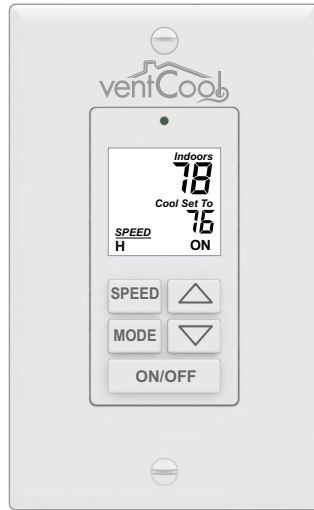


INSTALLATION AND USER MANUAL  
**VentCool® WTT**  
Whole House Fan Wall Control



The VentCool whole house fan wall control uses temperature or a timer to control the whole house fan. The wall control is installed in the sleeping space of the home and connects to the FC3JF already installed on the VentCool whole house fan using a plug&play cable included.

In temperature control, the homeowner turns on the whole house fan and sets their comfort temperature. The VentCool whole house fan will cool the home until the indoor temperature drops just below the comfort temperature then turn off. A built-in safety timer will turn the fan off the following morning in case the homeowner forgets. In timer control, the homeowner turns the fan on and sets the timer interval. The fan will run for the time set then turn off. The WTT wall control is also used to adjust the fan speed.

**COMPONENTS:**

- 1 - VentCool WTT Whole House Fan Wall Control [WTT] (p/n 580011702)
- 1 - 50 Foot RJ12 Plug&Play Cable [PNP50] (p/n 580011550)
- 1 - VentCool Logo cover plate
- 1 - Mounting hardware kit
- 1 - Installation and User Manual
- \*\*A VentCool Fan Control Module [FC3JF] p/n (580011701) must be installed on whole house fan assembly for this wall control (WTT) system to function properly.*

**READ THESE INSTRUCTIONS CAREFULLY AND COMPLETELY BEFORE PROCEEDING WITH THE INSTALLATION.**

This device **MUST** be installed by a qualified agency in accordance with the manufacturer's installation instructions. The definition of a qualified agency is: any individual, firm, corporation or company which either in person or through a representative is engaged in, and is responsible for, the installation and operation of HVAC appliances, who is experienced in such work, familiar with all the precautions required, and has complied with all the requirements of the authority having jurisdiction.

Please retain these instructions after installation.

Installed By: \_\_\_\_\_ Phone: \_\_\_\_\_ Installation Date: \_\_\_\_\_



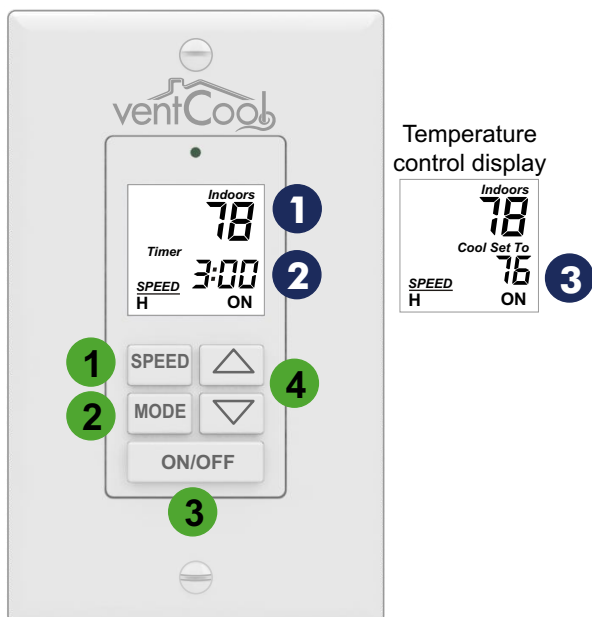
# HOMEOWNER SECTION

This manual is separated into two different sections: one for the Homeowner and one for the Installer. The Homeowner section contains information on features and operation of the wall control.





**Before operating your whole house fan, be sure to open windows and close fireplace dampers. Refer to your whole house fan manual for more information regarding operating your fan.**

The WTT wall control controls the whole house fan using temperature or timer control. Temperature control optimizes your comfort and energy savings by never overcooling your home and only running the fan when needed.

## UNDERSTANDING YOUR WALL CONTROL



### Key Operation

- 1 Press the SPEED key to change the fan speed.
- 2 Press the MODE key then press either the UP  or DOWN  key to switch between Timer Mode and Temperature Mode.
- 3 Press ON/OFF to turn the fan on or off.
- 4 Press the UP key  or DOWN key  to adjust the Timer Hours or the Cool Set To temperature.

