

VENSTAR®

FAN COIL THERMOSTAT

FAN COIL
THERMOSTAT

T1075



7 DAY PROGRAMMABLE

2 OR 4 PIPE SYSTEMS

- 3 Occupied, 1 Unoccupied
- Override capable
- 3 speed fan control
- Auto 2-pipe changeover when used with accessory changeover sensor
- Dry contact equipped
- Backlit display
- Works with most fan coil systems - 24vac
- Electric heat ready
- Non-volatile memory
- Dual or single setpoint
- Keypad lockout
- Remote sensor ready
- Display F or C

OWNER'S MANUAL AND INSTALLATION INSTRUCTIONS

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CAUTION

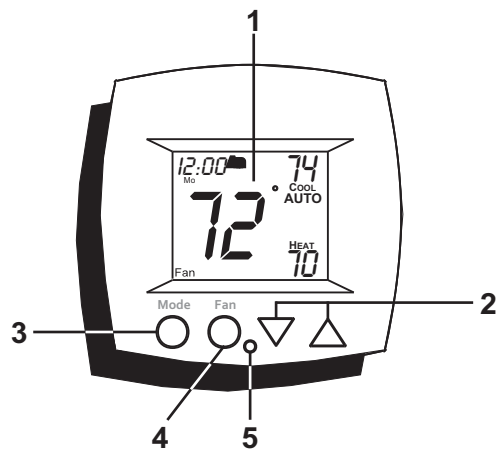
Disconnect Power
to the Heater/Air Conditioner
before removing the old therm-
ostat and installing the new
thermostat.

**WARNING**

Model T1075

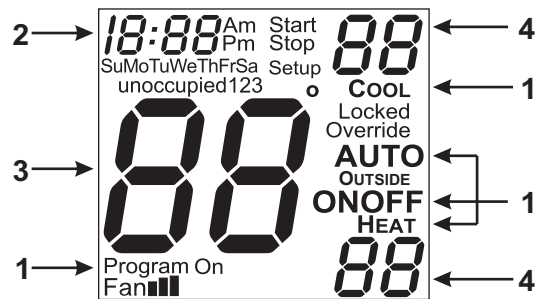
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Front Panel



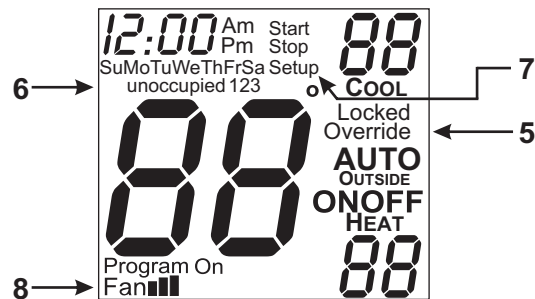
- 1 Liquid Crystal Display
- 2 Up/Down Buttons
- 3 Mode Button
- 4 Fan/Override Button
- 5 Heat or Cool Indicator
Heat = Red, Cool = Green

Display



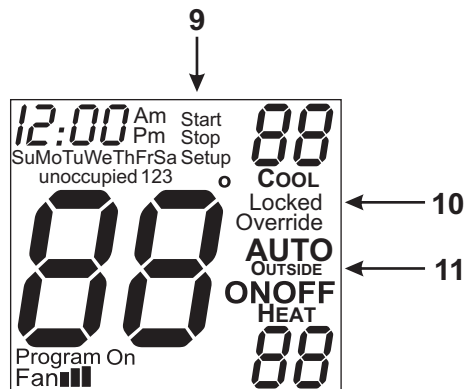
- 1 Mode Indicators - *Pages 7-10*
 Selects the operational mode of the equipment.
HEAT - Indicates the heating mode.
COOL - Indicates the cooling mode.
AUTO - Indicates the system will automatically changeover between heat and cool modes as the temperature varies.
PROGRAM ON - Indicates the time period program is enabled to run.
OFF - Indicates heating and cooling are turned off.
- 2 Clock with Day of the Week - *Page 6*
 Indicates the current time and day. This clock is also used to program the time period schedules.
- 3 Room Temperature Display
 Indicates current room temperature.
- 4 Desired Set Temperature - *Page 11*
 Indicates desired room temperature(s).

Display



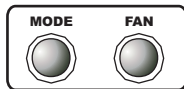
- 5 Override icon - Pages 12 & 22**
Indicates the program is currently being overridden for up to six hours.
- 6 Occupied & Unoccupied icons - Pages 13-16**
Indicates the program number: Occupied 1,2,3 or Unoccupied.
- 7 Setup icon - Pages 18-23**
Indicates the thermostat is in the advanced setup mode.
- 8 Fan■■■ icon - Page 11**
Indicates fan operation.
Fan■ = low speed
Fan■■ = medium speed
Fan■■■ = high speed
 When only the **Fan** icon is displayed, the fan is in the Auto mode and will run only when necessary to heat or cool.

Display



- 9 Start & Stop icons - Pages 14-16**
Appear when programming occupied time periods.
- 10 Locked icon - Page 31**
Indicates keypad has been locked.
- 11 Outside icon - Page 32**
Indicates the temperature displayed is from the optional outside sensor.

Quick Start *Set the Clock and Go*



Press the MODE and FAN buttons at the same time for two seconds to enter Setup screens.

Setting the Clock

Tip: To change hours quickly, press and hold the FAN button and press the UP or DOWN button.



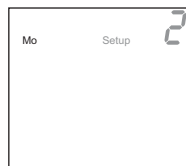
During Setup and Programming:
Pressing the UP or DOWN button will modify the flashing selection.

To adjust the Clock or Day use



buttons.

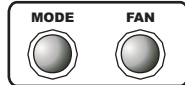
Setting the Day



Press



Press the MODE and FAN buttons at the same time to return to normal operation.



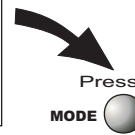
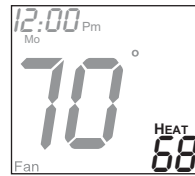
The thermostat is preprogrammed from the factory to operate a 4 pipe system without the need for further programming. To optimize the installation of this thermostat for a 2 pipe system, follow the instructions in the Advanced Setup section. *Page 19*

Selecting the Heat or Cool Mode 4-Pipe Operation

Select Mode by Pressing the MODE Button

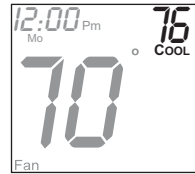
Heating Only

The **HEAT** setting indicates the temperature the room has to reach before the heating source will turn on to heat the room.



