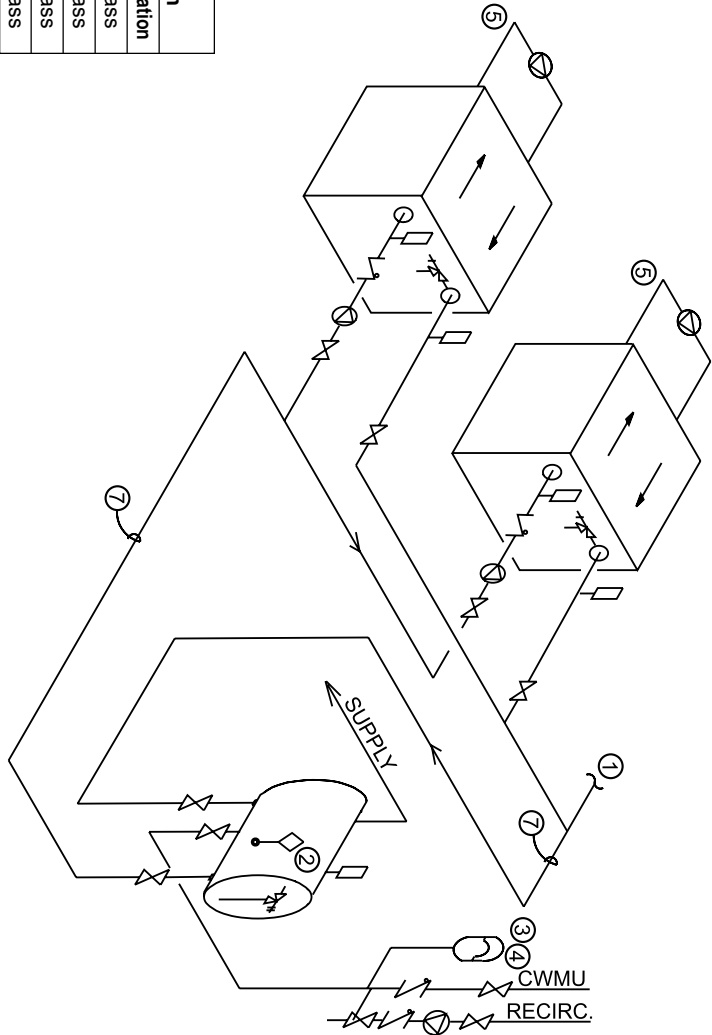


TWO HEATERS, TWO PASS WITH HORIZONTAL TANK

Heater Connection Pipe Sizing and Heat Exchanger Configuration		
Heater Model	Pipe Size (NPS)	Configuration
175-400	1½	Two Pass
500-850	2	Two Pass
1010-1825	2½	Two Pass
2000-2450	4	Two Pass



NOTES:

1. Optional CWMU & Recirc. line location
2. When using intermittent pump and EIW² locate remote aquastat well in lower 1/3 of tank with heat sensing compound.
3. Back flow preventer may be required, check local codes.
4. Thermal expansion tank may be required, check local codes.
5. When using optional factory mounted pump, max pipe length 30' total, 6-90° elbows, full pipe size.
6. This drawing depicts a two-pass heat exchanger.

7. Common piping must be sized for maximum combined heater flow.
8. **CAUTION: PUMP SIZING MUST BE BASED UPON WATER HARDNESS AT JOB SITE.**

⚠ WARNING

This drawing shows suggested piping configuration and valving. Check with local codes and ordinances for additional requirements.

