NOTE: Read the entire instruction manual before starting the installation.

SAFETY CONSIDERATIONS

Read and follow manufacturer instructions carefully. Follow all local electrical codes during installation. All wiring must conform to local and national electrical codes. Improper wiring or installation may damage User Interface.

Recognize safety information. This is the safety-alert symbol ▲. When you see this symbol on the equipment and in the instruction manual, be alert to the potential for personal injury.

Understand the signal words DANGER, WARNING, and CAUTION. These words are used with the safety-alert symbol. DANGER identifies the most serious hazards which will result in severe personal injury or death. WARNING signifies a hazard which could result in personal injury or death. CAUTION is used to identify unsafe practices which would result in minor personal injury or product and property damage.

INTRODUCTION

The User Interface contains factory default settings. Each User Interface MUST be configured for proper operation.

For maximum performance read the following information in conjunction with revised zoning kit "Installation and Start-Up Instructions" dated 8-99.

The User Interface is the command center for the entire zoning system. Each zoning system will require 1 User Interface that is responsible for communicating with the Equipment Controller (main board) and each of the zone temperature sensors (i.e., Remote and/or Smart Sensor). The User Interface also contains ALL the software configuration and setup information, as well as Comfort Schedule. Review the following before you begin to install the User Interface control:

- Quick Start
- Quick Programming
- Comfort Charts
- Configuration Record

INSTALLATION

PROCEDURE 1—QUICK START

For first time installers Quick Start will allow you to start up the zoning system before you have had a chance to learn all the details of system operation. However, for the best possible comfort and energy saving results, we recommend that you read through the Owner’s Guide and set up the system to match the end-user’s schedule and comfort requirements.

To begin, install the User Interface and perform the following steps.

A. Set the current day and time:

1. Press the Next Day button until the current day of the week is shown.

2. Press the Set Time/Temp button until the TIME icon flashes.

3. Press the Up or Down buttons until the desired time is shown, making sure that the AM or PM time is correct.

4. Press the Hold/End key to exit.

B. Select the system mode:

1. Press the Mode button to select HEAT or COOL.

2. Press the Hold/End button to turn on the HOLD icon.

3. Press the Up or Down button, and either the HEAT or COOL icon will flash. This indicates the mode that you have selected and it is now ready for adjustment.
4. Press the All Zone button, this will change all the other zones to these new set points. You will then see “--” in the set point location for all other zones. Pressing the Next Zone button allows you to scroll through each zone.

PROCEDURE 2—QUICK PROGRAMMING

The following is an overview of how to access and program schedules in your new zoning system. It is highly recommended that you read and follow the programming information provided in the Owner’s Guide for detailed step-by-step instructions.

Before proceeding, set the correct Time and Day at the User Interface (see Quick Start). If, however, you have already followed the Quick Start procedure in selecting the system mode, you will need to reverse the All Zone and/or Hold functions before proceeding. Simply press the All Zone and/or Hold button to remove these icons from the display (make sure Hold is removed from each zone).

During the programming process you will have access to 4 program time periods; WAKE, DAY, EVE, and SLEEP. You will be able to select program start times and the heat/cool set points for each time period and zone. Use the Keypad to enter and move around inside the program. Use the temperature Up and Down buttons to adjust the start times and to raise and lower set points. When inside the program, the blinking icon indicates that a setting may now be changed.

IMPORTANT: Table 1 is an example of what already exists in the User Interface as the Energy Star recommended settings. You may change or adjust the schedule to suit your needs.

<table>
<thead>
<tr>
<th>SCHEDULE</th>
<th>HEAT</th>
<th>COOL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wake 6:00 AM</td>
<td>68°F</td>
<td>78°F</td>
</tr>
<tr>
<td>Day 8:00 AM</td>
<td>60°F</td>
<td>85°F</td>
</tr>
<tr>
<td>Evening 5:00 PM</td>
<td>68°F</td>
<td>78°F</td>
</tr>
<tr>
<td>Sleep 10:00 PM</td>
<td>60°F</td>
<td>82°F</td>
</tr>
</tbody>
</table>

A. To begin programming:

1. Press the Program button.
2. Press the Next Zone button until ZONE 1 is displayed on the LCD.
3. Press the Next Day button until Monday (Mo) is displayed.
4. Press the Next Period (Program) button until WAKE is displayed.
5. If the TIME icon is not already flashing, press the Set Time/Temp button until it flashes.
6. Start programming Zone 1, beginning with the WAKE start time. Press the Up or Down button until the desired starting time is displayed, ensuring that the AM/PM time is correct.
7. Press the Set Time/Temp button until the HEAT icon is flashing. Press the Up or Down button until the desired heating temperature for that period is displayed.
8. If that zone is going to be unoccupied press the Out button. For more information regarding the Out feature, read sections pertaining to Hold, Off, Out and All Zone in the Installation and Start-Up Instructions.
9. Press the Set Time/Temp button until the COOL icon is flashing. Press the Up or Down button until the desired cooling temperature for that period is displayed. You have now programmed the time and desired heating and cooling temperatures for Monday, ZONE 1, in the WAKE time period.
10. Press the Next Period (Program) button to change from the WAKE to the DAY period. Repeat the above steps to program the time, desired heating and the cooling temperatures for Monday, ZONE 1, in the Day period. Use the Next Period (Program) button again to select EVE, and SLEEP and repeat the procedure until the entire set of 4 periods for Monday have been set.
11. After Monday, ZONE 1 is completely programmed, you may select Next Day to advance to Tuesday. You may then elect to press the Copy Day (Mode) button which will set up Tuesday exactly like Monday. This can be repeated as needed for each remaining day of the week. However, if copying the previous day is not desired, you may individually program each day using the Next Day button and repeat steps 1 through 9. Press the Hold/End key to exit programming mode.