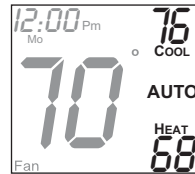
Cooling Only

The **COOL** setting indicates the temperature the room has to reach before the cooling source will turn on to cool the room.



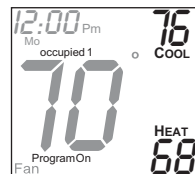
Heating or Cooling

AUTO will automatically select heat or cool based on room temperature demand.



Time Schedule for Heating or Cooling

Program On will activate the stored timer operation for the heating and cooling setpoints (occupied or unoccupied periods).



Off

OFF indicates both heating and cooling are turned off.



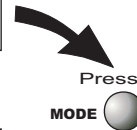
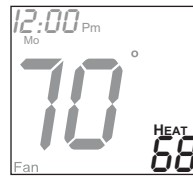
Selecting the Heat or Cool Mode 2-Pipe Operation

Heat Only

Step #6 = 1 in the Advanced Setup section, page 19.

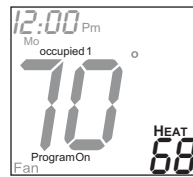
Heating Only

The **HEAT** setting indicates the temperature the room has to reach before the heating source will turn on to heat the room.



Time Schedule for Heating or Cooling

Program On will activate the stored timer operation for the heating and cooling setpoints (occupied or unoccupied periods).



Off

OFF indicates both heating and cooling are turned off.



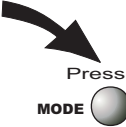
Selecting the Heat or Cool Mode 2-Pipe Operation

Cool Only

Step #6 = 2 in the Advanced Setup section, page 19.

Cooling Only

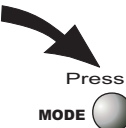
The **COOL** setting indicates the temperature the room has to reach before the cooling source will turn on to cool the room.



Press

Time Schedule for Heating or Cooling

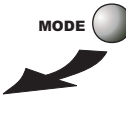
Program On will activate the stored timer operation for the heating and cooling setpoints (occupied or unoccupied periods).



Press

Off

OFF indicates both heating and cooling are turned off.



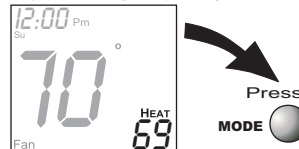
Press

Selecting the Heat or Cool Mode 2-Pipe Operation

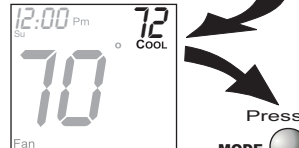
Heating and/or Cooling

Step #6 = 3 in Advanced Setup (page 19), and the accessory changeover sensor (ACC-SENF) is used.
 Step #6 = 4 or 5 in Advanced Setup (page 19).
 Operation is the same as a 4-pipe system (page 7).

HEAT indicates the temperature the room has to reach before the heating source energizes. If the water supply is cold, this screen and heating would be locked out.

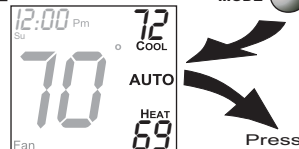


COOL indicates the temperature the room has to reach before the cooling source energizes. If the water supply is hot, this screen and cooling would be locked out.



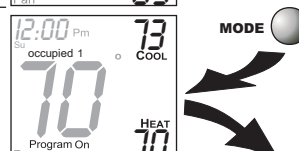
If step #6 = 3, this screen will not appear.

AUTO will automatically select heat or cool based on the room temperature demand.

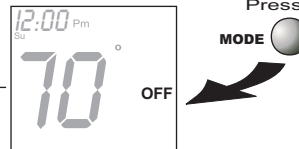


If step #6 = 3, only heat or cool will appear.

Program On will activate the stored timer operation for the heating and cooling setpoints.



OFF indicates both heating and cooling are turned off.



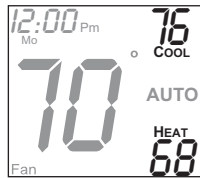
Note: If the water temperature is changed during the year, the thermostat will then automatically lock out the incorrect mode. Page 10

Basic Operation

Selecting Your Desired Temperature (adjusting the setpoints)

AUTO OR PROGRAM MODE

Pressing the UP or DOWN button when both Heat & Cool setpoints are visible will adjust **both** the heat and cool set temperatures simultaneously.

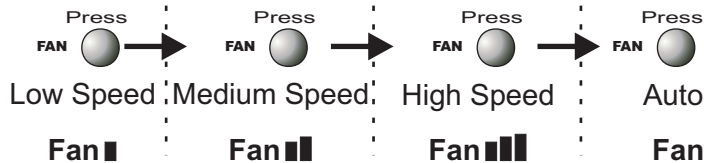
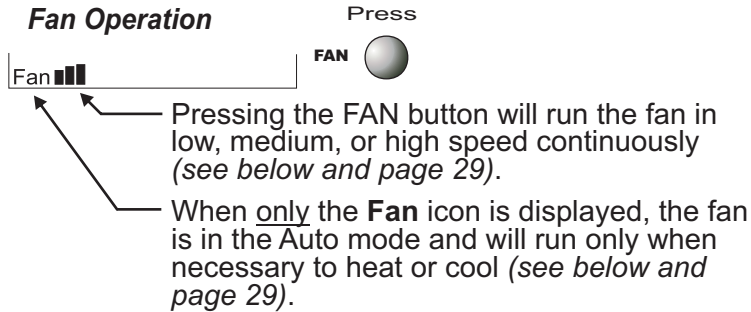


Adjust the desired set temperature with the



buttons.

Fan Operation



Note: If the thermostat is placed in the Off mode, the fan will de-energize.

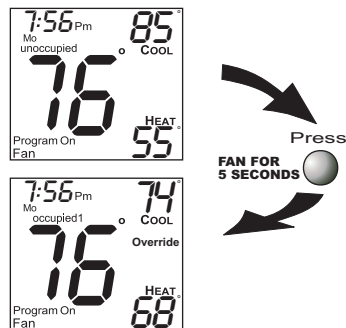
Basic Operation

Overriding the Daily Schedule

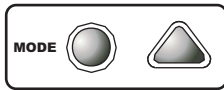
Pressing and holding the FAN button for 5 seconds may be used to interrupt the normal time schedule programming of the thermostat. The override feature may only be used when the thermostat is running the time schedule, in Program On mode.

