

# INSTALLATION INSTRUCTIONS AND HOMEOWNER'S MANUAL

## Communicating Thermostat



**Model : R02P032**



# WHITE-RODGERS HOMEOWNER HELPLINE:

## 1-800-284-2925

### Thermostat features:

- Programming for any schedule (including non-programmable)
- Reminders for seasonal maintenance and changing filters
- Energy saving features that improve comfort
- Thin profile with sharp color display

**FAILURE TO READ AND FOLLOW ALL INSTRUCTIONS CAREFULLY BEFORE INSTALLING OR OPERATING THIS CONTROL AND SYSTEM COULD CAUSE PERSONAL INJURY AND/OR PROPERTY DAMAGE.**

### INTRODUCTION TO THERMOSTAT AND COMMUNICATING SYSTEM

This thermostat features a flexible programming sequence for residential applications. It is designed to control components of a 24 VAC residential ClimateTalk™ communicating system consisting of gas or electric heat, heat pump, and central air conditioning applications. The high-resolution color display offers easy readability, intuitive programming with individual touch buttons to the right of the screen, on-screen prompting, pop-up message alerts to change filter, or regular servicing check-ups, and an exchangeable faceplate. The thermostat has a USB port for contractor setup.

The thermostat's major features include 40°F to 99°F setpoint range, 1°F resolution, 3.5-inch diagonal 1/4 VGA LCD, auto configure, autochangeover, selectable continuous fan speeds, humidity control, dehumidification control, dual fuel control, advanced diagnostics and fault code display, advanced installer menu, simultaneous heat and cool program storage, a four-step daily schedule sequence, energy management recovery, filter change-out indicator, replace UV lamp indicator, change Humidifier pad and program loss start up temperature.

**Note:** If system power is lost for more than eight hours, the clock will have to be reset. Programming and configuration settings will be saved.

### **WARNING**

Thermostat installation and all components of the control system shall conform to Class II circuits per the NEC code.

### **WARNING**

To prevent electrical shock and/or equipment damage, disconnect electric power to system at main fuse or circuit breaker box until installation is complete.

### **ATTENTION: MERCURY NOTICE**

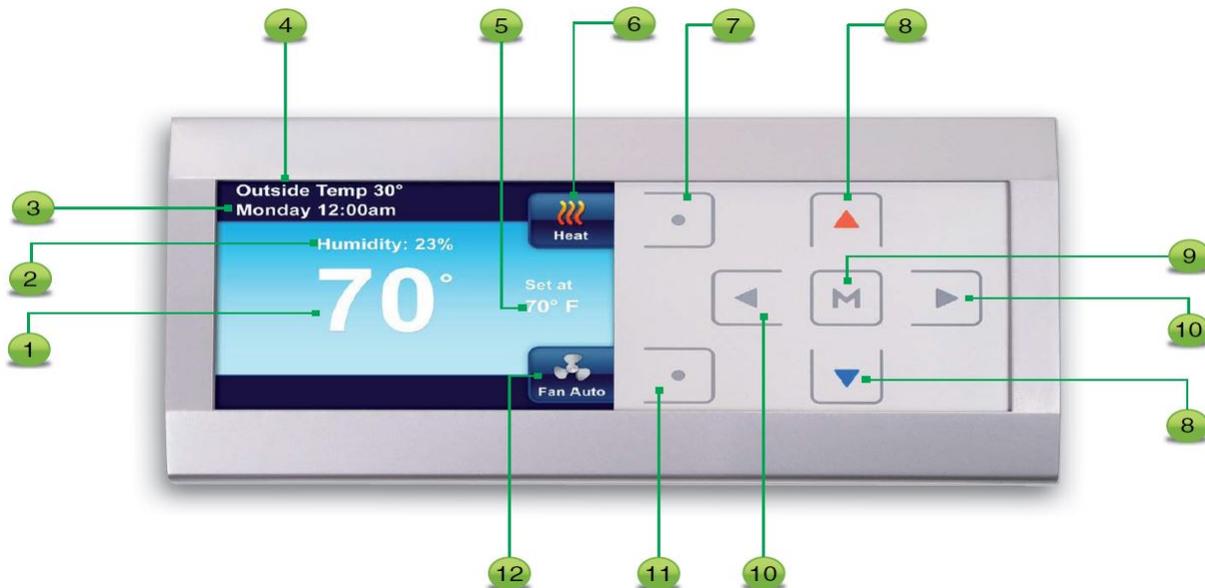
This product does not contain mercury, but it may replace a product that contains mercury. Mercury and products containing mercury must not be discarded in household trash. Do not touch any spilled mercury. Wearing non-absorbent gloves, clean up any spilled mercury and place it in a sealed container. For proper disposal of a product containing mercury or a sealed container of spilled mercury, place it in a suitable shipping container. On the Internet, visit [www.switchthestat.ca.com](http://www.switchthestat.ca.com) for a location where the product containing mercury can be sent.

