

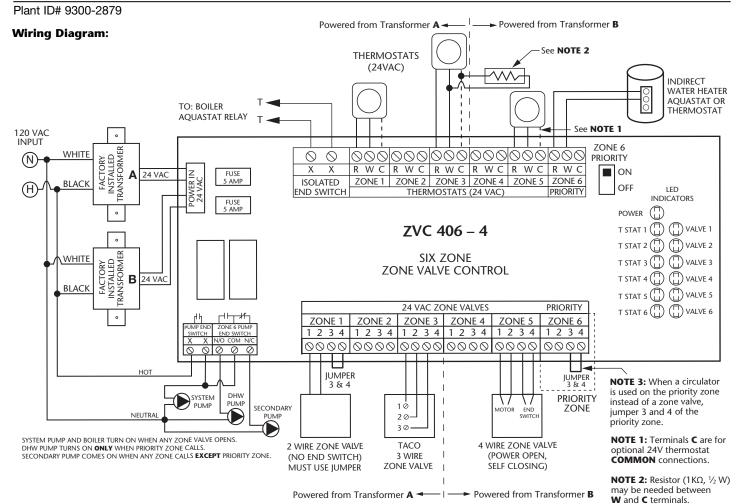
Instruction Sheet

102-397

ZVC406 Zone Valve Control

SUPERSEDES: February 1, 2013

EFFECTIVE: December 20, 2013



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 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.

Priority Protection Operation: When the priority zone calls continuously for more than one hour, power is returned to all the other zones, allowing each zone to function independently. 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 starting from when it calls next.

Specifie	ations:					
PRODUCT	NUMBER	INPUT	MAX 24 VAC		1 ENCLO	
NUMBER	OF ZONES	VOLTAGE	OUTPUT @ 25°C	WIDTH	HEIGHT	DEPTH
ZVC406-4	6 with Priority	120/60/1 VAC, 3A	24 VA per Zone	121⁄4"	8"	3"
			40 VA per Transformer			
		ted ½ hp, 5 amps at 12				
		ted ¼ hp, 5 amps at 12 hermostat and zone val				
are rated 24	VAC, 1 amp. All th		ve connections supply a	a 24 VAC cla	ass 2 outpu	ut.
are rated 24	VAC, 1 amp. All the NG: Wiring	nermostat and zone val	ve connections supply a	a 24 VAC cla accorda	ance w	^{t.} ith al
are rated 24 WARNI applicat	VAC, 1 amp. All the VAC, 1 amp. All the VAC, 1 amp. All the VIII of the VIIII of the VIII	connections m	ust be made in per wire only. 1	a 24 VAC cla accorda 20 VAC	ance w wiring	ıt. ith al g mus

damage. 12-18 gauge wire recommended for 120 VAC connections, 14-22 gauge wire for thermostat connections, and 14-22 gauge wire for 24 VAC source connections.

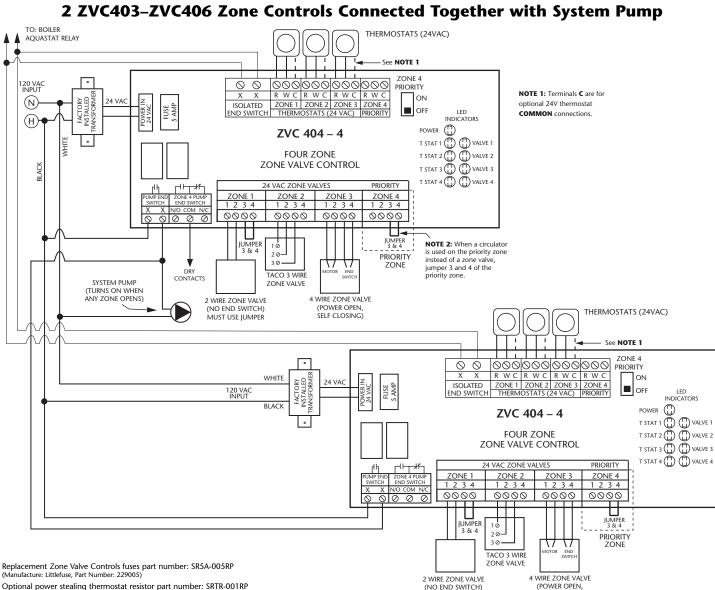
Troubleshooting:

- Problem: Digital thermostats do not work correctly when connected to a zone valve control.
- Solution: Some thermostats are a "Power Stealing" type which means they are powered by the zone control with just 2 wires (**R** & **W**). A resistor may be needed in order to have the thermostat work properly. This resistor should be placed between the W & C (common) terminals of the zone control. If the thermostat manufacturer does not supply a resistor, a 1000 ohm 1/2 watt resistor has proven to work with most models and is readily available at electronic supply outlets (e.g. Radio Shack). If the thermostat is battery powered, then check that the batteries are fresh and installed correctly.
- **Problem:** No heat in a zone or room of building.
- Solution: LED diagnostic lights will help find a component that is not working properly. The green LED should always be on, indicating that power is connected and the fuse is good. When there is a call for heat, the yellow LED will come on indicating power to the zone valve. This indicates the thermostat is working correctly. When the zone valve fully opens and its end switch makes contact, the red LED will come on, the boiler turns on and a circulator will start if connected to the zone control.

For information on Taco's Zone Valve Controls (ZVC) including catalog sheet, instruction sheets, Visio stencils and our highly praised Zone Controls Wiring Guide, scan the QR code to the right or go to our website: http://www.taco-hvac.com.



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.



Optional power stealing thermostat resistor part number: SRTR-001RP (Value: 1000 Ohms, 1/2 watt or higher)

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MUST USE JUMPER

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).

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Any Taco product or part not installed or operated in conformity with Taco instructions or which has been subject to misuse, misapplication, the addition of petroleum-based fluids or certain chemical additives to the systems, or other abuse, will not be covered by this warranty.

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