### Display

- 1 Displays the indoor temperature where the remote is located.
- 2 Timer Hours.
- 3 Cool Set To is the temperature that you want the house to cool to.

# HOMEOWNER SECTION

## OPERATING YOUR FAN

Select how you would like to operate your fan - Timer or Temperature Mode and follow the simple instructions to start Timer or Temperature fan operation. Make sure windows are open before operating your whole house fan.

### TIMER MODE



Press the **MODE** key then press either the  or  key to select Timer Control (shown below). When switching between modes, the fan turns off.

Timer Mode operates using a timer set from 1 to 12 hours (factory set to 3 hours). The ON/OFF key is used to start timer operation. The fan will turn on and run for the time displayed.

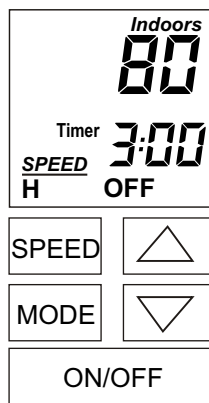
#### START TIMER OPERATION

Press the **ON/OFF** key to display ON.



#### ADJUST THE TIMER SETTING

Press and hold the  or  key to adjust the Timer Setting.

- Adjusting the Timer while the Fan is On sets the Timer for just that operation.
- Adjusting the Timer while the fan is Off sets a preferred timer setting that will be used each time the fan is turned on.



### TEMPERATURE MODE

Press the **MODE** key then press the  or  key to select Temperature Control (shown below). When switching between modes, the fan turns off.

Temperature Mode operates using the Indoor temperature and the Cool Set To temperature. The ON/OFF key is used to start temperature operation. The fan will turn on when the Set To temperature is below the Indoor temperature. Once the Indoor temperature drops below the Set To temperature the fan will turn off. If the Indoor Temperature rises above your Set To Temperature, the fan will again turn on to continue to cool your home to your Set To Temperature. Set To is adjustable from 60° to 95°.

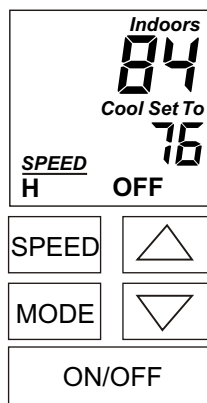
#### START TEMPERATURE OPERATION

Press the **ON/OFF** key to display ON.

#### ADJUST SET TO TEMPERATURE

Press and hold the  or  key to adjust the Set To temperature.

- In Temperature Mode, a built in Safety Timer will automatically turn the fan off after 8 hours. To adjust the Safety Timer hours, see Options.



### CHANGE FAN SPEED

Press and hold the **SPEED** key until the desired speed is displayed then release.

If the number of speeds available does not match the number of speeds of your fan, see Troubleshooting.

#### 1-Speed Fan

Homeowner can select High (H) only. **SPEED**  
H

#### 2-Speed Fan

Homeowner can select High (H) or Low (L). **SPEED** **SPEED**  
H L

#### 3-Speed Fan

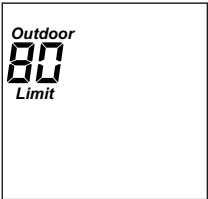
Homeowner can select High (H), Medium (M) or Low (L). **SPEED** **SPEED** **SPEED**  
H M L

Note: The WTT wall control is factory set for 2 speed operation out of box from factory. If you have a 3-speed fan but can only select High (H) or Low (L), the number of fan speeds may not have been set properly. Refer to Step 5, Set The Number of Fan Speeds, in the installer section of this manual.



## OPTIONS

### OUTDOOR TEMPERATURE LIMIT

Only displayed if the optional TS3J Outdoor Temperature Sensor is installed (see page 4 for more information on the TS3J sensor). Fan operation will be delayed in both Timer and Temperature Mode until the outdoor temperature drops below the limit set. Default limit is 80°. Adjustable from 60° to 99°. LIMIT will be displayed when operation is inhibited because the outdoor temperature limit is too high.



Access Options- Press and hold the **MODE** key to display the options.



- Press the  or  key to change the outdoor temperature limit. The change is saved when the backlight turns off.

### SAFETY TIMER HOURS

The built in safety timer runs in the background in Temperature Mode and automatically turns the fan off after 8 hours in case you forget. Default is 8 hours. Adjustable from 1 to 12 hours. The Safety Timer can be turned Off although not recommended.



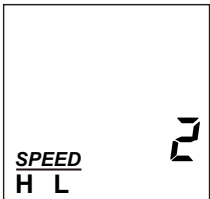
Access Options- Press and hold the **MODE** key to display the options.

