

# Geothermal Digital Thermostat

Models  
TP32S01, TP32S01B  
TP32S02, TP32S02B  
RESIDENTIAL

BACKLIT DISPLAY



## Owner's Manual and Installation Instructions





## CAUTION

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

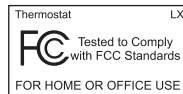
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**NOTE:** Due to variations in environmental conditions, it is not  
always possible to achieve the desired humidification or  
dehumidification setpoint.

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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 the thermostat will wait, once a setpoint has been reached, before energizing heating or cooling.

**Dehumidify:** To reduce the amount of moisture in the air.

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

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

**Humidify:** To increase the amount of moisture in the air.

**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.



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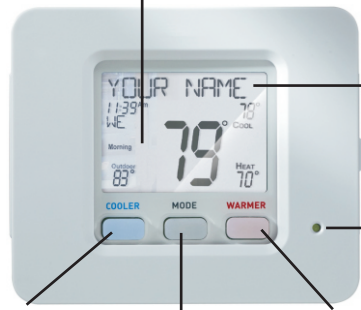
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# Get to Know Your Thermostat

**Backlit LCD Display**

*Front Panel*



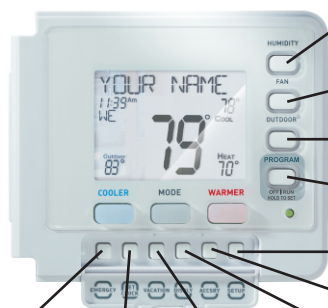
**Scrolling Display**

**Heat or Cool Demand Indicator**  
Red = Heat, Green = Cool

**Cooler Button**

**Mode Button**

**Warmer Button**



**Humidity\***  
(This feature not available on all models)

**Fan**

**Outdoor Temp.**

**Program**  
Off | Run  
Hold To Set

**Setup**

**Emergency Heat**

**Set Clock**

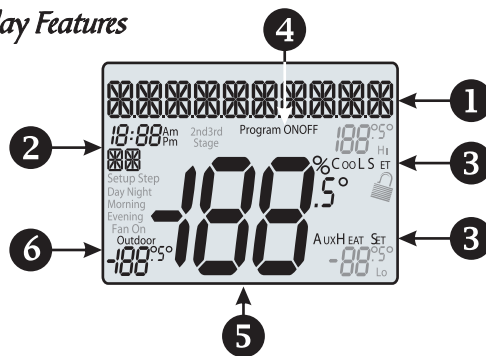
**Vacation (RESET FILTER)**  
(on some models)

**Display Options**

**Accessory**

## Get to Know Your Thermostat

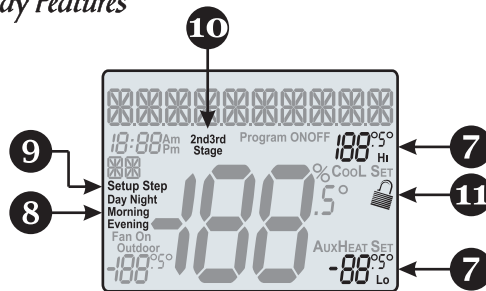
### Display Features




- 1** The scrolling display will be used to help you easily navigate the setup screens in the thermostat.
- 2** Clock with Day of the Week  
Indicates the current time and day. This clock is also used to program the time period schedules.
- 3** Mode Indicators  
Selects the operational mode of the equipment.  
HEAT - Indicates the heating mode.  
COOL - Indicates the air conditioning mode.  
HEAT & COOL - Indicates the system will automatically change-over between heat and cool modes as the temperature varies.  
OFF - Indicates heating and cooling is turned off.
- 4** Program icon  
Indicates that Time Period Programming is running or is enabled to be set.
- 5** Room Temperature Display  
Indicates the current room temperature and displays the outdoor temperature when selected.
- 6** Outdoor icon  
Indicates the temperature displayed is from the optional outdoor sensor.

## Get to Know Your Thermostat

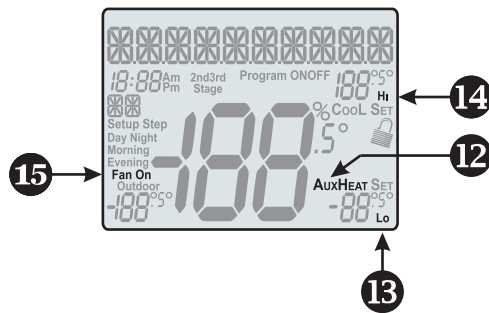
### Display Features



- 7** Desired Set Temperature  
Indicates desired room temperature(s). Also displays the highest and lowest temperatures for the day.
- 8** Morning, Day, Evening & Night icons  
Indicates the day part of the time period program.
- 9** Setup Step icon  
Indicates the step number when the thermostat is in the setup mode.
- 10** 2nd and 3rd Stage icons  
Indicates what stage of cooling or heating is currently energized.
- 11**  icon  
Indicates the keypad has been locked.

## Get to Know Your Thermostat

### Display Features



- 12** **AuxHeat** icon  
Indicates 3rd stage electric strip heat is being used when the thermostat is programmed for Heat Pump operation.
- 13** **Lo** icon  
Indicates the lowest recorded outdoor temperature for the day.
- 14** **Hi** icon  
Indicates the highest recorded outdoor temperature for the day.
- 15** **Fan On** icon  
Indicates constant, continuous fan operation.  
When **Fan On** is not lit - indicates the fan will only operate when necessary to heat or to cool.



## Quick Start

### *During Setup and Programming:*

Press the **WARMER** or **COOLER** buttons to modify the selection.

Press the **MODE** button to advance and confirm through the setup steps.

### *Setting the Clock and Day*



Press the SET CLOCK button. Adjust the clock using the WARMER or COOLER buttons. Press MODE to advance to the day setting. Adjust the day using the WARMER or COOLER buttons. Press the SET CLOCK button to confirm settings.

**TIP:** To adjust the time by hours press and hold the FAN button while pressing the WARMER or COOLER buttons.

### *Selecting the Heat or Cool Mode*

Select mode by pressing the **MODE** button.



**Heating Only** - The HEAT setting indicates the temperature the room has to reach before the heat pump will turn on to heat the room.

**Cooling Only** - The COOL setting indicates the temperature the room has to reach before the heat pump will turn on to cool the room.

**Heating or Cooling (Auto-Changeover)** - AUTO will automatically select heat or cool based on room temperature demand.

**OFF** - OFF indicates both heating and air conditioning systems are turned off.

## Quick Start

### Selecting Your Desired Temperature

**AUTO-CHANGEOVER MODE** - Pressing the WARMER or COOLER buttons in Auto or Program mode will adjust **both** the heat and cool setpoints simultaneously. To adjust heat and cool setpoints individually, choose HEAT mode to adjust the heat setpoint and COOL mode to adjust the cool setpoint, then return to AUTO mode.

