



Follow the <u>Installation Instructions</u> before proceeding. Set the thermostat mode to "OFF" prior to changing settings in setup or restoring Factory Defaults.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.





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Glossary of Terms

Auto-Changeover: A mode in which the thermostat will turn on the heating or cooling based on room temperature demand.

Cool Setpoint: The warmest temperature that the space should rise to before cooling is turned on (without regard to deadband).

Deadband: The number of degrees allowed past setpoint, before energizing heating or cooling.

Differential: The forced temperature difference between the *heat set-point* and the *cool setpoint*.

Heat Setpoint: The coolest temperature that the space should drop to before heating is turned on (without regard to deadband).

Icon: The word or symbol that appears on the thermostat display.

Mode: The current operating condition of the thermostat (i.e. Off, Heat, Cool, Auto, Program On).

Non-Programmable Thermostat: A thermostat that does not have the capability of running *Time Period Programming*.

Programmable Thermostat: A thermostat that has the capability of running *Time Period Programming*.

Temperature Swing: Same as Deadband.

Time Period Programming: A program that allows the thermostat to automatically adjust the *heat setpoint* and/or the *cool setpoint* based on the time of the day. *Same as Schedule.*

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Thermostat Name Available Modes SD Card (Import and Export)

General Setup Units (F or C) Language Smart Recovery On/Off Simple Thermostat On/Off
Installation Settings
Heat & Cool Stages
Heat & Cool Stages Compressor Stages Aux Heat Stages Timers & Deadbands Free Cooling Heat Pump Settings
Heat Pump Lockout - Enabled/Disabled Heat Pump Lockout Outdoor Temp Aux Heat Lockout Enabled/Disabled Aux Heat Lockout Temp
<u>Dual Fuel Settings</u>
Dual Fuel On/Off Changeover With Outdoor Temp On/Of Adjust Balance Point
AUX Output Settings Fan Off Delay Sensor Settings Test Outputs Dealer Information Upgrade Firmware Delete Custom Images Calibrate Clock Reset To Factory Default Settings Restart Thermostat

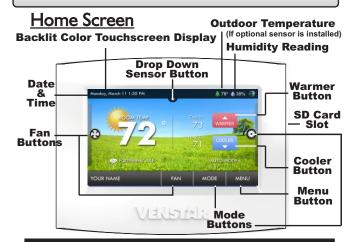
44	Emergency	Heat

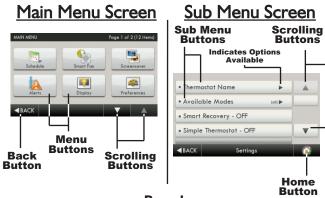
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Get To Know Your Thermostat





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Get To Know Your Thermostat

Dropdown Dashboard

The Dropdown Dashboard displays temperature, humidity, and other readings. It will also show the high and low readings of the day.

Drop Down Dashboard Button

Drop Down Dashboard Button

Wi-Fi
Connection Icon

(The Skyport Wi-Fi
Key is required for wi-fi connections. Model # ACC0454)

Dropdown Dashboard

(The contents of your Dashboard may vary)



Get To Know Your Thermostat

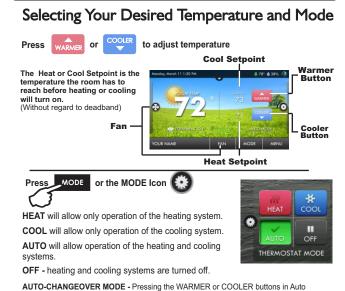
Care and Use of Your Thermostat

Pencils, pens and other sharp objects should never be used on your ColorTouch thermostat; these may damage your touchscreen. Only use your finger tip to press the touchscreen buttons.



Use a soft, damp cloth to clean the screen.

DO NOT USE ABRASIVE CLEANERS OR CLEANERS THAT CONTAIN SOLVENTS. DO NOT SPRAY ANYTHING DIRECTLY ONTO THE THERMOSTAT.



Temperature, Modes & Fan

Quick Start

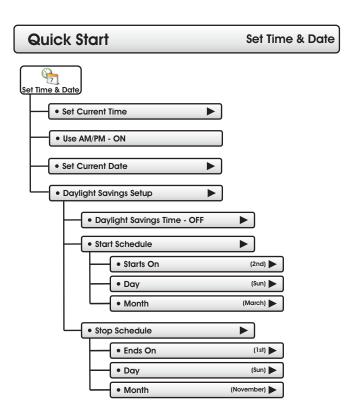


mode will adjust <u>both</u> the heat and cool setpoints simultaneously. To adjust heat and cool setpoints individually, choose HEAT mode to adjust the heat setpoint and COOL

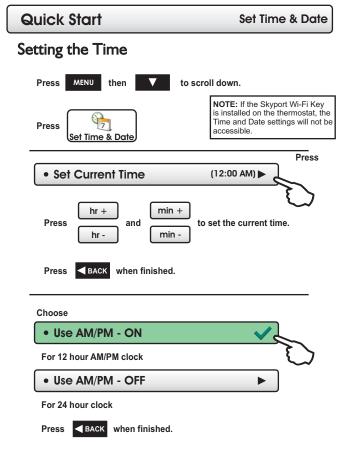
 $\ensuremath{\mathsf{HEAT}}\xspace \ensuremath{\mathsf{OR}}\xspace$ COOLER buttons in Heat or

mode to adjust the cool setpoint, then return to AUTO mode.

