Robertshaw®

9801i
9815i
9820i

DELUXE
PROGRAMMABLE
THERMOSTATS

MONDAY   12:00 PM

70.0°F   HEAT
                    FAN ON
◈30%RH   SET AT 70
                    OUTSIDE 40

HOLD   MENU

Robertshaw

Humidity
Sensing

COOL   FAN   HEAT

User's Manual

Menu Driven Display

Humidity
Sensing

Integrated Humidity Control

24 VAC with Worry-Free
Memory Storage

English and Spanish Menus

energy ENERGY STAR
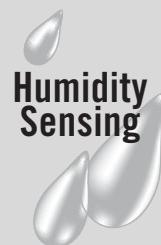
110-1057C   Two Year Warranty
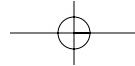
IMPORTANT SAFETY INFORMATION

⚠️ WARNING:

- Always turn off power at the main power source by unscrewing fuse or switching circuit breaker to the off position before installing, removing, or cleaning this thermostat.

- Read all of the information in this manual before programming this thermostat.

- This is a 24V AC low-voltage thermostat. Do not install on voltages higher than 30V AC.

- All wiring must conform to local and national building and electrical codes and ordinances.

- Do not short (jumper) across terminals on the gas valve or at the system control to test installation. This will damage the thermostat and void the warranty.

- Do not connect ground to any terminal in this unit.

- This thermostat is equipped with automatic compressor protection to prevent potential damage due to short cycling or extended power outages. The short cycle protection provides a 5-minute delay between heating or cooling cycles to prevent the compressor from being damaged.

- Do not switch system to cool if the temperature is below 50°F (10°C). This can damage the cooling system and may cause personal injury.

- Use this thermostat only as described in this manual.
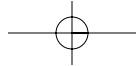
TABLE OF CONTENTS

How do I change the time of day and day of the week?

MONDAY   **3:29 PM**

78.1

COOL
FAN AUTO
SET AT 78

30%RH

HOLD TEMP   **MENU**

From the main screen press MENU.

MENU

BACK
▲

DAY / TIME
FAN
USER SETTINGS
INSTALLER SETTINGS

HOME   **SELECT**

Use the UP or DOWN arrows to highlight DAY/TIME.
Press SELECT.

SET DAY & TIME

DAY   **FRIDAY**
HOUR   **12 PM**
MINUTES   **06**

MAIN MENU   **SET**

Use the UP or DOWN arrow to highlight DAY, HOUR
or MINUTES. Press SET.

SET DAY & TIME

DAY   **FRIDAY**
HOUR   **12 PM**
MINUTES   **31**

MAIN MENU   **SET**

Use the UP or DOWN arrow to scroll through
the days of the week, hours or minutes.
Press SET to select desired value.
Press MAIN MENU when complete.
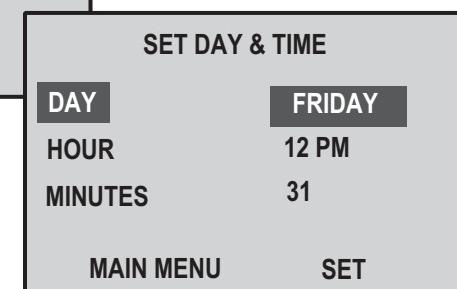
How do I turn on the heating or cooling cycles?

MONDAY	3:29 PM

78.1

30%RH

COOL
FAN AUTO
SET AT 78

HOLD TEMP   MENU

From the main screen press MENU.

MENU

PROGRAM
HEAT / COOL
DAY / TIME
FAN
▼
MORE

HOME   SELECT
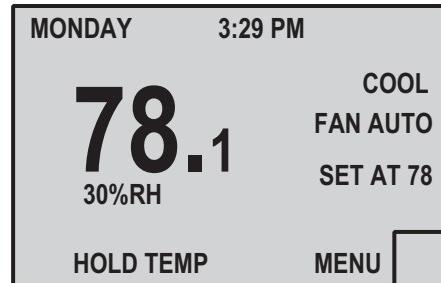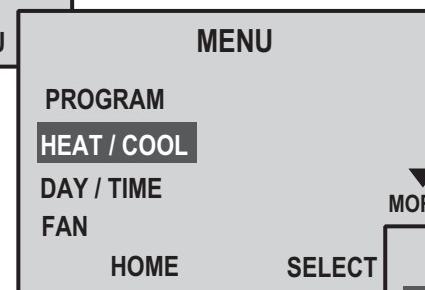
Use the UP or DOWN arrows to highlight HEAT/COOL.
Press SELECT.

HEAT / COOL SETTINGS

HEAT
COOL
AUTO
EMERGENCY HEAT

MAIN MENU   SELECT
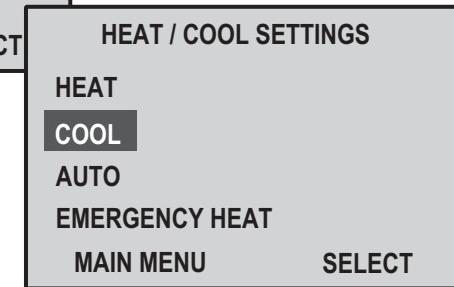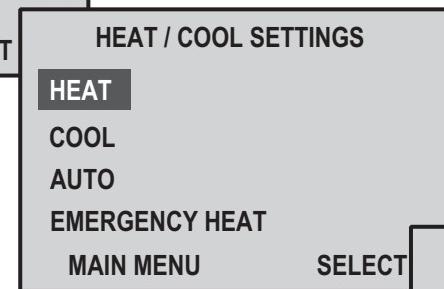
Use the UP or DOWN arrows to highlight HEAT, COOL
or AUTO. Press SELECT. The SELECT button will turn
on (or off) the desired cycle. You do not have to turn off
HEAT to turn on COOL. When HEAT or COOL or AUTO
is turned on, all others are automatically shut off. After
pressing the SELECT button, the main screen will
automatically appear.