- If STimer is not displayed, press the **MODE** key until STimer is displayed.
- Press and hold the  or  key to adjust the safety timer hours. The change is saved when the backlight turns off.



*The following options are usually set by the installer. Changing these options could cause your fan not to operate correctly.*

### NUMBER OF FAN SPEEDS

The number of fan speeds selected is dependent on the type of fan installed - 1-Speed, 2-Speed or 3-Speed fan. Factory set to a 2-speed fan.



Access Options- Press and hold the **MODE** key to display the options.



- Press the **MODE** key until Speed is displayed.
- Press the  or  key to change the number of speeds. The change is saved when the backlight turns off.

### HIGH SPEED START

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



Access Options- Press and hold the **MODE** key to display the options.

- Press the **MODE** key until HSS is displayed.
- Press the  key to turn the option on or the  key to turn the option off. The change is saved when the backlight turns off.

# INSTALLER SECTION

This manual is separated into two different sections: one for the Homeowner and one for the Installer.

The Homeowner section contains information on features and operation of the wall control.

## ⚠ CAUTIONS

- Turn off power before installing whole house fan and 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, turn off all power to these items.

### Step 1. Install a Plastic Retrofit Gang Box

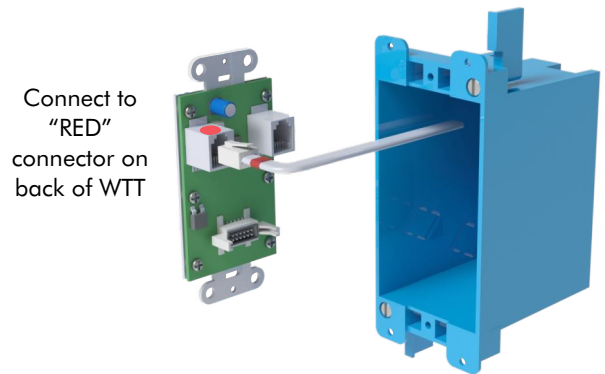
The WTT is installed in the upstairs sleeping space. Install a plastic retrofit single gang box about 5' off the floor in a location that will best sense the temperature for the space. Do not install in a location where the temperature will be influenced such as in direct sunlight, on an exterior wall, etc.

**Do not install WTT in a metal gang box.**



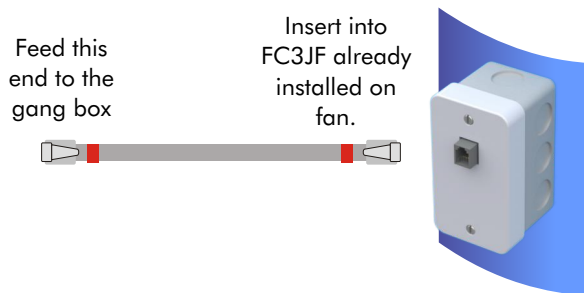
### Step 3. Connect Cable to the WTT

Connect the other end of the "RED" Plug&Play cable into the "RED" connector on the back of the WTT wall control.

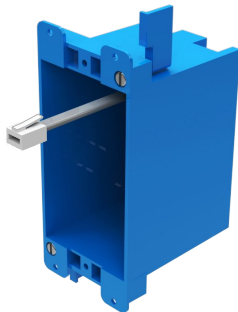


### Step 2. Connect Cable to the FC3JF

Connect one end of the "RED" Plug&Play cable into the FC3JF fan control module already installed on the junction box on the fan.



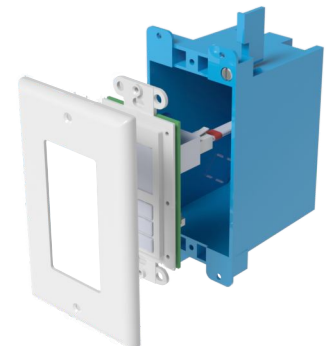
Pass the other end of the cable through the opening in the gang box.



### Step 4. Attach the WTT and Wall Plate

Apply 120VAC power the whole house fan. The LCD on the WTT should light up.

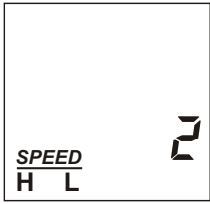
Attach the WTT wall control to the plastic gang box using the screws provided. Attach the wall plate to the WTT using the screws provided in the wall plate.





# INSTALLER SECTION

## Step 5. Set Options

### Set the Number of Fan Speeds



Access Options- Press and hold the **MODE** key to display the first option.

- Press the **MODE** key until Speed is displayed.
- Press the  or  key to change the number of speeds. The change is saved when the backlight turns off.



