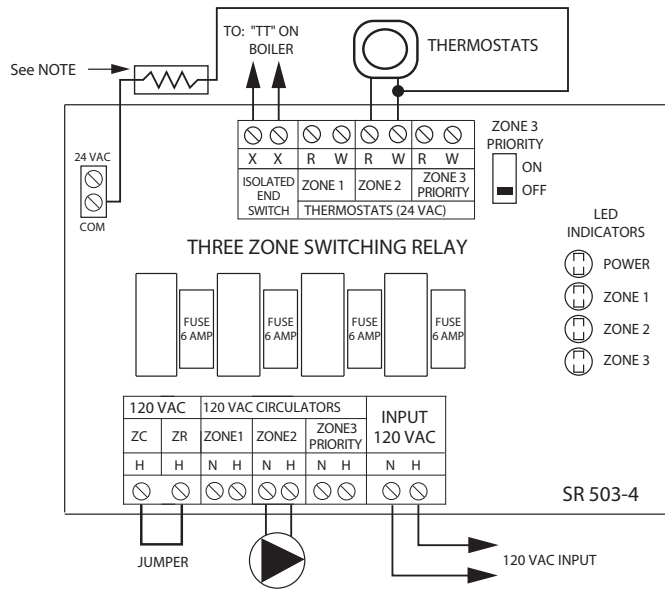


INSTRUCTIONS FOR 3 ZONE PUMP RELAY CONTROL

ARTICLE NO. 298726-001

For Cold Start Boiler Application



Operation: When any thermostat calls for heat, the appropriate circulator is energized and the isolated end switch (X and X) will start the boiler.

Priority Operation: When zone 3 is switched to the priority setting and is actuated, all other zones will stop operation until zone 3 is satisfied. When zone 3 is not switched to priority, all zones will operate independently.

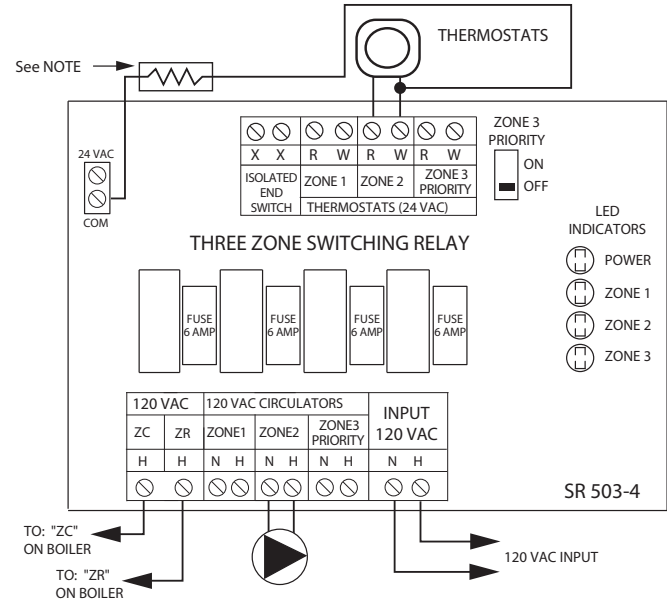
Priority Protection Operation: When the priority switch is set to ON, and if the priority zone calls continuously for more than one hour, power is returned to all the other zones, allowing each zone to function independently. Once the priority zone is satisfied, the control's auto-reset is activated and the priority zone is again allowed to have priority for up to one hour starting from when it calls next.

Jumper Placement: The jumper should be placed between terminals ZC and ZR. Connect the isolated end switch to the aquastat control on the boiler.

Power Input: Connect 120 volt ac power input to terminals N and H. Neutral wire to terminal N. Hot wire to terminal H.

Note: Resistor (1K Ω , 1/2W) may be needed between W and C terminals for power-stealing thermostats. This does not apply to any REHAU thermostat.

For Tankless Coil Boiler Application (Alternative Wiring)



Operation: When any thermostat calls for heat, the boiler is given a signal to start. The appropriate circulator is energized only when the boiler temperature is above the set low limit.

Priority Operation: When zone 3 is switched to the priority setting and is actuated, all other zones will stop operation until zone 3 is satisfied. When zone 3 is not switched to priority, all zones will operate independently.

Priority Protection Operation: When the priority switch is set to ON, and if 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.

Jumper Placement: REMOVE the jumper between terminals ZC and ZR. Connect terminal ZC to ZC on the aquastat control. Connect terminal ZR to ZR on the aquastat control. Confirm polarity is consistent between boiler aquastat and switching relay.

Power Input: Connect 120 volt ac power input to terminals N and H. Neutral wire to terminal N. Hot wire to terminal H.

WARNING: When using Alternative Wiring diagram, wiring instructions must be followed so power originates from the boiler aquastat. Failure to follow these wiring instructions may result in a secondary source of power being connected to the boiler that may activate it under certain circumstances, causing injury or death.

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Specifications:						
Product Number	Number Of Zones	Input Voltage	Maximum Combined Load	Type 1 Enclosure		
				Width	Height	Depth
SR503-4	3 With Priority	120/60/1 Vac	15 Amps	10 3/4"	7"	2 3/4"
All circulator relay connections, including ZC/ZR, are rated 1/3 hp (6 FLA, 36 LRA) at 120 VAC.						
End switch connections are rated 24 VAC, 1 amp.						
All thermostat connections supply a 24 VAC class 2 output.						

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.

⚠ WARNING: Wiring connections must be made in accordance with all applicable electrical codes. Use copper wire only. 120 VAC wiring must have a minimum temperature rating of 75°C. Failure to follow this instruction can result in personal injury or death and/or property 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.

Features:

External Indicator Lights	Simplified Wiring	100% Factory Tested	UL Approved
Switchable Priority	Sealed Relays	Isolated End Switch	24 volt Power Input or Output Terminal
Priority Protection	Fuse Protected Outputs	Contractor Friendly PC Board Layout	
	Compact Design	Universal Thermostat Compatibility	

Two Standard Pump Relay Controls Connected Together (SR502 – SR506)

