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**COMMERCIAL SWIMMING POOL HEATERS
MODEL P – SIZES 1287-4001
SUGGESTED SPECIFICATIONS**

1. The heater shall be Raypak Model _____ with _____ BTU input, _____ output. The heater shall be design certified, ASME inspected and stamped for 160 PSI working pressure, complete with manufacturer's data report. The heater shall be equipped with 125 PSI, ASME pressure relief valve. The water tube heat exchanger shall be of single level horizontal grid design constructed with 9 (18 on sizes above 2100 MBTUH) 1"x.065" wall integral cupro nickel fin tubes with fins spaced at seven per inch, and extra heavy galvanized steel gull baffles secured tightly to the tubes above the point of tangency of the fins. Each end of the tubes shall be rolled into an ASME fire box steel tube sheet and sealed to bronze headers with silicone "O" rings with a temperature rating over 500°F. The headers shall be precision machined for easy removal and the "O" rings seals shall positively prevent boiler water from reaching the steel tube sheets. They shall be of high pressure bronze with integral bronze baffling to direct water through the heat exchanger in two passes.
2. The heat exchanger shall be capable of withstanding a 1000 PSI hydrostatic pressure. The heaters shall be secured to the tube sheets by properly spaced stud bolts and flange nuts. The heat exchanger shall be readily cleanable from either the right side or the left side of the heater, and cleanable on the right side without removing external piping.
3. The heat exchanger shall be explosion proof on the waterside. It shall have 100% copper and bronze waterways to positively protect the heater from galvanic action (electrolysis).
4. The heater shall be equipped with a 24V main electric gas valve, a factory calibrated pressure switch, a pool thermostat, and a high limit switch. Electronic Intermittent Pilot Ignition is standard.
5. The heater shall be equipped with stainless or aluminized steel burners mounted in an easily removable burner drawer. The burners shall be capable of quiet ignition and extinction, and equipped with fixed primary air ports for atmospheric gas firing and capable of complete combustion.
6. The heater shall be equipped with an external bronze pump and bypass arrangement designed to maintain the water entering the heater at the proper temperature that will prevent condensation and scale in the heat exchanger. The entire waterway shall be Non Ferrous.
7. The heater shall be rated at least 82% thermal efficiency by a recognized independent gas appliance test laboratory independent of the manufacturer.