NOTE: Emergency heat is used only on the 9820i model.
NOTE: AUTO appears only if Auto Changeover is turned on in the Installer Settings.

HEAT / COOL SETTINGS

HEAT
COOL
AUTO
EMERGENCY HEAT

MAIN MENU   SELECT

5
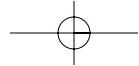
What do the LED's below the display mean?

The LED's indicate when the HVAC system is activated. With a call for heating or cooling, the HEAT or COOL LED will be illuminated.

The AUX LED indicates the second stage of heating or cooling.

The CHECK LED is used only on the 9820i. It indicates the heat pump should be serviced by a qualified technician.

The EMER LED indicates that the emergency heat is turned on.

How do I cycle the fan?

```
MONDAY          3:29 PM

                       COOL
78.1              FAN AUTO

30%RH              SET AT 78

HOLD TEMP       MENU
```

From the main screen press MENU.

```
        MENU
PROGRAM
HEAT / COOL
DAY / TIME           ▼
FAN                  MORE

    HOME        SELECT
```
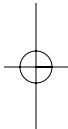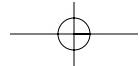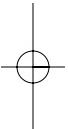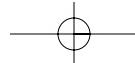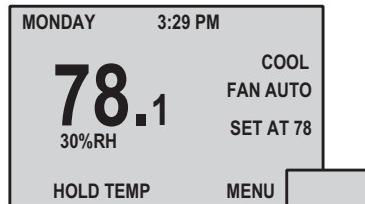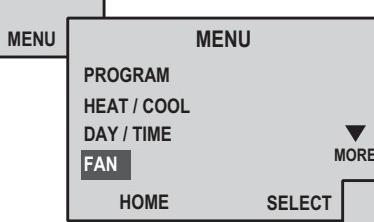
Use the UP or DOWN buttons until FAN is highlighted. Press SELECT.

```
        FAN MENU
FAN SETTINGS
FAN PROGRAM

    MAIN MENU      SELECT
```
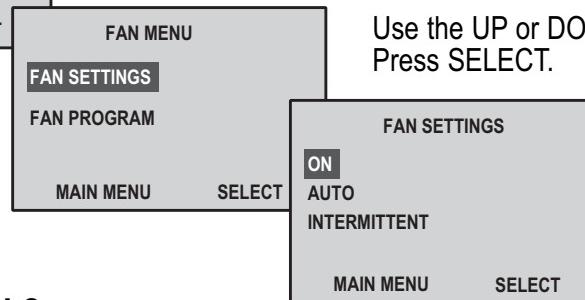
Use the UP or DOWN buttons to highlight FAN settings. Press SELECT.

```
        FAN SETTINGS
ON
AUTO
INTERMITTENT

    MAIN MENU      SELECT
```

Three choices are available:
ON will turn the fan on continuously.
AUTO will turn the fan on only when there is a call for heating or cooling.
INTERMITTENT will turn the fan on for a set period of time for a given interval. Highlight the choice you desire and press SELECT.

How does INTERMITTENT FAN work?

```
        INTERMITTENT FAN

ON     TIME      5  MIN

OFF    TIME      20 MIN

    FAN MENU        SELECT
```
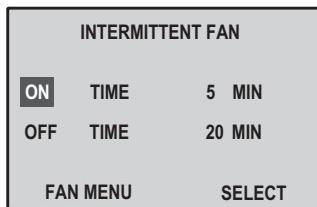
INTERMITTENT will turn the fan on for a set period of time for a given interval.

The thermostat will cycle the fan on for the set ON cycle. The fan will remain off for the set OFF cycle.

If the HVAC system runs for a longer period than the ON cycle, the OFF cycle will start counting over again when the system shuts off.
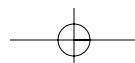
How do I temporarily change the temperature?

```
MONDAY          3:29 PM

                        COOL
78.1               FAN AUTO
                     SET AT 78
30%RH

HOLD TEMP         MENU
```
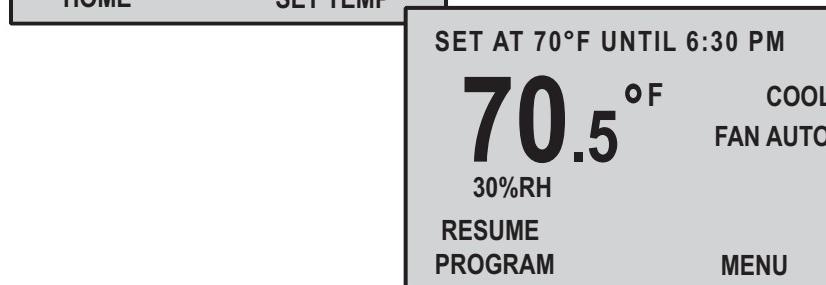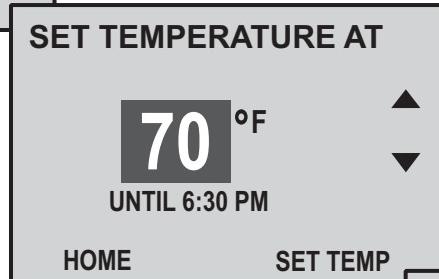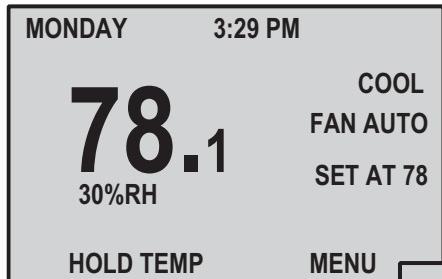
From the main screen, press the UP or DOWN button. The screen will change to the following.

```
SET TEMPERATURE AT

                          ▲
70 °F
                          ▼
UNTIL 6:30 PM

HOME             SET TEMP
```

Use the UP or DOWN button to adjust to the desired temperature. This is a temporary 3-hour hold or until the next programmed event, whichever is shorter. For a longer duration see page 9.

```
SET AT 70°F UNTIL 6:30 PM

70.5 °F        COOL
                 FAN AUTO
30%RH

RESUME
PROGRAM              MENU
```

After pressing the SET TEMP button or after 5 seconds the screen will indicate the new setpoint and its duration. To return to the normal operating program mode, press RESUME PROGRAM.
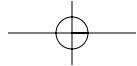
Can I set a temporary adjustment for longer than 3 hours?

