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200 HP FIRETUBE BOILER

Maximum BTU/hr Input (ie: Rated Input @ High Fire / 100% Input Rating)	200 x 42,000 = 8,400,000 BTU
Cubic Feet of Natural Gas Required	8,400,000 ÷ 1,000 = 8,400 Cu Ft
Cubic Feet of Vaporized Propane Required	8,400,000 ÷ 2,500 = 3,360 Cu Ft
Gallons of Liquid Propane Required	8,400,000 ÷ 91,600 = 91.7 Gallons
Gallons of #2 Diesel Oil Required	8,400,000 ÷ 140,000 = 60 Gallons
Minimum BTU/hr Input at a 4:1 Turndown Ratio (Low Fire)	8,400,000 ÷ 4 = 2,100,000 BTU
Cubic Feet of Natural Gas Required	2,100,000 ÷ 1,000 = 2,100 Cu Ft
Cubic Feet of Vaporized Propane Required	2,100,000 ÷ 2,500 = 840 Cu Ft
Gallons of Liquid Propane Required	2,100,000 ÷ 91,600 = 22.92 Gallons
Gallons of #2 Diesel Oil Required	2,100,000 ÷ 140,000 = 15 Gallons
Maximum Steam Production in lbs/hr (High Fire)	200 x 34.5 = 6,900 lbs/hr
Maximum Water Evaporation Rate	200 x .069 = 13.8 GPM
Minimum Feedwater Pump Flow (on / off pump strategy)	13.8 x 2 = 27.6 GPM
Minimum Feedwater Pump Flow (modulating pump strategy)	13.8 x 1.5 = 20.7 GPM
Minimum Feedwater Tank Storage Requirement	138 Gallons
Steam Temperature at 85 psi Saturated	337.5 °F
BTU/hr Output, Based on 80% Efficiency at High Fire	8,400,00 x .80 = 6,720,000 BTU
BTU/hr Output, Based on 80% Efficiency at Low Fire	2,100,000 x .80 = 1,680,000 BTU
Square Feet Heating Surface (sq. ft. HS) at 5 sq. ft. per HP	200 x 5 = 1,000 Sq Ft
Minimum Steam Safety Relief Valve Capacity at Boiler Design	6,900 x 1.10 = 7,590 lbs/hr
Minimum Water Softener Flow Capacity at High Fire (always based upon 100% input)	10.35 x 2 = 20.7 GPM

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