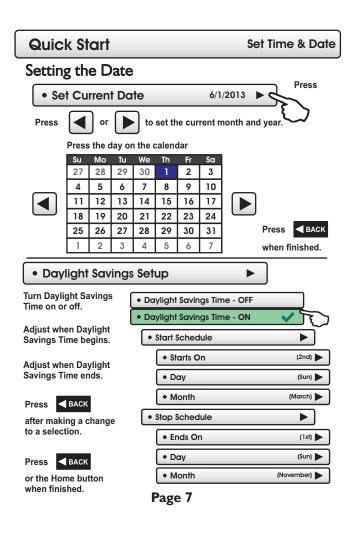
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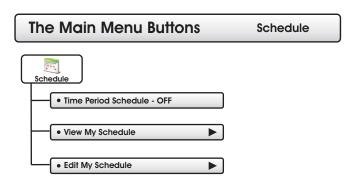


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Schedule

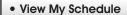


This thermostat features up to four programmable time periods per 24 hour day: Morning, Day, Evening, and Night. The start time for each time period is adjustable. The stop time for each time period is the start time for the next period.

Press to turn Schedule On or Off

• Time Period Schedule - OFF

• Time Period Schedule - ON



Press a day of the week to view its settings. This may be repeated for each day.



Edit My Schedule

Press and select days to program



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Continued

The Main Menu Buttons

Schedule

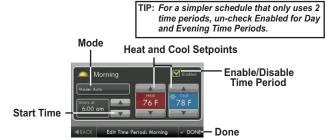
• Edit My Schedule

(Continued)

Press and select a Time Period (Morning, Day, Evening, or Night) to edit.



Adjust Mode, Start Time, and Heat and Cool Setpoints to desired settings. The Time Period may also be Enabled or Disabled. Un-check the Enabled box for Time Periods you don't want to use. Press **DONE** when finished.



When you are finished editing the four time periods press

Review your program. Press **SAVE** to keep your program. Press **EDIT** to make further changes.

Review Your Program

For Weekslays

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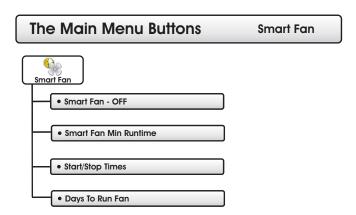
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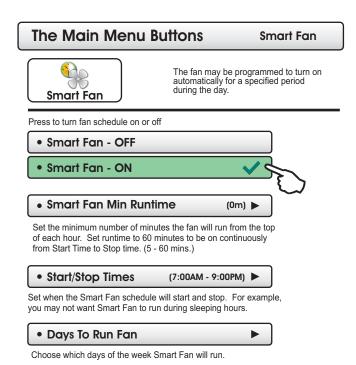
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FROM 10° are the 10° are the 20° are the AUTO

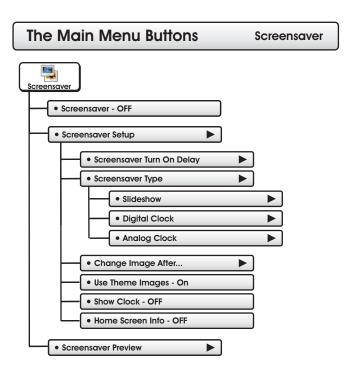
FROM 10° are the 10° are the 20° are the 20°



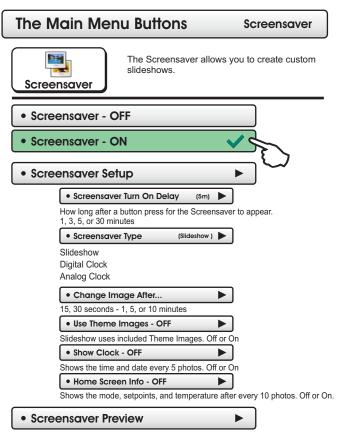
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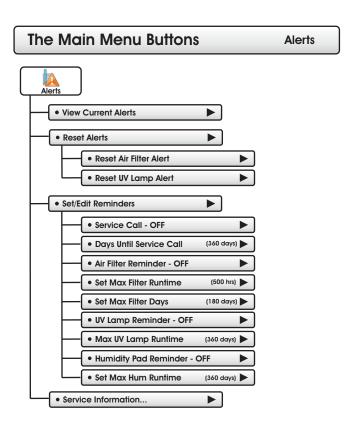
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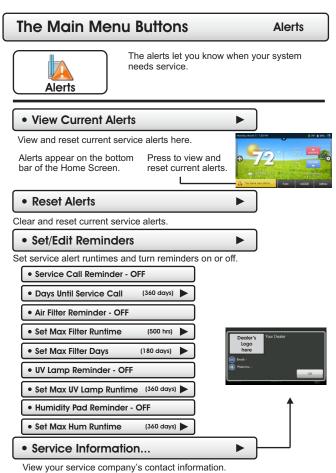
Press this button to preview your screensaver operation before returning to the Home Screen.

