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600 HP FIRETUBE BOILER

| Maximum BTU/hr Input (ie: Rated Input @ High Fire / 100% Input Rating) | 600 x 42,000 = 25,200,000 BTU |
|--|--------------------------------------|
| Cubic Feet of Natural Gas Required | 25,200,000 ÷ 1,000 = 25,200 Cu Ft |
| Cubic Feet of Vaporized Propane Required | 25,200,000 ÷ 2,500 = 10,080 Cu Ft |
| Gallons of Liquid Propane Required | 25,200,000 ÷ 91,600 = 275.10 Gallons |
| Gallons of #2 Diesel Oil Required | 25,200,000 ÷ 140,000 = 180 Gallons |
| Minimum BTU/hr Input at a 4:1 Turndown Ratio (Low Fire) | 25,200,000 ÷ 4 = 6,300,000 BTU |
| Cubic Feet of Natural Gas Required | 6,300,000 ÷ 1,000 = 6,300 Cu Ft |
| Cubic Feet of Vaporized Propane Required | 6,300,000 ÷ 2,500 = 2,520 Cu Ft |
| Gallons of Liquid Propane Required | 6,300,000 ÷ 91,600 = 68.7 Gallons |
| Gallons of #2 Diesel Oil Required | 6,300,000 ÷ 140,000 = 45 Gallons |
| Maximum Steam Production in lbs/hr (High Fire) | 600 x 34.5 = 20,700 lbs/hr |
| Maximum Water Evaporation Rate | 600 x .069 = 41.4 GPM |
| Minimum Feedwater Pump Flow (on / off pump strategy) | 41.4 x 2 = 82.8 GPM |
| Minimum Feedwater Pump Flow (modulating pump strategy) | 41.4 x 1.5 = 62.1 GPM |
| Minimum Feedwater Tank Storage Requirement | 414 Gallons |
| | |
| Steam Temperature at 105 psi Saturated | 340 °F |
| BTU/hr Output, Based on 80% Efficiency at High Fire | 25,200,000 x .80 = 20,160,000 BTU |
| BTU/hr Output, Based on 80% Efficiency at Low Fire | 6,300,000 x .80 = 5,040,000 BTU |
| Square Feet Heating Surface (sq. ft. HS) at 5 sq. ft. per HP | 600 x 5 = 3,000 Sq Ft |
| Minimum Steam Safety Relief Valve Capacity at Boiler Design | 20,700 x 1.10 = 22,700 lbs/hr |
| Minimum Water Softener Flow Capacity at High Fire (always based upon 100% input) | 41.4 x 2 = 82.8 GPM |
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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.