# Table of Contents

- 1 Thermostat Overview 4**
  - 1.1 Display and Controls 4
  - 1.2 Navigating through the menus 5
  
- 2 Installation 6**
  - 2.1 Wiring Requirements 6
  - 2.2 Quick Installation Steps 6
  - 2.3 Installing Thermostat 7
  - 2.4 Initial Power Up 7
  - 2.5 Check Système Operation 8
  
- 3 Thermostat Setup and Usage 10**
  - 3.1 Set Time and Date 10
  - 3.2 System Setting 10
  - 3.3 Auxiliary Heating (Heat pumps only) 11
  - 3.4 Temporary Temperature Hold 11
  - 3.5 Permanent Temperature Hold 12
  - 3.6 Choosing the Fan Setting (On or Auto) 12
  - 3.7 Maintenance Reminders 12
  - 3.8 Display settings 13
  - 3.9 Heating Program/Cooling Program 14
  - 3.10 Fan Settings Menu 14
  - 3.11 Thermostat Settings Menu 15
  
- 4 Programming the thermostat 18**
  - 4.1 Energy Saving Factory Pre-Program 18
  - 4.2 Planning your Program 18
  - 4.3 Entering the Heating & Cooling Programs 19
  
- 5 Diagnostics 20**
  - 5.1 Alert Info Detail 20
  - 5.2 Reset Operation 20
  - 5.3 Modulating Chinook System Fault Codes 21
  
- 6 Advanced Installer Menu 22**
  - 6.1 Equipment User Menu 23
  
- 7 Record of Thermostat Options 27**

# 1 Thermostat Overview

## 1.1 Display and Controls



1. The indoor temperature
2. The relative indoor humidity
3. The day of the week and the time
4. The outside temperature if outdoor sensor is connected
5. The desired temperature or setpoint
6. Indicates system setting or 
7. This button selects system settings **Cool**, **Heat**, **EM**, **Auto**, or **Off**. In the menus, this button is used to display the Home screen
8. ▲ and ▼ move the temperature up and down. Also used to navigate through menus
9.  is used to enter any menu function of the thermostat
10. ◀ and ▶ used to move through the menu settings. Also, the ◀ is used to exit the temperature hold function
11. This button selects the fan operation **On** or **AUTO**. Also the **Enter** button in the thermostat menu used to save entries and display previous menu.
12. Indicates Fan mode or 

## 1.2 Navigating through the menus

Your thermostat features a simplified easy to understand menu structure. Navigating through any menu in your thermostat uses the same approach.

- Press  to enter the Main Menu

*The Main Menu lists the menus that access and set thermostat operating options and programming.*



- Highlight a menu item using  or 
- Enter the item by pressing 
- Use the  or  and the  or  to change menu items and settings
- Press the **Home** button to display the Home Screen 
- Press the **Enter** button to save any changes you have made and display the previous menu 
- **If no button is pressed for two minutes, you will return to the home screen without saving changes**

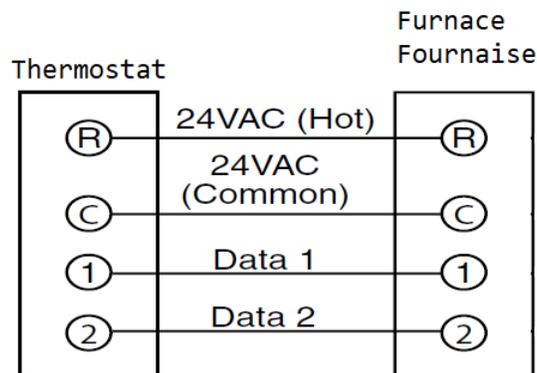
## 2 Installation

*This booklet contains installation instruction and information on the thermostat only. Separate installation instructions for the furnace or air handler and outdoor AC condensing unit or heat pump are provided.*

*This thermostat is designed exclusively for the ClimateTalk™ communicating system.*

### 2.1 Wiring Requirements

Each communicating device in the system has a four wire connection labelled (R, C, 1, 2). Each R, C, 1, and 2 terminals must be wired consistently. Maximum length from the thermostat to the indoor unit is 100 feet.



### 2.2 Quick Installation Steps

- Determine location of thermostat installation.
- Mount thermostat base to wall.
- Connect wires to thermostat base.
- Attach thermostat to base.
- Turn on power to system. Allow approximately 2 minutes for the system to configure.
- Set the time
- Select advanced installer menu settings or use USB upload feature to install Thermostat Configuration information
- Perform thermostat/system operation checkout.
- Program thermostat or accept factory programming.
- Touch <math>\triangleleft</math> to run schedule.

## 2.3 Installing Thermostat

- Carefully separate the thermostat body from the thermostat base.
- Place base at installation location and mark mounting hole locations on wall using base as a template.
- Move base out of the way. Drill mounting holes.
- Attach base snugly to wall using two mounting screws. Levelling is for appearance only and will not affect thermostat operation.
- Connect wires to terminal block on base.
- Push excess wire into wall and plug hole with a fire resistant material (such as fiberglass insulation) to prevent drafts from affecting thermostat operation.
- Carefully line up the thermostat with the base and snap into place.

### Removable Faceplate

The silver or white faceplate on the thermostat can be removed. To remove the faceplate:

- Remove faceplate by gently pulling on the tabs behind the lower edge of the faceplate. Lift faceplate off of thermostat.
- Position faceplate on top edge of thermostat.
- Press on bottom of faceplate to snap faceplate back into position.



## 2.4 Initial Power Up

Turn on AC power to the system. The thermostat will automatically identify the communicating equipment installed and configure for the equipment as required.



## Messages at Thermostat

As equipment is found on the network, the display will show, “device” Found. The Searching icon will show until all equipment is found and configured. If no equipment is found on the network after approximately five minutes, the home screen will appear and indicate a Fault.

If the indoor unit is not detected by the network, “**Check System Fault**” will be displayed. Check system wiring if one of these faults occur.

The display will change to Start-up, Hold screen showing the actual temperature, **SYSTEM** position (**HEAT**) mode, **FAN** setting (**AUTO**), **HOLD AT** with the setpoint temperature **62** for heat or **85** for cool and real time clock (hour, minute, AM or PM, day).