After the preview, press anywhere on the screen to return to the sub menu.

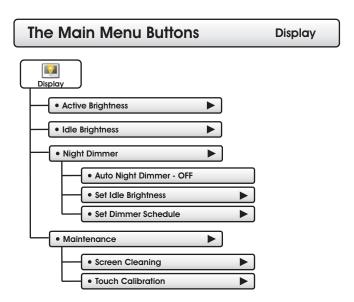
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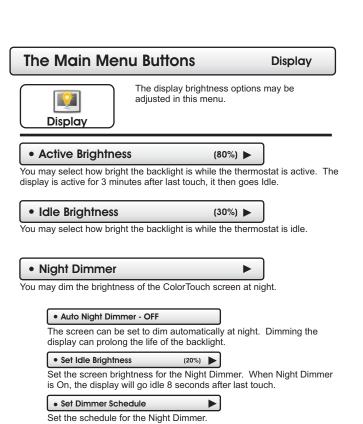
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Maintenance allows you to clean and calibrate the ColorTouch Screen.



Screen Cleaning Mode disables the touch feature for 15 seconds so the screen may be cleaned without altering any settings.

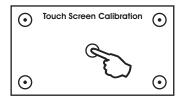


Use a soft cloth without solvents or abrasive cleaners



Under normal circumstances, the ColorTouch touchscreen should not need to be calibrated.

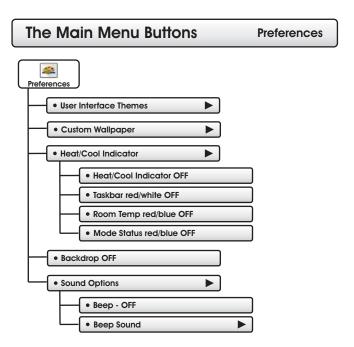
Touch the center of the targets as they appear on the screen.



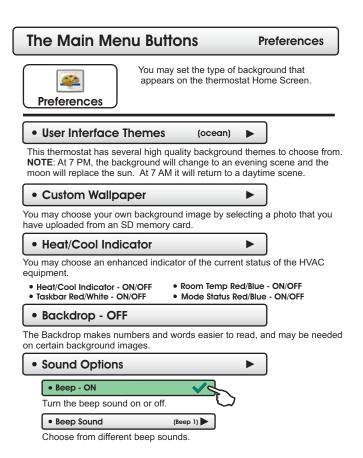
Press FINISH when done.

When calibration is complete, the thermostat will automatically restart and return to the Home Screen.

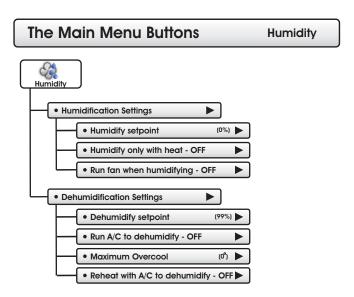
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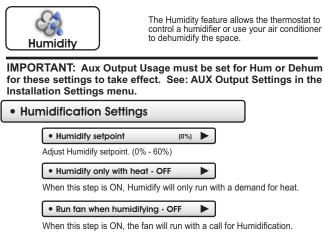
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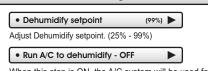
Dehumidification Settings

The Main Menu Buttons

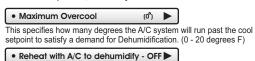
When this step is ON, the fan will run with a call for Humidification.

(0%)

Humidity

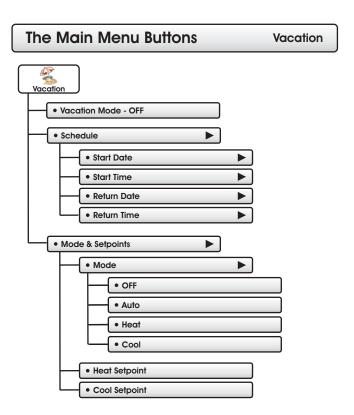


When this step is ON, the A/C system will be used for Dehumidification.