Unoccupied Operation - During programmed, unoccupied periods pressing and holding the FAN button for 5 seconds will temporarily force the thermostat into Occupied 1 comfort settings for one to six hours (*step #14, page 22*). The Override icon will be illuminated during this time. If you press and hold the FAN button while the thermostat is currently overriding the daily schedule, this will reset the timer, returning the thermostat to the correct time period program for the day.

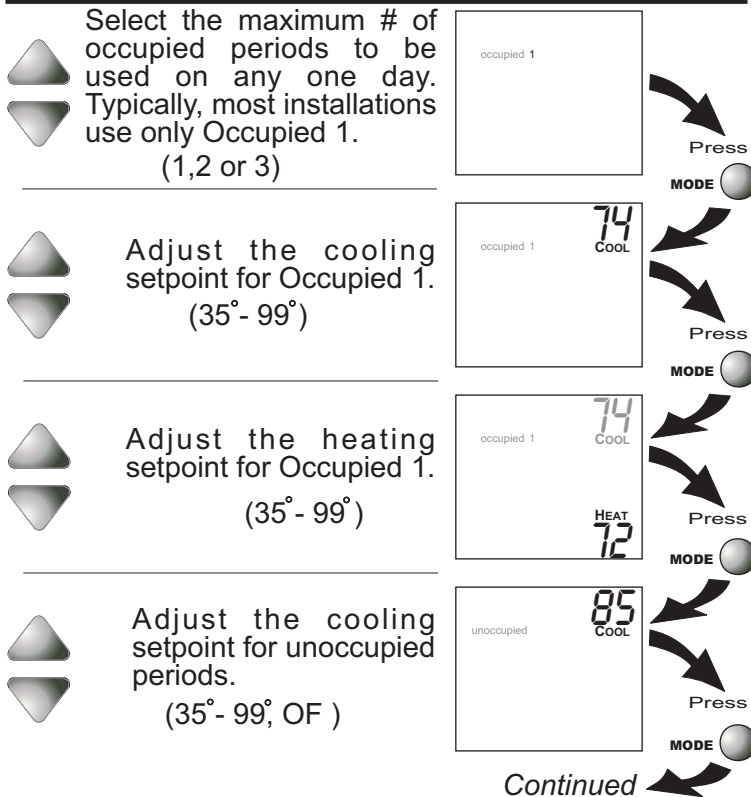
Occupied Operation - Pressing and holding the FAN button for 5 seconds during a programmed Occupied time period will have no effect.



Programming Occupied & Unoccupied Periods



Press the MODE button. While holding MODE, press the UP button for two seconds to enter time period programming.