## Communications Systems

The ClimateTalk™ protocol will set the identification of the individual nodes connected to the thermostat. The Network Device display will appear during initial power up and when a new device is found on the network.

## 2.5 Check System Operation

### Heating System (Heat pump only/Furnace only/Dual fuel)

1. Press SYSTEM button until **Heat** is displayed.
2. Press ▲ to adjust thermostat setting 1°F above room temperature. The heating system should begin to operate and the display will indicate **Heat On**.
3. If the heating system has additional stages, adjust the thermostat setting to 3°F (2°C) or more above the actual temperature. The next heat stage will energize.

**Note:** To check heat pump systems, it is better to set Aux Lockout Temperature (see section 6) so indoor heat is not disabled. Be sure to set Aux Lockout Temperature after checking system.

4. Press ▼ to adjust thermostat setting below room temperature. The heating system should stop operating.

### Cooling System

1. Press SYSTEM button until **Cool** is displayed.
2. Press ▼ to adjust thermostat setting 1°F below room temperature. The cooling system should begin to operate and the display will indicate **Cool On**.

3. Press ▲ to adjust thermostat setting above room temperature. The cooling system should stop operating.

### **Fan Operation**

1. Press FAN button until **Fan On** is displayed. The fan should begin to operate.
2. Press FAN button to change the display to **Fan Auto**. The fan should stop operating as long as there is no call for heat or cool.

### 3 Thermostat Setup and Usage

#### 3.1 Set Time and Date



- Press **M** to enter the Main Menu.
- On the Main Menu, highlight and enter **Clock and Display Settings**.
- Highlight and Enter **Time & Date**.
- Set the time and date using the **▲** or **▼** buttons.
- Press **▷** to highlight Minute, AM/PM, Month, Day or Year.
- The thermostat will automatically assign the correct day of the week after the date is set.
- Press the **Enter** button when finished.

**Note:** If system power is lost for more than eight hours, the clock will have to be reset. Programming and configuration settings will be saved.

#### 3.2 System Setting



From the Home screen, press the button as shown to choose the system setting.



Thermostat controls only the cooling system.



Thermostat controls only the heating system.



Heating and Cooling systems are off.



Emergency setting available only when the thermostat detects a heat pump. When selected, system will use only the backup heat.



Auto Changeover is used where both heating and cooling may be required during the same day. AUTO allows the thermostat to automatically select heating or cooling depending on the indoor temperature and the selected heat and cool temperatures. This thermostat will not allow you to program a conflict between Heating and Cooling setpoints.

For example: In the morning heating is required. During the day, the temperature gets warmer and you want the air conditioner to run. The thermostat will automatically change the system mode from heating to cooling.

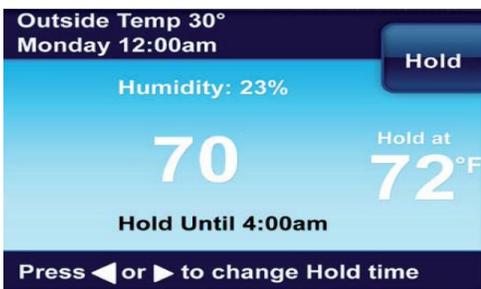
The temperature you desire in your home can be changed by pressing ▲ or ▼.

### 3.3 Auxiliary Heating (Heat pumps only)



If you have a heat pump, your system will automatically activate Auxiliary Heating when the outside temperature is too cold for the heat pump to efficiently heat your home. When Auxiliary Heating is called for, the display will show “**Aux**” with the Heat icon

### 3.4 Temporary Temperature Hold



You can temporarily adjust the temperature in your home at any time while your thermostat is running a program by pressing either the ▲ or ▼. Your thermostat will maintain this desired temperature for four hours (default). The display will show “**Hold at**” by the desired temperature, and “**Hold Until**” with the time the temporary hold will end. The display will also briefly show “**Press ◀ or ▶ to set the Hold Time**”. While this message is displayed, you can change the time that you wish to have the Hold end.

Press the ◀ button to cancel a temporary hold. The desired temperature will display the current program setting.

### 3.5 Permanent Temperature Hold



If you desire, you can set your thermostat to permanently hold a temperature. This feature will bypass any programs you may have set in your thermostat and maintain a single constant temperature.

**Note:** This mode is recommended at all times.

To use Permanent Hold, change the temperature with ▲ or ▼ and press the **Hold** button. When your thermostat is in Permanent Hold, the “**Hold at**” will be displayed by the desired temperature. Press the ◀ button to exit permanent hold and display the current program setting.



### 3.6 Choosing the Fan Setting (On or Auto)



**Fan Auto** This is the most commonly used setting. The fan will turn on only when the heating or cooling system is running.

**Fan On** This will have the fan running continuously. When this is selected, the fan will run at the speed (**High, Medium, or Low**) selected in the Fan Settings menu (section 3.10).



### 3.7 Maintenance Reminders



Your thermostat can automatically provide reminders when the air filter, humidifier pad, or UV lamp needs to be replaced. Each of these reminders are turned on or off and the reminder time period set from the appropriate item in the Thermostat Settings Menu (section 3.11).

Maintenance reminders are:





When a reminder appears, it can be turned off by entering the Alert Information Detail menu on the Main Menu. Select **Yes** to “Clear Alert and Reset Timer”.

