

RECORD OF THERMOSTAT OPTIONS SELECTED

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. N/A = Not Applicable for your equipment or application.)

Installer Configuration Menu

	Factory Setting
On Demand Dehumidification: Set RH _____% (Relative Humidity)	OFF
Continuous Fan Speed: <input type="checkbox"/> High <input type="checkbox"/> Medium <input type="checkbox"/> Low (Fan-On Setting)	Medium
Program Days Per Week: <input type="checkbox"/> 7 Program Days <input type="checkbox"/> 0 / Non-Programmable	7
Energy Management Recovery: <input type="checkbox"/> On <input type="checkbox"/> Off	On
Continuous Backlight: <input type="checkbox"/> On <input type="checkbox"/> Off	On
Temperature Offset: _____ (0, 1, 2, 3, 4, 5°) <input type="checkbox"/> Hi (+) <input type="checkbox"/> Lo (-)	0°
Temperature Display: <input type="checkbox"/> °F <input type="checkbox"/> °C (Fahrenheit / Celsius)	°F
Beeper: <input type="checkbox"/> On <input type="checkbox"/> Off (Touch Key Input Confirmation)	On
Air Filter Maintenance: _____ Hours (System Runtime)	Off

Service Help:

If you need help adjusting the programmed time or temperatures in your thermostat, please call Homeowner Help Line at 800-284-2925.

For All Other Service, Please Call:

Installing Dealer: _____

Phone: _____

Date Installed: _____

MANUAL HI-123
WR MANUAL 0037-6944A

HOMEOWNER USER GUIDE



An Efficient, Reliable, Flexible Solution
To Your Indoor Comfort Needs

OVERVIEW

QUICK START

USAGE GUIDE

PROGRAMMING

SETUP

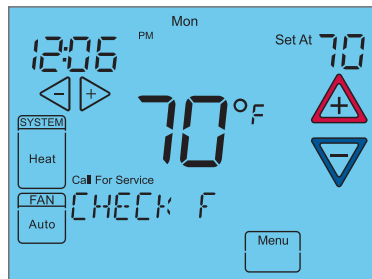
DIAGNOSTICS

CONTINUOUS DIAGNOSTICS

Diagnostics (Fault) Screen

The ComfortNET system continuously monitors itself for optimum performance. If it senses a problem developing, the touchscreen thermostat Home Screen Display will indicate **“Call for Service”** and **CHECK (Equipment Name)** in the scrolling message area to identify an equipment fault. When this is visible contact a qualified service technician.

If a serious fault is detected in any of the ComfortNET system components, the system will shut itself down and indicate a **“Call for Service”** is necessary. This active protection is a safeguard for your heating and cooling investment.



CHECK AIR CONDITIONER

CHECK AIR HANDLER

CHECK FURNACE

CHECK HEAT PUMP

Reset Operation

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

To reset the thermostat, touch **▲** and **▼** and the **SYSTEM** keys at the same time. The thermostat screen will go blank and then all segments will be displayed momentarily.

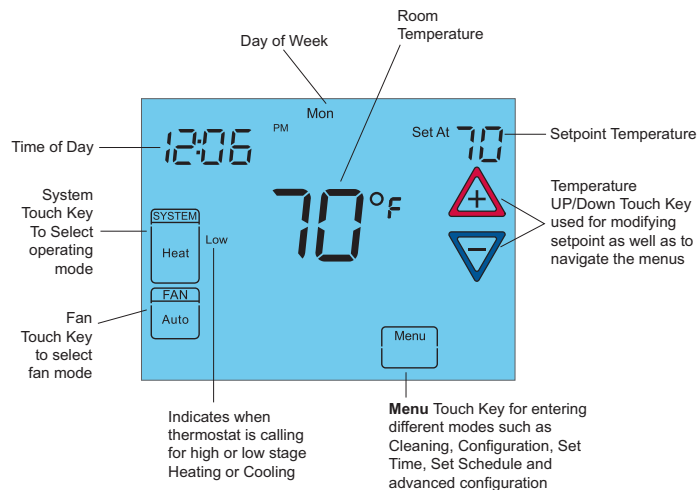
Note: When the thermostat is reset, the Thermostat Options Configuration Menu settings, time and programming schedule will reset to the factory settings. Resetting the thermostat will also result in the thermostat searching for installed equipment. Refer to the customized settings for your thermostat and system on the back cover of this book. Use this Guide to put Menu options back as they were before the thermostat Reset. For your convenience, Factory Settings are as shown.