MONDAY   3:29 PM

78.1

COOL
FAN AUTO
SET AT 78

30%RH

HOLD TEMP   MENU
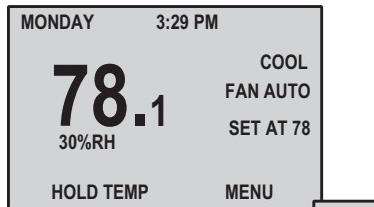
Yes you can! Press the HOLD TEMP button. The following screen appears.

HOLD SETTINGS

PERMANENT HOLD

TEMPORARY HOLD

VACATION HOLD

HOME   SELECT
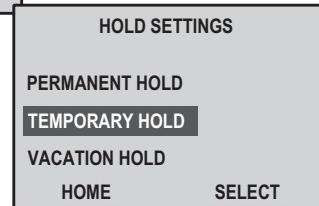
Press the DOWN button to highlight TEMPORARY HOLD. Press SELECT.

TEMPORARILY AT

70 °F

▲
▼

UNTIL 3:50 PM

HOLD MENU   SET TEMP
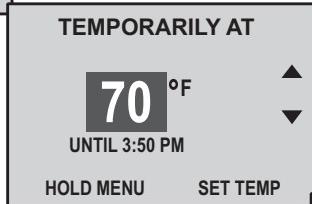
The temperature should be highlighted. Press the UP or DOWN button to adjust the temperature. Press SET TEMP.
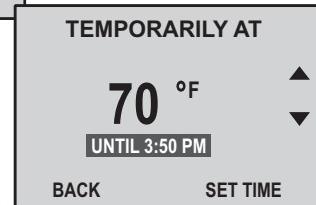
The time should be highlighted. Press the UP or DOWN button to adjust the time. Press SET TIME.

TEMPORARILY AT

70 °F

▲
▼

UNTIL 3:50 PM

BACK   SET TIME

SET AT 70°F UNTIL 3:50 PM

77.0°F

COOL
FAN AUTO

RESUME PROGRAM   MENU

The main screen will now indicate a TEMPORARY HOLD until the desired time. Press RESUME PROGRAM to return to the program operating mode.
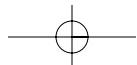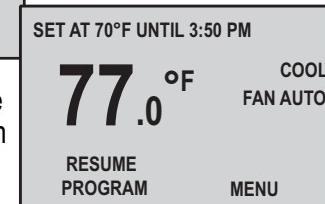
Can I set the thermostat to hold one temperature indefinitely?

```
MONDAY        3:29 PM
                    COOL
78.1           FAN AUTO
                  SET AT 78
30%RH

HOLD TEMP      MENU
```
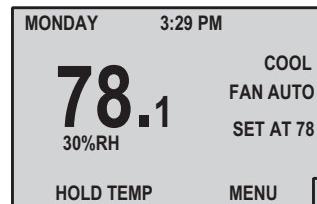
You can do that too! From the main screen press the HOLD TEMP button. The following screen appears.

```
        HOLD SETTINGS

PERMANENT HOLD

TEMPORARY HOLD

VACATION HOLD
     HOME        SELECT
```
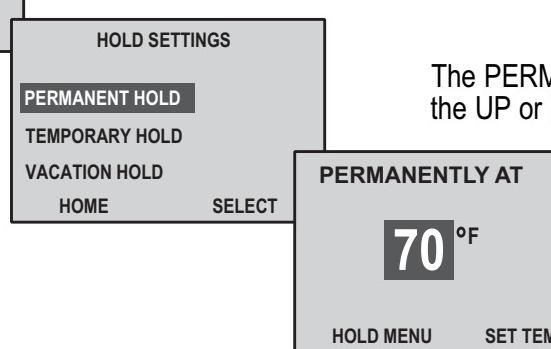
The PERMANENT HOLD feature should be highlighted. If it is not, use the UP or DOWN arrow to highlight it. Press SELECT.

```
PERMANENTLY AT
                      ▲
70°F
                      ▼

HOLD MENU    SET TEMP
```
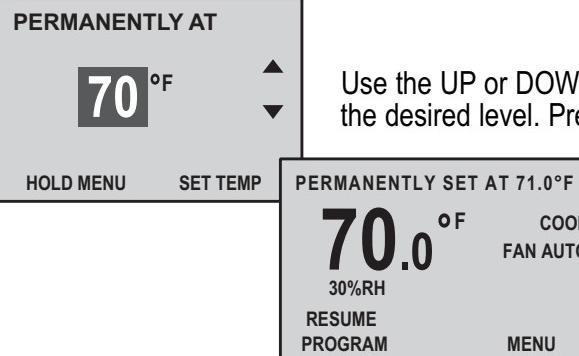
Use the UP or DOWN arrow to set the temperature to the desired level. Press SET TEMP.

```
PERMANENTLY SET AT 71.0°F
70.0°F        COOL
              FAN AUTO
30%RH
RESUME
PROGRAM       MENU
```

The main screen will now indicate a PERMANENT HOLD. Press RESUME PROGRAM to return to the program operating mode.

How do I return to the Program Mode after being in HOLD?

```
PERMANENTLY SET AT 71.0°F
70.0°F        COOL
              FAN AUTO
30%RH
RESUME
PROGRAM       MENU
```
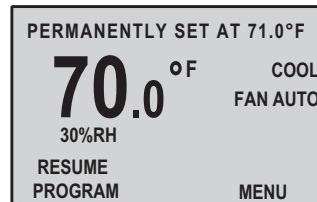
Simply press the RESUME PROGRAM button. This works from all HOLD screens.

