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Model Nomenclature

Model Type
HZ = HydroZone Control Panel

Number of Zones
04 = 4 Zone
08 = 8 Zone
12 = 12 Zone

Vintage
A = Current

Future
N = None

Controller
N = Standard with Controller
E = 12 Zone Expansion - No Controller

Zone Output Voltage
A = 24 VAC (Zone Valves)
9 = 115 VAC (Zone Pumps)
General Installation Information

Safety Considerations
Installing and servicing heating and air conditioning equipment can be hazardous due to system electrical components. Only trained and qualified service personnel should install, repair or service heating and air conditioning equipment. When working on equipment, observe precautions in the literature, tags and labels attached to the unit, and other safety precautions that may apply.

Follow all safety codes. Wear safety glasses and work gloves.

WARNING: Before performing service or maintenance operations on the system, turn off main power switches to the indoor unit. Turn off accessory heater power switch if applicable. Electrical shock could cause serious personal injury.

HydroZone Control Panel
Locate the HydroZone panel in an indoor area that has enough space for service personnel to perform maintenance or repair. Provide sufficient room to make electrical connection(s). The HydroZone is not approved for outdoor installation and, therefore, must be installed inside the structure being conditioned. Do not locate the control panel in areas where ambient conditions are not maintained within 45°F to 95°F and are greater than 75% relative humidity. The HydroZone control panel should be mounted on or as close to the unit as possible by using the sheet metal screws provided. See the HydroZone Control Panel Mounting illustration for mounting hole locations.

NOTE: Use longer screws (not provided) to penetrate through drywall into stud.

Delivery Information
When the equipment is received, all items should be carefully checked against the bill of lading to be sure all crates and cartons have been received. Examine the contents for shipping damage, removing them from the cartons if necessary. If any damage is noted, the carrier should make the proper notation on the delivery receipt, acknowledging the damage.

Installation and Design Steps
1. Decide which areas of a home or office will comprise each of the individual zones. A maximum of twelve individual zones can be chosen. If more zones are necessary, a 12 zone expansion is available.
2. Calculate loads using software or other recognized methodology.
3. Use software to determine the equipment size and performance based on the total heating and cooling demands of the building, not the sum of the individual zone demands.
4. Find the peak heating and cooling demands and the peak GPM or CFM required for each of the zones.
5. Lay out and size the radiant tubing or supply air ductwork. Care should be taken to avoid under sizing either the buffer tank, radiant tubing and spacing, supply air systems, return air systems, or diffusers.
6. Decide where to locate the thermostats.
7. Install the unit, storage tank and the HydroZone system.
Dimensional Data

HZ04, HZ08, and HZ12 Dimensions

HZ00 Dimensions
Electrical Ratings

### 4 Zone 115V Pump

<table>
<thead>
<tr>
<th>Model:</th>
<th>HZ04A9*N</th>
</tr>
</thead>
<tbody>
<tr>
<td>Voltage:</td>
<td>115</td>
</tr>
<tr>
<td>Phase:</td>
<td>1</td>
</tr>
<tr>
<td>Frequency:</td>
<td>60Hz</td>
</tr>
<tr>
<td>Total FLA:</td>
<td>9.3</td>
</tr>
<tr>
<td>Maximum Fuse Size:</td>
<td>15 - HACR breaker or time delay fuse</td>
</tr>
<tr>
<td>Comments:</td>
<td>Maximum current per pump must not exceed 2.15 amps.</td>
</tr>
</tbody>
</table>

### 4 Zone 24V Valve (1 transformer included)

<table>
<thead>
<tr>
<th>Model:</th>
<th>HCZ04AA*N</th>
</tr>
</thead>
<tbody>
<tr>
<td>Voltage:</td>
<td>115</td>
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<tr>
<td>Phase:</td>
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</tr>
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<td>60Hz</td>
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<tr>
<td>Total FLA:</td>
<td>0.65</td>
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<tr>
<td>Maximum Fuse Size:</td>
<td>3</td>
</tr>
<tr>
<td>Comments:</td>
<td>Maximum VA load per valve must not exceed 10 VA or 0.42 amps at 24VAC.</td>
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</tbody>
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### 8 Zone 115V Pump