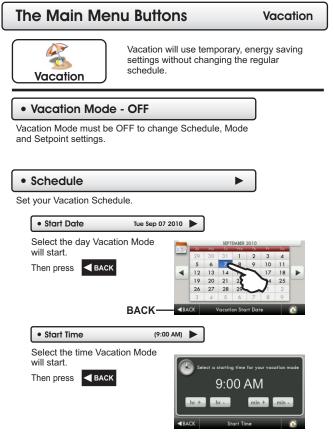


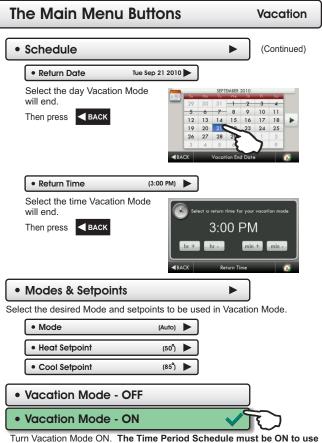
This turns on electric strip heat during an A/C to dehumidify demand to help maintain desired room temperature. (Run A/C to dehumidify must be set to ON and Dip Switch #1 must be set to ELEC to access this feature)

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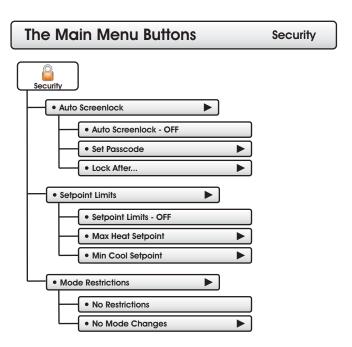
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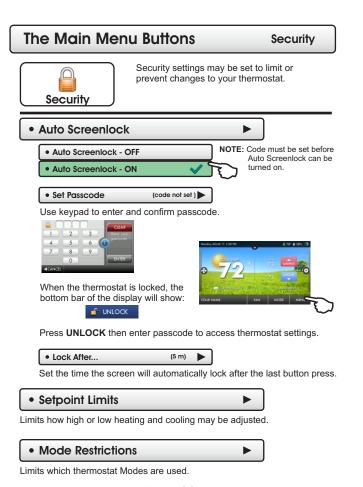


Vacation Mode ON. The Time Period Schedule must be ON to us Vacation Mode. (See Schedule in the Main Menu)

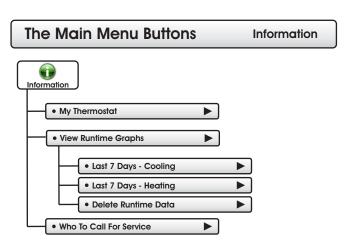
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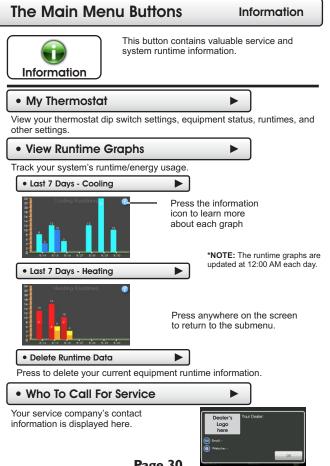
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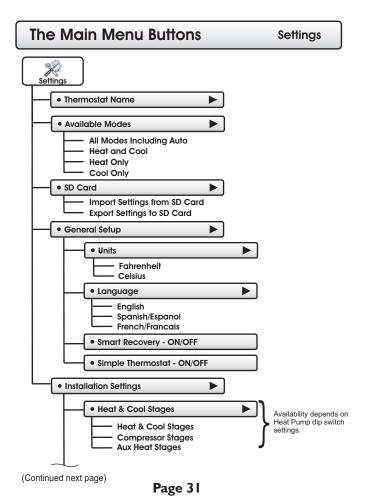
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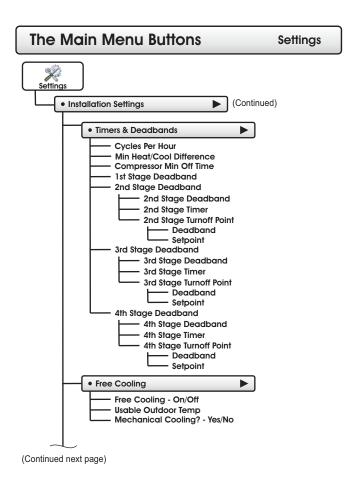


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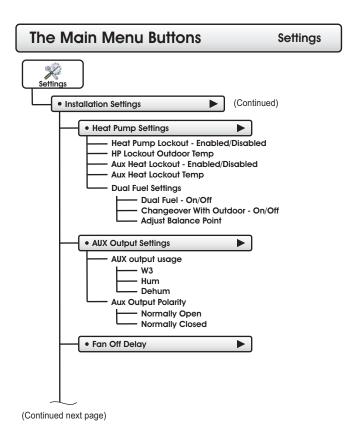