How do I set the Vacation Mode?

MONDAY   3:29 PM

78.1

COOL
FAN AUTO
SET AT 78

30%RH

HOLD TEMP   MENU
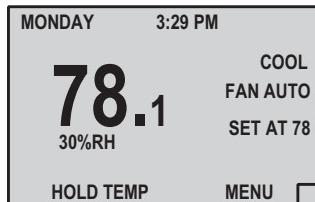
Take a trip and don't worry about the temperature! From the main screen press the HOLD TEMP button. The following screen appears.

HOLD SETTINGS

PERMANENT HOLD

TEMPORARY HOLD

VACATION HOLD

HOME   SELECT
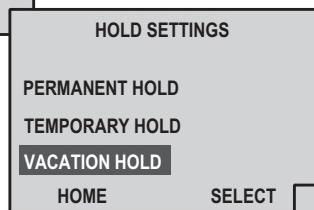
Use the UP or DOWN arrow to highlight the VACATION HOLD feature. Press SELECT.

VACATION SETTING

70 °F ▲
▼
FOR 7 DAYS

HOME   SET TEMP
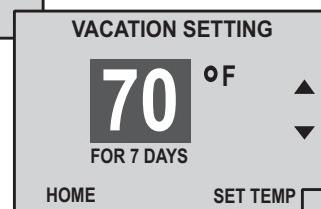
The temperature should be highlighted. Use the UP or DOWN arrow to change to the desired temperature. Press SET TEMP.

VACATION SETTING

70.0 °F ▲
▼
FOR 7 DAYS

BACK   SET DAY
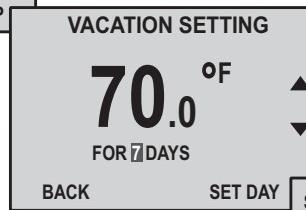
The number of days should be highlighted. Use the UP or DOWN arrow to set the length of your vacation. Press SET DAY.

SET AT 70°F FOR 7 DAYS

77.0 °F

COOL
FAN AUTO

OUTSIDE 24°F

RESUME
PROGRAM   MENU
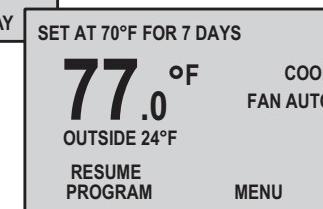
The main screen will now indicate the VACATION settings. Press RESUME PROGRAM to cancel and return to the program operating mode.

How do I program my thermostat?

```
MONDAY          3:29 PM
                        COOL
78.1            FAN AUTO
                        SET AT 78
30%RH
HOLD TEMP       MENU
```
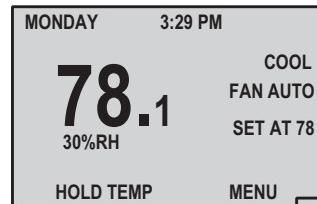
From the main screen press the MENU button.

```
MENU
PROGRAM
HEAT / COOL
HUMIDIFY
DAY / TIME

HOME            SELECT
```
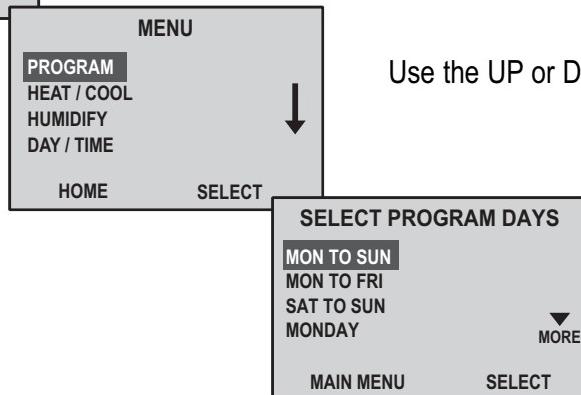
Use the UP or DOWN button to highlight PROGRAM. Press SELECT.

```
SELECT PROGRAM DAYS
MON TO SUN
MON TO FRI
SAT TO SUN
MONDAY                MORE

MAIN MENU       SELECT
```

You can select a variety of programming. Make your selection and press SELECT. MON-SUN allows every day to be set the same. MON-FRI allows for weekday programming while SAT-SUN will adjust weekends differently. You also can select each day of the week individually. NOTE: Even if you select MON-SUN, you still can go back and change individual days to suit your lifestyle.

```
MONDAY PROGRAM
                HEAT    COOL
WAKE    06:30A   70      78
MORN    08:30A   62      85
EVE     04:30P   70      78
NIGHT   10:30P   62      82

MAIN MENU       SELECT
```

Use the UP or DOWN button to select the event to program. You can choose 2, 4, or 6 events per day. See USER SETTINGS for EVENTS PER DAY selection. After selecting the event to program, press SELECT.

Please go to the next page for a continued discussion on "How to program your thermostat."
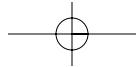
How do I program my thermostat? (continued)

MONDAY PROGRAM

		HEAT	COOL
WAKE	06:00A	70	78
MORN	08:30A	62	85
EVE	04:30P	70	78
NIGHT	10:30P	62	82

BACK   SET TIME ▼

The time for the first event should be highlighted. Use the UP or DOWN key to change the time. Press SET TIME.

MONDAY PROGRAM

		HEAT	COOL
WAKE	06:30A	70	78
MORN	08:30A	62	85
EVE	04:30P	70	78
NIGHT	10:30P	62	82

BACK   SET HEAT ▼

The heating setpoint for the first event will be highlighted. Use the UP or DOWN key to change the desired temperature. Press SET HEAT.