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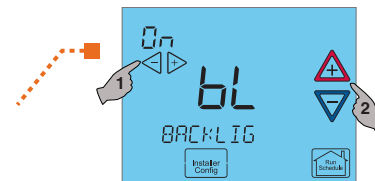
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TOUCHSCREEN THERMOSTAT DISPLAY OVERVIEW

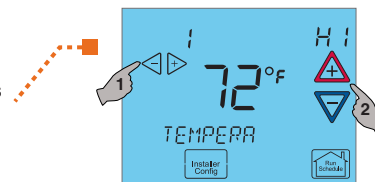
Home Screen Display



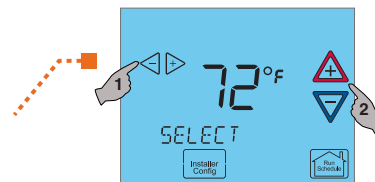
- **Select continuous backlight.** Scrolling message will show **"BACKLIGHT"**. When bL is selected ON the backlight will be on continuously. Selecting bL OFF will allow the backlight to turn on momentarily when the display is touched. If system power is off, and thermostat is operating on battery only, bL ON, will turn the backlight on momentarily when a key is touched.



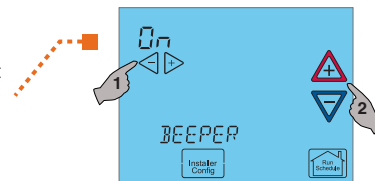
- **Select temperature offset.** Scrolling message will show **"TEMPERATURE ADJUSTMENT"**. Your thermostat was accurately calibrated at the factory, however this option allows you to change the display temperature to match your previous thermostat if you prefer. Default is 0° with current temperature. Adjustment can be made from 5° Lo to 5° HI to change the displayed temperature.



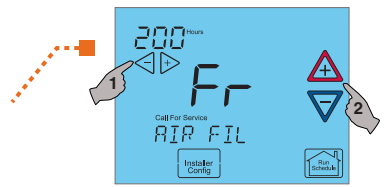
- **Select temperature display as Fahrenheit or Celsius.** Scrolling message will show **"SELECT TEMPERATURE DISPLAY"**. This option selects the temperature display as °F or °C.



- **Select beeper** (audio prompt) Default is On for the beeper to indicate a touch key selection. It can be changed to OFF.



- Select air filter maintenance reminder.** Scrolling message will show **"AIR FILTER MAINTENANCE"**. Default is OFF. It can be changed to a setting from 25 to 1975 hours in increments of 25 hours to select the amount of time for the reminder. Consult your contractors for the hours and type of filter. Setting of 225 hours is typically 3 months of run time.



When the system has run for the selected length of time, the scrolling message area will show **"CHANGE FILTER"** to indicate maintenance is required.

Note: When in the Thermostat Options Configuration Menu, holding the Installer Config key for 3 seconds again will change the display to the Advanced Installer Configuration Menu. Adjustments in this mode should only be performed by qualified service personnel. Refer to the installation manual for more details. To exit this menu and return to the Thermostat Options Configuration Menu, press the Menu key, or press Run Schedule to return to the Home Screen Display.

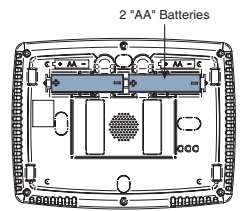
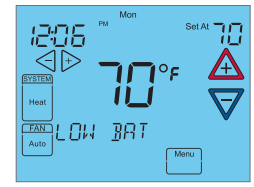
Battery Location

2 "AA" alkaline batteries are included in the thermostat to keep time during a power outage. They are also required for armchair programming.

If **"LOW BATTERY"** is displayed in the scrolling message area, the batteries are low and should be replaced with fresh batteries. For best results use premium brand alkaline batteries, such as Duracell® or Energizer®.