**HEAT OR COOL MODE** - Pressing the WARMER or COOLER buttons in Heat or Cool mode will adjust only the heat **or** cool setpoints individually displayed.

### Using the Fan Button



Fan Program indicates programmed fan operation.

You may turn the fan on even if the thermostat is in the OFF mode. Pressing the FAN button toggles this feature on or off.

### Viewing the Outdoor and Remote Temperature Sensors

**OUTDOOR TEMP** - Press the OUTDOOR button to view the current outdoor temperature. The high and low temperatures for the day will also be displayed. The high and low temperatures reset at 12:00 am. Press the OUTDOOR button again to display POOL or SPA temperature sensors. Keep pressing the OUTDOOR button to return to normal operation.



**Note:** If no outdoor sensor is connected, 2 dashes [- -] will appear with the first button press.

**REMOTE TEMP** - Press the ACCSRY button to enter the accessory setup screen. Press the WARMER button to view linked wireless and wired sensors and other accessories. Press the ACCSRY button to return to the main screen.



### Viewing the Indoor Humidity Sensor\*(This feature not available on all models)

**IMPORTANT:** Allow at least 2 minutes after the thermostat is powered on for the humidity to read correctly.



Press the HUMIDITY button to display the current humidity measured at the thermostat. The room relative humidity is displayed in the top left corner. The humidification setpoint appears in the larger center display and can be adjusted using the WARMER or COOLER buttons. Press the HUMIDITY button again to view and adjust the dehumidification setpoints. Press the HUMIDITY button again to confirm settings and return to normal operation.

**Note:** Due to variations in environmental conditions, it is not always possible to achieve the desired humidification or dehumidification setpoint.

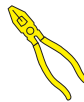
## *Installation Instructions*

### *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 Heat Pump 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 heat pump.



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.



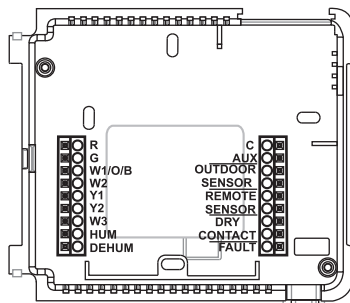
Disconnect the wires from the old thermostat. Tape the ends of the wires as you disconnect them, and mark them with the letter of the terminal for easy reconnection to the new thermostat.



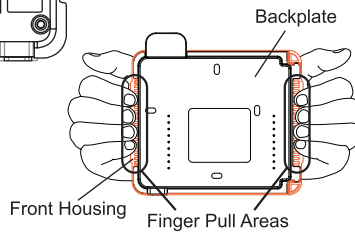
Keep the old thermostat for reference purposes, until your new thermostat is functioning properly.

# Installation Instructions

## Thermostat Backplate



To remove the thermostat backplate: Using the Finger Pull Areas, pull the front housing away from the backplate.



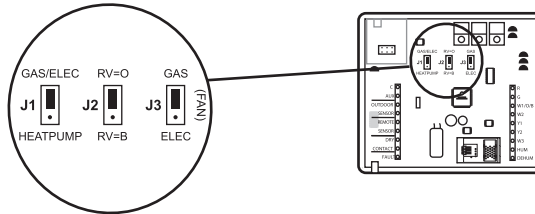
<b>R</b>	24 VAC return	<b>C</b>	24 VAC common
<b>G</b>	Fan relay	<b>AUX</b>	Aux output
<b>W1/O/B</b>	Reversing valve "O"	<b>OUTDOOR SENSOR</b>	Outdoor sensor connections
<b>W2</b>	Aux/Emergency heat	<b>REMOTE SENSOR</b>	Remote sensor connections
<b>Y1</b>	1st stage compressor relay	<b>DRY CONTACT</b>	Dry contact connections
<b>Y2</b>	2nd stage compressor relay	<b>FAULT</b>	Fault input
<b>W3</b>	Not used		
<b>HUM</b>	Humidifier control circuit		
<b>DEHUM</b>	Dehumidifier control circuit		



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



## Installation Instructions



### Explanation of Thermostat Jumpers

Jumpers are located on the back of the thermostat



**J1**  GAS/ELEC OR  GAS/ELEC  
HEATPUMP HEATPUMP  
Factory default setting is Heat Pump. The Gas/Elec feature is not available on this thermostat.

**J2**  RV=O OR  RV=O  
RV=B RV=B  
This jumper (J2) must be set to control the appropriate reversing valve. If RV=O is chosen, the W1/O/B terminal will energize in cooling. If RV=B is chosen, the W1/O/B terminal will energize in heating.

**J3**  GAS (FAN) OR  GAS (FAN)  
ELEC ELEC  
This jumper (J3) 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 jumper for GAS. On Dual Fuel systems, the compressor will operate for 60 seconds once the fossil fuel heat source has been engaged. When ELEC is chosen, up to two stages of auxiliary strip heat will be allowed to run.

## *Installation Instructions*

### *Sample Wiring Diagrams*

#### Heat Pump Systems

##### 6 Wire, 1 Stage Cooling, 1 Stage Heat Residential & Commercial Heat Pump with 'O' Reversing Valve

R 24VAC Power  
C 24VAC Common  
W1/O/B Reversing Valve  
Y1 1st Stage Compressor  
(Cool or Heat)  
G Fan  
L Fault  
J1 = Heat Pump  
J2 = O  
J3 = Gas

##### 7 Wire, 1 Stage Cooling, 2 Stage Heat Residential & Commercial Heat Pump with 'O' Reversing Valve

R 24VAC Power  
C 24VAC Common  
W1/O/B Reversing Valve  
Y1 1st Stage Compressor  
(Cool or Heat)  
W2 Aux Heat  
G Fan  
L Fault  
J1 = Heat Pump  
J2 = O  
J3 = Electric

##### 8 Wire, 2 Stage Cooling, 3 Stage Heat Residential & Commercial Heat Pump with 'O' Reversing Valve.

R 24VAC Power  
C 24VAC Common  
W1/O/B Reversing Valve  
W2 3rd Stage Heat  
Y1 1st Stage Compressor  
(Cool or Heat)  
Y2 2nd Stage Compressor  
(Cool or Heat)  
G Fan  
L Fault  
J1 = Heat Pump  
J2 = O  
J3 = Electric

Setup Step 24 is set to 2  
(Number of Compressor Stages)

##### 9 Wire, 2 Stage Cooling, 4 Stage Heat Residential & Commercial Heat Pump with 'O' Reversing Valve.

R 24VAC Power  
C 24VAC Common  
W1/O/B Reversing Valve  
W2 3rd Stage Heat  
W3 4th Stage Heat  
Y1 1st Stage Compressor  
(Cool or Heat)  
Y2 2nd Stage Compressor  
(Cool or Heat)  
G Fan  
L Fault  
J1 = Heat Pump  
J2 = O  
J3 = Electric

Setup Step 24 is set to 2  
(Number of Compressor Stages)