### 3.8 Display settings

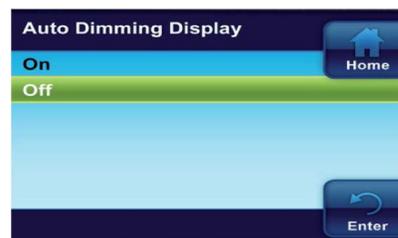
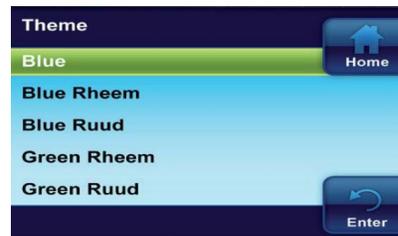
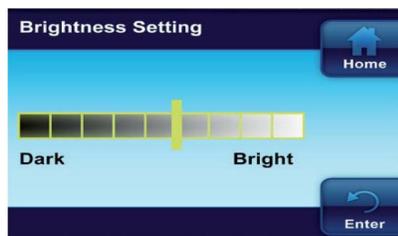
In addition to setting time and day on this menu, you can use the Display Settings menu to adjust the screen brightness, choose the background color, select the keypad backlight, and the auto dimmer. Other choices select what will be displayed on the Home screen, Time & Day, Outdoor Temp Display, Humidity Display and Alert Message Area.

1. On the Main Menu, highlight and **Enter Clock and Display Settings**
2. Highlight and Enter **Display Settings**



**Keypad Backlight** When selected **On**, the light on the keypad will be on to give the keypad better visibility. If selected **Off**, the keypad light will turn on for a short time when a button is pressed and then turn off again.

**Auto Dimmer** When selected **On**, the display will change to a darker background during the hours of 10:00 PM to 5:00 AM when no buttons are pressed. If selected **Off**, the display will remain at the same brightness.



### 3.9 Heating Program/Cooling Program

On the Main Menu, highlight and enter **Heating Program** or **Cooling Program**. Refer to section 4.



### 3.10 Fan Settings Menu

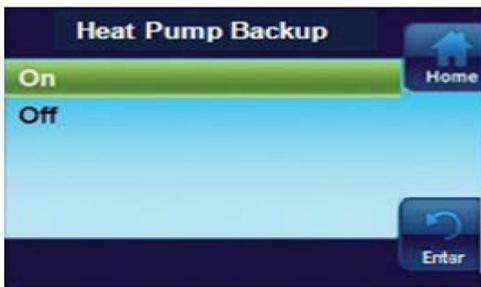
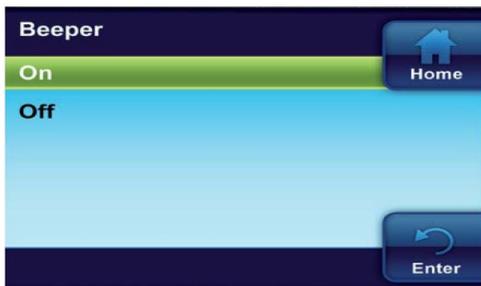
This menu selects the speed that the fan will run when selected On with the Fan button.

Enter **Fan "On" Speed**.

Default is **"Medium"**. Select fan speed of medium, low or high.



## 3.11 Thermostat Settings Menu



Additional thermostat operating settings are found in the Thermostat Settings Menu.

On the Main Menu highlight and enter **Thermostat Settings**

### Air Filter Maintenance/UV Lamp Maintenance Humidifier Maintenance

Default for each is **Off**. When set to **On**, a maintenance reminder will appear on the home screen when the system has run for the selected amount of time. The length of time for the maintenance reminder can be selected to a setting of 1 to 12 months.

Use ▲ or ▼ to select On or Off. When On is selected, set time of maintenance period using ◀ and ▶.

### °F or °C

Default is °F. Select temperature display to be in degrees Fahrenheit (°F) or Celsius (°C).

### Beeper

Default is **On**. Turns audible prompt on to indicate when a button is pressed.

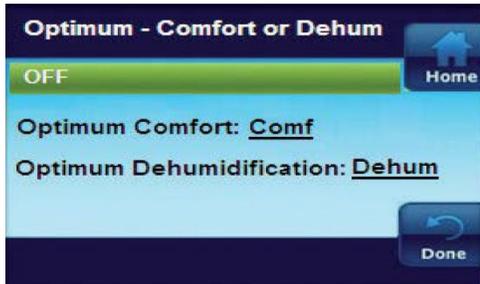
### Heat Pump Backup

Default is **On**. While on **Aux heat** or **Emergency heat**, if a loss of gas heat is detected, enables the heat pump heat.



### Auto Humidity Reduction

Default is **Off**. When selected **High** or **Low** provides the ability to minimize or reduce the window condensation by reducing the humidity setpoint when the outside temperature is cold.



### Optimum – Comfort or Dehum

Default is **Off**. When **Comf** option is selected the temperature is altered by the humidity to reflect the true comfort. When **Dehum** option is selected humidity reduction is maximized by continuing to cool below the temperature setpoint.



### Cycle Humidifier

Default is **Off**. When **On**, will cycle the humidifier on for 10 minutes and off for 10 minutes. This feature helps reduce water usage.



### EMR (*Energy Management Recovery*)

Default is **On**. With EMR selected **On**, the heating or cooling system will start early so the temperature in your home is at the desired temperature at the beginning of the program period. If set to **Off**, the system will not start until the beginning of the program period.



**Maximum Heat Setpoint Temp** – Default is **99°**.

**Minimum Cool Setpoint Temp** – Default is **45°**.

These settings are the highest temperature limit in **Heat** mode or the lowest temperature limit in **Cool** mode. Select a setting of **98°** to **45°** for the maximum heating temperature or **46°** to **99°** for the minimum cooling temperature.



