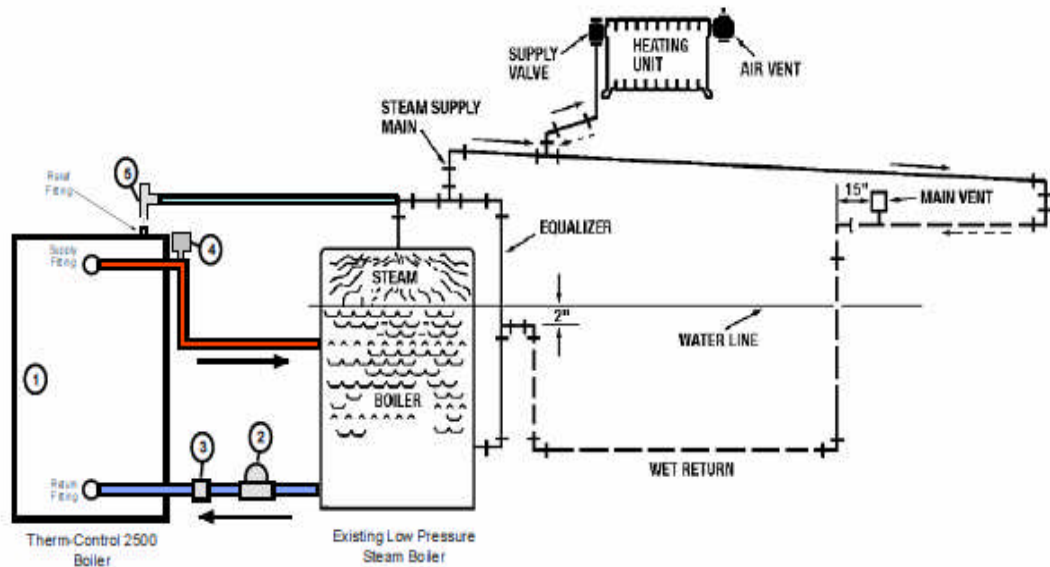


Thermo-Control®

The ultimate wood burning system.

Using a Thermo-Control Boiler with a Low Pressure Steam System



Notes:

Pump ² *must* run continuously whenever T-C Boiler is in operation. Installing a common switch for supply of power to this pump and the boiler controls is the best practice.

T-C Boiler Output *must* enter existing boiler below water line as shown. The existing steam boiler must have a fitting or boss located below water line for this purpose.

Water level in T-C Boiler *must* remain full. This is achieved by installing a Check Valve or Flow control Valve ³ in the RETURN line. Some circulating pumps include a check valve within their body which can be used for this purpose. However using a separate flow control valve is recommended in the event the pump fails and is replaced with one lacking a check in the future.

Use a Low Water Cutoff Switch ⁴ at highest point in supply line to cut power to door mounted draft motor if water level drops for any reason.

Using the 3/4" fitting on the top of your B-B boiler install a steam safety valve ⁵ with a 8PSI setting (Watts 315-MI or equiv.) and add a bypass (equalizing) line to the steam supply as shown.

Your Thermo-Control boiler connected as shown will produce steam, however the most efficiency and best use of wood supply will be achieved if the aquastat on the wood boiler is set at 200-210° (with a 10° differential) and the existing steam boiler is still used to raise the water the additional few degrees to steam. This has proven to be the best compromise between energy cost and system response time.