

SINGLE BOILER PRIMARY/SECONDARY LOW TEMPERATURE HEAT PUMP/SWIMMING POOL

260 North Elm Street - Westfield, MA 01089
413.568.9571 fax 413.568.9613

Hydronic Piping H-3
Rev. 4

Pump

Gate Valve

Globe Valve

Angle Valve

Butterfly Valve

Balance Valve

Ball Valve

Motorized Valve

Solenoid Operated Valve

Self-Operated Valve

Pressure Reducing Valve

Check Valve

Pressure Relief Valve

Flow Switch

Thermometer

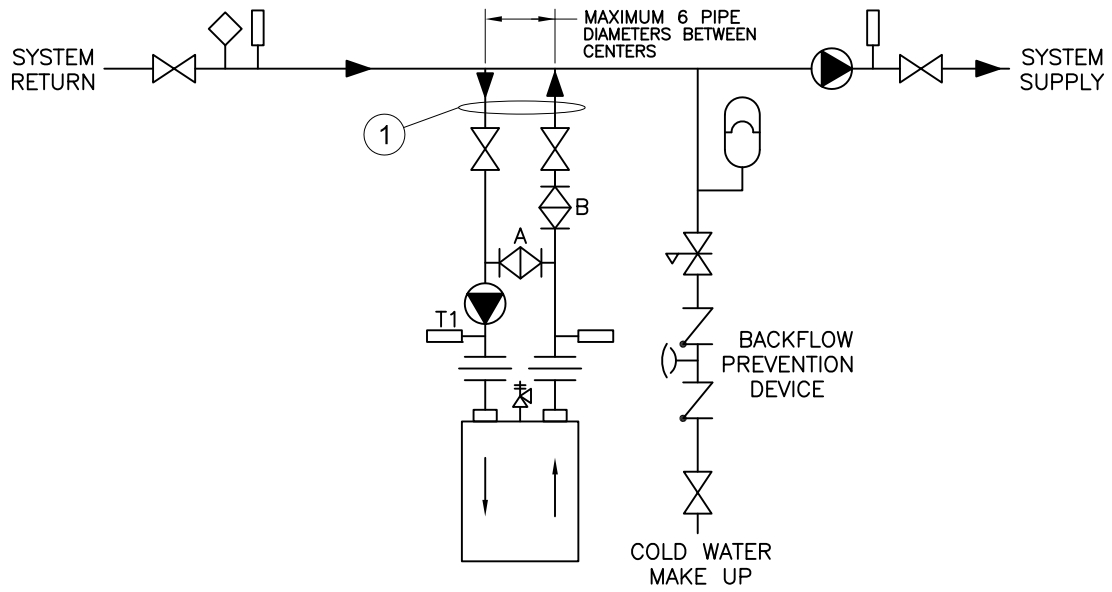
Aquastat Union

Pressure Switch

Gas Pressure Regulator

Automatic Air Vent

Boiler Connection Pipe Sizing and Heat Exchanger Configuration		
Heater Model	Pipe size NPS	Configurations
Spectrum 100-400	1½"	Two Pass
8900 420-1900	2½"	Two Pass
8800 2000-4000	3"	Two Pass
Dominator 300-2100	2½"	Two Pass
LCD 225-400	1½"	Two Pass
LCD 600-2300	2½"	Two Pass
Futura 500-1000	2"	Four Pass
Futura 1250-2000	2½"	Four Pass



NOTES:

1. Boiler circuit piping must be sized large enough to handle maximum flow through unit.
2. Boiler pump sized to boiler design flow requirements.
3. All boilers furnished with factory mounted outlet water temperature gauge.
4. Boiler pump purging required. Use terminals supplied.

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

Adjustment Procedure To Maintain Inlet Temperature Above Dew Point

T1-Temp-Min=110° For Atmospheric
T1-Temp-Min=125° Sealed Combustion

1. Turn heater on and open valves A & B.
2. After steady-state operation, if T1 is less than Temp-Min slowly close valve B until T1 climbs to desired operating temperature above Temp-Min.
3. If T1 is greater than desired operating temperature, slowly close valve A to adjust to lower desired temperature above Temp-Min.
4. Check after system operating temperature has stabilized. Make final adjustments.
5. Follow same adjustment procedure for sealed combustion.