<table>
<thead>
<tr>
<th>Model:</th>
<th>HZ08A9*N</th>
</tr>
</thead>
<tbody>
<tr>
<td>Voltage:</td>
<td>115</td>
</tr>
<tr>
<td>Phase:</td>
<td>1</td>
</tr>
<tr>
<td>Frequency:</td>
<td>60Hz</td>
</tr>
<tr>
<td>Total FLA:</td>
<td>17.9</td>
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<tr>
<td>Maximum Fuse Size:</td>
<td>30 - HACR breaker or time delay fuse</td>
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<tr>
<td>Comments:</td>
<td>Maximum current per pump must not exceed 2.15 amps.</td>
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### 8 Zone 24V Valve (2 transformers included)

<table>
<thead>
<tr>
<th>Model:</th>
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</thead>
<tbody>
<tr>
<td>Voltage:</td>
<td>115</td>
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<tr>
<td>Phase:</td>
<td>1</td>
</tr>
<tr>
<td>Frequency:</td>
<td>60Hz</td>
</tr>
<tr>
<td>Total FLA:</td>
<td>1.3</td>
</tr>
<tr>
<td>Maximum Fuse Size:</td>
<td>6</td>
</tr>
<tr>
<td>Comments:</td>
<td>Maximum VA load per valve must not exceed 10 VA or 0.42 amps at 24VAC.</td>
</tr>
</tbody>
</table>

### 12 Zone 115V Pump

<table>
<thead>
<tr>
<th>Model:</th>
<th>HZ12A9*N</th>
</tr>
</thead>
<tbody>
<tr>
<td>Voltage:</td>
<td>115</td>
</tr>
<tr>
<td>Phase:</td>
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</tr>
<tr>
<td>Frequency:</td>
<td>60Hz</td>
</tr>
<tr>
<td>Total FLA:</td>
<td>26.5</td>
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<tr>
<td>Maximum Fuse Size:</td>
<td>45 - HACR breaker or time delay fuse</td>
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<td>Comments:</td>
<td>Maximum current per pump must not exceed 2.15 amps.</td>
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</table>

### 12 Zone 24V Valve (2 transformers included)

<table>
<thead>
<tr>
<th>Model:</th>
<th>HZ12AA*N</th>
</tr>
</thead>
<tbody>
<tr>
<td>Voltage:</td>
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<td>Phase:</td>
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</tr>
<tr>
<td>Frequency:</td>
<td>60Hz</td>
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<tr>
<td>Total FLA:</td>
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</tr>
<tr>
<td>Maximum Fuse Size:</td>
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</tr>
<tr>
<td>Comments:</td>
<td>Maximum VA load per valve must not exceed 10 VA or 0.42 amps at 24VAC.</td>
</tr>
</tbody>
</table>

Electrical Wiring

### Wiring Zone Valves or Pumps

All wiring must comply with local and state codes. Disconnect the power supply before beginning to wire to prevent electrical shock or equipment damage. All wiring should be run back to the control panel. Keep wires a minimum of 12 inches from any high voltage lines. See the Wiring Schematics section for additional information.

**WARNING:** All wiring must comply with local and state codes. Disconnect the power supply before beginning to wire to prevent electrical shock or equipment damage.
Wiring Schematics

12 Zone 24VAC Valves

Note 1

Note 2

Note 3

Note 4
Wiring Schematics cont.

12 Zone 24VAC Valves cont.

**Notes**

1. If an auxiliary water heater is used, connect to P6 on the relay board as shown above.
2. Wire zone valves or zone pumps to P84, P86, and P88.
4. Use HZAB or field supplied contactor.