The WTT wall control is factory set for 2 speed operation from the factory. Refer to your VentCool Whole House Fan for number of fan speeds available with your model and adjust your WTT to match.

### High Speed Start

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



Access Options- Press and hold the **MODE** key to display the first option.

- Press the **MODE** key until HSS is displayed.
- Press the  key to turn the option on or press the  key to turn the option off. The change is saved when the backlight turns off.

## Step 6. Commissioning

### Check Fan Operation

The fan defaults to Timer Mode. Press the **ON/OFF** key to turn the fan ON.

#### CHECK FAN SPEEDS

##### 2-Speed Fan

- Verify that the fan is running in High speed.
- Press the **SPEED** key to change to Low (L). Verify the fan is running in Low speed.
- Press the **SPEED** key to return to High (H) speed.

##### 3-Speed Fan

- Verify that the fan is running in High speed.
- Press the **SPEED** key to change to Low (L). Verify the fan is running in Low speed.
- Press the **SPEED** key to change to Medium (M). Verify the fan is running in Medium speed.
- Press the **SPEED** key to return to High (H) speed.

Press the **ON/OFF** key to turn the fan OFF.

# MAINTENANCE, TROUBLESHOOTING AND ADD ONS

## The WTT LCD is not lit.

Ensure that the cable is completely plugged into the "RED" connector on the WTT and the FC3JF. You should hear the connectors click. Ensure that the fan is powered. Ensure the wiring from the FC3JF fan control to the whole house fan is correct.

## Fan speeds available is not correct.

Ensure that the number of speeds set in Step 5 correspond to the type of fan installed - 1-speed, 2-speed or 3-speed fan.

## Fan speed operation does not match wall control setting.

Verify HS, MS and LS wire connections of fan control module (FC3JF) located on fan assembly in attic are correctly wired per the WHF product model installed. Refer to specific WHF Installation manual for wiring diagrams.

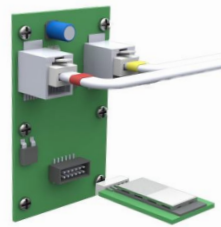
## The display indicates On but the fan is not running.

If On is not blinking and the WTT is in Temperature Control, make sure the Set To temperature is a few degrees lower than the Indoor temperature. On will blink when the fan is running.

If an outdoor temperature sensor is installed and the outdoor temperature is above the limit set, whole house fan operation may be delayed. When delayed, "LIMIT" blinks.

If On is blinking but the fan is not running, check the wiring from the FC3JF fan control to the whole house fan.

The WTT wall control enables you to easily add optional Wireless or WiFi control without having to go into the attic or giving up the wall control.



For wireless control, a WLM Wireless Module is plugged into the back of the WTT and the RTT Wireless Remote is used to control the fan from anywhere within your home.

For WiFi control, a WFM WiFi Module is plugged into the back of the WTT and your smart phone is used to control the fan from anywhere.

Contact Customer Service at [sales@fieldcontrols.com](mailto:sales@fieldcontrols.com) or 252-522-3031 to purchase optional upgrade components.



**Model WLM-RTT**  
Wireless Remote  
and Plug-in  
Wireless Module



**Model WFM**  
Plug-in WiFi  
Module (smart phone  
product provided  
by homeowner)

## SPARE PARTS AND ACCESSORY LIST

Field Controls Part Number	Model Number	Description
580011702	WTT	Whole House Fan Wall Control with Temperature, Timer and Speed Control. For 1, 2 or 3-Speed PSC or ECM fans. Includes 50 FT plug&play cable and hardware kit.
580011701	FC3JF	Whole House Fan Control Board. For 1, 2 or 3-Speed PSC or ECM fans.
580011704	WLM-RTT	Wireless Remote Control Upgrade Kit. Includes WLM Wireless Plug-In Module and RTT Wireless Remote Control.
580011705	WFM	WiFi Control Upgrade Kit. Includes WLM WiFi Plug-In Module.
580011706	WLM	Replacement WLM wireless plug-in module.
580011707	RTT	Replacement RTT wireless remote control.
580011550	PNP50	Cable 50 FT PNP50 VentCool

This manual may be downloaded and printed from the Field Controls website ([www.fieldcontrols.com](http://www.fieldcontrols.com))

### WARRANTY

For warranty information about this or any Field Controls product, visit:  
[www.fieldcontrols.com](http://www.fieldcontrols.com)

**Field Controls Technical Support**  
**1.800.742.8368**  
**[fieldtec@fieldcontrols.com](mailto:fieldtec@fieldcontrols.com)**

**Field Controls Customer Service**  
**1.252.522.3031**  
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