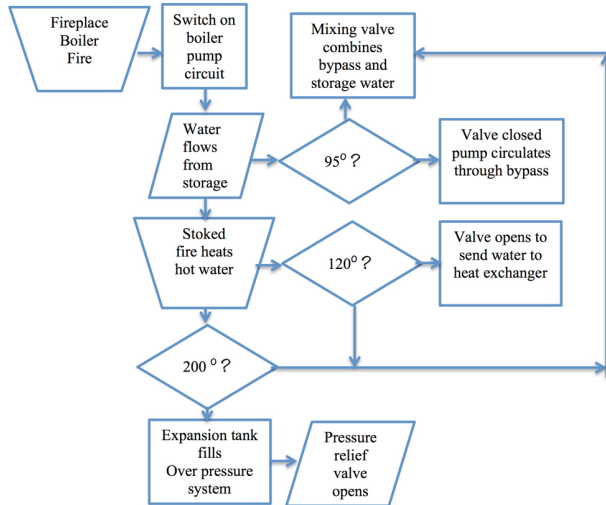


# Fireplace Boiler

Fireplace Boiler Logic Diagram

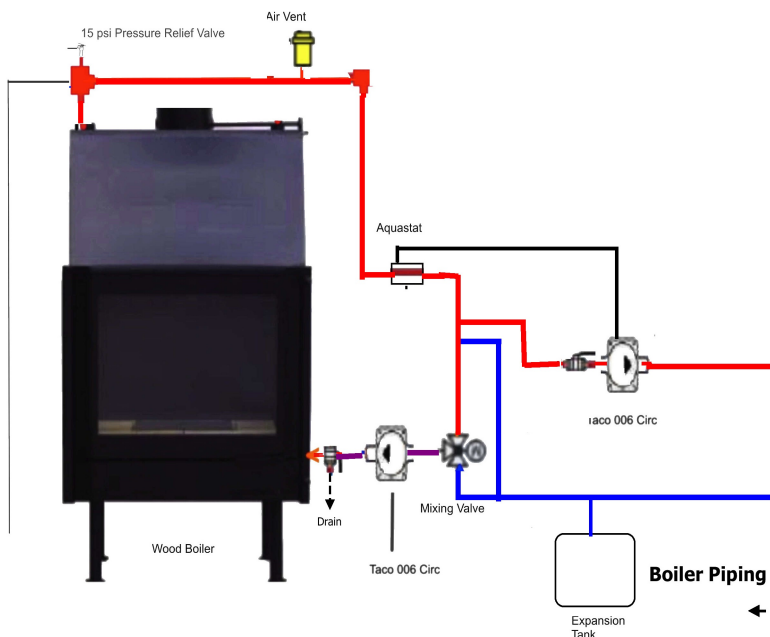


The house had a wood stove with double doors typical of the 80's. I wanted to keep a wood burning option since we heated with wood on the homestead. We replaced the wood stove with a wood burning boiler that was made in Poland.

Although at the time boilers did not have to meet EPA standards in the US this stove meets European standards for efficiency and particulate control.

	Thermal power of furnace	KW/Btu	29.4/ 100316.97	none
	Useful thermal output	KW/Btu	22.2/75749.55	20-25
	Thermal power of convective heat	KW/Btu	6.8/23202.56	6.8
Emissions*	Efficiency	%	76.5 +/- 1.1	>= 76.5
	CO	%	.73	<= 1.0
	NO2	Mg/m3	200	none

based on the 13% share of oxygen in the dry flue gas



Piping this boiler took quite a learning curve. The directions were slim and translated from Polish. But using other boiler install instructions and web pages devoted to wood burning boilers the puzzle was solved.