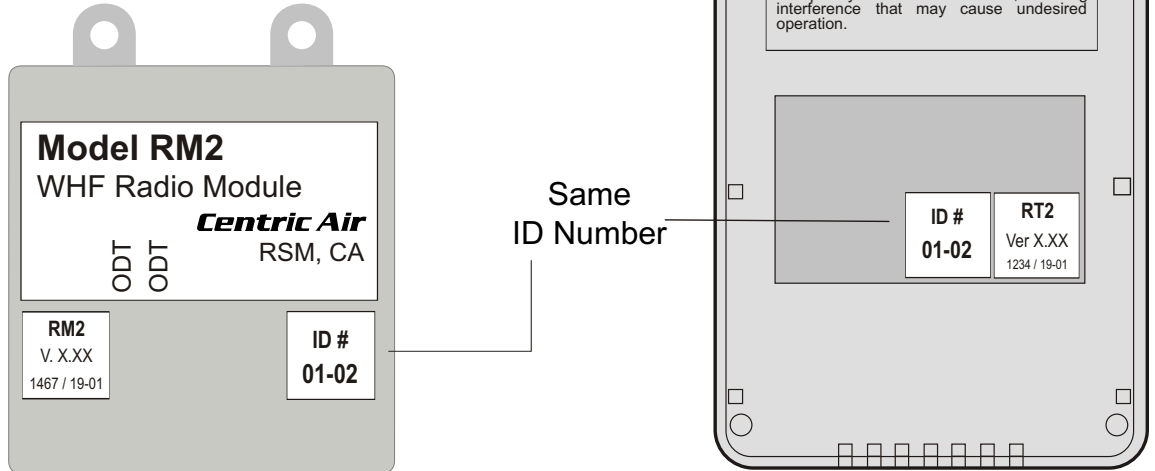
INSTALLATION

WIRELESS COMMUNICATION

- ❗ The RT2 wireless control and the RM2 radio module included in this kit have been programmed with a unique ID number and ONLY communicate with each other.

This enables multiple WHF installations in the same home or in neighboring homes without interference.

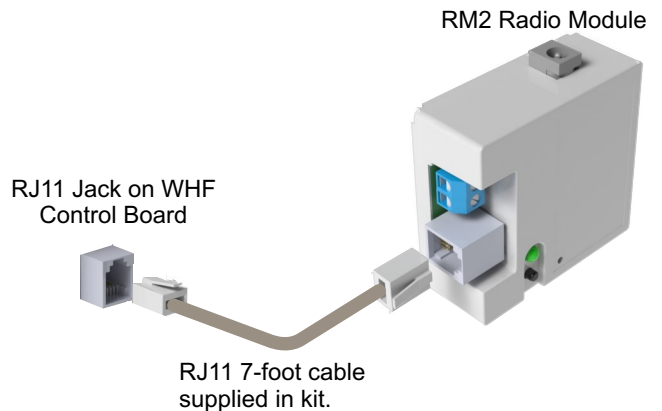
The ID Number on the RT2 should always match the ID Number on the RM2 - see below.



1) Connect the FC2J or FC2JE to RM2 Radio Module

Connect the WHF and RM2 using the 7-foot RJ11 cable provided. The RM2 can be attached to a surface (not metal) using the two mounting tabs or left suspended by the RJ11 cable.

Plug one end of the cable into the WHF control board and the other end into the RM2 Radio Module. The RT2 wireless control is now ready to communicate with the RM2 and control the WHF. The RM2 led blinks amber while trying to link to the RT2. Once the link is established, the led will be solid green and Linked will be displayed on the RT2 thermostat.

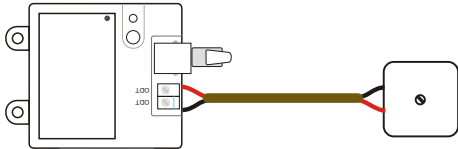


INSTALLATION

2) Optional Outdoor Temperature Sensor

The optional TS4 Outdoor Temperature Sensor should be installed under the eaves of the home and out of direct sun light. The outdoor temperature sensor is used to delay WHF operation when the outdoor temperature is too warm to provide cooling.

RM2 Radio Module



Use 2-conductor AWG 20 to 24 wire to connect the temperature sensor to the ODT terminals on the RM2 Radio Module. The sensor is not polarized.

3) Power the WHF and Set Installer Options

Be sure to set the Fan Type and Fan Speed in the RT2 before powering the WHF. See Installer Options below.

Carry the RT2 to the WHF. Plug in the WHF. The LED on the RM2 blinks amber while trying to establish communication with the RT2 thermostat. Once linked, the RM2 LED will be solid green and the RT2 thermostat will display Linked.

From the factory, the RT2 thermostat is in Temperature Control mode and the WHF (Econo Cooling) is OFF.