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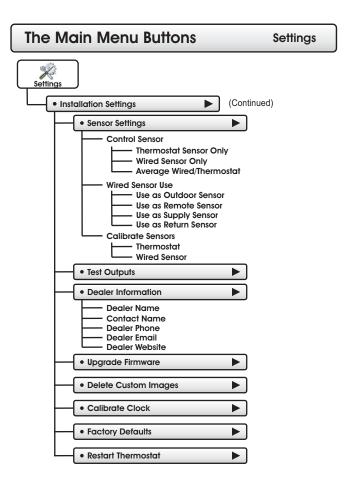




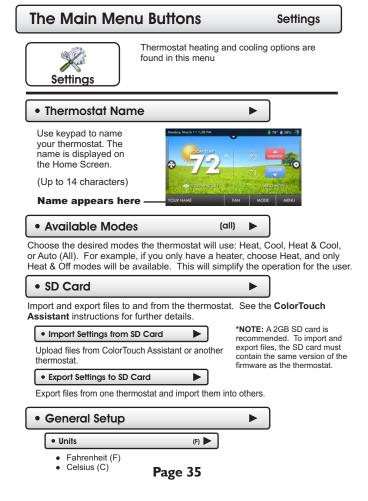
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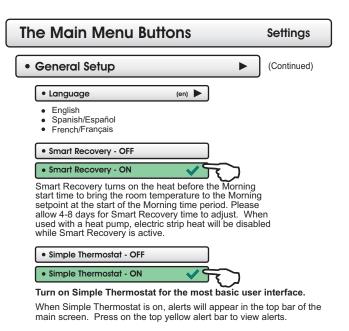


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Warmer Button

Cooler Button

Menu Button

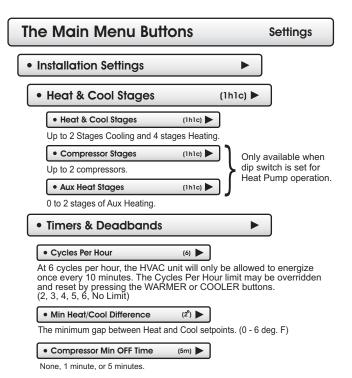
Single Setpoint

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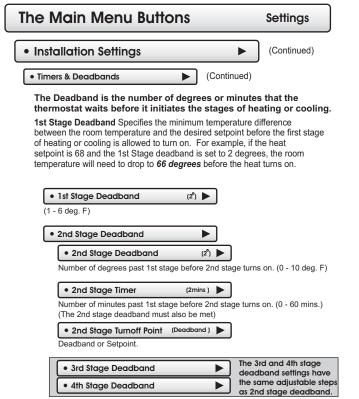
Press Press to Cooling turn Fan Off On or Auto

Room Temperature

> Press for Heat



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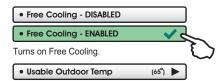
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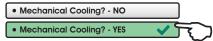
Settings



Free Cooling is an energy saving way to boost the efficiency of your air conditioning system by bringing in cool air from the outside. The installation of a Free Cooling damper(s) and outdoor temperature sensor is required.

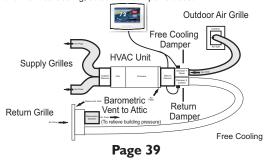


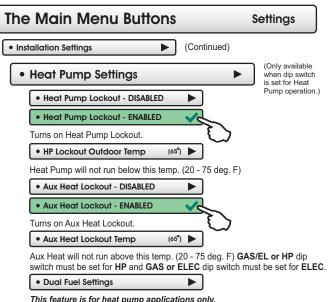
Free Cooling shuts off above this outdoor temperature. (40 - 80 degrees F)



If you don't have a compressor, set Mechanical Cooling to "NO", Y1 will then be used to control the Free Cooling Damper(s) and Y2 will be disabled. If set to "YES", mechanical (compressor) cooling will be controlled by the Y2 terminal. (See page 53 for wiring diagram)

Mechanical air conditioning is turned on with a 2nd stage demand for cooling and the Free Cooling, outdoor air damper is closed.





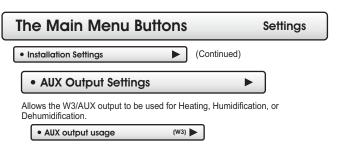
This feature is for heat pump applications only.
This will only appear if the GAS/EL or HP dip switch is set for HP and the GAS or ELEC dip switch is set for Gas.

When Dual Fuel is ON, an outdoor temperature or, if Change With Outdoor is set to OFF a demand for third stage heat will be used to stop running the heat pump and switch to a fossil fuel source of heat. NOTE: Once the change to fossil fuel is made, the heat demand must finish with fossil fuel. Additional heat demands within 10 minutes will also use fossil fuel, regardless of outdoor temperature or stage demand.

- Dual Fuel ON/OFF
- Changeover With Outdoor ON/OFF
 ON: Uses an outdoor sensor for changeover.
- **OFF:** Uses a third stage heat demand for changeover.
- Adjust Balance Point

Choose the temperature for changeover to fossil fuel. (5 - 60 deg. F)

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IMPORTANT: Aux Output Usage must be set for Hum or Dehum before any settings will take effect in the Humidity Main Menu.