To replace batteries, set thermostat **SYSTEM** touch key to **Off**, remove thermostat from wall by grasping the top and bottom of the thermostat and pulling straight away from the wall. The base will remain on the wall. Install the batteries in the rear along the top of the thermostat. Reposition the thermostat over the base plate and gently snap into place.

When thermostat is replaced, **"Searching"** will appear in the scrolling message area to indicate searching for equipment, then **<equipment> FOUND** will be shown.



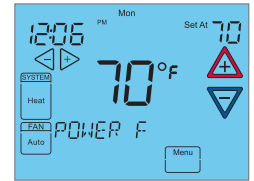
Note: After replacing the batteries, it will search for and find the installed indoor and outdoor equipment. The thermostat will scroll the word **SEARCHING** while searching for the equipment. The message (Equipment Name) **FOUND** will be scrolled once it finds the installed equipment.

Armchair Programming

The thermostat uses 24 Volt AC power supplied by the system for normal operation. However, with "AA" batteries installed, the thermostat can be removed from the wall for convenient programming. Set thermostat **SYSTEM** touch key to **Off** before removing.

System Power Loss

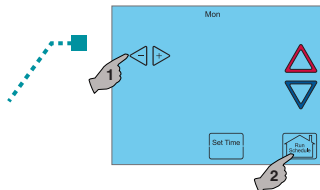
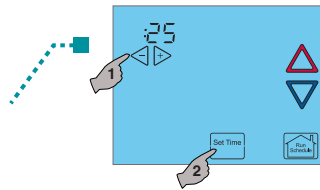
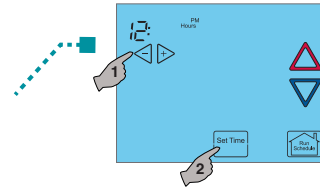
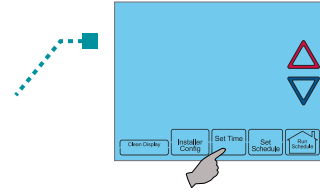
When thermostat loses 24 Volt AC power supplied by the system, the scrolling message area will display **"Power Fail"**.



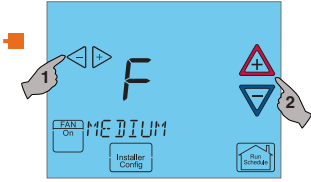
QUICK START GUIDE

Set Current Time and Day

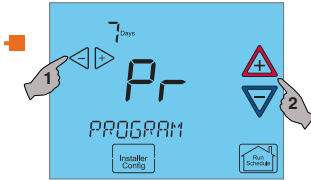
- On Home Screen Display, touch the **Menu** key to display additional key choices.
- Touch **Set Time** once to display hour and AM or PM designation in clock display.
- Touch either the ◀ or ▶ key until you reach the correct hour and AM or PM designation. Then touch **Set Time** again to display minutes only in clock display.
- Touch and hold either the ◀ or ▶ keys until you reach the correct minutes. Then touch **Set Time** once again to display the day of the week.
- Touch either the ◀ or ▶ key until you reach the correct day.
- Touch **Run Schedule** to save the Time and Day settings and return to the Home Screen Display.



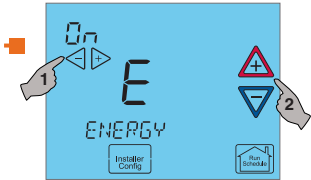
- **Select continuous FAN speed.** Default is Medium. It can be set to High, Medium or Low. In High, the fan will operate at 70% of the highest fan speed when the FAN key is in the ON position. In Medium will be 50% for the highest fan speed and Low the fan speed will be approximately 30% of the highest fan speed.



- **Select program days per week.** Scrolling message will show "PROGRAM TYPE". Default is 7 Days to indicate individual day programming. It can be changed to 0 Days to indicate no programs will be run. When set for 7 Days, the thermostat will follow the factory program or the program that you entered.



- **Select Energy Management Recovery.** Scrolling Message will show "ENERGY MANAGEMENT RECOVERY". (Will not appear if Program days per week is set to 0 days.) When selected On, the thermostat will begin heating or cooling early to have the temperature reach the program setpoint at the program period start time.