MONDAY PROGRAM

		HEAT	COOL
WAKE	06:30A	70	78
MORN	08:30A	62	85
EVE	04:30P	70	78
NIGHT	10:30P	62	82

BACK   SET COOL ▼

The cooling setpoint for the first event will be highlighted. Use the UP or DOWN key to change the desired temperature. Press SET COOL.

The second event will now be highlighted. Use the UP or DOWN key to change events if desired. When the desired event is highlighted, press SELECT. Continue programming until all events are programmed.

MONDAY PROGRAM

		HEAT	COOL
WAKE	06:30A	70	78
MORN	08:30A	62	85
EVE	04:30P	70	78
NIGHT	10:30P	62	82

MAIN MENU   SELECT ▼

How do I copy one day's program to another day?

```
MONDAY PROGRAM        ▲

                HEAT    COOL
MORN    08:30A    62      85
EVE     04:30P    70      78
NIGHT   10:30P    62      82
COPY

  MAIN MENU         SELECT
```

In the program screen, press the DOWN button until COPY is highlighted.
Press SELECT.

```
      COPY MONDAY TO

TUESDAY           YES
WEDNESDAY
THURSDAY
FRIDAY            YES      ▼

   FINISHED      YES / NO
```

Use the UP or DOWN button to highlight the day to copy to. Press YES / NO. A YES will appear next to the day. Do this for each day to which that program is to be copied. Press FINISHED when complete.

```
      CONTINUE
    PROGRAMMING?




NO                    YES
```

After pressing FINISHED, you can choose to program other days or exit. YES will take you back to the Select Program Days screen. NO will exit you to the main screen.
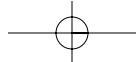
What is an event?

An event is a programming period. This could be the period in the morning when you are preparing for work or school. It could be the period when no one is at home. It could be the period when the household is asleep at night.

The time for an event is selected based on when you want the event to occur. For example, if you wake up at 6:30 AM, set the first event for 6:30 AM. The thermostat will automatically make sure that your home is at the desired temperature selected for that event by the time you wake.

This thermostat can be set for 2, 4, or 6 events.

Two events should be selected if someone is home all day thereby requiring a constant temperature during the day and a different temperature at night.

Four events are the most common for working households. Event 1 (WAKE) is the morning period. Event 2 (DAY) is when everybody has left for school or work. Event 3 (EVE) is the return period, coming home from school or work. Event 4 (NIGHT) is the night period when everybody is asleep.

Six events can be used especially when there is activity during the day. Event 1 (WAKE) is the morning period. Event 2 (MORN) is when everybody has left for school or work. Event 3 (NOON) is the lunch period, when the kids may be home for a break. Event 4 (DAY) is the afternoon period when the house is empty. Event 5 (EVE) is the return period, coming home from school or work. Event 6 (NIGHT) is the night period when everybody is asleep.

How do I know what program is right for me?

The thermostat is factory set with the US EPA ENERGYSTAR® recommended times and temperatures for optimal energy savings. You can change these to suit your lifestyle.

The best rule is to examine your schedule and set the times and temperatures that best fit. This thermostat is so versatile, you can easily change temperatures or programs at a whim.
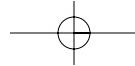
How do I set the Humidity Levels?

The humidity level is adjustable from 15% to 45% RH. From the Main Screen
press MENU.

Use the UP or DOWN arrow to highlight HUMIDIFY. Press SELECT. Use the UP or DOWN
arrow to again highlight HUMIDIFY. Press SELECT. Use the UP and DOWN arrow to adjust the
humidity level. Press SELECT to set.

```
            MENU
PROGRAM
HEAT/COOL              ↓
HUMIDIFY
DAY / TIME

    HOME           SELECT
```
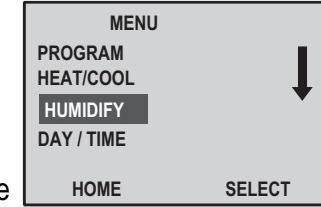
What is the difference between Manual and Auto modes?

In the Manual mode, the humidifier will turn on only with a call for heat and when the indoor
humidity level falls below the setpoint.

In the Auto mode, the thermostat will evaluate the outside and inside air temperature
and establish an optimal humidity setting to minimize condensation on windows.
This can be fine tuned in the Dew Point adjustment screen. The humidifier will turn
on with a call for heat when the indoor humidity level falls below the calculated setpoint.

```
        HUMIDIFY MENU
MODE                    OFF
HUMIDIFY                45%



   MAIN MENU       SELECT
```
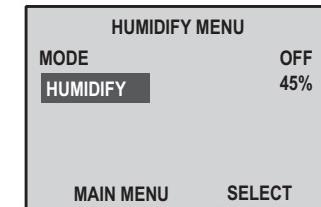
What happens if the mode is set to OFF?

The humidifier is shut off. There will be no control of humidity levels in the home.

```
      HUMIDIFY
      CONTROL
      45 %        ↓

 HUM MENU        SELECT
```
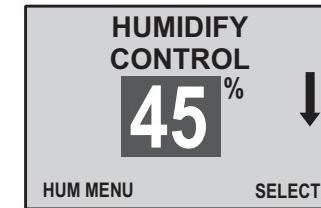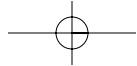
What are the USER settings?

```
MONDAY        3:29 PM

                    COOL
78.1            FAN AUTO
                    SET AT 78
30%RH

HOLD TEMP       MENU
```
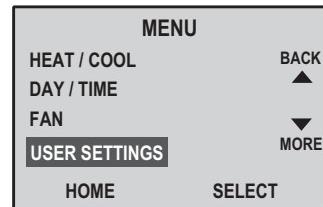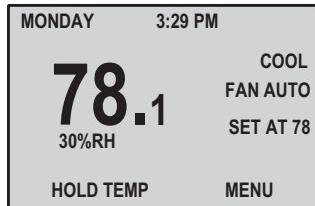
The USER SETTINGS can change the way information is displayed on the thermostat and help to optimize comfort. It's one way to truly personalize your new thermostat.

```
          MENU
HEAT / COOL            BACK
DAY / TIME             ▲
FAN                    ▼
USER SETTINGS          MORE
   HOME        SELECT
```

To get to the USER SETTINGS, press the MENU button from the main screen.

