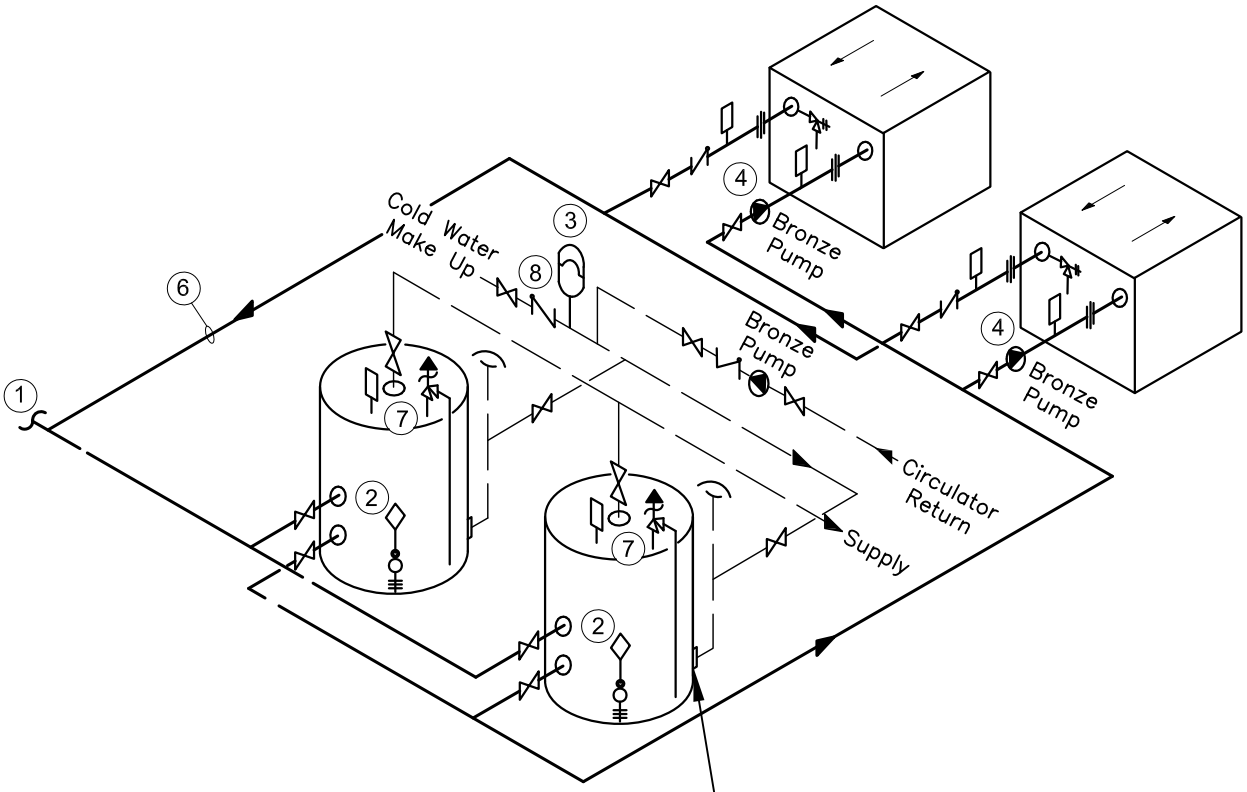
TWO HEATERS
TWO PASS
TWO VERTICAL TANKS

Pump
Valve
Globe Valve
Angle Valve
Bufferfly Valve
Balance Valve
Ball Valve
Motorized Valve
Solenoid Operated Valve
Self-Operated Valve
Pressure Reducing Valve
Check Valve
Pressure Relief Valve
Flow Switch
Thermometer
Aquastat Union
Pressure Switch
Gas Pressure Regulator
Automatic Air Vent

SELF BALANCING DOUBLE REVERSE
RETURN MAKE-UP & SUPPLY, CIRCULATION

LEGEND:
Boiler Loop
Supply Loop



Attention:
Not all RBI stock storage tanks incorporate this tapping: See Note 1.

NOTES:

1. Optional cold water make up and recirculation line location.
2. When using intermittent pump and pump delay, locate remote aquastat well in lower 1/3 of tank. Install aquastat with heat sensing compound.
3. Thermal expansion tank may be required, check local codes.
4. When using optional factory mounted pump, max pipe length 30' total, 6-90° elbows, full pipe size.
5. CAUTION: TEST WATER HARDNESS AND pH AT JOB SITE. The pH and water hardness must be measured before selecting heat exchanger and pump. Consult the Heat Exchanger Graph and Pumping Performance Table before making selection.
6. Common piping must be sized for maximum combined heater flow.
7. Hot water tanks should be equipped with a combination temperature & pressure relief valve.
8. MA Code requires an 1/8" hole in check valve to compensate for thermal expansion.

Notice: These drawings show suggested piping configuration and valving. Check with local codes and ordinances for specific requirements.

Temperature & Pressure Relief Valve
Vacuum Relief Valve
Drain Valve (Typ.)

Heater Connection Pipe Sizing and Heat Exchanger Configuration

Heater Model	Pipe size **NPS**	Configurations
Spectrum 100-250	$1\frac{1}{2}$"	Four Pass
Spectrum 300-400	$1\frac{1}{2}$"	Two Pass
8900 420-1900	$2\frac{1}{2}$"	Two Pass
8800 2000-4000	3"	Two Pass
Dominator 300-2100	$2\frac{1}{2}$"	Two Pass
LCD 225-400	$1\frac{1}{2}$"	Two Pass
LCD 600-2300	$2\frac{1}{2}$"	Two Pass
Futera 500-1000	2"	Four Pass
Futera 1250-2000	$2\frac{1}{2}$"	Four Pass