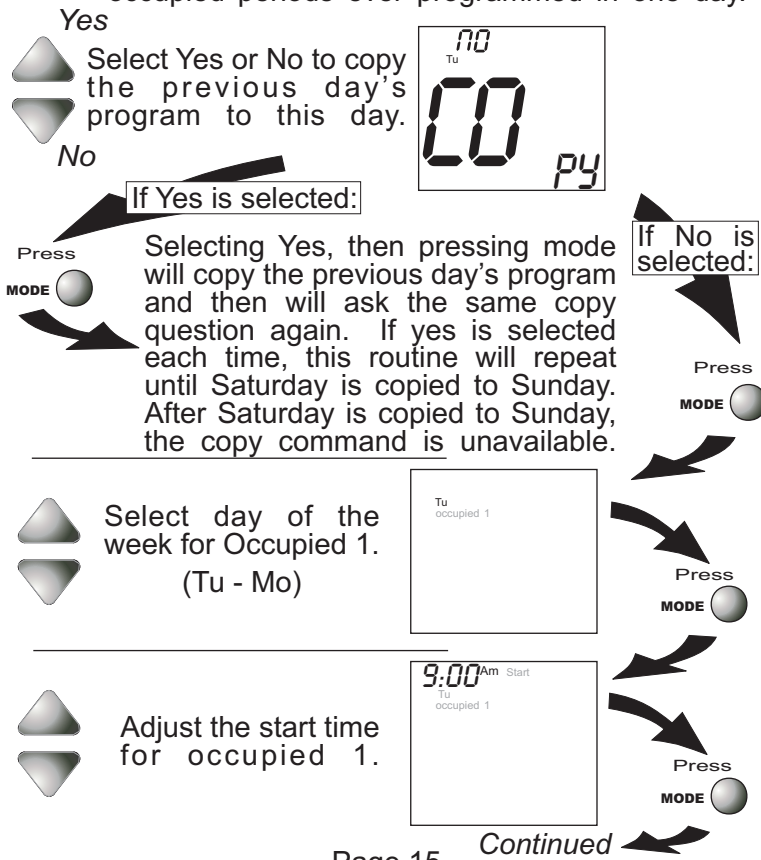


Programming Occupied & Unoccupied Periods

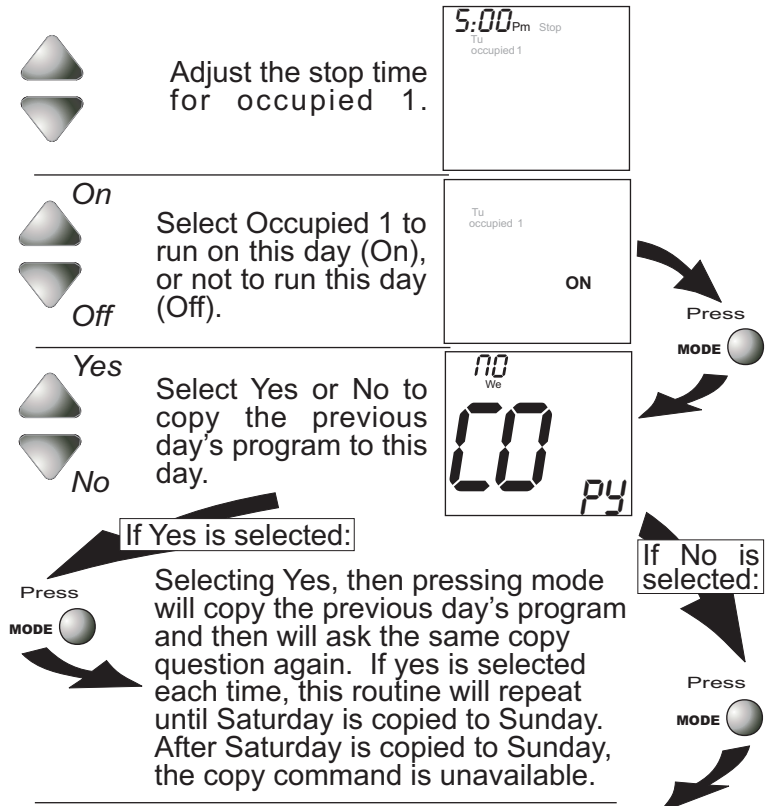
	<p>Adjust the heating set-point for Unoccupied periods. (OF, 35°- 99°)</p>		<p>Press MODE</p>
	<p>Select day of the week to program. (Mo - Su)</p>		<p>Press MODE</p>
	<p>Adjust the start time for Occupied 1.</p>		<p>Press MODE</p>
	<p>Adjust the stop time for Occupied 1.</p>		<p>Press MODE</p>
<p>On Off</p>	<p>Select Occupied 1 to run on this day (On), or not to run on this day (Off).</p>		<p>Press MODE</p>

Programming Occupied & Unoccupied Periods

The copy command becomes available after the maximum # of occupied periods are programmed in a day. This example uses 1 as the maximum occupied periods ever programmed in one day.



Programming Occupied & Unoccupied Periods



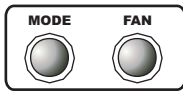
If no is selected, as in previous steps flashing prompts for input will appear for start and stop times for Occupied 1. If more than one occupied period was selected on page 13, then cool/heat setpoints, and start/stop times for additional occupied periods will be prompted.

Programming Occupied & Unoccupied Periods

PROGRAMMING NOTES

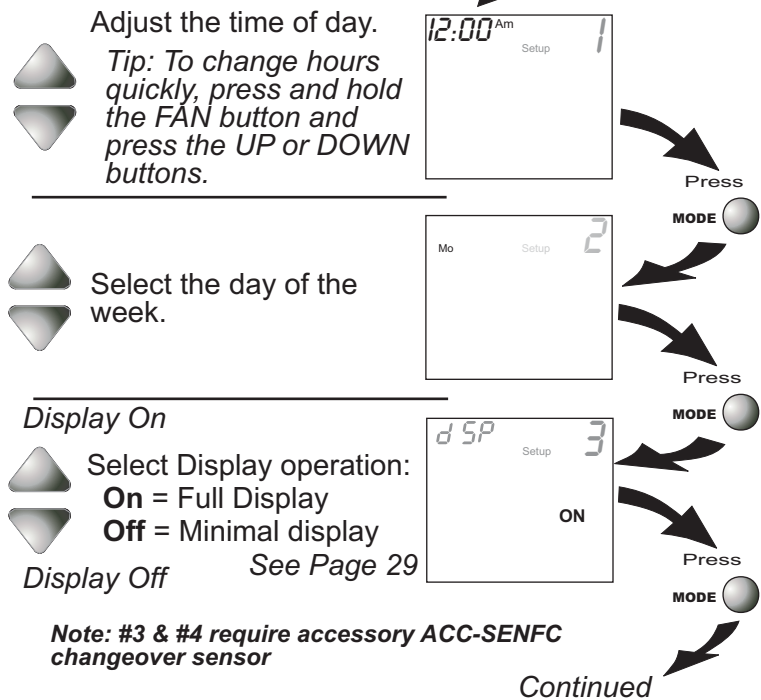
- * **You will be prompted to enter both heat and cool setpoints even if the thermostat is configured for heat only, or cool only.**
- * If only 1 Occupied period is selected, the Occupied 2 & 3 steps will be skipped. Further, if only 2 occupieds are selected, the Occupied 3 steps will be skipped.
- * Heat & Cool setpoints for Occupied 1 are the same for each day. Heat & Cool setpoints for Occupied 2 & 3 can be adjusted differently for each day, if desired.
- * **If the start time is set for later than the stop time**, the program will run from the start time to midnight and from midnight to the stop time on the same day. *For example: 9:00pm start, 8:00am stop, on Monday. This program will run from 12:00am Monday to 8:00am and again from 9:00pm to 11:59pm on Monday.*
- * The Unoccupied settings take effect at all times when: (1) the program is on **and** (2) the current time is outside an occupied period. For this reason start and stop times are not necessary for unoccupied.
- * If the **same** start and stop times are programmed in for an occupied period, then it will run 24 hours.
- * If one occupied period starts and stops within another occupied period, the lower occupied # has priority. *For example: If Occupied 3 is programmed to be "on" 24 hours, and Occupied 2 is programmed to run that day, then Occupied 2 settings will take precedence during that time.*
- * During the Override mode (see page 12), the Occupied 1 Heat & Cool setpoints are used.

Advanced Setup



Press the **MODE** and **FAN** buttons at the same time for 10 seconds to enter Advanced Setup screens.

NOTE: Each step # is located at the top right corner of the display for easy reference.



Advanced Setup



Select Display operation:

- 1 = Single Setpoint
- 2 = Dual Setpoint

See Page 33



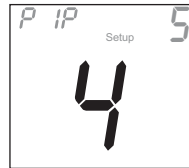
Note: When Single Setpoint is selected, the heating or cooling setpoint will always be displayed. To display the room temperature, press and hold the MODE button for two seconds. The degree icon will blink when the large number is displaying room temperature and will remain solid when displaying the heating or cooling setpoint.

Press
MODE



Select fan coil system type:

- 2 = 2-pipe fan coil
- 4 = 4-pipe fan coil



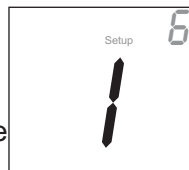
Press
MODE

Step #6 only appears if step #5 = 2.

2 PIPE SYSTEM OPERATION



- 1= Heat only system
- 2= Cool only system
- 3= Heat/Cool Auto changeover
- 4= Heat/Cool Aux Electric heat, Lockout Electric Heat when Hot Water is available
- 5= Heat/Cool total electric heat, **no** Hot Water, **only** Electric Heat.