**Legend**

- Factory Low voltage wiring
- Factory Line voltage wiring
- Field line voltage wiring
- Optional block
- DC Voltage PCB traces
- Junction
- Quick connect terminal
- Light emitting diode - Green
- Relay coil
- Polarized connector
- Wire nut
- Field wire lug
- Ground
- Relay Contacts N.O., N.C.
- Fuse

**Thermostat Wiring**

- **Zone Thermostat**
  - R
  - C
  - Y
  - Z1

**HydroZone Accessory Box**

- HZAB

**Zone Relay Board**

- ZB

**Water Heater**

- 230/60/1

**Tank Pump**

- 115 or 230/60/1
Wiring Schematics cont.

12 Zone 115V Pumps

Note 1

Note 2

Note 3

Note 4
Wiring Schematics cont.

12 Zone 115V Pumps cont.

To Heat Pumps

RB

Relay Board

P6

Optional connection if auxiliary heat is used and heat pump is not connected

Note 1

Legend

- Factory Low voltage wiring
- Field low voltage wiring
- Field high voltage wiring
- Field high voltage wiring
- Optional block
- DC Voltage PCB traces
- Junction
- Quick connect terminal
- Wire nut
- Polarized connector
- Thermostat
- Light emitting diode - Green
- Relay coil

Notes

1. If an auxiliary water heater is used, connect to P6 on the relay board as shown above.
2. Wire zone valves or zone pumps to P64, P65, and P66.
3. Wire zone thermostats to P65, P67, and P68.
4. Use H2AB or field supplied contactor

Note 2

Notes

1.

Note 3

Notes

1.

Note 4

Notes

1.

Thermostat Wiring
Wiring Schematics cont.

**12 Zone 24VAC Valves**

**Note 1**
1. Wire 24VAC zone valves to PB4, PB6, and PB8.
2. Wire zone thermostats to PB5, PB7, and PB9.

**Zone Stats 1-4**
- Zone Valves 1-4
- 24VAC

**Zone Stats 5-8**
- Zone Valves 5-8
- 24VAC

**Zone Stats 9-12**
- Zone Valves 9-12
- 24VAC

**Hydrozone Power**
- 115Vac/1

**Legend**
- Factory Low voltage wiring
- Factory Line voltage wiring
- Field Low voltage wiring
- Field Line voltage wiring
- Optional block
- DC Voltage PCB traces
- Junction
- Quick connect terminal
- Wire nut
- Field wire lug
- Ground
- Relay Contacts N.O., N.C.
- Insulated connector
- Thermistor
- Light emitting diode - Green
- Relay coil
- Fuse
- HZ - Hydrozone Control
- PB - Power Block
- ZB - Zone Relay Board

**Notes**
1. Wire 24VAC zone valves to PB4, PB6, and PB8.
2. Wire zone thermostats to PB5, PB7, and PB9.

**Thermostat Wiring**
Thermostat Installation

Locating the Thermostats
The thermostats must be located in the room or zone that each controls. Locate a thermostat about five feet above the floor. Do not locate a thermostat where it may be exposed to direct sunlight, drafts or direct supply air. Do not place a thermostat on an outside wall. Follow the same guidelines that apply with standard thermostat installation. If two or more rooms are on a single zone, locate the thermostat in a hallway or area where it can sense the return air from all rooms.

Four Zone Thermostat Location

Mounting and Wiring the Thermostat
Position the thermostat subbase against the wall so that it is level and the thermostat wires protrude through the middle of the subbase. Mark the position of the subbase mounting holes and drill holes with a 3/16-inch bit. Install supplied anchors and secure base to the wall. Thermostat wire must be eight-conductor 18 AWG. Strip the wires back 1/4 inch (longer strip lengths may cause shorts) and insert the thermostat wires into the HydroZone connector as shown to right. Tighten the screws to ensure tight connections. The thermostat has the same type connectors, requiring the same wiring. Caulk the hole in the wall where the wires enter the thermostat.