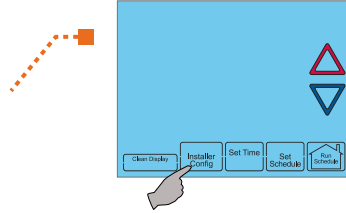


Example: The heating program is 65° at night and 70° at 7 AM for the Morning period. The building temperature is 65°, a difference of 5°. Allowing 5 minutes per °F rise, the thermostat will begin the system at 6:35 AM to reach 70° at 7 AM.

SETTING UP YOUR THERMOSTAT OPTIONS

The Thermostat has comfort and performance options that can be selected and adjusted. These options are in the Thermostat Options Configuration Menu. On the Home Screen Display, touch the **Menu** key to display additional key choices.

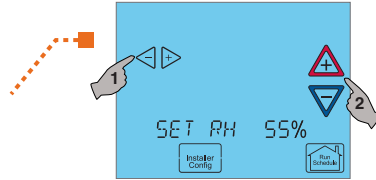
- Touch and hold the **Installer Config** key for 3 seconds. This displays the first menu item as shown in the next step. Touch \triangleleft or \triangleright to change a menu option. Touch \triangleup to advance to the next menu item or \triangledown to return to the previous menu item. Touch **Run Schedule** at any time to exit the menu and return to the Home Screen Display.



- Select On Demand Dehumidification setting.** Default is OFF. It can be set in the range of 40 to 94%. Ideally, the indoor humidity should be set at 55%.

When On Demand Dehumidification is selected, the thermostat will indicate the current humidity on the home screen. The display will show **RH** with the humidity %. If the current humidity is above the selected setting, the thermostat will send an On Demand Dehumidification request.

On Demand Dehumidification improves the comfort level in your home by reducing the humidity level. This is accomplished by slowing down the system fan speed and lengthening the run time. The system priority is to maintain the temperature in the home.



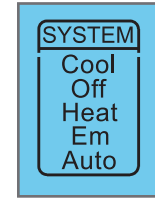
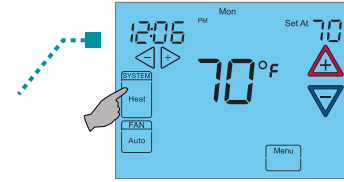
Choose the System Mode (Cool, Off, Heat, Em, Auto)

Touch the **SYSTEM** key to select:

- Off:** Heating and Cooling systems are off.
- Cool:** Cooling system is activated.
- Heat:** Heating system is activated.
- Em:** Emergency heating system is activated.

Auto: 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 automatically prevents programming a conflict between Heating and Cooling.



Energy Saving Factory Pre-Program

This touchscreen thermostat is programmed with the energy saving settings shown in the table below for all days of the week. If this program suits your needs, simply touch the **Run Schedule** key.

Factory Pre-Programmed heating and cooling schedule for all days of the week

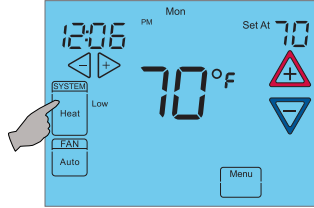
	Wake Up (Morning)		Leave For Work (Day)		Return Home (Evening)		Go To Bed (Night)	
Heating Program	6:00 AM	70°F	8:00 AM	62°F	5:00 PM	70°F	10:00 PM	62°F
Cooling Program	6:00 AM	75°F	8:00 AM	83°F	5:00 PM	75°F	10:00 PM	78°F

If you wish to set your heating and cooling schedule to something other than the factory pre-programmed settings, please proceed to the "**Programming Your Thermostat**" section.

USING YOUR THERMOSTAT

System Operation

Touch the **SYSTEM** key to select the thermostat operating mode desired. When the system is calling for first stage heat or cool, “**Low**” will display on the touchscreen. When second stage is required, the display will show “**High**”. The setpoint temperature can be changed by touching the **▲** or **▼** keys.



Temporary Program Override

This feature will override the program temperature setting until the next program period begins. Touch **▲** or **▼** keys to adjust the temperature. The display will indicate “**Temporary Hold At**” to the left of the setpoint temperature. To cancel the temporary setting before the next period begins, touch **Run Schedule** to return to the program.

Example: If you turn up the heat during the Morning program, it will remain at the new temperature until the time for the next program period (Day program).