Activate the WHF by pressing the Econo Cooling key and turning the WHF ON. Lower the Set To temperature. If an optional outdoor temperature sensor is installed, you may have to temporarily adjust the limit to activate the WHF. Turn the WHF off by pressing the Econo Cooling key and turning the WHF OFF.

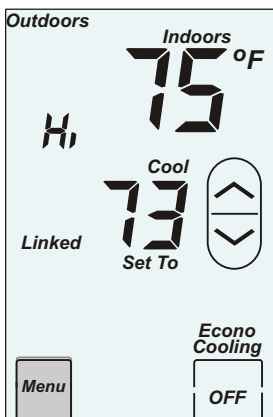
INSTALLER OPTIONS

Option	Description	Tag	Selections	Factory
01	Set the WHF Type	Fnt	PS (PSC) or EC (ECM)	PS
02	Set WHF Speeds	SPd	1 or 2 for PSC, or 1, 2, 3 or UA for ECM	2
03	High Speed Start	HSS	Off or On	Off

ACCESS INSTALLER OPTIONS

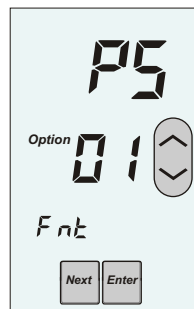
⚠ Homeowner - The following options have been set by the installer. Changing options without contacting your installer could result in the fan not operating correctly or damage to the control.

Installer - Ensure the fan type and fan speeds are set correctly before operating the WHF. Failure to do so could damage the control board.



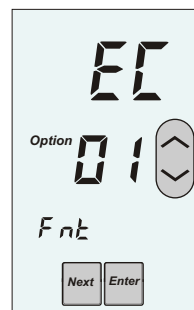
Access the Installer Options by pressing and holding the **MENU** key for about 7 seconds until Option 01 is displayed.

01 Set the FAN TYPE



Use the **DOWN** key to select a PSC fan (PS).

⚠ 1 or 2-speed PSC or ECM fans require the FC2J to be installed.



Use the **UP** key to select an ECM fan (EC).

⚠ 3-speed or variable speed ECM fans require the FC2JE to be installed.

Press the **NEXT** key to go to the next option or press **ENTER** to save the selection.

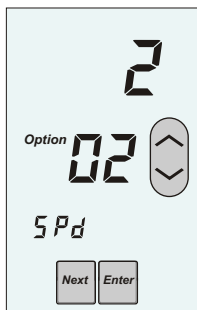
INSTALLER OPTIONS

02 Set the FAN SPEEDS

PSC Fans Select 1 or 2-speed



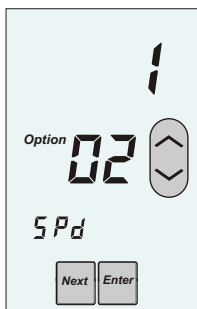
Use the **DOWN** key to select 1-speed.



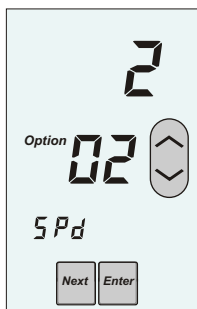
Use the **UP** key to select 2-speed.

Press the **NEXT** key to go to the next option or press **ENTER** to save the selection.

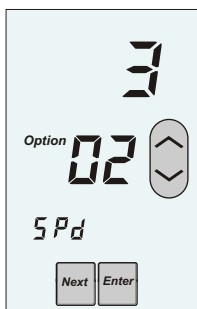
ECM Fans Select 1, 2, 3 or Variable speed



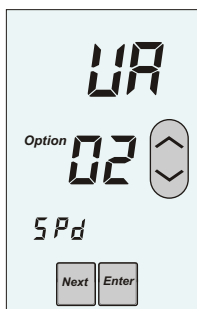
Use the **DOWN** key to select 1-speed.



Use the **UP** key to select 2-speed.



Use the **UP** key to select 3-speed.

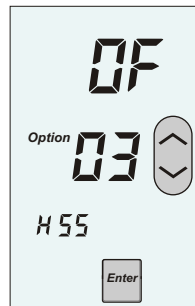


Use the **UP** key to select Variable-speed.

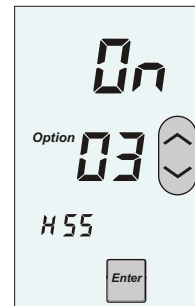
Press the **NEXT** key to go to the next option or press **ENTER** to save the selection.

03 High Speed Start Up

For some installations, a low speed start up may not be adequate to fully open the damper. When this option is set to ON, the WHF will start up in high speed and after about 10 seconds will return to the low speed setting.



Use the **DOWN** key to select OFF.



Use the **UP** key to select ON.

Press the **ENTER** to save the selection.

Limited 5-Year Warranty

The 5-year warranty is limited to the repair or replacement of defective product due to parts failure or defective workmanship.



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