KEY

Water Category Grain Hardness Per Gallon
S = Soft 1 Through 7.5
N = Normal 7.6 Through 17
H = Hard Over 18
P.P.M. 17.1 = Grains Hardness Per Gallon



PUMP



VALVE



GLOBE VALVE



CHECK VALVE



PRESSURE REDUCING VALVE



3-WAY VALVE



TEMPERATURE SENSOR



THERMOMETER



EXPANSION TANK

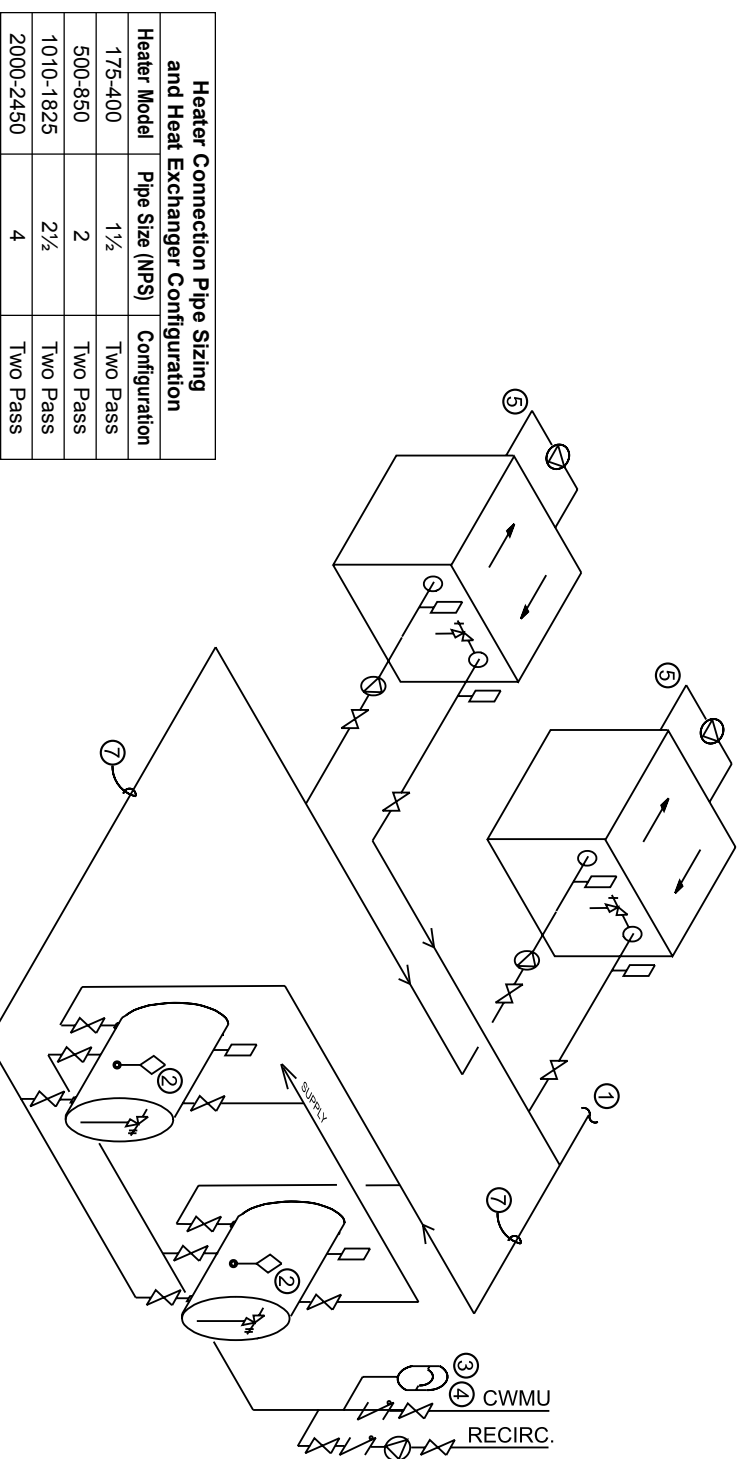


PRV



TPRV

TWO HEATERS, TWO PASS WITH HORIZONTAL TANKS



NOTES:

1. Optional CWMU & Recirc. line location
2. When using intermittent pump and EM² locate remote aquastat well in lower 1/3 of tank with heat sensing compound.
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This drawing shows suggested piping configuration and valving. Check with local codes and ordinances for additional requirements.

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PUMP



VALVE



GLOBE VALVE



CHECK VALVE



PRESSURE REDUCING VALVE



3-WAY VALVE



TEMPERATURE SENSOR



THERMOMETER



EXPANSION TANK



PRV



TPRV