USER SETTINGS are below the FAN settings. Use the DOWN button to scroll below the screen. Press SELECT.

Choose the setting you would like to change. When the SETTING is highlighted, press SELECT. There are 12 USER SETTINGS in all as listed below. For detailed information on each user setting, please go to the next page.

```
   USER SETTINGS MENU
F OR C              ˚F
12 OR 24hr           12
SHOW SET TEMP       YES
EVENTS / DAY          4
 MAIN MENU   SELECT ▼
```

```
   USER SETTINGS MENU   ▲
1ST STAGE DIFF       1˚F
2ND STAGE DIFF       2˚F
2ND DELAY             20
SENSOR SETTINGS        L
 MAIN MENU   SELECT ▼
```

```
   USER SETTINGS MENU   ▲
COOLING LIMIT        68˚F
HEATING LIMIT        78˚F
LANGUAGE             ENG
SECURITY             OFF
 MAIN MENU   SELECT
```
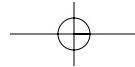
Detailed Information on the USER SETTINGS (Or what do these USER SETTINGS do?)

To select a USER SETTING, use the UP or DOWN button to highlight the desired setting. Press SELECT.

```
          TEMPERATURE

               °F
               °C



   USER MENU          SELECT
```
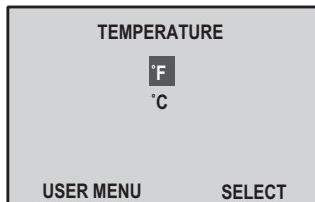
TEMPERATURE: Fahrenheit or Celsius
Temperature will be displayed in F or C.

```
             CLOCK

            12 HOUR
            24 HOUR



   USER MENU          SELECT
```

CLOCK SETTINGS
Displays time in standard 12-hour format or military format.

```
       DISPLAY SET POINT
         TEMPERATURE ?


               NO
              YES

   USER MENU          SELECT
```
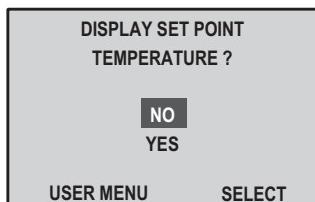
SETPOINT TEMPERATURE
Each event has a setpoint temperature. Choose whether to display this value or not.

```
      SELECT EVENTS / DAY
        EVENTS / DAY  4



   0      6    12    18    24
   USER MENU          SELECT
```
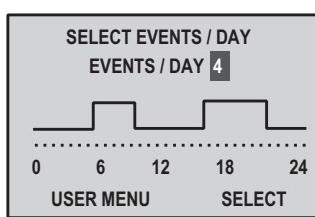
NUMBER OF EVENTS PER DAY
Select events per day. Choose from 2, 4, or 6 events per day.
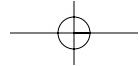
More Detailed Information on the USER SETTINGS

```
    DIFFERENTIAL SETTING

1ST DIFF              1˚F
2ND DIFF             2˚F
2ND DELAY           20 MIN


  USER MENU        SELECT
```

DIFFERENTIAL SETTINGS
The temperature differential is your comfort level. The differential is the difference from setpoint before your heating or cooling system will turn on. The 9815i and 9820i models also have 2nd stage differential. If the temperature falls below (or above for cooling) the setpoint by the 1st stage differential plus the 2nd stage, the auxiliary heating (or cooling) system will turn on.

The 2nd stage delay is a timed delay before the second stage will turn on if the setpoint has not been achieved within that time frame.

```
      SENSOR SETTINGS

 USE LOCAL SENSOR
 AVG. LOCAL / REMOTE
 USE REMOTE SENSOR


  USER MENU        SELECT
```

SENSOR SETTINGS
This screen will appear when a remote indoor sensor (9020i) is connected to the thermostat. USE LOCAL SENSOR will disable the remote sensor and only sense from the thermostat. AVG. LOCAL/REMOTE will take a temperature reading from both the thermostat and the remote sensor and average the two for even temperature control. USE REMOTE SENSOR will disable the sensor in the thermostat and only control from the remote location.

```
    SET COOLING LIMIT

LOWEST COOLING      45 °F
SETTING ALLOWED


  USER MENU        SELECT
```

```
    SET HEATING LIMIT

HIGHEST HEATING     90 °F
SETTING ALLOWED


  USER MENU        SELECT
```

HEATING and COOLING LIMITS
To prevent individuals (probably your kids) from adjusting the thermostat too hot or too cold, you can limit the maximum setting for the heating and cooling modes. This will help you save on energy costs.

More Detailed Information on the USER SETTINGS

```
       SELECT A LANGUAGE

   ENGLISH
   ESPAÑOL


   USER MENU          SELECT
```
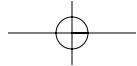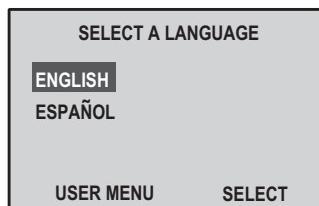
LANGUAGE SETTING
This screen allows you to choose the displayed language; English or Spanish.

```
            SECURITY

   ALLOW TEMPERATURE
   RESTRICT ALL


   USER MENU          SELECT
```
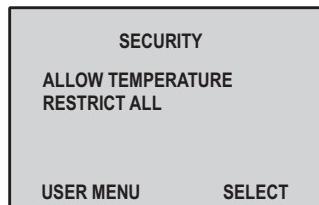
SECURITY SETTINGS
In order to prevent tampering with the program and your desired settings, two levels of security are available.The first will allow only temporary changes to the temperature. It protects all other programmed setpoints. The second will restrict changes to EVERYTHING, including temporary changes to the temperature.

```
   ENTER SECURITY CODE

    FOR USER SETTINGS

        0 0 0 0


   USER MENU          SELECT
```
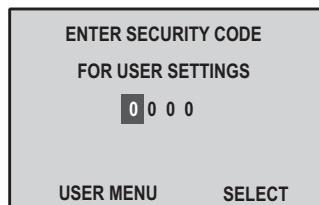
SECURITY CODE
In this screen you enter a four-digit code. Use the UP or DOWN button to change the first value, press SELECT. The second digit will be highlighted. Repeat for all four values. And don't forget your code. If you do, you will have to reset the entire thermostat and that will erase all the schedules you've programmed into the unit.