# Installation Instructions

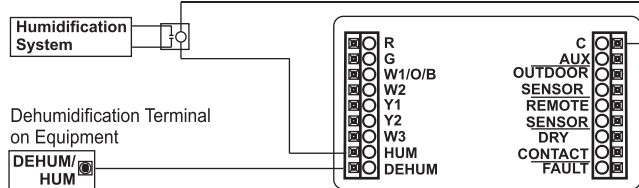
## Sample Wiring Diagrams

### Heat Pump Systems with Dual Fuel

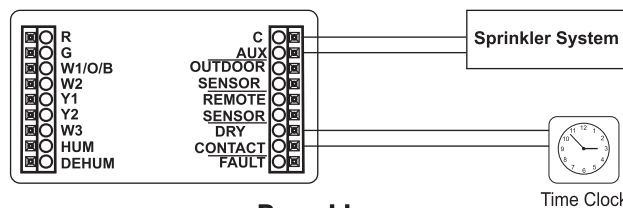
**8 Wire, 2 Stage Cooling, 3 Stage Heat**  
Residential & Commercial Heat Pump with  
'O' Reversing Valve and Fossil Fuel furnace.

R	24VAC Power	J1 =	Heat Pump
C	24VAC Common	J2 =	O
W1/O/B	Reversing Valve	J3 =	GAS
W2	3rd Stage Heat (connected to furnace)	Setup Step 24 is set to <u>2</u>	(Number of Compressor Stages)
Y1	1st Stage Compressor (Cool or Heat)	Setup Step 46 is set to ON.	(Dual Fuel On, Off, or External)
Y2	2nd Stage Compressor (Cool or Heat)		
G	Fan		
L	Fault		

### Humidification or Dehumidification



### Dry Contact and Aux Output



## *Installation Instructions: Test Operation*

This thermostat has a diagnostic feature that enables testing of all outputs. This feature is contained in **Technician Setup**.

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*To enter Technician Setup, press and hold the **SETUP** button for 5 seconds until all the icons appear. Follow the next steps to view settings and test equipment.*

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1. Press MODE to view the version numbers of the thermostat.
2. Press MODE again to view the jumper settings and current state of the Dry Contact and Fault terminals.
3. Press MODE again and the scrolling display will read "TURN ON EQUIPMENT?" Press WARMER for Yes or COOLER for No.  
If Yes is chosen, press WARMER to turn on heat or COOLER to turn on Cooling. The scrolling display will read "NOTHING ON." Next:  
Press WARMER to turn on and cycle up through the heating stages.  
Press COOLER to turn the heating stages off. Press MODE to exit.  
Press COOLER to turn on and cycle down through the cooling stages.  
Press WARMER to turn the cooling stages off. Press MODE to exit.
4. Press MODE until "CALIBRATE SENSORS?" appears on the scrolling display. Press WARMER for Yes or COOLER for No. Press MODE to select which sensor to calibrate. Use WARMER or COOLER to modify your selection.
5. Press MODE until "CONTROL HUM?" appears on the scrolling display. Press WARMER for On or COOLER for Off. Press MODE to continue.
6. Press MODE until "CONTROL DEHUM?" appears on the scrolling display. Press WARMER for On or COOLER for Off. Press MODE to continue.
7. Press MODE until "CONTROL AUX OUT?" appears on the scrolling display. Press WARMER for On or COOLER for Off. Press MODE to exit.

*To exit Technician Setup at any time, press the **SETUP** button. Technician Setup will automatically exit after 10 minutes if no buttons are pressed.*



## *User Setup: Backlight Operation*

### *How to Change Settings in the Setup Screens*

To enter Advanced Setup, press the **SETUP** button, then press **MODE**. Use the **WARMER** or **COOLER** buttons to adjust the value of your selection. Press **MODE** to advance to the next setup step. Press **SETUP** again to leave the setup screens.



### *Backlight (Setup Step 3)*

The thermostat backlight may be set to be always on, on temporarily with any button press, on throughout the evening, or always off. (For always off, see Backlight Level)

Press the **SETUP** button, then press **MODE** repeatedly until the Backlight setup step appears. Use the **WARMER** or **COOLER** buttons to make selection. Press **MODE** to advance to the next step. Press **SETUP** to leave the setup screens.

**Backlight Off** - Backlight turns on with any button press and turns off after 8 seconds.

**Backlight On** - Backlight is on continuously.

**Backlight 6pm to 6am** - Backlight turns on at 6pm and turns off at 6am.

### *Backlight Level (Setup Step 4)*

The backlight can be adjusted between always off and seven levels of brightness.

Press the **SETUP** button, then press **MODE** repeatedly until the Backlight setup step appears. Use the **WARMER** or **COOLER** buttons to adjust the brightness. Press **MODE** to advance to the next step. Press **SETUP** to leave the setup screens.

### *Language (Setup Step 16)*

Setup step instructions on the scrolling display can be set for English, Spanish, or French.

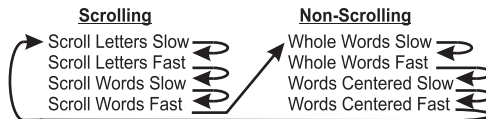
Press the **SETUP** button, then press **MODE** repeatedly until the Language setup step appears. Use the **WARMER** or **COOLER** buttons to make selection. Press **MODE** to advance to the next step. Press **SETUP** to leave the setup screens.

**NOTE:** See Advanced Setup Table for factory default settings.

## User Setup: Scrolling Screen and Display Options

### Scrolling Display Method (Setup Step 17)

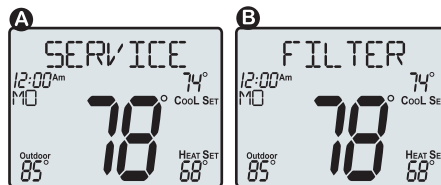
This option allows the user to choose how the scrolling text is displayed. Options are:



Press the **SETUP** button, then press **MODE** repeatedly until the Scrolling Method setup step appears. Use the **WARMER** or **COOLER** buttons to make selection. Press **MODE** to advance to the next step. Press **SETUP** to leave the setup screens.



Example of "Whole Words Centered":



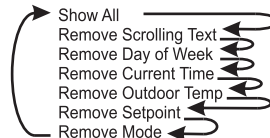
### Display

This option allows the user to "de-clutter" the thermostat display screen by removing icons from the main display. The room temperature will always be shown. Service information may also be viewed by pressing and holding the **DISPLAY** button.

Each press of the **DISPLAY** button will remove icons. Keep pressing **DISPLAY** to make icons reappear.



Press and hold **DISPLAY** for 5 seconds to view a name and phone number to call for service.



Any removed icons will be displayed temporarily when a setting change is made.

