



Instruction Sheet

ZVC406-EXP Zone Valve Control

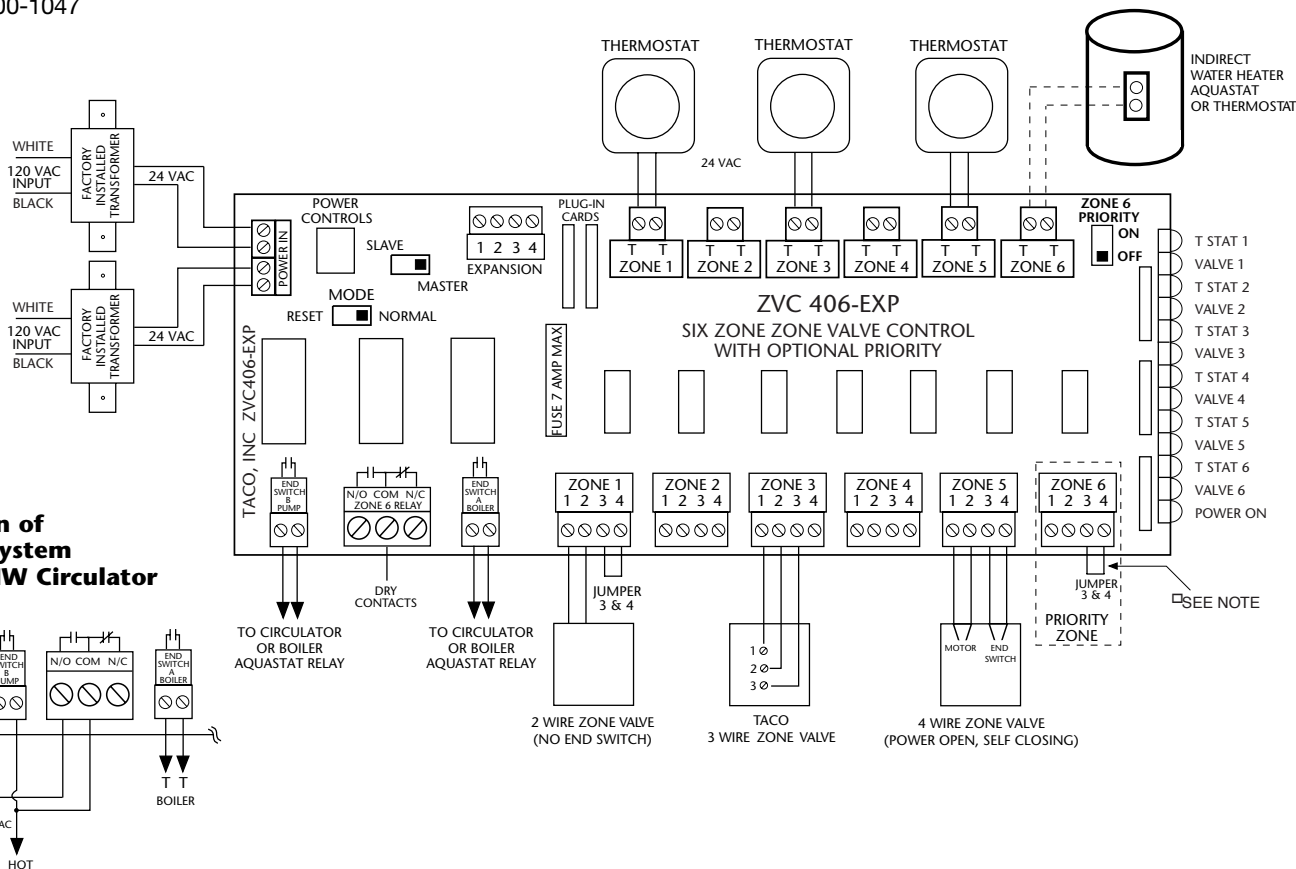
102-108

SUPERSEDES: 102-108 December 1, 2000

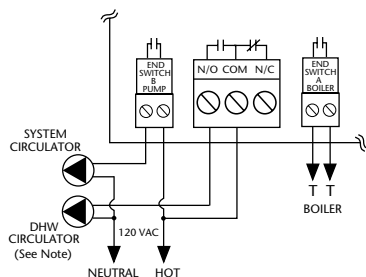
EFFECTIVE: October 23, 2000

Plant ID# 9300-1047

Wiring Diagram



Installation of Optional System and/or DHW Circulator



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 relays. The green light should always be on, indicating that power is connected.

Priority Operation: When zone 6 is switched to the priority setting and is actuated, all other zones will stop operation until zone 6 is satisfied. When zone 6 is not switched to priority, all zones will operate independently. **Note:** When a circulator is used on the priority zone instead of a zone valve, jumper 3 and 4 of the priority zone.

Mode Operation: When the mode switch is set to NORMAL, both end switch relays will be energized if any zone is in operation. When the mode switch is set to RESET, the end switch relay "A" will only be energized when the priority zone is in operation. The end switch relay "B" will be energized when any zone is in operation.

Power Input: Connect 120 volt ac power input to leads on transformer. Neutral to white wire. Hot to black wire.

Expansion Connections: Set the expansion switch to MASTER on the zone valve control that has the designated priority zone or is utilizing the PowerPort options. Set all other daisy chained controls to SLAVE. Connect thermostat wire (18-22 gauge) between terminals 1, 2, 3, 4 on the master control to the corresponding 1, 2, 3, 4 on the SLAVE control(s). Controls may be daisy chained up to 20 zones using any combination of Switching Relay -EXP or Zone Valve -EXP controls.

The Taco Connection: Combine the reliability of the Taco Zone Valves, Priority Zoning Circulators, Thermostats, and the "00" family of circulators with the advanced features of the Taco Zone Controls to achieve total system integration. No matter the application, Taco now provides the products to maximize system performance while simplifying both installation and service.

Specifications:

PRODUCT NUMBER	NUMBER OF ZONES	TRANSFORMER VOLTAGE	MAX OUTPUT AT 24 VAC	DIMENSIONS OF ENCLOSURE
ZVC406-EXP	6 with Priority	120 VAC Input	80 VA	WIDTH HEIGHT DEPTH

All Zone Valve Controls are relay type DPDT and have a single phase motor rating per zone of 1/8 hp (5A) @ 120 VAC.

Features:

External Indicator Lights
Plug-In PowerPort Cards
Switchable Priority
Simplified Wiring
Add-On Power Controls
Works with 2, 3, or 4-Wire Zone Valves
Compact Design
Fuse Protected
100% Factory Tested

Isolated End Switch
Expandable to 20 Zones
Extra Set of Dry Contacts
Contractor Friendly PC Board Layout
Universal Thermostat Compatibility
Sturdy Screw Connections
Extended 3 Year Warranty
Made in the USA

Warning: Wiring connections must be made in accordance with all applicable electrical codes. Use copper wire only. Failure to follow this instruction can result in personal injury or death and/or property damage. 10-18 gauge wire recommended for 120 VAC connections with 9 in.lbs. max torque, 12-22 gauge wire for thermostat connections with 9 in.lbs. max torque, and 12-22 gauge wire for 24 VAC source with 5 in.lbs. max torque.

Do it Once. Do it Right.

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