### Temperature Display Adjust

Default is **0°**. Your thermostat was accurately calibrated at the factory. However, this option allows you to change the temperature displayed to match other thermostats in your home.



## Humidity Setpoint

Humidity setpoint is the percent humidity that the heating system and humidifier will attempt to maintain in heating mode.

Default for Humidity Setpoint is **45%**. Adjust the humidification setpoint to a value from 20% to 50%.



## De-Hum Setpoint

The Dehumidification setpoint is the percent of humidity that the cooling system will try to reach. Dehumidification is accomplished through control of the compressor and speed of the circulator blower.

Default for De-Hum Setpoint is **60%**. Adjust the dehumidification setpoint to a value from 40% to 95%.

## 4 Programming the thermostat

**Note:** It is recommended to disable the programming feature (section 3.5), or to program the same temperature for every hour of every day to optimize the comfort and efficiency of the system.

### 4.1 Energy Saving Factory Pre-Program

The thermostat is programmed from the factory with the energy saving settings shown below for every day of the week. If this program meets your needs, simply select either **Cool**, **Heat** or **Auto** using the System button and press  $\triangleleft$  to begin program operation.

	Wake Up ( Morning )		Work ( Day )		Return ( Evening )		Go to bed ( Night )	
Heat	6:00 AM	70°F	8:00 AM	62°F	5:00 PM	70°F	10:00 PM	62°F
Cool	6:00 AM	75°F	8:00 AM	83°F	5:00 PM	75°F	10:00 PM	78°F

### 4.2 Planning your Program

Your thermostat can be programmed in different profiles.



- **Entire Week** (Every day will have the same program)
- **Monday-Friday** (Monday-Friday will have the same program)
- **Saturday-Sunday** (Saturday-Sunday will have the same program)
- **Individual Days** (Each day will have a separate program)

Each day, or group of days, has four different time periods: Morning, Day, Evening and Night. Both the Heating and Cooling Programs are programmed the same way.

Keep the following guidelines in mind when planning your program:

- In Heating, lower temperatures will save energy.
- In Cooling, higher temperatures will save energy.
- If you plan on using auto-changeover, do not program your heating temperatures higher than your cooling temperatures.

## 4.3 Entering the Heating & Cooling Programs

Entire Week program illustrated below.



### Entering Heating Program

- On the Main Menu, highlight and enter **Heating Program**
- Highlight and enter **Entire Week**
- Press ▲ and ▼ to change the highlighted Time or Temperature to your desired settings
- Press ◀ or ▶ to highlight the next time or temperature
- Set all times and temperatures for all periods
- When you have completed setting all times and temperatures, press **Enter** to save and display the Heating Program menu. A checkmark appears to indicate the portion of schedule you have programmed

### Entering Cooling Program

After entering Heating Program, press ▶ to highlight **Switch to Cool Program** and press **M**, or enter **Cooling Program** on the Main Menu.  
Enter Cool program using same procedure.

If programming **Monday – Friday** and **Saturday – Sunday**, follow the above procedure.



Using **Individual Days** allows you to change the program settings of a single day or days. Highlight a day and press **M** to mark the box. Mark additional days you wish to have programmed the same. Press **Set** to begin entering the program for the selected day or days.

## 5 Diagnostics

### 5.1 Alert Info Detail

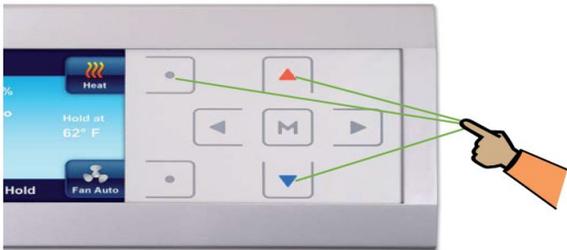


If the thermostat senses trouble with a component of your system (the heat pump, air handler, furnace or air conditioner), or a maintenance reminder appears, an alert will be displayed on the Home screen. Details of any alert can be found on the **Alert Info Detail** menu in the main menu. Your installing dealer contact information may also be displayed on this screen.

There are two levels of alerts:

- **Maintenance Reminder:** The maintenance reminder can be cleared and the timer reset by selecting **Clear Alert Message and reset timer** by pressing  $\triangleright$ .
- **Critical System Warnings:** If a Red system alert appears, contact your qualified service technician to have your system serviced.

### 5.2 Reset Operation



If a voltage spike or static discharge blanks out the display or causes erratic operation of your thermostat, you can reset it.

To reset the thermostat, press  $\blacktriangle$ ,  $\blacktriangledown$ , and System button at the same time.

**Note:** When the thermostat is reset, the Thermostat Settings, time and date, and programming schedule will be reset to the factory defaults. Refer to the customized settings for your thermostat recorded at the end of this manual. Use this manual to help restore the desired settings before they were reset. For your convenience, the factory default settings are shown.