Press
MODE

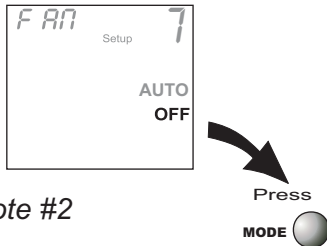
Page 19

Continued

Advanced Setup

Select operation when fan is in the Auto mode:
On = continuous low speed fan
Off = only energize during a heating or cooling cycle.

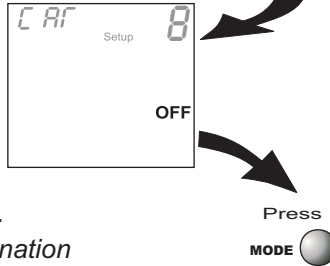
See Page 29, Note #2



Select Fan Coil Type

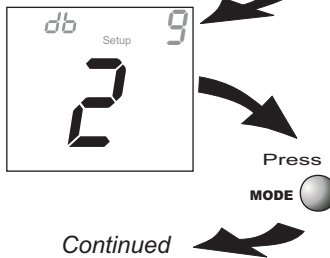
On = Carrier or IEC fan coil using a 33ZCRLYBRD relay board.
Off = Conventional 3 speed fan coil system.

See Page 33 for further explanation



Adjust the deadband for the 1st stage.
(1° - 6°)

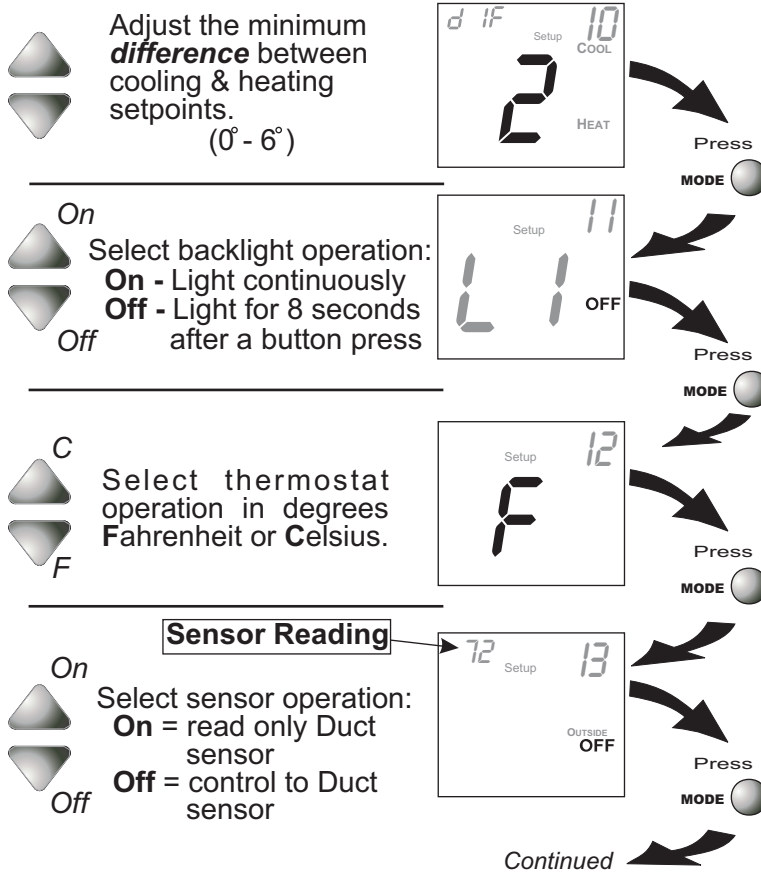
See Page 26



Continued

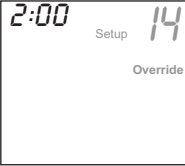
Advanced Setup

Step #10 will not appear if step #6 = 1 or 2.




Advanced Setup

Adjust the amount of time override will be active during the unoccupied time period. (0 - 6 hours)




Press MODE

NO Dry Contact
NO = Normally Open
NC = Normally Closed
NC See Page 27



Press MODE

Occupied Select Dry Contact operation:
Occupied = the thermostat will enter the Occupied mode when the Dry Contact is closed.
Unoccupied Unoccupied = the thermostat will enter the Unoccupied mode when the Dry Contact is closed.



Press MODE

Continued

Advanced Setup

Unoccupied Setpoints

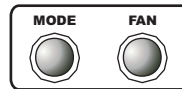
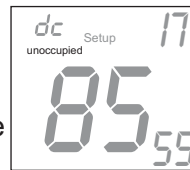


Off

Select Dry Contact
Unoccupied operation:

Unoccupied = when the
Dry Contact is closed,
the thermostat will con-
trol to the Unoccupied setpoints.

Off = when the Dry Contact is
closed, the thermostat will turn
off.



*After programming is complete, press the
MODE and FAN buttons at the same time
to leave the Setup screens.*

*If no buttons are pressed, the display will
leave the setup screens after 60 seconds.*

Advanced Setup


Advanced Setups - Table

Step	Description	Range	Default
1	Time of Day	24 Hour	12:00am
2	Day of Week	Mo - Su	Mo
3	Display Blanking	On / Off	On
4	Single or Dual Setpoint	1 / 2	2
5	2 or 4 Pipe System	2 / 4	2
6	2 Pipe System Operation	1 - 5	1
7	Fan Auto Operation	On / Off	Off
8	Fan Coil Type	On - Off	Off
9	1st Stage Deadband	1 - 6	2
10	Minimum Heat/Cool	0 - 6	2
11	Backlight	On / Off	Off
12	Degrees F or C	F / C	F
13	Sensor Operation	On / Off	Off
14	Override Timer Length	0 - 6 Hours	2 Hours
15	Dry Contact Polarity	Occ. / Unocc.	NO / NC
16	Dry Contact Operation	Unocc. / Occ.	Occ.
17	Dry Contact Operation	Unocc. / Off	Unocc.

About Advanced Features & Operation


- * CALIBRATION - Under normal circumstances it will not be necessary to adjust the calibration of the temperature sensor. If calibration is required, please contact a trained HVAC technician to correctly perform the following procedure.

1 **MODE** Place the thermostat in the OFF mode.



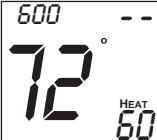
The thermostat display shows the time 12:00 Pm, the day Mo, and the temperature 72°. The mode is set to OFF.