## User Setup

(This feature not available on all models)

### Vacation



VACATION

*The Vacation feature allows the thermostat to use temporary, energy saving setpoints without having to change regular programming.*

Press the VACATION button to enter Vacation programming. Use the WARMER and COOLER buttons to choose the number of days desired to run the Vacation feature. To confirm your settings and advance to the next step, press the VACATION button again. Choose the desired Vacation Cool setpoint. Press VACATION. Choose the desired Vacation Heat setpoint. Press VACATION again to return to the main screen. When the thermostat is programmed for Vacation mode, and it is in the Program On mode, it will take effect at 12:00 am of the next day. To turn off Vacation mode, set the number of days to 0.

### Emergency Heat



EMERGENCY

*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 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 button.

### Accessory



ACCSRY

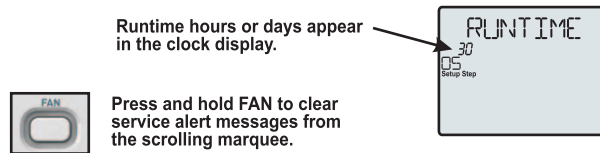
*The optional RF Module must be installed to link and view wireless accessories.*



The ACCSRY button allows the user to view wired and wireless sensors and "link" these and other wireless devices to the thermostat via an optional RF module. Press the ACCSRY button to enter the Accessory setup screen. Press WARMER to view linked and wired accessories. Follow the instructions included with the wireless accessory to begin linking process. Next, press COOLER to enter the wireless linking mode. Press MODE to initiate linking. Press ACCSRY to return to the main screen. **NOTE:** A wired outdoor sensor's temperature reading is updated once every minute; a wireless outdoor sensor's temperature reading is updated once every 5 minutes.

## User Setup: System Runtimes

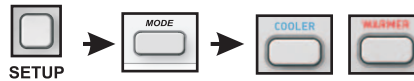
These setup steps allow the user to monitor equipment runtimes and program service alerts. Service alerts are displayed in the scrolling marquee.



### Service Filter Runtime (Setup Steps 5-6, 12-13)

(This feature not available on all models)

Press the SETUP button, then press MODE repeatedly until the desired setup step appears. Use the WARMER or COOLER buttons to make selection. Press MODE to advance to the next step. Press SETUP to leave the setup screens.



**Current Service Filter Runtime Hours (Setup Step 5)** - This counter keeps track of the number of hours of fan runtime in the Heating mode, Cooling mode, and in stand alone Fan operation. Press FAN to reset.

**Current Service Filter Calendar Days (Setup Step 6)** - This counter displays the total number of calendar days that have elapsed since the counter was reset to help the user track Fan runtime. Press FAN to reset.

**Set Service Filter Runtime Hours (Setup Step 12)** - This timer allows the user to specify the number of hours the fan will run before the "Replace Filter" alert will be displayed. Press COOLER continuously until OFF is displayed to disable this alert.

**Set Service Filter Calendar Days (Setup Step 13)** - This timer allows the user to specify the number of calendar days that will elapse before the "Replace Filter" alert will be displayed. Press COOLER continuously until OFF is displayed to disable this feature.

## *User Setup: System Runtimes*

To view, set, or reset System Runtimes, press the **SETUP** button, then press **MODE**. Press **MODE** to advance to the desired setup step. Use the **WARMER** or **COOLER** buttons to adjust the value of your selection. Press **SETUP** again to leave the setup screens.

### *Heating and Cooling System Runtime - Energy Watch (Setup Steps 7 -9)* (This feature not available on all models)

**Current Heat Runtime Hours (Setup Step 7)** - This counter keeps track of the number of hours the system has run in Heating. Press **FAN** to reset.

**Current Aux Strip Heat Runtime Hours (Setup Step 8)** - This counter keeps track of the number of hours the system has run in Auxiliary Heating. This setup step is only available when the thermostat jumpers are configured for Heat Pump and Electric Heat. Press **FAN** to reset.

**Current Cool Runtime Hours (Setup Step 9)** - This counter displays the number of hours the system has run in Cooling. Press **FAN** to reset.

### *UV Lamp Runtime (Setup Steps 10, 14)*

(This feature not available on all models)

**Current UV Lamp Calendar Days (Setup Step 10)** - This counter displays the total number of calendar days that have elapsed to help the user track UV lamp runtime. Press **FAN** to reset.

**Set UV Lamp Calendar Days (Setup Step 14)** - This timer allows the user to specify the number of calendar days the UV Lamp will operate before the "Replace UV Lamp" alert will be displayed. Press **COOLER** continuously until **OFF** appears to disable this alert.

### *Humidifier Runtime (Setup Steps 11, 15)*

(This feature not available on all models)

**Current Humidifier Calendar Days (Setup Step 11)** - This counter displays the total number of calendar days that have elapsed to help the user track the Humidifier runtime. Press **FAN** to reset.

**Set Humidifier Calendar Days (Setup Step 15)** - This timer allows the user to specify the number of calendar days the Humidifier will run before the "Service Humidifier" alert will be displayed. Press **COOLER** continuously until **OFF** appears to disable this alert.

## User Setup: Time Period Programming

To enter Time Period Programming screens, Press and hold PROGRAM until the scrolling prompt appears.



**OFF** - Time Period Program is off.

**RUN** - Time Period Program is running.

**HOLD TO SET** - Press and hold PROGRAM to make Time Period Programming changes.

### Programming a Daily Schedule

**Select Day of Week to program** - Press the WARMER or COOLER buttons to choose the day of the week to be programmed. Press Mode to advance to the next step.



**This thermostat features 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.**

**Select Morning Start Time** - Press the WARMER or COOLER buttons to adjust the time of day desired. Press MODE to advance to the next step.

**Select Morning Cool Setpoint** - Press the WARMER or COOLER buttons to adjust the cool setpoint desired. Press MODE to advance to the next step.

**Select Morning Heat Setpoint** - Press the WARMER or COOLER buttons to adjust the heat setpoint desired. Press MODE to advance to the next step.

**Repeat Start Time and Setpoint programming for Day, Evening, and Night.**

**Copy Current Day to Next** - Press the WARMER button to Copy the current day's program to another day. Press the WARMER or COOLER buttons to choose which day to copy to. Press MODE to confirm. Continue to press MODE to copy to more days. Press the COOLER button to program another day with a different schedule.

**Program Another Day** - Press the COOLER button to choose to program another day with a different schedule. Press MODE. Press the WARMER or COOLER buttons to choose the desired day. Press MODE to advance to the next step.

**Press the PROGRAM Button to exit Time Period Programming**

## Installer Setup

### How to Change Settings in the Setup Screens

To enter Advanced Setup, press the **SETUP** button, then press **MODE**. Use the **WARMER** or **COOLER** buttons to adjust the value of your selection. Press **MODE** to advance to the next setup step. Press **SETUP** again to leave the setup screens.



### Selecting Your Program Mode (Setup Step 1)

This thermostat may be configured to be programmable or non-programmable.

**7 Day Program** - Allows all seven days to be programmed independently.

**Non Program** - No advanced time period programming available.

**1 Day Program** - Allows one 24 hour day to be programmed. This same schedule will be repeated everyday the program is set to run.