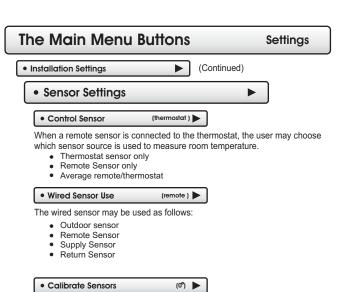


The AUX Output polarity may be set for Normally Open or Normally Closed to accommodate different types of humidification and dehumidification equipment.



Runs the fan for a short time after Cooling or electric strip heat turns off to increase system efficiency. (0 - 120 Secs.)

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The thermostat and wired sensor may be calibrated -7 to +7 degrees F.

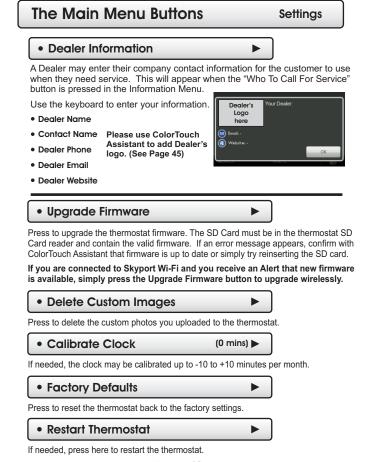


The installer or service technician can use this feature to test the functions without any time delays of the thermostat.



With a 1st stage cooling call, Y1 and G are active

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The Main Menu Buttons

Emergency Heat



The Emergency Heat function is only available if your thermostat is set to control a Heat Pump.

To initiate the Emergency Heat feature, Press the Emergency Heat button. During Emergency Heat operation the thermostat will turn on the fan and auxiliary stages of heat when there is a demand for heat. The 1st stage of heating and all stages of cooling will be unavailable. To exit Emergency Heat, press the Emergency Heat button.



ColorTouch Assistant

ColorTouch Assistant may be downloaded at no charge at:

www.venstar.com/thermostats/colortouch/assistant/



Every time the user runs the ColorTouch Assistant software, it automatically connects to Venstar's ColorTouch website in the background and updates the software and firmware (the operating system for ColorTouch) at no cost.

The ColorTouch Assistant allows you to use your computer to:

- Upload photos for background and slideshow images
- Program a time period schedule
- Configure installation settings
- Upload dealer and service contact information and company logo
- Update thermostat firmware

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The ColorTouch Assistant

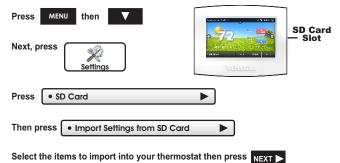
Uploading Photos and Settings to your thermostat

When you are finished adding and editing photos and settings, click on **Save to SD**. When prompted, remove the SD card from the SD card reader on your computer.



At the thermostat:

Insert the SD card into the SD Card Slot.



Your thermostat will automatically save your new photos and settings.

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Remove & Replace the Old Thermostat

To install the thermostat properly, please follow these step by step instructions. If you are unsure about any of these steps, call a qualified technician for assistance.

- Assemble tools: Flat blade screwdriver, wire cutters and wire strippers.
- Make sure your Heater/Air Conditioner is working properly before beginning installation of the thermostat.
- Carefully unpack the thermostat. Save the screws, any brackets, and instructions.
- Turn off the power to the Heating/Air Conditioning system at the main fuse panel. Most residential systems have a separate breaker for disconnecting power to the furnace.
- ► Remove the cover of the old thermostat. If it does not come off easily, check for screws.
- Loosen the screws holding the thermostat base or subbase to the wall and lift away.
- Disconnect the wires from the old thermostat. Tape the ends of the wires as you disconnect them, and mark them with the letter of the terminal for easy reconnection to the new thermo-
- Keep the old thermostat for reference purposes, until your new thermostat is functioning properly.

Wire Connections

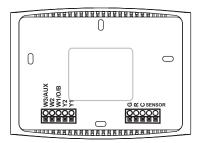
If the terminal designations on your old thermostat do not match those on the new thermostat, *refer to the chart below or the wiring diagrams that follow.*

Wire from the old thermostat terminal marked	Function	Install on the new thermostat connector marked
G or F	Fan	G
Y1, Y or C	Cooling	Y1
W1, W or H	Heating	W1/O/B
Rh, R, M, Vr, A	Power	R
С	Common	С
O/B	Rev. Valve	W1/O/B*
W2	2nd Stage Heat	W2
Y2	2nd Stage Cooling	Y2
W3	3rd Stage Heat	W3/AUX
ним	Humidification	W3/AUX
DEHUM	Dehumidification	W3/AUX
S1/OUT -	Temp Sensor	SENSOR
S2/OUT +	Temp Sensor	SENSOR

^{*} O/B is used if your system is a Heat Pump.