2 **MODE** Press and hold the MODE button. While holding the MODE button, press and hold the DOWN button for 5 seconds. All icons will appear on the display.




The thermostat display shows the time 12:00 Am, the day Su, and the temperature 88°. Various icons are visible, including Start Stop, unoccupied 123, COOL, Locked, Override, AUTO, OFF, HEAT, and Program On Fan.

3 Press the MODE button once. The thermostat temperature will be displayed and may be calibrated using the UP or DOWN button.



The thermostat display shows the time 5:00, the day --, and the temperature 72°. The mode is set to HEAT.

4 **MODE** After calibration is complete, press the MODE button **once** to save your changes and return to normal operation.



The thermostat display shows the time 12:00 Pm, the day Mo, and the temperature 72°. The mode is set to OFF.

- * CLOCK BACKUP - In the event of a power loss, the thermostat's internal clock will continue to keep proper time for a minimum of 48 hours without external power or batteries.

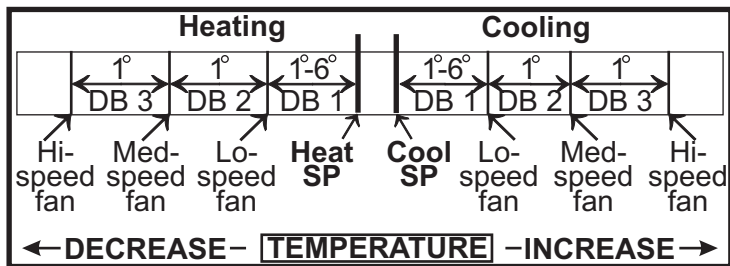
About Advanced Features & Operation

* **DEADBAND OPERATION** - Controls one Heat and one Cool stage with a three speed fan (see below).

The **low speed fan** for heat or cool is turned on when: The temperature spread from the setpoint is equal to or greater than: *the setpoint plus the 1st stage deadband (step #9, page 20)*. This 1st stage deadband is adjustable from 1-6 degrees and the default is two degrees.

The **medium speed fan** for heat or cool is turned on when: The temperature spread from the setpoint is equal to or greater than: *the setpoint plus the 1st stage deadband (step #9, page 20), plus the 2nd stage deadband*. This 2nd stage deadband is fixed at one degree and is not adjustable.

The **high speed fan** for heat or cool is turned on when: The temperature spread from the setpoint is equal to or greater than: *the setpoint plus the 1st stage deadband (step #8, page 20), plus the 2nd stage deadband, plus the 3rd stage deadband*. This 3rd stage deadband is fixed at one degree and is not adjustable.



The above figure assumes the minimum on time for the prior stage has been met to allow the next stage to turn on, once the deadbands have been exceeded.

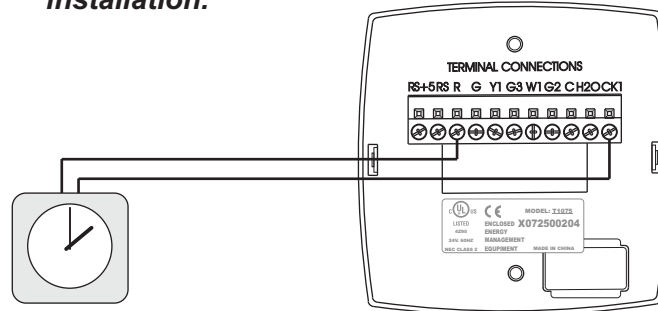
About Advanced Features & Operation

- ✿ **DRY CONTACT SWITCH** - This feature allows an external device such as a Central Time Clock, Occupancy Sensor, or a Telephone activated device to force one or more thermostats into an Occupied or Unoccupied mode (*steps #15 and 16, page 22*).

When the CK1 and R terminals are shorted together, and the thermostat is programmed for Unoccupied operation (*step #16, page 22*), the thermostat will be forced into Unoccupied setpoints or Off (*step#17, page 23*) and the Unoccupied icon will appear on the display.

Note: *The thermostat must be in Program On mode for this feature to have any effect.*

Important Note: *For control of multiple thermostats by 1 source, refer to page 37 'Potential Phasing Problems' before installation.*



Connect wires to a time clock or other device to force the thermostat into Occupied 1 or Unoccupied settings.



About Advanced Features & Operation

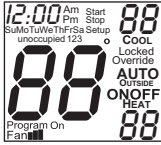
* **FACTORY DEFAULTS** - If, for any reason, you desire to return all the stored settings back to the factory default settings, follow the instructions below.


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


1
MODE  Place the thermostat in the OFF mode.





2
MODE   Press and hold the MODE button. While holding the MODE button, press and hold the DOWN button for 5 seconds. All icons will appear on the display.



3
FAN  After all of the icons appear, release the MODE and DOWN buttons. Then press and hold the FAN button for 2 seconds.



4
MODE  After the letters **Fd** appear on the display (Factory Default), release the FAN button. Press the MODE button **twice** to return to normal operation.



About Advanced Features & Operation

- * FAN OPERATION - Fan operation is available in four different modes:

Fan: When only the fan icon is displayed, this indicates that the fan is in the Auto mode, will only energize during a heating or cooling cycle, and will modulate fan speeds based on temperature demand (see page 26).

Fan■, Fan■■, or Fan■■■: Pressing the FAN button will cause the low, medium, or high speed fan icon to appear (see page 11), indicating that the fan will run continuously. The fan will de-energize if the thermostat is placed in the Off mode or an unoccupied time period (see page 26).

Notes:

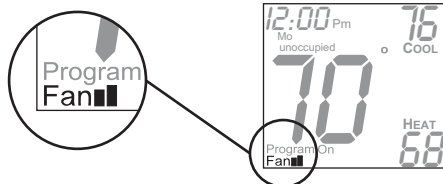
1) *If a Duct sensor is connected to this thermostat, then the fan should be programmed for continuous operation (step #7, page 20). This will provide airflow over the Duct sensor and provide more accurate temperature readings.*

2) *If the fan is programmed for continuous operation (step #7, page 20), the low speed fan will run continuously when the fan is in the Auto mode and during occupied time periods, but will de-energize if the thermostat is placed in Off mode or Unoccupied.*

- * MINIMAL DISPLAY - When the thermostat is programmed for a minimal display (step #3, page 18), only the time of day will appear. When a button is pressed the full, normal display will appear for 10 seconds.