NOTE: See the instructions enclosed in the thermostat for detailed installation and operation information.
Controller Operation

The WaterFurnace HydroZone controller is a part of the hydronic heat pump system. The WaterFurnace part number for this product is HZC. This controller is a human interface and water tank control device. The controller displays and regulates the water tank temperature as configured. A 2-1/2 in. x 2-1/2 in. LCD display and five push button keys serve as the human interface. The five keys are: the up and down keys (▲ and ▼) for changing the selection or temperature, the right and left keys (◄ and ►) for changing the selection or mode, and the enter key (■) is for accepting and/or saving the selection.

Controller Operation

Adjusting Temperature
1. To select a MODE, use the keypad arrows to scroll to MODE. Then, press the enter button on the key pad to enter the operating mode menu.
2. Select the desired mode by scrolling up or down, with the arrows. Then press the enter button on the keypad to enter into that mode.
3. You are now returned to the Main Menu and Figure 1 is a similar view. NOTE: Outdoor air temperature is only displayed if an outdoor air sensor is installed.
4. To increase the temperature set point, use the arrow up button. To decrease the set point, use the arrow down button. Five (5) seconds after the last button push, the new setpoint is saved. Outdoor reset control is done in the installer's setup and cannot be adjusted from the front screen.

Setting Date And Time
1. From the Main Menu, scroll to MENU and press the enter button ■ on the keypad.
2. Select SET DATE.
3. SET MONTH by using the up and down arrows ▲▼. Then press the enter button ■ on the keypad to save the month.
4. SET DAY by using the up and down arrows ▲▼. Then press the enter button ■ on the keypad to save the day.
5. SET YEAR by using the up and down arrows ▲▼. Then press the enter button ■ on the keypad to save the year.
6. Select SET TIME.
7. SET HOUR by using the up and down arrows ▲▼. Then press the enter button ■ on the keypad to save the hour.
8. SET MINUTE by using the up and down arrows ▲▼. Then press the enter button ■ on the keypad to save the minute.
9. If your area observes daylight savings time, select AUTO DAYLIGHT SAVING; scroll to ON, then press the enter button ■ to save. You will be returned to the SET DATE AND TIME menu. Scroll to SET DATE AND TIME and press the enter button ■ on the keypad.

Fahrenheit or Celsius
1. From the Main Menu, scroll to MENU and press the enter button ■ on the keypad.
2. Select FAHRENHEIT/CELSIUS.
3. Select which scale you prefer.

Backlight on Time
This controller has a two color backlight feature. Anytime a button is pressed, the blue backlight stays on for a certain amount of time. A red backlight is visible if you are selecting Emergency Heat mode. You can adjust the amount of time the backlight stays on in the menu options.
1. From the Main Menu, scroll to MENU and press the center button ■ on the keypad.
2. You can change the backlight on time by using the up and down arrows ▲▼. BACKLIGHTING ON (all the time), 15 sec., 30 sec., and NO BACKLIGHTING are your choices. Press the enter ■ button to save the new backlight on time.

10. The date and time are now set. You can return to the Main Menu by pressing the left arrow key to return to the previous menu.

Changing Modes
1. From the main screen select MODE.
2. Select the operating mode you need and press the enter button ■.
NOTE: If selecting EMERGENCY HEAT, the backlight color will change from blue to red indicating that auxiliary heat is operating instead of the heat pump compressor. Auxiliary/emergency heat is significantly more expensive to operate than the heat pump compressor, and should not be selected unless the heat pump compressor is not operational.
Controller Operation cont.

Advanced Settings

Security Lockout
This controller has the option to set security features to lockout everything but the adjustment of the temperature or a total keypad lockout.

1. From the Main Menu, scroll to MENU and press the enter button on the keypad.
2. Select LOCK/UNLOCK.
3. The selection will bring you to the Enter Pin Number screen.
4. Using the up and down arrows, select a pin number to lock out the thermostat. The right arrow moves you to the next pin digit.
5. Once you've entered the 4-digit pin number, press the enter button to save the pin. The screen will display LOCKED and return to the main screen.
6. Once you return to the Main Screen, in the upper left of the screen will alternate between LOCKED and the date and time.
7. Once unlocked, you will have to reset a pin number again to lockout the thermostat again.
8. In the event the pin number is lost, the default is 9999.