NOTE: Because programming the User Interface is flexible, there may be several variations to accomplish the same result. Complete the following matrix to help you decide what time and temperatures to enter in the Comfort Schedule for each zone.
**COMFORT CHART**

<table>
<thead>
<tr>
<th>ZONE #</th>
<th>Wake</th>
<th>Day</th>
<th>Evening</th>
<th>Sleep</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Time / Heat° / Cool°</td>
<td>Time / Heat° / Cool°</td>
<td>Time / Heat° / Cool°</td>
<td>Time / Heat° / Cool°</td>
</tr>
<tr>
<td>Monday</td>
<td>/ /</td>
<td>/ /</td>
<td>/ /</td>
<td>/ /</td>
</tr>
<tr>
<td>Tuesday</td>
<td>/ /</td>
<td>/ /</td>
<td>/ /</td>
<td>/ /</td>
</tr>
<tr>
<td>Wednesday</td>
<td>/ /</td>
<td>/ /</td>
<td>/ /</td>
<td>/ /</td>
</tr>
<tr>
<td>Thursday</td>
<td>/ /</td>
<td>/ /</td>
<td>/ /</td>
<td>/ /</td>
</tr>
<tr>
<td>Friday</td>
<td>/ /</td>
<td>/ /</td>
<td>/ /</td>
<td>/ /</td>
</tr>
<tr>
<td>Saturday</td>
<td>/ /</td>
<td>/ /</td>
<td>/ /</td>
<td>/ /</td>
</tr>
<tr>
<td>Sunday</td>
<td>/ /</td>
<td>/ /</td>
<td>/ /</td>
<td>/ /</td>
</tr>
</tbody>
</table>

**NOTE:** The OUT function may be used for any periods that are not occupied. Desired temperatures do no need to be set and are displayed as "--".
CONFIGURATION RECORD:

Owner/Operator ______________________  Date ___________________
Indoor Unit Model No. ___________________  Outdoor Unit Model No. ______________________

A) Hardware Configuration  B) Mode Settings

Switch 1  ____  AC/HP Select. (ON = AC)  ____  Hold (On or Off)
Switch 2  ____  1 or 2-Speed Compressor. (ON = 1-Speed)  ____  Mode (Off, Heat, Cool, Auto, Eheat)
Switch 3  ____  3-Stage Electric Heat. (ON = Disable)  ____  Heating Set Point Value
Switch 4  ____  Smart Recovery. (ON = Enable)  ____  Cooling Set Point Value
Switch 5  ____  Address Selection. (ON = 01)  ____  Fan (Auto or On)
Switch 6  ____  Installer Test Mode. (ON = Disable)
Switch 7  ____  Low Ambient Cooling Lockout. (ON = Disable)
Switch 8  ____  Dual Fuel Selection. (ON = Disable)

C) Configuration Options

(See Installation and Start-Up Instructions for details regarding each setup option)

2) _______  Clean Filter Timer  2
3) _______  Fahrenheit or Celsius  F
4) _______  Fan (G) ON with W  OF
5) _______  Variable Speed ICM Motor  OF
6) _______  Adjustment of Low Ambient Cooling Lockout Temperature  OF
7) _______  Variable Speed Superdehumidification  OF
8) _______  Auxiliary Heat Lockout Temperature  OF
9) _______  Dual Fuel Balance Point Setting  40
10) _______  Defrost Heat Selection  0
11) _______  Zone Temperature Offset Adjustment  0
12) _______  Heat/Cool Dead Band Adjustment  2
13) _______  Enable Auto Mode  ON
14) _______  Enable Comfort Heat / Perfect Heat mode  OF
15) _______  Humidity Offset Adjustment  0
16) _______  Outdoor Air Temperature Offset Adjustment  0
17) _______  Enable Programmable Fan  ON
18) _______  Display Damper Positions
19) _______  Display HPT Temperature Reading
20) _______  Display LAT Temperature Reading
21) _______  Select LAT Shutdown Temperature  150
22) _______  User Interface Address  01
23) _______  Disable Zoning  OF
24) _______  Select HPT (HP) or LAT (LA) Sensor to Monitor Cooling  LA
25) _______  Ignore LAT/HPT Safeties  OF
26) _______  Select Auto Changeover Time  30

(Note: 1, 9, 10, 17, 21-29 are not applicable)

D) Humidity Setting

Heat Mode selection. Enter set point in selected space  Cool Mode selection. Enter set point in selected space.
Normal Humidify  _________  Normal Dehumidify  _________
Fan Humidify  _________  Cool to Dehumidify  _________
Auto Humidify  _________  Off – no set point  _________
Auto and Fan Humidify  _________
Off – no set point  _________

E) Error Code Reference

“- -” = Zone Sensor Failure, or ALL Zone Selected
FF = Damper Fuse Failure
E1 = User Interface cannot communicate with Equipment Controller
E2 = LAT / HPT Sensor Failure
E3 = Outdoor Air Sensor Failure
E4 = Nonvolatile Memory Failure
E5 = Humidity Sensor Failure
E6 = Defrost Failure