Operation/External Diagnostics: When any thermostat calls for heat, the appropriate zone valve is energized and the yellow light goes on. When the zone valve is fully open, the red light goes on and energizes the end switch relay. The green light should always be on, indicating that power is connected.

Priority Operation: When the priority dip switch is set to ON and the priority zone calls for heat and the mode switch is set to NORMAL, the control will energize the end switch relay to close the priority zone’s end switch. When the priority zone is satisfied, the control’s auto-reset is activated and the priority zone is again allowed to have priority for up to one hour after it is satisfied. Once the priority zone is satisfied, the control's auto-reset is activated and the priority zone is again allowed to have priority for up to one hour after it is satisfied.

Mode Operation: When the dip switch is set to NORMAL, the end switch relay will be energized if any zone is in operation. When the switch is set to RESET, the end switch relay will only be energized if the priority zone is in operation, or through the operation of a plug-in reset control. When the dip switch is set to ON, the priority zone output will stay energized for 2 minutes after its thermostat or aquastat is satisfied, but not operate the boiler.

Post Purge Operation: When the dip switch is set to ON, the priority zone output will stay energized for 2 minutes after its thermostat or aquastat is satisfied, but not operate the boiler.

Priority Protection Operation: When the dip switch is set to ON, and the priority zone is actuated, all other zones will stop operation until priority operation is restored. When not switched to priority, all zones will operate independently.

Thermostat Input (24 vac):
- R: Hot side of transformer. Connect to R on thermostat.
- W: Switched R signal from thermostat. Connect to W on thermostat.
- C: Common side of transformer. Connect to C on thermostat.

Power Input (120 vac):
- Connect neutral (white) leads on transformers to 120 volts ac neutral power supply.
- Connect hot (black) leads on transformers to 120 volts ac hot power supply.

Pump End Switch (Dry Contacts):
- Connect hot input lead of the pump end switch terminal on board.
- Connect hot input lead of the pump end switch terminal on board.
- Connect hot input lead of the pump end switch terminal on board.

Zone 4 Pump End Switches (Dry Contacts): See Diagram.
- N/O: Normally open terminal of the priority zone relay.
- COM: Common terminal of the priority zone relay.

End Switch Pump Neutral Connections:
- Connect neutral power supply directly to neutral lead on circulator(s).
- Connect neutral power supply directly to neutral lead on circulator(s).

Specifications:

<table>
<thead>
<tr>
<th>PRODUCT NUMBER</th>
<th>VOLTAGE</th>
<th>INPUT MAX 24 VAC</th>
<th>TYPE 1 ENCLOSURE</th>
</tr>
</thead>
<tbody>
<tr>
<td>ZVC404-EXP-4</td>
<td>120/60/1 VAC, 3A</td>
<td>24 VA per Zone</td>
<td>ZVC404-EXP-4</td>
</tr>
</tbody>
</table>

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) This device must accept any interference received, including interference that may cause undesired operation.
2 EXP Zone Valve Controls Connected Together with System Pump

SWITCH SETTINGS
Master/Slave: Master
Reset/Normal: Normal
Priority Zone: On

Note: When a circulator is used on the priority zone instead of a zone valve, jumper 3 and 4 of the priority zone.

Operation/External Diagnostics:
When any thermostat calls for heat, the appropriate zone valve is energized and the yellow light goes on. When the zone valve is fully open, the red light goes on and energizes the end switch relay. The green light should always be on, indicating that power is connected.

Dip Switch Settings

LIMITED WARRANTY STATEMENT
Taco, Inc. will repair or replace without charge (at the company’s option) any product or part which is proven defective under normal use within three (3) years from the date of start-up or three (3) years and six (6) months from date of shipment (whichever occurs first).

In order to obtain service under this warranty, it is the responsibility of the purchaser to promptly notify the local Taco stocking distributor or Taco in writing and promptly deliver the subject product or part, delivery prepaid, to the stocking distributor. For assistance on warranty returns, the purchaser will be billed for parts or product contains no defect as covered in this warranty.

Taco reserves the right to provide replacement products and parts which are substantially similar in design and functionally equivalent to the defective product or part. Taco reserves the right to make changes in details of design, construction, or arrangement of materials of its products without notification. TACO OFFERS THIS WARRANTY IN LIEU OF ALL OTHER EXPRESS WARRANTIES. ANY WARRANTY IMPLIED BY LAW INCLUDING WARRANTIES OF MERCHANTABILITY OR FITNESS IS IN EFFECT ONLY FOR THE DURATION OF THE EXPRESS WARRANTY SET FORTH IN THE FIRST PARAGRAPH ABOVE.

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