Installer Information and Advanced Features

Safety Considerations
Improper wiring or installation may damage the controller. Wiring must conform to local and national electrical codes.

Introduction
The controller is a low-voltage controller which maintains geo storage tank temperature by controlling the operation of multiple hydronic heat pumps system. Batteries are not required; temperature and mode settings are preserved with the power off. The controller is not a power stealing device and MUST have both R and C connected.

HydroZone Installation

1. Turn off all power to unit.
2. Separate the front and back pieces of the HZ0.
3. Mount the base of the HZ0.
4. Connect wires to proper terminal on the pump relay. (see wiring schematic 97P806-01 on page 4).
5. Replace the cover on the base.
6. Turn on power to the unit.

Main Screen
After exiting from the setup mode, controller displays the main screen.

OPERATION, displays the current controller setup selection. They are OUTDOOR, TC AUTO, and TC MANUAL MODE. If the operation mode is outdoor reset or tank control auto, the MODE should display OFF, ON, or EHEAT. If the operation mode is tank control manual, the MODE should display OFF, HEAT, COOL, or EMHT. OUTPUT shall display the current status of the outputs (WARM WEATHER SHUTDOWN, STANDBY, C1, C2, C3, C4, or AUX). STANDBY mode is active when the controller is satisfied and waiting for a call. C1, C2, C3, and C4 will be off and O will stay in its previous state. If the outputs are off due to a warm weather shutdown condition, the proper message should be displayed.
Controller Operation cont.

Mode Select Display and Thermostat Controls

Manual Tank Display

Operating Mode Selection

Settings:
- OFF
- Heating Only
- Cooling Only
- Emergency Heat

Selection: ▼△
- Previous
- Enter

Outdoor Reset or Tank Auto Control

Operating Mode Selection

Settings:
- OFF
- On
- Emergency Heat

Selection: ▼△
- Previous
- Enter

Maximum Water Temperature Needed for Minimum OAT
Lowest Design Water Temperature
Lowest Design Outside Air Temperature
Highest Design Outside Air Temperature

Change Selection or Mode
Change Setpoint, Temperature, or Mode Selection
Enter or Save Selection
Change Setpoint Temperature or Mode Selection
Controller Operation cont.

Wiring Schematic

Installer Settings
These options are intended to be used by the installer. End users are not advised to change or modify any of these settings. Doing so may make your equipment stop working properly and/or may void the warranty of the controller as well as the equipment hooked up to the controller. To access the installer setting menu, the mode must be set to OFF. Then, press both the up and down arrow keys at the same time for at least 5 seconds to enter the installer screen. After initial power-up, you re-enter installer setup. If no selection is made within 30 seconds, the controller will return to the main screen.

Controller Setup
Options to select from:
1. Outdoor Reset - This control mode uses the outdoor reset algorithm to continuously adjust the set point. The set up menu allows selection of Maximum Tank Temperature at a corresponding outdoor air
Controller Operation cont.

temperature (OAT), and Minimum Tank Temperature at its corresponding OAT. An outdoor air sensor must be installed.

Set point A is the maximum tank temperature set point:
Tank temperature (TANK_A) range is 100°F to 130°F, and default as 120°F.
Outdoor air temperature (OAT) range is 0°F to 20°F, and default as 0°F.

Set point B is the minimum tank temperature set point:
Tank temperature (TANK_B) range is 70°F to 90°F, and default as 80°F.
Outdoor air temperature (OAT) range is 40°F to 60°F, and default as 60°F.

All these temperature setting are with increments of 1°F. The dead band is 2°F to 15°F with Increments of 1°F.

Tank Temperature Set point is calculated internally by the outdoor reset algorithm, and updated every 30 minutes if this setup is selected.

