Rentals • Sales • Service 24/7 • (800) 227-1966

900 HP FIRETUBE BOILER

Maximum BTU/hr Input (ie: Rated Input @ High Fire / 100% Input Rating)	900 x 42,000 = 37,800,000 BTU
Cubic Feet of Natural Gas Required	37,800,000 ÷ 1,000 = 37,800 Cu Ft
Cubic Feet of Vaporized Propane Required	37,800,000 ÷ 2,500 = 15,120 Cu Ft
Gallons of Liquid Propane Required	37,800,000 ÷ 91,600 = 412.66 Gallons
Gallons of #2 Diesel Oil Required	37,800,000 ÷ 140,000 = 270 Gallons
Minimum BTU/hr Input at a 4:1 Turndown Ratio (Low Fire)	37,800,000 ÷ 4 = 9,450,000 BTU
Cubic Feet of Natural Gas Required	9,450,000 ÷ 1,000 = 9,450 Cu Ft
Cubic Feet of Vaporized Propane Required	9,450,000 ÷ 2,500 = 3,780 Cu Ft
Gallons of Liquid Propane Required	9,450,000 ÷ 91,600 = 103 Gallons
Gallons of #2 Diesel Oil Required	9,450,000 ÷ 140,000 = 67.5 Gallons
Maximum Steam Production in lbs/hr (High Fire)	900 x 34.5 = 31,050 lbs/hr
Maximum Water Evaporation Rate	900 x .069 = 62.1 GPM
Minimum Feedwater Pump Flow (on / off pump strategy)	62.1 x 2 = 124.2 GPM
Minimum Feedwater Pump Flow (modulating pump strategy)	62.1 x 1.5 = 93.15 GPM
Minimum Feedwater Tank Storage Requirement	621.25 Gallons
Steam Temperature at 40 psi Saturated	287 °F
BTU/hr Output, Based on 80% Efficiency at High Fire	37,800,000 x .80 = 30,240,000 BTU
BTU/hr Output, Based on 80% Efficiency at Low Fire	9,450,000 x .80 = 7,560,000 BTU
Square Feet Heating Surface (sq. ft. HS) at 5 sq. ft. per HP	900 x 5 = 4,500 Sq Ft
Minimum Steam Safety Relief Valve Capacity at Boiler Design	31,050 x 1.10 = 34,155 lbs/hr
Minimum Water Softener Flow Capacity at High Fire (always based upon 100% input)	62.1 x 2 = 124.2 GPM

HQ - Fremont, CA (510) 490-7100 - Visalia, CA (559) 623-9318 Washougal, WA (360) 335-1443 / Alvin, TX (800) 227-1966 True Nationwide Coverage & Beyond. Representatives Located Worldwide.