**5/2 Day Program** - Allows weekdays and weekends to be programmed independently.

### Selecting Your Available Modes (Setup Step 2)

**Auto-Changeover** - Allows the thermostat to turn on heating or cooling based on room temperature demand. Also allows the manual selection of HEAT only or COOL only and OFF.

**Heat and Cool** - Allows the thermostat to turn on heating or cooling depending on which one has been manually selected. Auto-Changeover is not available when this is selected.

**Heat Only** - Allows the thermostat to only turn on HEAT or OFF modes.

**Cool Only** - Allows the thermostat to only turn on COOL or OFF modes.

## *Installer Setup*

### *Setpoint Limits (Setup Step 18)*

(This feature not available on all models)

When this feature is set to ON, the heat and cool setpoints can be restricted to preset levels, set in steps 19 and 20.

**Maximum Heat Setpoint (Setup Step 19)** - (35° - 99°).

**Minimum Cool Setpoint (Setup Step 20)** - (35° - 99°).

### *Cycles Per Hour (Setup Step 21)*

The Cycles Per Hour setting may limit the number of times per hour your HVAC unit may energize. For example, at a setting of 6 cycles per hour the HVAC unit will only be allowed to energize once every 10 minutes. The Cycles Per Hour limit may be overridden and reset by pressing the WARMER or COOLER buttons on the thermostat. Settings are No Limit, 2, 3, 4, 5, or 6.

### *Compressor Minimum Off Minutes (Setup Step 22)*

This feature allows the user to set a minimum off time for the compressor. Settings are 5 mins., 3 mins., or 0 mins.

### *Minimum Heat/Cool Setpoint Difference (Setup Step 23)*

This feature allows the user to set the minimum gap between Heat and Cool setpoints in **AUTO** mode. Select from 0 to 6. If setup step 2 is not set for **AUTO-CHANGEOVER**, this step will not appear.

### *Number of Compressor Stages (Setup Step 24)*

*This feature is for heat pump application only.*

This feature allows the thermostat to control 1 or 2 compressor stages when configured for heat pump. **NOTE: When step 50 (Dual Fuel) is set to ON or EXTERNAL, this step will not appear and Compressor Stages will automatically be set to 2.**



## *Installer Setup*

### *Deadband Settings (Setup Steps 25 - 34)*

The Deadband is the number of degrees or minutes that the thermostat waits before it initiates the stages of heating or cooling.

**1st Stage Deadband (Setup Step 25)** - Specifies the minimum temperature difference between the room temperature and the desired setpoint before the first stage of heating or cooling is allowed to turn on. (1 - 6 degrees) For example, if the heat setpoint is 68 and the 1st Stage deadband is set to 2 degrees, the room temperature will need to reach **66 degrees** before the heat turns on.

**2nd Stage Deadband (Setup Step 26)** - Specifies the additional minimum temperature difference after the first stage turns on before the second stage is activated. (0° - 10°)

**3rd Stage Deadband (Setup Step 27)** - Specifies the additional minimum temperature difference after the second stage turns on before the third stage is activated. (0° - 10°)

**4th Stage Deadband (Setup Step 28) - (Two Stage heat pump only)** - Specifies the additional minimum temperature difference after the third stage turns on before the final stage of strip heat is activated. (0° - 10°)

**Minutes Between 1st and 2nd Stage (Setup Step 29)** - Specifies the *minimum* time (in minutes) after the first stage turns on before the second stage can turn on. (0 - 60)

**Minutes Between 2nd and 3rd Stage (Setup Step 30)** - Specifies the *minimum* time (in minutes) after the second stage turns on before the third stage can turn on. (0 - 60)

**Delay Between 3rd and 4th Stage (Setup Step 31)** - Specifies the *minimum* time (in minutes) after the third stage turns on before the final stage can turn on. (0 - 60)

**Second Stage on Until Deadband (Setup Step 32)** - Specifies whether second stage will turn off at first stage deadband or remain on until the room temperature demand is satisfied. Choose between Deadband or Setpoint.

**Third Stage on Until Deadband (Setup Step 33)** - Specifies whether third stage will turn off at second stage deadband or remain on until the room temperature demand is satisfied. Choose between Deadband or Setpoint.

**Fourth Stage on Until Deadband (Setup Step 34)** - Specifies whether fourth stage will turn off at third stage deadband or remain on until the room temperature demand is satisfied. Choose between Deadband or Setpoint.

## *Installer Setup*

### *Programming the Fan (Setup Steps 35 - 38)*

(This feature not available on all models)

**Fan Program (Setup Step 35)** - This feature allows the fan to be programmed to turn on automatically for a specified period during the day. If this feature is set to ON, the next three steps will appear. **NOTE:** This feature is disabled when thermostat mode is OFF.

**Minutes Of Fan Runtime Per Hour (Setup Step 36)** - This setting specifies the number of minutes (0 - 60, in increments of 5) that the fan will run at the top of each hour.

**Fan Program Start Time (Setup Step 37)** - This setting specifies the hour of each day when the programmable fan feature will start.

**Fan Program Stop Time (Setup Step 38)** - This setting specifies the hour of each day when the programmable fan feature will stop. **NOTE:** Setting the Stop Hour equal to the Start Hour will cause the fan to run 24 hours a day.

### *Fan Off Delay in Seconds (Setup Step 55)*

(This feature not available on all models)

This feature allows the user to increase the cooling or electric strip heating efficiency of the system. The thermostat may be programmed to continue running the fan after a call for cooling or electric strip heating has been satisfied. This delay can be set for 0, 30, 60, 90, or 120 seconds. If set to 0, the fan will not run after a call for cooling or electric strip heating has been satisfied.

### *Comfort Recovery (setup step 69)*

(This feature not available on all models)

With Comfort Recovery on, the thermostat will attempt to reach the Morning setpoint temperature at the exact time programmed into the thermostat. Comfort Recovery, only works when the thermostat enters the Morning mode from the Night mode. For example, if the Night program is set for 11pm at 65°F heating and 85°F cooling, and the Morning program is set for 6am at 72°F heating and 75°F cooling, the thermostat will turn the system on before 6am in an effort to bring the temperature to its correct setting at exactly 6am. The thermostat learns from experience, so please allow 4-8 days after a program change or after initial installation to give Comfort Recovery time to adjust. If used with a heat pump, electric strip heat will be disabled while Comfort Recovery is active.

## *Installer Setup*

### ***Humidity and Dehumidity (Setup Steps 40 -45, 70-71)***

(This feature not available on all models)

**Humidity Only With Heat (Setup Step 40)** - When this step is set to ON, Humidity will not run without a demand for Heat.

**Fan With Humidity Demand (Setup Step 41)** - Specifies if the fan should be turned on with a demand for Humidity. (This step will only appear if step 40 is set to OFF.)