About Advanced Features & Operation

- ✿ ENERGY SAVING SMART FAN - This feature automatically de-energizes the fan during an Unoccupied time period, except when necessary to heat or cool (see page 29).



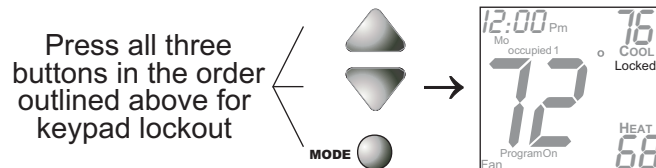
Note: The fan will not de-energize during an Unoccupied time period if it has been programmed for continuous operation (step #7, page 20).

- ✿ HEAT/COOL DIFFERENTIAL - The Heat and Cool setpoints will not be allowed to come any closer to each other than the value set in Advanced Setup step #10, on page 21. This minimum difference is enforced during Auto-changeover and Program On operation.

Note: To increase the spread between the heating and cooling setpoints in the Auto-changeover mode press the MODE button until only the heat setpoint is displayed; adjust to the desired setpoint. Press the MODE button until only the cool setpoint is displayed; adjust to the desired setpoint. Press the MODE button again to enter the Auto-changeover mode where both the heat and cool setpoints are displayed.

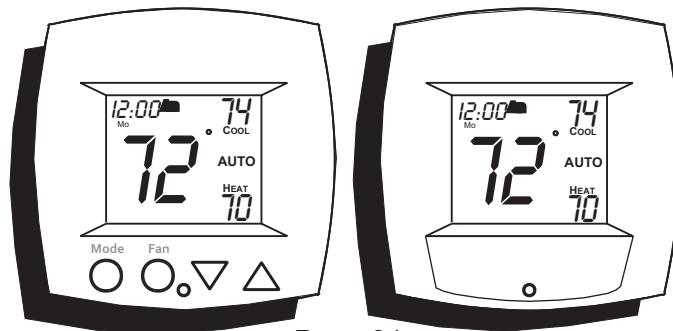
About Advanced Features & Operation

- * **KEYPAD LOCKOUT** - 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 UP and DOWN buttons together. The LOCKED icon will appear on the display, then release the buttons.



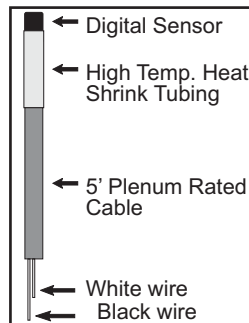
To **unlock** the keypad, press and hold the MODE button. While holding the MODE button, press the UP and DOWN buttons together. The LOCKED icon will disappear from the display, then release the buttons.

- * **LOCKING COVER (included) w/Tamper Proof Screws**



About Advanced Features & Operation

- * **OUTSIDE SENSOR** - To view an Outside Sensor (*step #13, page 21*), enter the Advanced Setup by pressing and holding the MODE button. While holding MODE, press the FAN button for 5 seconds to enter Setup screens. Advance to setup step #13 by repeatedly pressing the MODE button. If an optional outside sensor is connected, the outside temperature will appear in the clock display.
- * **DUCT SENSOR (P/N ACC0402)** - The thermostat is programmed from the factory to automatically recognize when a Duct Sensor is connected (*step #13, page 21*).



Duct Sensor connections are illustrated on page 36.

Note: *If a Duct sensor is connected to this thermostat, then the fan should be programmed for continuous operation (step #7, page 20). This will provide airflow over the Duct sensor and provide more accurate temperature readings.*

About Advanced Features & Operation

- * SINGLE SETPOINT BEHAVIOR - When configured for *Single Setpoint* operation (*step #4, page 19*), the degree icon will blink when the large number is displaying room temperature and will remain solid when displaying the heating or cooling setpoint. In the Auto and Program On modes the deadband is enforced both above and below the setpoint. To avoid short cycling, a deadband of at least two degrees is recommended (*step #9, page 20*). To display the room temperature press and hold the MODE button for two seconds. Release the MODE button to return to the normal display.

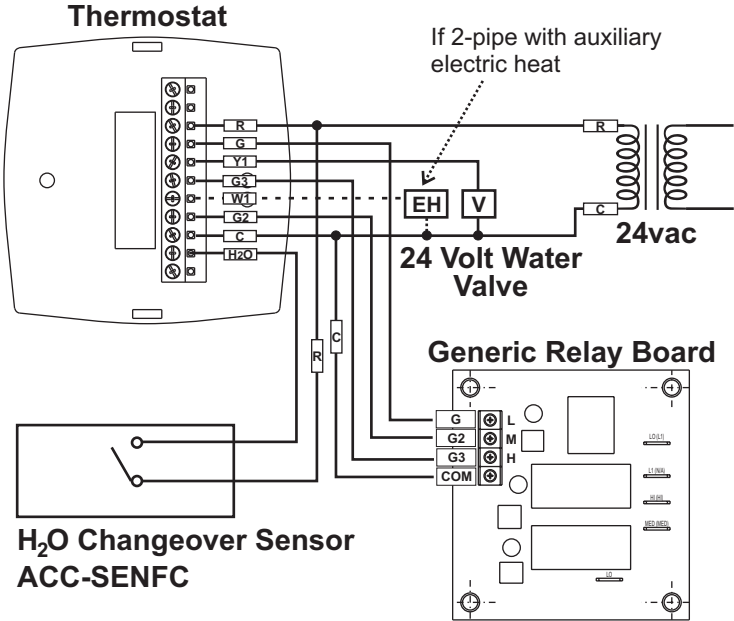
- * FAN COIL TYPE - This step instructs the thermostat how to set the G, G2, and G3 outputs to yield the desired fan speeds. Since this a low voltage thermostat, the fan coil should have multiple relays or contactors to supply the voltages needed for the fan motor. Most fan coils will have 3 relays and require only one relay to be driven at a time. However, many models of Carrier or IEC fan coils contain a relay board with special logic that requires different output settings from the thermostat. If there is any question, please contact the fan coil manufacturer.