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The ColorTouch Thermostat Backplate

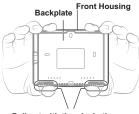


NOTE:
The backplate does not fully cover a full size vertical junction box. The ACC-WPLWH ColorTouch Wallplate or a single-gang, horizontally mounted junction box would be needed for that type of installation.

To remove the thermostat backplate:

Using the Finger Pull Areas, pull the front housing away from the backplate.





Look for these tabs to locate the pull areas

Pull out with thumbs in these areas

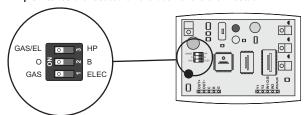
W3/AUX 3rd stage heat circuit/2nd stage G fan relay	'
aux heat/humidification/dehumidication R 24 VAC	return
W2 2nd stage heat circuit/1st stage aux heat C 24 VAC	common
W1/O/B 1st stage heat circuit/reversing valve remote/out	door/
Y2 2nd stage compressor relay SENSOR supply/retu	rn
Y1 1st stage compressor relay sensor con	nections

IMPORTANT: This thermostat requires both R (24 VAC Return) and C (24 VAC Common) be connected to the backplate terminals.

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Explanation of Thermostat Dip Switches

Dip switches are located on the back of the thermostat





This dip switch configures the thermostat to control a conventional gas/electric system or a heat pump. If your system is anything other than a heat pump, leave this switch set for GAS/EL.*

*For some commercial heat pumps, this switch may need to be set for GAS/EL. Consult the commercial heat pump literature.



When the <u>GAS/EL or HP</u> dip switch is configured for HP, this dip switch (O or B) must be set to control the appropriate reversing valve. If O is chosen, the W1/O/B terminal will energize in cooling. If B is chosen, the W1/O/B terminal will energize in heating.



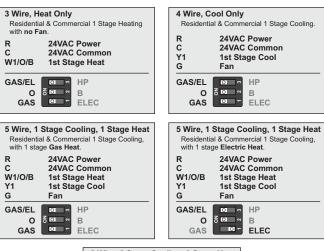
1. When GAS/EL or HP is set for GAS/EL:
This switch (GAS or ELEC) controls how the thermostat will control the Fan (G) terminal in heating mode. When GAS is chosen, the thermostat will not energize the Fan (G) terminal in heating. When ELEC is chosen the thermostat will energize the fan in heating.

2. When GAS/EL or HP is set for HP: This switch (GAS or ELEC) defines the Aux Heat type. When GAS is chosen, the auxiliary heat will not be allowed to run during heat pump operation. When using a Dual Fuel system, set this switch for GAS. When ELEC is chosen, up to two stages of auxiliary strip heat will be allowed to run.

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Sample Wiring Diagrams with Dip Switch Positions

Conventional Heating and Cooling Systems

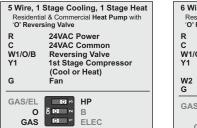




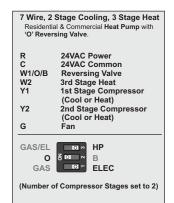
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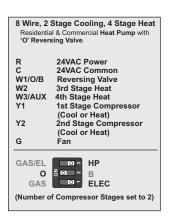
Sample Wiring Diagrams with Dip Switch Positions

Heat Pump Systems





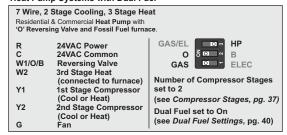


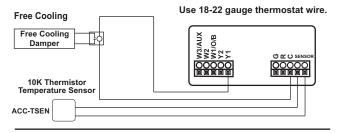


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Sample Wiring Diagrams with Dip Switch Positions

Heat Pump Systems with Dual Fuel





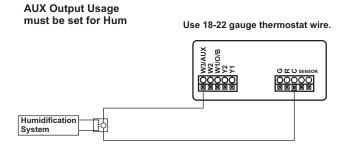
Free Cooling utilizes the Y1 terminal for the operation of 1st stage cooling. If mechanical (compressor) cooling is also present, the mechanical cooling is connected to the Y2 terminal in this instance.

Free Cooling may be used with a Gas/Electric or Heat Pump system.

Temperature Sensor: ACC-TSEN Temperature Sensor 10K ohm sensor at 77F/25C. Negative Temperature Coefficient.

Sample Wiring Diagrams

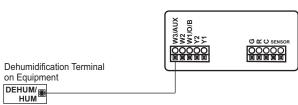
Humidification



Dehumidification

AUX Output Usage must be set for Dehum

Use 18-22 gauge thermostat wire.



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Troubleshooting

➤ SYMPTOM: The thermostat touchscreen buttons are not responsive.

CAUSE: The touchscreen is out of calibration.

REMEDY: Remove the thermostat from the backplate. Push the thermostat back onto the backplate, while keeping your finger pressed firmly against the center of the touchscreen, until the Calibration screen appears. Re-calibrate the Touchscreen.