Permanent Temperature Hold

The Permanent Temperature Hold feature bypasses the program and allows you to adjust the temperature manually as needed. The temperature you set in Hold will be maintained indefinitely. Touch **Run**

Schedule to cancel Hold and resume the programmed schedule.

Touch **▲** or **▼** keys to adjust the temperature. The **Hold** key will appear on the screen. Touch the **Hold** key to maintain the new setpoint temperature. “**Hold At**” will display to the left of the temperature setpoint. To cancel the permanent hold setting at any time and return to the program, touch **Run Schedule**.

Example: If you turn up the heat during the Morning program and touch the **Hold** key, it will remain at the new temperature until you touch **Run Schedule** or you manually adjust to another temperature.

Programmable Fan

The indoor fan/blower can be selected to turn on and off with the cycle of the system or to run for the entire period whether the system is on or off. In the Set Schedule mode, the **FAN** key is used to select the fan operation during a program period. The default state of the **FAN** key is **FAN Auto**. It can be changed to **FAN Prog**.

In the Run Schedule mode, during a program period that has **FAN Prog** scheduled, the fan will turn on and stay on during the complete period. The display will show **FAN On Prog**. The programmable fan can be overridden by touching the **FAN** key to select **Auto** or **On**.

Enter the Heating Program

1. Touch the **Menu** key to display additional key choices.
2. Touch the **Set Schedule** key. The top of the display will show the day being programmed. The time and Set At temperature are also displayed. “**MORNING**” will also be displayed to indicate the period.
3. Touch **SYSTEM** key to select **Heat** in the **SYSTEM** switch area indicating the active mode being programmed. You can change to the other mode by touching the **SYSTEM** key at any time.
4. Touch **▲** or **▼** key to change the temperature to your selected temperature for the 1st heating period (Morning).

5. Touch **◀** or **▶** key to adjust the start time for period. The time will change in 15 minute increments.
6. Touch **FAN** to select **Auto** or **Prog**.
7. After you have set the time and the temperature for the period to begin, touch **Set Schedule** to advance to the next program period.
8. Repeat steps 4 through 7 until all of the program times and temperatures are set for all program periods for that day.
9. Use the **Copy** Key to copy the program as described previously or touch **Advance Day** to change to the next day and repeat steps 4 through 9 until programs for all days are entered.
10. When programming is complete and all of the times and temperatures match your desired heating schedule, touch **Run Schedule**. The thermostat will now run your program.

Enter the Cooling Program

1. Touch the **SYSTEM** key until the Cool icon appears.
2. Follow Enter Heating Program instructions for entering cooling times and temperatures.

3. Touch the **Advance Day** key until the day you wish to copy to is flashing and the day you are copying is on. The scrolling message will show **"COPY ONE DAY"**.
4. Touch the **Copy** key. The scrolling message will change to **"MORNING"**. The day you copied from will disappear and the day you copied to will remain on.

5. If you wish to copy this same program into other days, touch the **Copy** key and repeat steps 3 and 4.
6. Touch the **Run Schedule** key to return to normal operation.

Fill in the blank worksheet provided below with your desired times, temperatures and fan operation:

Worksheet for Re-Programming 7 Day Program

Heating Program	Wake Up (Morning)			Leave For Work (Day)			Return Home (Evening)			Go To Bed (Night)		
	Time	Temp	FAN	Time	Temp	FAN	Time	Temp	FAN	Time	Temp	FAN
MON	6:00 AM	70°F	Auto	8:00 AM	62°F	Auto	5:00 PM	70°F	Auto	10:00 PM	62°F	Auto
TUE												
WED												
THU												
FRI												
SAT	6:00 AM	70°F	Auto	8:00 AM	62°F	Auto	5:00 PM	70°F	Auto	10:00 PM	62°F	Auto
SUN	6:00 AM	70°F	Auto	8:00 AM	62°F	Auto	5:00 PM	70°F	Auto	10:00 PM	62°F	Auto