Warm Weather Shutdown:
If the warm weather shutdown is selected, the controller will check the outdoor air temperature sensor every 30 minutes. If the temperature is higher than the set temperature selected for 50 continuous hours, then the HydroZone Controller will enter the warm weather shutdown mode. If the temperature drops below the selected setpoint for 5 continuous hours, the controller will exit the warm weather shutdown mode and return back to normal. Warm weather shutdown selections are None, 45, 50, 55, 60, and 65. The factory default is None.

2. Tank Control Auto - Default temperature for tank setpoint is 120°F with a 5°F deadband. The set range is 40°F to 130°F, with Increments of 1°F. The dead band is 2°F to 5°F with Increments of 1°F. The setpoint can be changed from the main screen by pushing the UP or DOWN buttons.

Selecting ENTER shall take the screen to the CONTROLLER SETUP screen.

This option will maintain the temperature with a tighter deadband and automatically switch the heat pump between heating and cooling to maintain the setpoint. The factory default is 120°F heating and 5°F dead band.

3. Tank Control Manual - There shall be no automatic changeover from heating to cooling or vice versa. Heating and cooling modes must be selected manually.

If heating fixed is selected, the default temperature for tank setpoint is 120°F with a 10°F deadband. The set range is 80°F to 130°F, with Increments of 1°F. The dead band is 2°F to 15°F with Increments of 1°F. The factory defaults are 120°F heating and 5°F dead band, 80°F cooling and 5°F dead band, and warm weather shutdown is None. When the selection is moved to WARM WEATHER SHUTDOWN..., ENTER shall take the screen to the WARM WEATHER SHUTDOWN screen.

When ENTER is selected, the installer shall be taken to the COOLING screen.
Controller Operation cont.

If no heating is selected, the screen shall go to the COOLING screen.

If cooling fixed is selected, the default temperature for tank setpoint is 80°F with a 10°F deadband. The set range is 40°F to 85°F, with increments of 1°F. The dead band is 2°F to 15°F with increments of 1°F.

Staging

The controller can control up to four stages of compressors or three compressors and one auxiliary heat. How the unit stages the outputs will be determined by how the outputs are configured. When selecting a dual capacity unit, the next available stage will automatically become dual stage 2. Example: If DUAL 1 STG 1 has been selected for C1 then C2 will automatically be DUAL 1 STG 2.

### Output Setup Configuration Options

<table>
<thead>
<tr>
<th>Output</th>
<th>Setup Configuration Options</th>
<th>Factory Defaults</th>
</tr>
</thead>
<tbody>
<tr>
<td>C1</td>
<td>Single / Dual1 Stage1</td>
<td>Single</td>
</tr>
<tr>
<td>C2</td>
<td>Single / Dual1 Stage1</td>
<td>Off</td>
</tr>
<tr>
<td>C3</td>
<td>Single / Dual2 Stage2</td>
<td>Off</td>
</tr>
<tr>
<td>C4/W</td>
<td>Single / Dual2 Stage2 / Aux</td>
<td>Off</td>
</tr>
</tbody>
</table>

If AUX is selected in stage 4, ENTER would take the user to “ADDITIONAL DEAD BAND FOR AUX HEAT” screen and then to “MAXIMUM OAT FOR AUX HEAT” screen.

The “ADDITIONAL DEAD BAND FOR AUX HEAT” would enable the installer to select how much extra dead band should be added on top of the heat dead band before auxiliary heat would come on. The range is between 5° and 15°F.

In the “MAXIMUM OAT FOR AUX HEAT” the installer can select between NONE or a certain outdoor air temperature. If the installer selects a certain temperature for OAT, the AUX heat shall not come on if the outdoor air temperature is above that temperature. The range is between 0°F and 40°F.

If “NONE” is selected, the AUX heat can come on at any time regardless of the outdoor air temperature. An outdoor air sensor must be installed for this option.
Controller Operation cont.