**Humidity Setpoints (Setup Step 42)** - Specifies whether the Humidity setpoint should be entered by the user (MANUAL) or determined automatically by outdoor temperature (AUTO). An outdoor temperature sensor is required for the AUTO setting. If the outdoor temperature sensor stops reading while this step is set to AUTO, the Humidity setpoint will revert automatically to a setting of 15 percent.

**Cool To Dehumidify (Setup Step 43)** - Specifies if the cooling equipment is allowed to turn on exclusively to lower room humidity. (If set to OFF, the following two steps will not appear.)

**Max Dehum Overcool (Setup Step 44)** - Specifies how many degrees below the Cool setpoint the air conditioning will run to satisfy a Cool to Dehumidify demand. (0° - 5°)

**Reheat Operation With Cool To Dehumidify (Setup Step 45)** - Specifies if electric strip heat is allowed to turn on during a Cool to Dehumidify demand to help maintain desired room temperature. This step is not available if Electric Heat is not present.

**NOTE:** This must be left in the OFF position.

#### **HUM Output Polarity (Setup Step 73)**

**Open (Normally Open)** means no voltage is sent to the HUM output when there is no demand for humidity.

**Closed (Normally Closed)** means voltage is sent to the HUM output when there is no demand for humidity.

#### **DEHUM Output Polarity (Setup Step 74)**

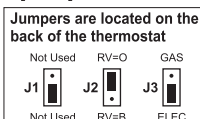
**Open (Normally Open)** means no voltage is sent to the DEHUM output when there is no demand to dehumidify.

**Closed (Normally Closed)** means voltage is sent to the DEHUM output when there is no demand to dehumidify.

## Installer Setup

### Auxiliary Heat Lockout (Setup Steps 48 -49)

This feature allows the auxiliary heat for a heat pump (W2 and W3) to be locked out above a specific outdoor temperature. These steps will only appear if the thermostat jumper J3 is set for **Electric Heat**.



**Lockout Aux Heat With Outdoor Temp (Setup Step 48)** - When set to ON, the Aux Heat Lockout feature is enabled. When set to OFF, Auxiliary Heat will stage normally.

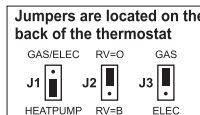
**Aux Heat Lockout Temp (Setup Step 49)** - (20° - 75°) This step allows the user to set the temperature at which Auxiliary Heat will be locked out. Adjustable from 20 to 75 degrees Fahrenheit.

### Dual Fuel (Setup Steps 50 - 54)

(This feature not available on all models)

**This feature is for heat pump applications only.**

Steps 50 - 54 will only appear if the thermostat jumper J3 is set for **Gas Heat**.



**Dual Fuel On, Off, or External (Setup Step 50) - On** - Tells the thermostat an outdoor temperature or a demand for third stage heat will be used to stop running the heat pump and only run a fossil fuel source of heat. **NOTE:** Once the change to fossil fuel is made, the heat demand must finish with fossil fuel. **External** - This setting allows the use of an external fossil fuel kit. This may be a third party fossil fuel kit or part of the heat pump control.

**CAUTION** - this setting will allow the heat pump and fossil fuel source to run at the same time unless an external fossil fuel kit is properly installed. (If External is chosen setup steps 53 - 54 will not have any effect.)

**Setup steps 53-54 will only appear if step 50 is set to ON.**

**Dual Fuel Balance Point (Setup Step 53)** - (5° - 60°) Specifies the outdoor temperature at which the heat pump will cease operating and a fossil fuel source of heat is used. If an outdoor sensor is not installed, the compressor will be disabled after 60 seconds and fossil fuel will satisfy the heat demand. Upon the next heat call, heat pump will be energized.

**Dual Fuel Changeover Delay (Setup Step 54)** - (60 seconds) Specifies the number of seconds the heat pump is allowed to continue running after a fossil fuel heat source has been engaged.

## *Installer Setup*

### *Control To Temp Source (Setup Step 39)*

(This feature not available on all models)

This feature allows the user to specify which temperature sensor source the thermostat will use to measure room temperature. **Thermostat:** Uses the internal thermostat sensor only. **Remote Sensor:** Uses wireless or wired sensors only. **Average Of Remote Sensor And Thermostat:** Averages the temperatures of the remote sensor(s) and the thermostat. **NOTE:** If a remote sensor is being used, the degree icon on the large room temperature display will blink.

### *Fahrenheit or Celsius (setup step 56)*

This feature allows the thermostat to display temperature in Fahrenheit or Celsius.

### *Fault Type (setup step 72)*

This step allows the FAULT terminal on the thermostat to be configured for two different settings:

**NONE** - Scrolling display shows 'FAULT' when a fault signal is active.

**ComforTalk**- Scrolling display shows a code describing the lockout. **NOTE:** Heat pump control must also be configured for ComforTalk (pulsed).

## *Installer Setup*

### *Auxiliary Output*

(This feature not available on all models)

This thermostat is equipped with a programmable auxiliary output. This output can be configured to be controlled from a variety of sources.

*Aux Output Polarity (Setup Step 57)* - Specifies if the Auxiliary output will be **Open** (Normally Open) or **Closed** (Normally Closed).

*Aux Output (Setup Step 58)* - Specifies which source will control the Aux output. Choices are:

**Time** - Uses the internal clock of the thermostat.

**Temp** - Uses one of three temperature sources.

**External** - The Auxiliary Output is controlled from an external accessory source, like Comfort Call.

**Error** - Uses the thermostat's error processing to signal an active error condition.

**Free Cooling** - Drives a damper to bring fresh air in from outdoors.

**Venting** - Drives a damper to exhaust inside air to the outside.

### *Auxiliary Output Programming By Time*

If **TIME** is selected for the Aux Output, the following setup steps will appear:

**Aux Output Days (Setup Step 59)** - Specifies if the Aux Output will be single day (1 DAY), weekday/weekend (5/2 DAY), or seven day (7 DAY) programmable.

**Day Of Week To Program (Setup Step 60)** - Specifies which day of week to program.

**Aux Output Start Time (Setup Step 61)** - Specifies the time of each day when the Aux output will turn on.

**Aux Output Stop Time (Setup Step 62)** - Specifies the time of each day when the Aux output will turn off.

**Copy (Setup Step 63)** - This step only appears if Aux Output Days (Setup Step 59) is set for 7 programmable output days.

## *Installer Setup*

### *Auxiliary Output Programming By Temp*

If TEMP is selected for the Aux Output, the following setup steps will appear:

**Aux Output Temp Source (Setup Step 64)** - Specifies what temperature source will be monitored for controlling the programmable output. The options are:

**Thermostat** - Temperature is monitored from the thermostat sensor.

**Outdoor Sensor** - Temperature is monitored from the Outdoor temperature sensor.

**Wired Remote** - Temperature is monitored from a wired sensor connected to the Remote Sensor terminals.

**External** - The Auxiliary Output is controlled from an external accessory source.

**Aux Output Trigger Point Temp (Setup Step 65)** - Specifies the temperature from the above selected source above which the Aux Output is triggered. A non-adjustable two degree deadband is applied to avoid frequent triggering. The 'N.O.' (Normally Open) or 'N.C.' (Normally Closed) function (Setup Step 57) can be altered to make the output trigger below the set temperature. Temps are adjustable from 0 - 120 degrees Fahrenheit.