Cooling Program	Wake Up (Morning)			Leave For Work (Day)			Return Home (Evening)			Go To Bed (Night)		
	Time	Temp	FAN	Time	Temp	FAN	Time	Temp	FAN	Time	Temp	FAN
MON	6:00 AM	75°F	Auto	8:00 AM	83°F	Auto	5:00 PM	75°F	Auto	10:00 PM	78°F	Auto
TUE												
WED												
THU												
FRI												
SAT	6:00 AM	75°F	Auto	8:00 AM	83°F	Auto	5:00 PM	75°F	Auto	10:00 PM	78°F	Auto
SUN	6:00 AM	75°F	Auto	8:00 AM	83°F	Auto	5:00 PM	75°F	Auto	10:00 PM	78°F	Auto

Choose the FAN Setting (Auto or On)

FAN Auto is the most commonly selected setting and runs the fan automatically when the heating or cooling system is on.

FAN On selection runs the fan continuously for increased air circulation or to allow additional air cleaning. When **FAN** is selected **On**, it will run at the speed selected in the Thermostat Options Configuration Menu.



Auxiliary Heating

The system automatically activates Auxiliary Heating when the outside temperature is too cold for the heat pump to efficiently heat the home. When Auxiliary Heating is called for, the display will show **"Auxiliary Heat"**.

Emergency Heating

Heat pump malfunction is rare, but should it happen, Emergency Heat can be manually activated by touching the **SYSTEM** key to **Em**. This will start the electric or fossil fuel system to provide heat. The display will show **"Auxiliary Heat"**.

Non-Programmable Mode

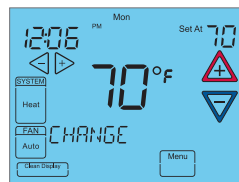
If Program days per week is set for 0 days (Non-programmable) in the Thermostat Options Configuration Menu, the thermostat will not follow any program periods. Time of day and day of week will not display. Touch the **SYSTEM** key to select Heat or Cool and use the **▲** or **▼** buttons to adjust the temperature to your desired setting.

Auto Mode

In Programmable mode or Non-programmable mode, you can touch the **SYSTEM** key to select **Auto** to allow the thermostat to automatically change between Heat and Cool. When the **SYSTEM** key is touched to select **Auto** the thermostat will change to Heat or Cool, whichever ran last. If it switches to heat but you want cool, or it changes to cool but you want heat, touch both **▲** or **▼** keys simultaneously to change to the other mode.

Maintenance Reminder Message

A reminder will display in the scrolling message area when it is time for accessory maintenance if selected in the Thermostat Options Configuration Menu. When a reminder appears, it can be cleared by touching the **Clean Display** key. This will also reset the timer to begin a new time period for the reminder.



Air Filter Maintenance - When the system has run for the selected length of time, the scrolling message area will show **"CHANGE FILTER"**

A blue rectangular box containing the text 'CHANGE FILTER' in white capital letters, representing the scrolling message area on the thermostat display.

CHANGE FILTER

PROGRAMMING YOUR THERMOSTAT

Planning Your Program – Important

This thermostat is set up for 7 independent day programming with 4 time/temperature periods per day.

The Heating and Cooling Worksheet on page 12 allows you to pencil in your own program times and temperatures. Factory settings are listed on Monday (for Monday thru Friday), Saturday and Sunday.

If you are re-programming all 7 days, fill in all lines with the times and temperatures you want. Use this worksheet as a guide to reprogram the thermostat.

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 the heating temperatures higher than those for cooling.

Programming Tip: Copy Program

When programming your thermostat, you may copy the program from one day to another day or to all six other days.

To copy a program from one day to all other days:

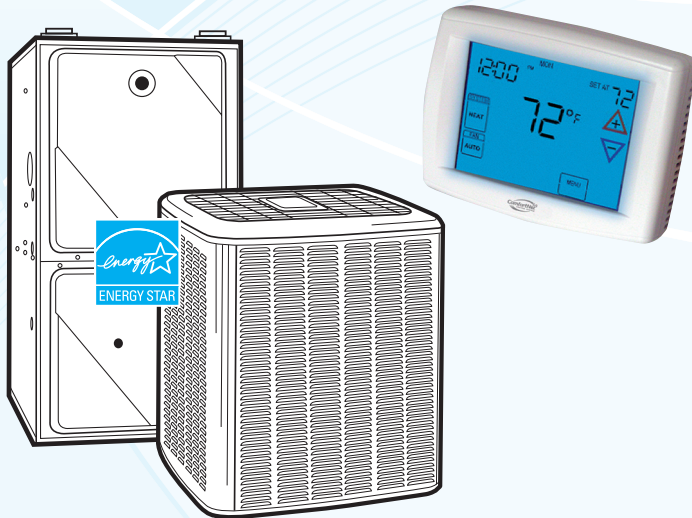
1. In Set Schedule mode, enter the program for the day or select the day you wish to copy by touching the **Advance Day** key.
2. Touch the **Copy** key. The day of the week that will be copied is on and the other days of the week will be flashing. The scrolling message will show **"COPY EVERY DAY"**
3. Touch the **Copy** key again. The scrolling message will change to **"MORNING"**. The day you copied will remain on.
4. Touch the **Run Schedule** key to return to normal operation.

To copy a program from one day to another day:

1. In Set Schedule mode, enter the program for the day or select the day you wish to copy by touching the **Advance Day** key.
2. Touch the **Copy** key. The day of the week that will be copied is on and the other days of the week will be flashing. The scrolling message will show **"COPY EVERY DAY"**

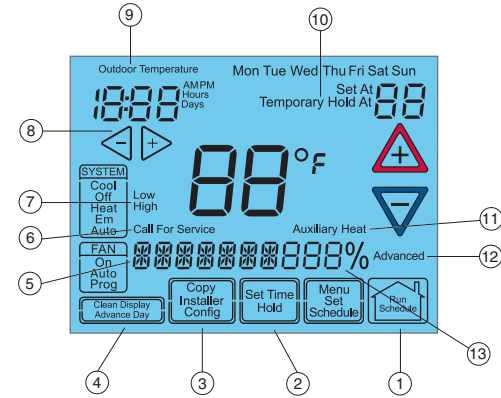
CONGRATULATIONS

You have chosen one of the easiest-to-use home comfort system available today. Your **ComfortNET™ Touchscreen Thermostat System** will provide your home with improved comfort, optimal energy efficiency, and money-saving enhanced reliability and performance. Your ComfortNET Touchscreen Thermostat constantly communicates with your indoor and outdoor heating and cooling components to reliably and efficiently provide you with the utmost in home comfort and peace of mind. This system is so smart it even lets you know when a service call is needed to maintain the performance of your home's heating and cooling investment.



Touch Keys for Programming and Configuration Items

Display of All Possible Icons and Touch Keys Used by Thermostat



1. **Run Schedule** touch key to exit any menu and begin operating the program.
2. **Set Time** touch key used for setting thermostat time (page 6) or **Hold** touch key used to permanently override program temperature (page 8).
3. **Copy** touch key used to copy programs (page 11) or **Installer Config** touch key used to enter menu to set thermostat options (page 14).
4. **Clean Display** touch key allows 30 seconds to wipe off the display. Clean Display will also reset change filter. **Advance Day** touch key used for programming (page 12).
5. **Scrolling Message Center** Displays system information or maintenance reminder during thermostat operation. Displays thermostat information during setup and programming. If a message is 7 characters or less, the complete message will display. A message longer than 7 characters will scroll beginning at the right-most digit and scrolling to the left.
6. **"Call For Service"** indicates a fault in the heating or cooling system (page 19). It does not indicate a fault in the touchscreen thermostat.
7. **"Low"** indicates when heating or cooling first stage is called for. **"High"** indicates when a second stage is called for (page 8).
8. **◀** and **▶** used in programming to set time and in configuration menu to change selections (page 14).
9. **"Outdoor Temperature"** indicates the outdoor remote temperature sensor is being accessed. Outdoor temperature reading will display in time of day area. Feature available in both heat pump and A/C models.
10. **"Hold At"** is displayed when the thermostat is in the **Hold** mode (page 8). **"Temporary Hold At"** is displayed when the thermostat is in a temporary **Hold** mode (page 8).
11. **"Auxiliary Heat"** indicates the auxiliary heating or emergency heating is on (page 9). (Heat Pump system only).
12. **"Advanced"** indicates the Advanced Installer Configuration Menu used by your contractor during setup.
13. **"RH XX%"** displays the indoor humidity (page 14).