➤ <u>SYMPTOM:</u> The display is blank.

<u>CAUSE:</u> Lack of proper power.

<u>REMEDY:</u> Make sure the power is on to the HVAC and that you have 24vac between R & C.

SYMPTOM: The air conditioning does not attempt to turn on. CAUSE: The cooling setpoint is set too high. REMEDY: Lower the cooling setpoint or lower the cooling setpoint limit. See Setpoint Limits (page 28).

SYMPTOM: The heating does not attempt to turn on. CAUSE: The heating setpoint is set too low. REMEDY: Raise the heating setpoint or raise the heating setpoint limit. See Setpoint Limits (page 28).

SYMPTOM: When controlling a residential heat pump, and asking for cooling, the heat comes on.
CAUSE: The thermostat reversing valve dip switch is set for "B".
REMEDY: Set the reversing valve dip switch for "O".

➤ <u>SYMPTOM:</u> When calling for cooling, both the heat and cool come on.

<u>CAUSE:</u> The thermostat equipment dip switch is configured for "HP" and the HVAC unit is a Gas/Electric.
<u>REMEDY:</u> Set the equipment dip switch for "Gas".

➤ <u>SYMPTOM</u>: Air handler control board fuse blows when thermostat is attached to backplate with power on, but does not blow until the thermostat is placed onto the backplate.

CAUSE: The Outdoor sensor and/or sensor wiring is shorted.
REMEDY: Check/replace Outdoor sensor and/or sensor wiring.



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Notes:

Warranty

One-Year Warranty - This Product is warranted to be free from defects in material and workmanship. If it appears within one year from the date of original installation, whether or not actual use begins on that date, that the product does not meet this warranty, a new or remanufactured part, at the manufacturer's sole option to replace any defective part, will be provided without charge for the part itself provided the defective part is returned to the distributor through a qualified servicing dealer.

THIS WARRANTY DOES NOT INCLUDE LABOR OR OTHER COSTS incurred for diagnosing, repairing, removing, installing, shipping, servicing or handling of either defective parts or replacement parts. Such costs may be covered by a separate warranty provided by the installer.

THIS WARRANTY APPLIES ONLY TO PRODUCTS IN THEIR ORIGINAL INSTALLATION LOCATION AND RECOMES VOID LIPON REINSTALLATION

LIMITATIONS OF WARRANTIES – ALL IMPLIED WARRANTIES (INCLUDING IMPLIED WARRANTIES OF FITNESS FOR A PARTICULAR PURPOSE AND MERCHANTABILITY) ARE HEREBY LIMITED IN DURATION TO THE PERIOD FOR WHICH THE LIMITED WARRANTY IS GIVEN. SOME STATES DO NOT ALLOW LIMITATIONS ON HOW LONG AN IMPLIED WARRANTY LAST, SO THE ABOVE MAY NOT APPLY OVU. THE EXPRESSED WARRANTIES MADE IN THIS WARRANTY ARE EXCLUSIVE AND MAY NOT BE ALIFERD, ENLARGED, OR CHANGED BY ANY DISTRIBUTIOR, DEALER, OR OTHER PERSON WHATSOEVER.

ALL WORK UNDER THE TERMS OF THIS WARRANTY SHALL BE PERFORMED DURING NORMAL WORKING HOURS. ALL REPLACEMENT PARTS, WHETHER NEW OR REMANUFACTURED, ASSUME AS THEIR WARRANTY PERIOD ONLY THE REMAINING TIME PERIOD OF THIS WARRANTY.

THE MANUFACTURER WILL NOT BE RESPONSIBLE FOR:

- Normal maintenance as outlined in the installation and servicing instructions or owner's manual, including filter cleaning and/or replacement and lubrication.
- Damage or repairs required as a consequence of faulty installation, misapplication, abuse, improper servicing, unauthorized alteration or improper operation.
 Failure to start due to voltage conditions, blown fuses, open circuit breakers or other
- Failure to start due to voltage conditions, blown fuses, open circuit breakers or other damages due to the inadequacy or interruption of electrical service.
- Damage as a result of floods, winds, fires, lightning, accidents, corrosive environments or other conditions beyond the control of the Manufacturer.
- Parts not supplied or designated by the Manufacturer, or damages resulting from their use.
 Manufacturer products installed outside the continental U.S.A., Alaska, Hawaii, and
- Manufacturer products installed outside the continental U.S.A., Alaska, Hawaii, and Canada.
- 7. Electricity or fuel costs or increases in electricity or fuel costs for any reason whatsoever including additional or unusual use of supplemental electric head.
- ANY SPECIAL INDIRECT OR CONSEQUENTIAL PROPERTY OR COMMERCIAL
 DAMAGE OF ANY NATURE WHATSOEVER. Some states do not allow the exclusion of
 incidental or consequential damages, so the above may not apply to you.

This warranty gives you specific legal rights and you may also have other rights which may vary from state to state.



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