Step 8 = OFF			
Speed	G	G2	G3
LO	ON		
MED		ON	
HI			ON

Step 8 = ON			
Speed	G	G2	G3
LO	ON		
MED	ON	ON	
HI	ON		ON

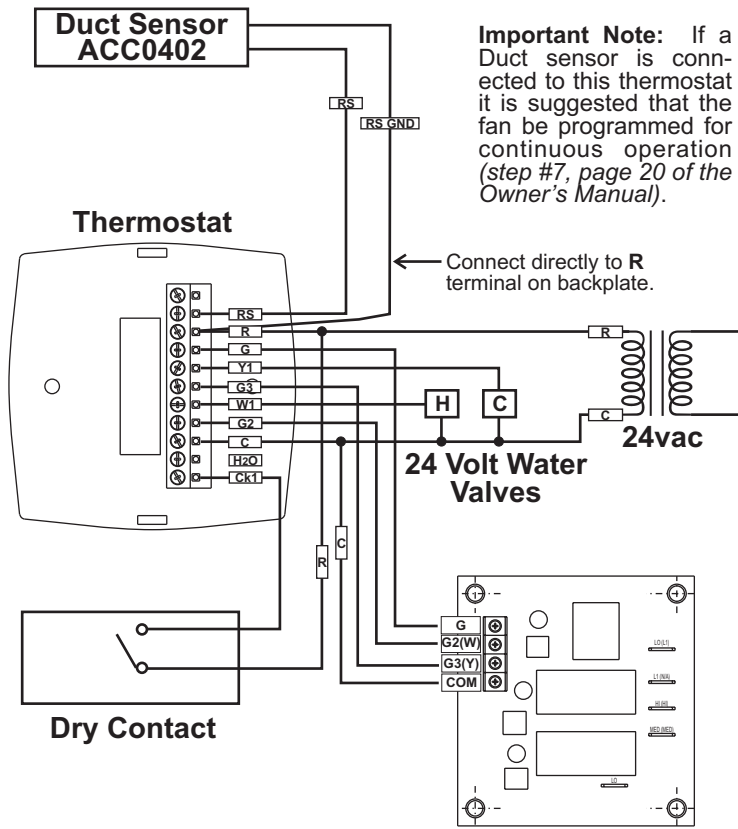
Sample Wiring Diagram

2-Pipe, Low Voltage Valve, H2O Changeover Sensor



Sample Wiring Diagram

4-Pipe, Low Voltage Valves, Duct Temperature Sensor & Dry Contact

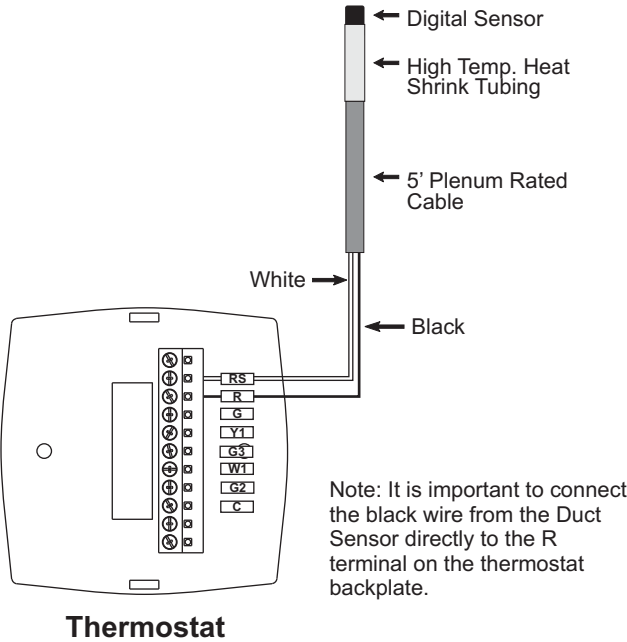


Important Note: If a Duct sensor is connected to this thermostat it is suggested that the fan be programmed for continuous operation (step #7, page 20 of the Owner's Manual).

← Connect directly to R terminal on backplate.

Sample Wiring Diagram

Connection Diagram for Duct Sensor to T1075 Fan Coil Thermostat



Sample Time Clock Wiring Diagram

Important Information About:



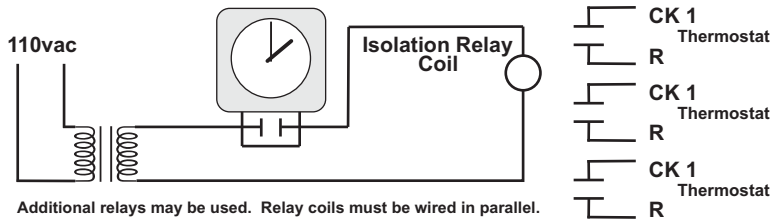
Auxiliary Input Control and Multiple HVAC Control Potential Phasing Problems



When using the auxiliary input (CK1 & R) or controlling multiple HVAC units with a single thermostat, it is possible to encounter transformer phasing problems that will interfere with thermostat operation. Connecting transformers that are not phased correctly may result in a direct short, which could damage the transformers and/or the thermostats. Phasing problems are likely if the units share a common ground with secondary grounded transformers.

SOLUTION: If possible, phase all HVAC units together. If phasing is impractical, isolation relays may be used to isolate the transformers. To isolate the auxiliary input, use a separate transformer for the auxiliary control device, usually a time clock. Connect the device to an isolation relay coil. Connect one set of isolated contacts to each thermostat at **CK1** and **R**. See diagram A.

Diagram A- Auxiliary Control



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 BECOMES VOID UPON 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 LASTS, SO THE ABOVE MAY NOT APPLY TO YOU. THE EXPRESSED WARRANTIES MADE IN THIS WARRANTY ARE EXCLUSIVE AND MAY NOT BE ALTERED, ENLARGED, OR CHANGED BY ANY DISTRIBUTOR, 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:

1. Normal maintenance as outlined in the installation and servicing instructions or owner's manual, including filter cleaning and/or replacement and lubrication.
2. Damage or repairs required as a consequence of faulty installation, misapplication, abuse, improper servicing, unauthorized alteration or improper operation.
3. Failure to start due to voltage conditions, blown fuses, open circuit breakers or other damages due to the inadequacy or interruption of electrical service.
4. Damage as a result of floods, winds, fires, lightning, accidents, corrosive environments or other conditions beyond the control of the Manufacturer.
5. Parts not supplied or designated by the Manufacturer, or damages resulting from their use.
6. 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 heat.
8. 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.