This piping diagram is Raypak's recommendation and is not intended to replace an engineering piping system design by a professional engineer.

1. Pumps swing check valve in gravity-closed position.
2. Pipe all relief valves to drain or as local codes require.
3. Install cold water between heater outlet and tank.
4. See chart "tube out" for pipe sizes (calculated at maximum flow not to exceed 10 gpm).
5. Standard pump sizing based on 30 equivalent feet of head. If installed elsewhere, pump must be sized to local code requirements.
6. Provide for thermal expansion of hot water if a backflow preventer, check valve, water meter or pressure-reducing valve is installed on the cold water line.
7. A 24-hour drain is "T" required for recommendations of manufacturer of 3-way mixing valve or other temperature safety device.
8. A two-foot minimum clearance should be used for the space between adjacent pipes and hot water heaters for maintenance.
9. If hot water setpoint exceeds USG with WGP flow, specify "W" boilers instead of "M" water heaters.