When would I need to change the USER settings?
About the only features you may need to change are the temperature differentials (if you desire additional comfort), and the security settings. All the other settings probably will not need to be changed.
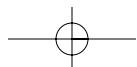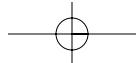
What are the INSTALLER settings?

The INSTALLER SETTINGS are setup during the initial installation. They tell the thermostat how to function with your heating or cooling equipment. The following is a brief overview and discussion of these settings.

```
        INSTALLER SETTINGS

SYSTEM SETUP          GAS
RESIDUAL COOL         60
AUTOCHANGEOVER        OFF
EER                   ON

   HOME            SELECT ▼
```

```
      INSTALLER SETTINGS    ▲

DEADBAND              3˚F
SECURITY             OFF
CONTACT INFO
SERVICE INT

   HOME            SELECT ▼
```

```
      INSTALLER SETTINGS    ▲

CONTACT INFO
SERVICE INT
REMINDER             RUN
TEMP OFFSET          0.0°F

  MAIN MENU         SELECT
```

```
       SYSTEM SETUP

FURNACE

HEAT PUMP

  INSTALL MENU     SELECT
```

SYSTEM SETUP
Choose the system component which the thermostat will control.

```
      1ST STAGE HEATING

       GAS / OIL

       ELECTRIC

  INSTALL MENU     SELECT
```

1st STAGE HEATING
The 9801i and the 9815i can have a gas/oil or electric first stage heating.
Choose the energy source for 1st stage heating.
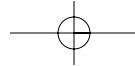
INSTALLER settings (continued)

```
        AUXILIARY HEAT

STANDARD - COMP. =ON

ADD ON - COMP. =OFF


INSTALL MENU        SELECT
```

AUXILIARY HEAT
The 9820i can be set to use your 2H/2C heat pump internal auxiliary heating or to use an external add-on source. The add-on feature will be used most often when a single stage heat pump uses a gas or electric furnace as its second stage of heating.

```
        RESIDUAL COOL


SECONDS DELAY        60



INSTALL MENU        SELECT
```

RESIDUAL COOL
In order to get greater efficiency from the cooling system, the fan can be programmed to run for 0 (OFF), 30, 60, 90, or 120 seconds after the air conditioner has shut off.

```
       AUTO CHANGEOVER

            DISABLE
            ENABLE


INSTALL MENU        SELECT
```

AUTO CHANGEOVER
When turned on, the thermostat will switch automatically between heating and cooling to maintain the optimal temperature in your home.

```
      ENERGY EFFICIENT
          RECOVERY
            DISABLE
            ENABLE


INSTALL MENU        SELECT
```

ENERGY EFFICIENT RECOVERY
When turned on, the thermostat will look ahead two hours to determine when to turn on the heating/cooling system in order to reach the desired temperature at the desired time.
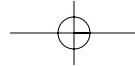
INSTALLER settings (continued)

```
    BALANCE POINTS


LOW BALANCE          45 °F
HIGH BALANCE         95 °F


 INSTALL MENU      SELECT
```

BALANCE POINTS
This screen will appear only when the optional outdoor sensor 9025i is connected to the thermostat. When this sensor is used with the 9820i, you can set the lower temperature (below which the heat pump will not run) and upper temperature (above which the 2nd stage heat will not run). This promotes efficient operation of the heating system.

```
  AUTOCHANGE DEADBAND


        3 °F    ↕


 INSTALL MENU      SELECT
```

DEADBAND SETPOINT
Deadband is used with the AUTO CHANGEOVER feature. The deadband is the temperature difference from the setpoint temperature during which the heating or cooling will not be turned on. This is adjustable from 2-8°F (1.0-4°C).

```
  ENTER SECURITY CODE
     FOR INSTALLER
       SETTINGS
        0 0 0 0
 INSTALL MENU      SELECT
```

SECURITY CODE
Enter a code to prevent changes to the INSTALLER settings.
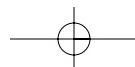
INSTALLER settings (continued)

```
CONTACT INFORMATION

AIR EXPERTS
1-555-555-1212


BACK            EDIT
```

CONTACT INFORMATION

This allows the servicing HVAC contractor to put their name and phone number into the thermostat to remind you when service may be required.

```
SERVICE MONITOR MENU

SERVICE MONITOR 980
FILTER MONITOR 980


INSTALL MENU      SELECT
```

SERVICE MONITOR MENU

Two menus are available for the 9820i; the Service Monitor and the Filter Monitor. Three menus are available for the 9801i and 9815i; the Cool Monitor, the Heat Monitor and the Filter Monitor. All can be set based on the HVAC system run time or the calendar. See Reminder Interval.

All Monitors can be set from OFF to 360 days in 30 day increments or OFF to 980 in 20 hour increments.

```
REMINDER PERIOD

RUN TIME
CALENDAR TIME


INSTALL MENU      SELECT
```

REMINDER INTERVAL

The Reminder Interval can be set for either HVAC system run time or based on the calendar.

If Run Time is chosen, the service reminder will be set in hours. After the HVAC system has been operating for the selected number of hours, a Service Reminder will be displayed informing you that service is suggested for your system.