## 5.3 Modulating Chinook System Fault Codes

Display Code	Diagnostic Description
1	Long Run Time
2	System Pressure Trip
3	Short Cycling
4 (L4)	Locked Rotor
5 (L5)	Open Circuit
6 (L6)	Open Start Circuit
7 (L7)	Open Run Circuit
9	Low Secondary Voltage
11	Failed Ignition
12	Low flame sense current
13	Flame lost after established
14	Flame present with gas valve off
21 (L21)	Low pressure switch trip
22	Main limit switch open
23	Auxiliary limit switch open
25	Condensate Overflow
26	Line Neutral Reversed
27	Check Line Voltage
28	High Line Voltage
29 (L29)	High pressure switch trip
30	Fuse open
33	MRLC open

Display Code	Diagnostic Description
44	Low press. switch closed (inducer off)
45	Low press. switch open (inducer high)
46	Low press. switch open (inducer low)
55	High press. switch closed (inducer off)
57	High press. switch open (inducer high)
60	Blower fault run
61	Blower fault no run
62	Check inducer and blower motors
66	RPM out of range (Over 1200 RPM)
68	No blower communication
71	No inducer control communication
77	No gas valve feedback
78	Servo control fault
79	No gas valve feedback
80	Low airflow
d1	No shared data
d3	Insufficient Indoor CFM
d4	Memory card invalid
d5	Card-hardware conflict
d6	Blower horsepower conflict
d7	Blower manufacturer conflict
d8	Old shared data

Please refer to equipment instructions for additional fault information.

## 6 Advanced Installer Menu

This menu allows the installer to check installer-specific information or set advanced settings. It is accessible from the Home screen when the ◀ and ▶ buttons are pressed at the same time for three seconds.

Select the items using the ▲ or ▼ buttons and press the  button to enter the item to view information or change settings. Press **Enter** button to save any changes and display the previous menu or press **Home** to display the Home Screen. If 2 minutes pass without any buttons pressed, the Home Screen will return and changes will not be saved.

Items on the Advanced Installer Menu are:

- Communicating Devices
- Fault Status
- USB Upload
- Thermostat Summary
- Heat Pump Disable\*
- Aux Lockout\*
- Dual Fuel Setpoint\*
- Heat Cycle Rate
- Cool Cycle Rate
- Humidity Display Adjust

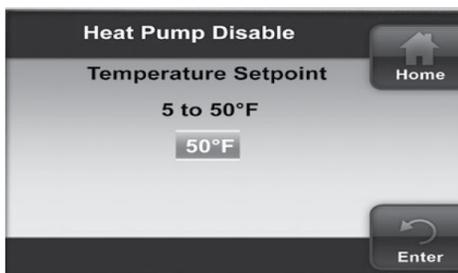
\*Items marked with \* may or may not appear in the list depending on the configuration of the system.

### Communicating Devices

This menu item will list each piece of system equipment connected to the network. The equipment can be selected and entered to view identifying information, operating information and setup status as described in section 6.1.

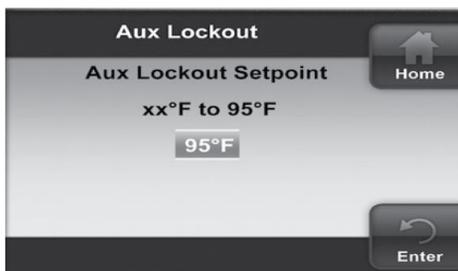
### Fault Status

This menu item lists current equipment fault conditions. The system equipment experiencing the Fault will be listed with details of the fault. If no faults are detected, this screen will show nothing.



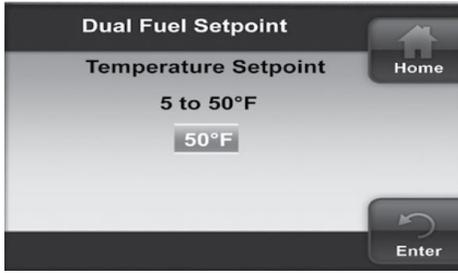
#### Heat Pump Disable

Available only for heat pump systems with indoor electric heat. This feature disables the heat pump and turns on electric heat below the selected outdoor temperature. The temperature range is from 5°F to 50°F.



#### Aux Lockout Temperature

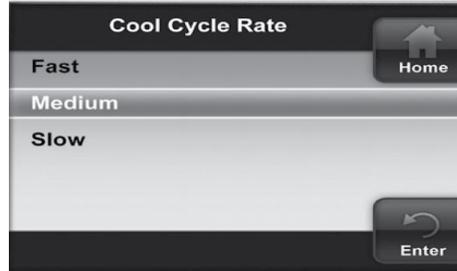
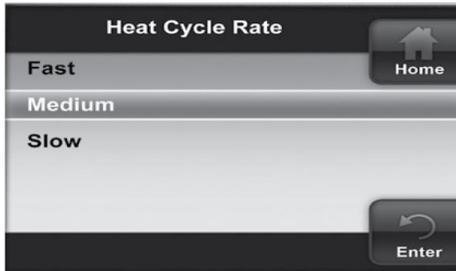
Available for heat pump systems. This feature disables the indoor (electric or gas) heat above the selected outdoor temperature. The temperature range is from the Heat Pump Disable setting to 95°F.



### Dual Fuel Setpoint

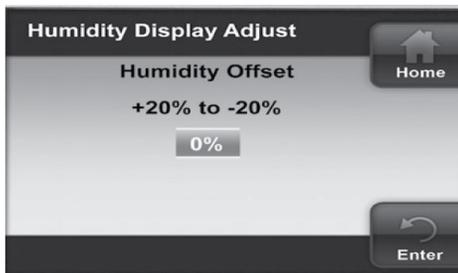
Similar to the Heat Pump Disable option, but with gas heat. As long as the outside temperature is above the Dual Fuel Setpoint, the compressor will operate. When the temperature drops below the setting, the thermostat will start the gas heat and shut off the compressor. The Dual Fuel feature eliminates the need for a fossil fuel kit.

The display will indicate 5°F (default). The temperature can be adjusted to a value between 5°F to 50°F.



