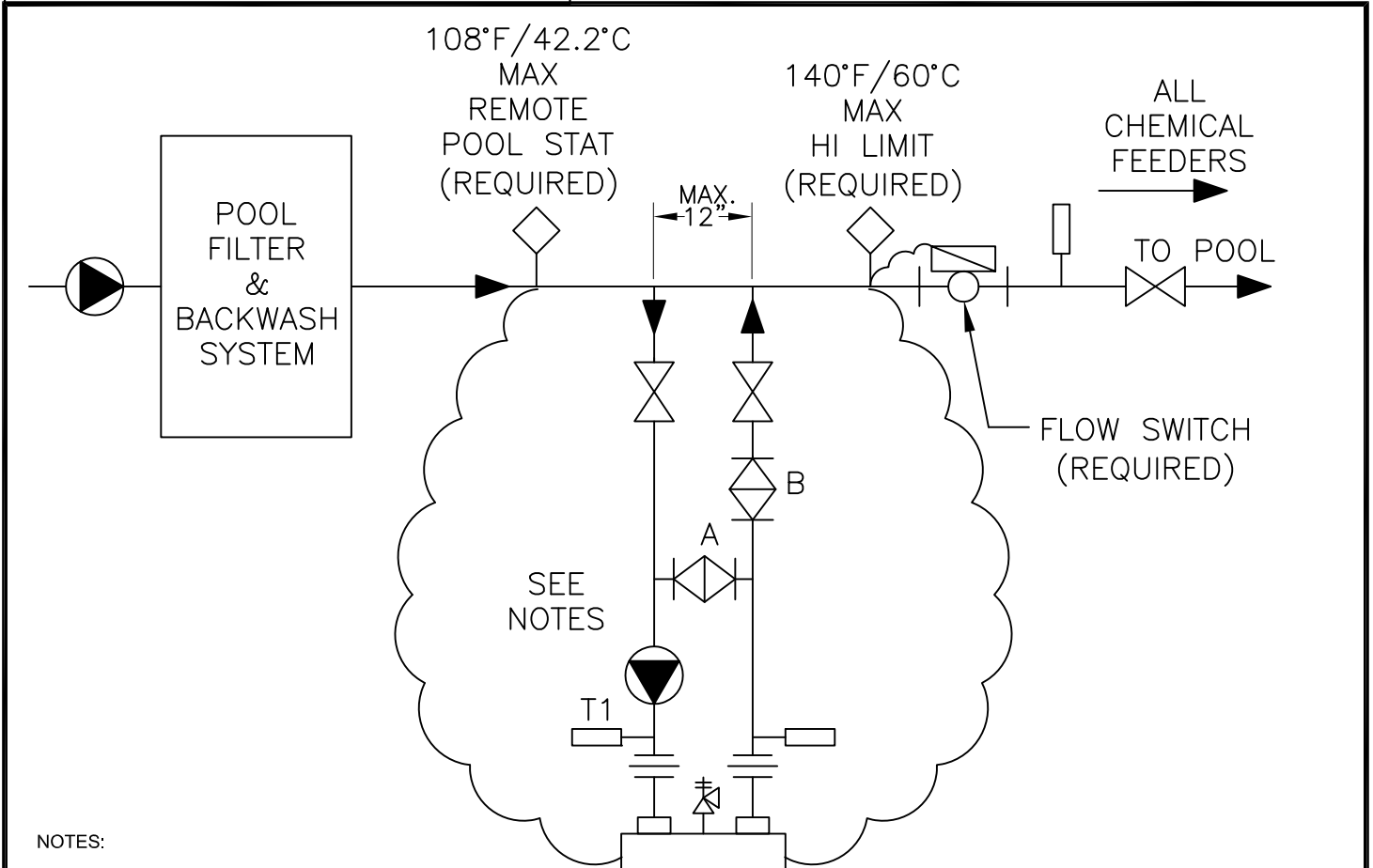


SINGLE BOILER PRIMARY/SECONDARY SWIMMING POOL BALANCING VALVE

Fixed Low Temperature System

Hydronic Piping H-21
Rev. 1



NOTES:

1. For pump selection consult factory.
2. Boiler pump sized to boiler and thermostatic 3-way valve design flow requirements.
3. Boiler circuit piping must be sized large enough to handle maximum flow through unit.
4. All boilers furnished with factory mounted outlet water temperature gauge.
5. Boiler pump purging required. Use terminals supplied.
6. All piping materials must be rated for service temperatures greater than or equal to 180°F/ 82.2°C














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°F/ 43.3°C For Atmospheric
T1-Temp-Min=125°F/ 51.7°C 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.

LEGEND:

 Balance Valve	 Flow Switch									
 Backflow-Prevention Device	 3-Way Valve	 Automatic Air Vent	 Aquastat Union	 Thermometer	 Pressure Relief Valve	 Check Valve	 Gate Valve	 Pump	 Pressure Reducing Valve	 Expansion Tank