If Calendar Time is chosen, the service reminders will be set in days. After the selected number of days has passed, a Service Reminder will be displayed informing you that service is suggested for your system.

```
REMINDER PERIOD

RUN TIME
CALENDAR TIME


INSTALL MENU      SELECT
```

TEMPERATURE OFFSET

Even though the thermostat is accurately calibrated before it leaves the factory, you may want to adjust the display to match your old thermostat +/- 3 degrees.
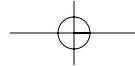
When would I need to change the INSTALLER settings?

NEVER! The INSTALLER SETTINGS are selected based on the type of equipment you have in your home. This feature should be set only by a certified HVAC technician. Changing these settings could result in higher energy costs and may even damage your equipment. You should only change the FILTER MONITOR length should you get a new type of filter.

How does Energy Efficient Recovery™ (EER™) work?

Energy Efficient Recovery™ is an energy saving feature. During a set back period (or set up in cooling), it allows the thermostat to look ahead two hours to determine when to turn on the heating (cooling) system. During this period, the second stage is locked out to allow the first (and most efficient stage) to bring your home to the desired temperature.

How does my remote indoor sensor work?

The remote indoor sensor (part #9020i) can be used to improve the comfort of your home. When used in conjunction with the local sensor on the thermostat, the two sensors average the sensed temperature and control to that average temperature.

You also can use the remote sensor in a stand-alone situation when you want to control the temperature in a remote room but have the thermostat in a secure location.

When would I need a remote indoor sensor?

Large rooms are ideal for remote sensors. Installing a remote sensor across from the thermostat will provide constant comfort throughout the living space.

How does my remote outdoor sensor work?

The remote outdoor sensor (9025i) can be used to aid in the comfort of your home or simply as a sensing device to inquire about outdoor conditions. In most applications, the thermostat will have a display of the temperature sensed by the remote outdoor sensor. With your heat pump system, the remote outdoor sensor can help determine when to turn on the second stage of heating for optimal comfort. The outdoor sensor also allows you to choose AUTO humidity sensing (see page 16) to minimize condensation on your windows.
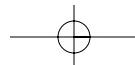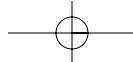
Where should I install a remote outdoor sensor?

The remote outdoor sensor should be installed on the northern wall of your home, away from direct sunlight or other heat sources that may affect its sensitivity.

Who should I call for additional help?

For additional troubleshooting information, visit our web site at www.about-i-series.com. To talk with a service representative, give us a call at 800-445-8299.

What should I do if my power goes out?

Make sure your family is safe and don't worry about the thermostat. Your thermostat automatically retains the time of day for approximately two hours in the event of a power outage. All other programmed parameters are stored permanently in memory. So, if your power is out for more than two hours, simply reset the clock. (See page 4.)

How do I reset the thermostat program to factory conditions?

To reset the thermostat to factory conditions, press the UP button and the LEFT button at the same time. Hold for 8 seconds. The time of day will display 12:00 indicating a reset has occurred.

NOTE: This will erase all programming and return the thermostat to the factory conditions including the installer settings. Use this only as a last resort.

How do I know if the heating or cooling is on?

The display of the thermostat will indicate the operating mode, HEAT or COOL. When the temperature in your home decreases or increases, the heating or cooling cycle will come on based on the displayed mode. When the HVAC system is ON, the LEDs along the bottom crease will turn on.
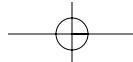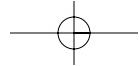
My energy bills are too high. Is there anything I can do?

While we can't do anything about the high cost of energy, we can try to use less energy and thereby lower our heating and cooling costs.

Generally, the best way to do this is to use the EPA ENERGYSTAR® recommended setpoints for heating and cooling.

	ENERGYSTAR® Setpoints	
	Winter	Summer
	(Heating)	(Cooling)
Morning	70°F (21°C)	78°F (25°C)
Day	62°F (17°C)	85°F (29°C)
Evening	70°F (21°C)	78°F (25°C)
Night	62°F (17°C)	82°F (28°C)

Another way to contain costs is to cycle the heat pump or air conditioner with moderation. The thermostat controls the cycle rate based on temperature differentials. By maintaining a reasonable differential setpoint, 1°F for 1st stage and 2°F for 2nd stage, your furnace will cycle with moderation.

Finally, using the remote outdoor sensor coupled with the balance point feature (see INSTALLER SETTINGS, page 21) will allow your furnace to cycle to the most efficient stage for your heating or cooling needs.
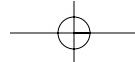
TWO YEAR LIMITED WARRANTY

The manufacturer warrants to the original contractor installer or to the original consumer user, each new Robertshaw thermostat to be free from defects in materials and workmanship under normal use and service for a period of two (2) years from the date of purchase.

This warranty does not cover batteries (if so equipped), damage caused by batteries, damage resulting from improper installation, alteration, misuse or abuse of the thermostat occurring after the date of purchase.

The manufacturer agrees to repair or replace at its option any thermostat under warranty provided it is returned within the warranty period, postage prepaid, with proof of the date of purchase. Cost of thermostat removal or reinstallation is not the responsibility of the manufacturer.

Repair or replacement as provided under this warranty is the exclusive remedy of the consumer. This warranty and our liability does not apply to merchandise that has been damaged caused by misuse, neglect, mishandling, alterations, improper installation, or use in a way other than in accordance with the recommendations and instructions of the manufacturer. Except to the extent prohibited by applicable law, any implied warranty of merchantability or fitness for a particular purpose on this product is limited to the duration of this warranty.

Some states do not allow the exclusion or limitation of incidental or consequential damages, or allow limitations on how long an implied warranty lasts, so the above limitations or exclusions may not apply to you. This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

Instructions for return:

Pack the thermostat carefully in a well-padded carton. Be sure to include a note describing, in detail, what is wrong with the product. Return, postage prepaid, to: **Climate Controls Americas** 515 South Promenade Ave., Corona, CA 91719, Attn: Warranty Department

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www.about-i-series.com

110-1057C