### Heat/Cool Cycle Rate

Anticipation for heat/cool cycle can be adjusted. Default setting is **Medium**. If you wish to have longer cycles, change to **Slow**. For shorter cycles change to **Fast**.



### Humidity Display Adjust

Default is 0%. This option allows you to change the humidity displayed to match other thermostats in your home.

## 6.1 Equipment User Menu

Equipment operating information and options will be found on the **Advanced Installer Menu** in **Communicating Devices**. Equipment fault status and details will be found in **Fault Status**.

In the **Communicating Devices** menu, select the equipment listed that you wish to see information for. The display will indicate **Accessing the Device**. The list of parameters for the equipment will appear. Select the parameter you wish to view.

Each Equipment User Menu has submenus to divide the information into categories. Each piece of equipment has a different set of submenus, with different parameters depending on the equipment. The submenus and the information they provide are represented in the following tables.

A **X** in the following tables indicate alpha or numerical character.

## Chinook Gas Furnace User Menus

Main Menus	
<b>Status</b>	Used to display equipment information
<b>Fault History</b>	Display info. on last 6 error codes
<b>2 Week History</b>	Display operating info. of last 2 weeks
<b>Life History</b>	Display total operating info.
<b>Unit Info</b>	Display model and serial numbers
<b>Setup</b>	Adjustable settings

Status 1		
Parameter	Indications	Comments
Main Limit	Closed , Open	Main limit control status
MRLC Input	Closed , Open	Main reset limit control status
HALC Input	Closed , Open	Heat assist limit control status
IDM Output	Off , Lo , Hi	Inducer output status
Furn Lo Pr Sw	Closed , Open	Low pressure switch status
Furn Hi Pr Sw	Closed , Open	High pressure switch status
Gas VLV Prcnt %	XXX %, Off	Gas valve % open
Gas VLV Relay	Lo , Hi , On, Off	Gas valve control output status
Flame	Off , Marginal , Good , Unexpected	Status of flame sensor
Blower CFM	CFM XXXX	Furnace blower CFM

Status 2		
Parameter	Indications	Comments
Mode	Mod Heat , Lo Heat , Hi Heat , AC1, AC2, Fan, HP1, HP2, Off	Operating mode of the system
Motor Mfgr	Regblt, Emerson	Blower motor manufacturer
Motor RPM	RPM	Blower motro RPM
Maximum CFM	CFM XXXX	Maximum CFM blower provides
Temp Rise	NA, XXXF	Temp. diff. between supply and return
Return Temp	XXXXF, FLT	Return air temp. (if installed)
Supply Temp	NA (if disabled) , XXXXF, FLT	Supply air temp. (if installed and enabled)
HUM Output	On , Off	Humidifier output relay status
EAC Output	On , Off	Electronic air cleaner output relay status

Fault History		
Fault Code	Fault Occurred	Comments
XXXXXXXXXXXXXXXXXX	Days XX	Displat up to 6 faults; Days indicates how many days ago the fault occurred
Clear Faults	No , Yes	

2 Week History		
Parameter	Indications	Comments
2wk Lo HT Hrs	XXX	2 Week Low Heat Hours of Operation
2wk Lo HT Cycls	XXXX	2 Week Low Heat Cycles
2wk Hi HT Hrs	XXX	2 Week Low Heat Hours of Operation
2wk Hi HT Cycls	XXXX	2 Week Low Heat Cycles
2wk Y1 Hrs	XXX	2 Week 1st Stage Cooling/Heat Pump Hours of Operation
2wk Y1 Cycles	XXXX	2 Week 1st Stage Cooling/Heat Pump Cycles
2wk Y2 Hrs	XXX	2 Week 2nd Stage Cooling/Heat Pump Hours of Operation
2wk Y2 Cycles	XXXX	2 Week 2nd Stage Cooling/Heat Pump Cycles
2wk G Hrs	XXX	2 Week Blower Hours of Operation
2wk G Cycles	XXXX	2 Week Blower Cycles

Life History		
Parameter	Indications	Comments
Total Days Pwr'd	XXXX	Total days control has been powered
Lo HT Hrs	XXXXXX	Low Heat Hours of Operation
Lo HT Cycles	XXXXXX	Low Heat Cycles
Hi HT Hrs	XXXXXX	Low Heat Hours of Operation
Hi HT Cycles	XXXXXX	Low Heat Cycles
Y1 Hrs	XXXXXX	1st Stage Cooling/Heat Pump Hours of Operation
Y1 Cycles	XXXXXX	1st Stage Cooling/Heat Pump Cycles
Y2 Hrs	XXXXXX	2nd Stage Cooling/Heat Pump Hours of Operation
Y2 Cycles	XXXXXX	2nd Stage Cooling/Heat Pump Cycles
G Hrs	XXXXXX	Blower Hours of Operation

Unit Info		
Parameter	Indications	Comments
Model Number	XXXX-XXXXXXXXXXXXXXXXXX	Unit model number
Serial Number	XXXXXXXXXXXXXXXXXXXXXX	Unit serial number
Software Vers	XXXXXX	Control software version

Setup		
Parameter	Indications	Comments
Heat Rise Adjust	55F, 65F	Adjust heat temperature rise
Min Heat Adj %	-15, -7, 0, 7, 15	Airflow adjustments at 40% firing rate
Max Heat Adj %	-15, -7, 0, 7, 15	Airflow adjustments at 100% firing rate
Supply Air Sens	On , Off	If sensor is installed, turn on
Reset All Dflts	No , Yes	Reset furnace settings to factory defaults

Dipswitch *		
DIP	Indications	Comments
Cool Airflow	XXXXCFM	Airflow setting
Heat Rise %	Nom, Nom+10	Temperature rise setting
Min Heat Adj %	-15, -7, 0, 7, 15	Airflow adjustments at 40% firing rate
Max Heat Adj %	-15, -7, 0, 7, 15	Airflow adjustments at 100% firing rate
Fan Spd Select	Lo , Hi	Fan speed setting
AC-HP Adj	-10%, 0%, 10%	AC airflow setting
On-Demand Dehum	On , Off	Dehumidification setting
Test Mode	Off , 40% (70%), 100%	Test mode setting
AC HP Stg Mult	NA, 50%, 75%	Heat pump stage multiplier

\* Dipswitch status is not required when system is set up for 4-wire communications. It is only displayed when a conventional 24V thermostat input is active.