**Lead/Lag**
If only C1 is selected in the staging, the lead/lag will be selected as “NO”, and can not be changed.

Each compressor output will have an accumulator to keep track of total run time. If any accumulator ran up to the maximum count, all the accumulators shall be reset. Total run time will be reset when lead/lag “NO” is selected. The default setting is “NO”.

- First On – Compressor stage with least amount of accumulated run time.
- First Off – Compressor stage with most amount of accumulated run time.

**Factory Defaults**
When YES is selected for RESTORE FACTORY DEFAULTS, the controller will restore the factory defaults configuration. Factory default control option is tank control manual. The factory defaults are 120°F heating, 5°F dead band, and warm weather shutdown None.

When the installer selects ENTER from any of the BRAND NAME, MODEL NUMBER, SERIAL NUMBER, CONTRACTOR NAME, and CONTRACTOR PHONE screens, the main INPUT DEALER INFO screen is shown. In order to save the dealer information in the permanent memory, the installer shall select SAVE from the main INPUT DEALER INFO screen and hit ENTER. The following screen is shown summarizing the information the installer has inserted in the previous screens.

**Service Contact Information**
Input dealer info.
System Startup and Checkout

System Checkout
1. The HydroZone controller needs to be set to manual heating and cooling for the following start-up procedures.
2. Set all of the zone thermostats to the cooling mode.
3. Reduce the cooling set point to 1° above the actual zone temperature on all thermostats.
4. First stage cooling should energize after a delay. Output LEDs on ZB1-3 should be on.
5. Verify zone valve is operating or pump is running.
6. Set all zone thermostats to heating mode.
7. Increase heating set point to 1° above the actual zone temperature on all thermostats.
8. First stage heating should energize after a delay. Output LEDs on ZB1-3 should be on.
9. Verify zone valve is operating or pump is running.
10. Instruct the owner/operator of correct thermostat and system operation.
11. Fill out and forward all warranty registration papers to WaterFurnace.

Parts Lists

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Specification</th>
</tr>
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<tbody>
<tr>
<td>HZC</td>
<td>HydroZone Control Only</td>
</tr>
<tr>
<td>HZ0</td>
<td>HydroZone Control with signal isolation board - 0 Zone (24V only)</td>
</tr>
<tr>
<td>HZ04AANN</td>
<td>HydroZone Control with signal isolation board - 4 Zone 24V output (valve)</td>
</tr>
<tr>
<td>HZ04A9NN</td>
<td>HydroZone Control with signal isolation board - 4 Zone 115V output (pump)</td>
</tr>
<tr>
<td>HZ08AANN</td>
<td>HydroZone Control with signal isolation board - 8 Zone 24V output (valve)</td>
</tr>
<tr>
<td>HZ08A9NN</td>
<td>HydroZone Control with signal isolation board - 8 Zone 115V output (pump)</td>
</tr>
<tr>
<td>HZ12AANN</td>
<td>HydroZone Control with signal isolation board - 12 Zone 24V output (valve)</td>
</tr>
<tr>
<td>HZ12A9NN</td>
<td>HydroZone Control with signal isolation board - 12 Zone 115V output (pump)</td>
</tr>
<tr>
<td>HZ12A9EN</td>
<td>12 Zone expansion and not equipped with the HydroZone Control or relay board - 24V output (valve)</td>
</tr>
<tr>
<td>HZ12AAEN</td>
<td>12 Zone expansion and not equipped with the HydroZone Control or relay board - 115V output (pump)</td>
</tr>
<tr>
<td>HZAB</td>
<td>HydroZone Accessory Box (water heater or pump control)</td>
</tr>
<tr>
<td>L37-346</td>
<td>3/4” SWT Zone valve motorized sweat (Qty 1)</td>
</tr>
<tr>
<td>L37-347</td>
<td>1” SWT Zone valve motorized sweat (Qty 1)</td>
</tr>
<tr>
<td>TSU02*</td>
<td>Outdoor Air Sensor (required with &quot;Outdoor Reset Control&quot;)</td>
</tr>
</tbody>
</table>

**NOTES:** HZ0 is for tank control only with no zones.