**Aux Output Error Level (Setup Step 66)** - When the Aux Output is set for ERROR, three choices of error levels exist:

**Level 1** - Aux Output is active if a Critical, Alarm, or Alert error is present.

**Level 2** - Aux Output is active if a Critical or Alarm error is present.

**Level 3** - Aux Output is active only if a Critical error is present.

**Critical Error** - Service or immediate attention is required.

**Alarm Error** - Service or immediate attention is recommended.

**Alert Error** - Runtimes, Low Battery on wireless remote sensors, etc.

### *Press Fan To Clear All Messages (setup step 75)*

This feature allows the user to clear all current error messages from the display.

## Installer Setup

### **Free Cooling (Setup Steps 67 - 68)** To use Free Cooling, Setup Step 58 must be set to 'FREE COOLING'.

Free Cooling is an energy saving way to boost the efficiency of your air conditioning system by bringing in fresh air from the outside. The installation of a Free Cooling damper and outdoor temperature sensor may also be required.

**Free Cooling With A/C (Setup Step 67)** - When the Aux Output is being used for Free Cooling and an air conditioning system is present, set this step to **ON**. Fresh, outside air may be used for first stage cooling in place of your air conditioner. If your system does not have an air conditioner installed, set this step to **OFF**. This will enable all stages of cooling to use only the Free Cooling damper.

**Free Cooling Usable Temp (Setup Step 68)** - This step allows the user to specify the outdoor temperature below which Free Cooling can be utilized. For example, if this step is set for 65 degrees, Free Cooling will be used until the outdoor temp rises above 65. Temps are adjustable from 40 to 80 degrees Fahrenheit.

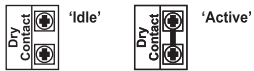
### **Venting** To use Venting, Setup Step 58 must be set to 'VENTING'.

The Venting feature allows your HVAC system to exhaust air from inside to the outside, when there is a cooling call. Press FAN twice to activate Venting. While Venting is active, heating and cooling are disabled. The installation of a Venting damper will be required.

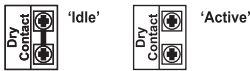
## Dry Contact Operation (setup step 70 - 71)

### Dry Contact Polarity (Setup Step 70)

**Open (Normally Open)** - The dry contact is open until the connected device closes the circuit.



**Closed (Normally Closed)** - The dry contact is closed until the connected device opens the circuit.



### Dry Contact Use (Setup Step 71)

**PAN** - If PAN is selected when the dry contact is active, the thermostat will lockout the compressor terminal(s) and "SERVICE DRAIN PAN" will appear on the display.

**VACATION** - If VACATION is selected when the dry contact is active, the thermostat will be forced into Vacation Mode.



## Installer Setup

### Resetting the Thermostat to the Factory Default Settings (for default values see Advanced Setup Table)

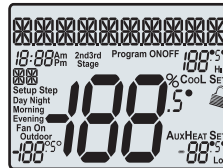
If, for any reason, you desire to return all the stored settings back to the factory default settings, follow the instructions below.

**WARNING: This will reset all Time Period and Advanced Programming to the default settings. Any information entered prior to this reset may be permanently lost.**

- 1 Press and hold SETUP for 5 seconds. All icons will appear on the display.



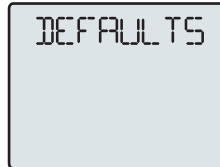
Keep pressing the SETUP button until you see this screen.



- 2 After all the icons appear, release SETUP. Press and hold FAN for 5 seconds. DEFAULTS will appear on the display.



Keep pressing the FAN button until you see this screen.




- 3 After DEFAULTS appears, release FAN. Press MODE to return to normal operation.

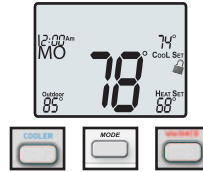



## Installer Setup

### Locking/Unlocking the Keypad

To prevent unauthorized use of the thermostat, the front panel buttons may be disabled. To disable, or 'lock' the keypad, press and hold the MODE button. While holding the MODE button, press the WARMER and COOLER buttons together. The  icon will appear on the display, then release the buttons.

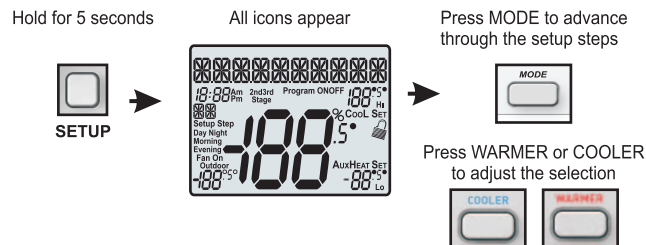
Press all three buttons in the order outlined above for keypad lockout →



To **unlock** the keypad, press and hold the MODE button. While holding the MODE button, press the WARMER and COOLER buttons together. The  icon will disappear from the display, then release the buttons.

## Technician Setup

To enter Technician Setup, press and hold the **SETUP** button for 5 seconds. After all the icons appear, press **MODE**. The version number of the thermostat will appear in the scrolling text. Press **MODE** to advance to the next step. Use the **WARMER** or **COOLER** buttons to adjust the value of your selection. To leave Technician Setup, press **SETUP**.



**Technician Setup is for diagnostic and testing purposes and is intended for use by a qualified technician. See page 12 for more detailed instructions.**

**Technician Setup contains the following options:**

- View the version number of the thermostat.
- View the jumper setting of **J2** (Reversing Valve: RV=O or RV=B) and **J3** (Fan: Gas or Electric) jumpers located on the back of the thermostat. (Remove thermostat from backplate for access)
- View the state of the Dry Contact and Fault terminals.
- Turn on equipment outputs for testing.
- Calibrate thermostat, remote, and humidity sensors.
- Control HUM output (On or Off)
- Control DEHUM output (On or Off)
- Control AUX output (On or Off)