## Supreme Electric Furnace User Menus

Status		
Parameter	Indications	Comments
CFM	XXXX CFM	Current airflow
CMD	XXX %	% of active electric elements
Version	X_X_X	Firmware version

AC/HP <sup>1</sup>		
Parameter	Indications	Comments
AC/HP 1/2 Tons	0-10, FC*	Heat pump size in 1/2 tons
Mode	EFF, CO %	Efficient or Comfort mode
CFM/TON	300-500, FC*	Airflow per ton
AC Y1 Ratio	70-90, FC*	%CFM 1st stage cooling

<sup>1</sup> The items of this menu are locked or unused when connected to a communicating Alizé Heat Pump.

Dehum		
Parameter	Indications	Comments
Dehum Ratio	80-90	% CFM in dehumidification
Active Low	No , Yes	If DH input is active-low

Fan		
Parameter	Indications	Comments
Cont Fan Ratio	0-100, FC*	% CFM when fan on
Rise	20-80, FC*	Temperature rise (°F)

Autobackup		
Parameter	Indications	Comments
Enabled	No , Yes	If autobackup is enabled
Wait Time	0-120, FC*	Wait time before autobackup (min)
Update Delay	0-30, FC*	Time before updating autobackup command (sec)
Set PT Offset	0.0-3.5, FC*	Minimum offset with setpoint for autobackup (°F)
Rise	20-80, FC*	Temperature rise (°F) for autobackup

System		
Parameter	Indications	Comments
AC/HP ON Delay	005-120, FC*	Fan delay after AC/HP start
AC/HP OFF Delay	005-240, FC*	Fan delay after AC/HP stop
Ratio Max Pwr	20-100, FC*	% of max. power of the furnace

Reset		
Parameter	Indications	Comments
Factory Values	No , Yes	Reset furnace settings to factory defaults

\* FC values will be shown if a more precise value has been configured at the furnace control (refer to the Supreme furnace manual).

## Alizé Heat Pump User Menus

Status		
Parameter	Indications	Comments
Comp Speed	XX Hz	Compressor frequency
Fan Speed	XXX RPM %	Outdoor fan speed
Coil Temp	XX dF %	Indoor coil temperature (°F)
Tube Temp	XX dF %	Outdoor coil temperature (°F)
Comp Temp	XX dF %	Compressor discharge temperature (°F)
Version	X_X_X	Interface board firmware version

CFM/TON		
Parameter	Indications	Comments
Heat CFM/TON	250-750	CFM/TON in heating
Cool CFM/TON	250-750	CFM/TON in cooling
Dry CFM/TON	250-750	CFM/TON in dehumidification

Defrost		
Parameter	Indications	Comments
Defrost Fan %	0-100	% Fan during defrost
Defrost Heat	No , Yes	Use aux. heating during defrost. If yes, the <b>Defrost Fan %</b> option will set the heat % of the furnace.

Reset		
Parameter	Indications	Comments
Factory Values	No , Yes	Reset settings to factory defaults

## 7 Record of Thermostat Options

For your quick reference, below are the options selected by your installing dealer to optimize your equipment settings and your personal home comfort preferences. (Contractor to fill in value or check box.)

Thermostat Options Configuration Menu				Default
<b>Air Filter Maintenance</b>	___ Months			Off
<b>UV Lamp Maintenance</b>	___ Months			Off
<b>Humidifier Pad Maintenance</b>	___ Months			Off
<b>Temperature display</b>	<input type="checkbox"/> °F <input type="checkbox"/> °C	(Fahrenheit/Celcius)		°F
<b>Beeper</b>	<input type="checkbox"/> On <input type="checkbox"/> Off	(Button Input Confirmations)		On
<b>EMR</b>	<input type="checkbox"/> On <input type="checkbox"/> Off			On
<b>Max Heat Setpoint Temp.</b>	___ (98° to 45°)			99°
<b>Min Cool Setpoint Temp.</b>	___ (46° to 99°)			45°
<b>Humidity Display Adjust</b>	___% (1 to 20%)	<input type="checkbox"/> Hi(+)	<input type="checkbox"/> Lo(-)	0%
<b>Temperature Offset</b>	___ (0, 1, 2, 3, 4, 5°)	<input type="checkbox"/> Hi(+)	<input type="checkbox"/> Lo(-)	0°
<b>Continuous Fan Speed</b>	<input type="checkbox"/> High <input type="checkbox"/> Medium	<input type="checkbox"/> Low (Fan-On Setting)		Med
<b>Keypad Backlight</b>	<input type="checkbox"/> On <input type="checkbox"/> Off			On

### For Servicing:

Installing Dealer: \_\_\_\_\_

Phone: \_\_\_\_\_

Date Installed: \_\_\_\_\_

# Notes