### Advanced Setup Table

Df = Factory Default Setting

\*Not available on all models

Step#	Description	Pg#	Range	Df
1	Prog Mode	19	Non,1,5/2*,7*	Non
2	Available Modes	19	Heat/Cool/Auto/Off, Heat/Cool/Off,Heat/Off, Cool/Off	Heat/Cool/ Auto/Off
3	Backlight	13	On,Off,6pm-6am	6pm-6am
4	Backlight Level	13	Off - Max	-----
5	Current Service Filter Runtime Hours	16	0-1999	0
6	Current Service Filter Calendar Days	16	0-1999	0
7	*Current Heat Runtime Hours	17	0-1999	0
8	*Current Strip Heat Runtime Hours	17	0-1999	0
9	*Current Cool Runtime Hours	17	0-1999	0
10	Current UV Lamp Calendar Days	17	0-1999	0
11	*Current Humidifier Calendar Days	17	0-1999	0
12	Set Service Filter Runtime Hours	16	0-1950	0
13	Set Service Filter Calendar Days	16	0-720	0
14	Set UV Lamp Calendar Days	17	0-720	0
15	*Set Humidifier Calendar Days	17	0-720	0
16	Language	13	English,Espanol,Francais	English
17	Scrolling Method	14	L-R Slow,L-R Fast,Word L-R Slow,Word L-R Fast, Whole Word L Slow, Whole Word L Fast, Whole Word Ctr Slow, Whole Word Ctr Fast	Whole Word Ctr Fast
18	*Setpoint Limits	20	No,Use	No
19	*Max Heat Setpoint	20	35°-99°	74°
20	*Min Cool Setpoint	20	35°-99°	70°
21	Cycles Per Hour	20	No Limit,2,3,4,5,6	6
22	Compressor Minimum Off Minutes	20	0,3,5	0
23	Minimum Heat/Cool Setpoint Difference	20	0°-6°	2°
24	Number Of Compressor Stages	20	1,2	2
25	*1st Stage Deadband	21	1°-6°	1°
26	*2nd Stage Deadband	21	0°-10°	1°
27	*3rd Stage Deadband	21	0°-10°	1°
28	*4th Stage Deadband	21	0°-10°	2°
29	*Minutes Between 1st and 2nd Stage	21	0-60	5
30	*Minutes Between 2nd and 3rd Stage	21	0-60	5
31	*Minutes Between 3rd and 4th Stage	21	0-60	2
32	*2nd Stage Turnoff Point	21	Deadband,Setpoint	Deadband
33	*3rd Stage Turnoff Point	21	Deadband,Setpoint	Deadband

<b>Advanced Setup Table</b>		<b>Df = Factory Default Setting *Not available on all models</b>		
Step#	Description	Pg#	Range	Df
34	*4th Stage Turnoff Point	21	Deadband,Setpoint	Deadband
35	*Fan Program	22	On,Off	Off
36	*Minutes of Fan Runtime Per Hour	22	0-60	0
37	*Fan Program Start Time	22	12am-12am	7am
38	*Fan Program Stop Time	22	12am-12am	9pm
39	*Control to Temp Source	25	Tstat,Remote,Average	Tstat
40	*Humidity Only With Heat	23	On,Off	Off
41	*Fan With Humidity Demand	23	Fan on,Fan off	Fan Off
42	*Humidity Setpoints	23	Auto,Manual	Manual
43	*Cool To Dehumidify	23	Off,On	Off
44	*Maximum Dehum Overcool	23	0°-5°	2°
45	*Reheat Operation W/Cool To Dehumidify	23	On,Off (must be Off)	Off
48	*Lockout Aux Heat W/Outdoor Temp	24	On,Off	Off
49	*Aux Heat Lockout Temp	24	20°-75°	30°
50	*Dual Fuel	24	On,Off,External	Off
53	*Dual Fuel Balance Point	24	5°-60°	35°
55	*Fan Off Delay In Seconds	22	0,120	0
56	F/C	25	Fahrenheit,Celsius	F
57	*Aux Output Polarity	26	Open,Closed	Open
58	*Aux Output	26	Time,Temp,Ext.,Error, Free Cooling,Venting	Time
59	*Aux Output Program Days	26	1,5/2,7	1
60	*Day Of Week To Program	26	M-M	MTWTFSS
61	*Aux Output Start Time	26	12a-12a	7a
62	*Aux Output Stop Time	26	12a-12a	9p
63	*Copy	26	Yes,No	No
64	*Aux Output Temp Source	27	Tstat,Outdoor,Ctrl,Ext.	Ctrl
65	*Aux Output Trigger Point Temp	27	0°-120°	65°
66	*Aux Output Error Level	27	1-3	3
67	*Free Cooling With A/C	28	Without A/C,With A/C	With A/C
68	*Free Cooling Usable Temp	28	40°-80°	65°
69	*Comfort Recovery	22	On,Off	Off
70	Dry Contact Polarity	28	Open,Closed	Open
71	*Dry Contact Use	28	Pan,Vacation	Vacation
72	*Fault Type	25	None,Comfortalk	Comfortalk
73	*Humidity Polarity	23	Open,Closed	Open
74	*Dehumidify Polarity	23	Open,Closed	Open
75	Press Fan To Clear All Messages	27	N/A	N/A

## Troubleshooting



**SYMPTOM:** The heat pump does not attempt to turn on.

**CAUSE:** The compressor timer lockout may prevent the heat pump from turning on for a period of time.

**REMEDY:** Consult the Owner's Manual in the Installer Setup section to defeat the Cycles Per Hour (page 20).



**SYMPTOM:** The display is blank.

**CAUSE:** Lack of proper power.

**REMEDY:** Make sure the power is on to the heat pump and that you have 24vac between **R** & **C**.



**SYMPTOM:** The heat pump 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 20).



**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 20).



**SYMPTOM:** When controlling a residential heat pump, and asking for cooling, the heat comes on.

**CAUSE:** The thermostat reversing valve jumper is set for "**B**".

**REMEDY:** Set the reversing valve jumper for "**O**".



**SYMPTOM:** When the Program button is pressed, the display reads "DISABLED".

**CAUSE:** Program mode is set to "**NON PROGRAM**".

**REMEDY:** Set Program Mode (Setup 1) to **1**, **5/2**, or **7 Day**. See Selecting Your Program Mode (page 19).

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*Notes:*

*Notes:*



**Programming Worksheet**

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DAY	PERIOD	START TIME	COOL	HEAT
M O N D A Y	Morning			
	Day			
	Evening			
	Night			
T U E S D A Y	Morning			<i>Copy Mon → Tue</i>
	Day			<input type="checkbox"/> No
	Evening			<input type="checkbox"/> Yes
	Night			
W E D N E S D A Y	Morning			<i>Copy Tue → Wed</i>
	Day			<input type="checkbox"/> No
	Evening			<input type="checkbox"/> Yes
	Night			
T H U R S D A Y	Morning			<i>Copy Wed → Thu</i>
	Day			<input type="checkbox"/> No
	Evening			<input type="checkbox"/> Yes
	Night			
F R I D A Y	Morning			<i>Copy Thu → Fri</i>
	Day			<input type="checkbox"/> No
	Evening			<input type="checkbox"/> Yes
	Night			
S A T U R D A Y	Morning			<i>Copy Fri → Sat</i>
	Day			<input type="checkbox"/> No
	Evening			<input type="checkbox"/> Yes
	Night			
S U N D A Y	Morning			<i>Copy Sat → Sun</i>
	Day			<input type="checkbox"/> No
	Evening			<input type="checkbox"/> Yes
	Night			