

Master Specification: Model ST

JOB NAME

ENGINEER

REPRESENTATIVE

CONTRACTOR

GENERAL

Provide a quantity of _____ packaged type steam fired storage water heater(s) Model No. _____ as manufactured by HUBBELL Electric Heater Co., Stratford, CT. The pressure vessel shall be mounted on structural supports and be suitably insulated, jacketed, painted and provided with lifting lugs. The entire unit is to be packaged ready for service connections.

PRESSURE VESSEL

The pressure vessel shall be all welded construction and ASME Code Section VIII stamped for a working pressure of 125 psi (**Optional Specification:** _____ psi) and contain a minimum of _____ gallons of storage. The storage vessel shall be carbon steel and lined with seamless Hydrastone cement to a minimum thickness of $\frac{5}{8}$ " on 100% of all interior tank surfaces (**Optional Specifications:** Phenolic lined steel tank, galvanized steel tank, solid Type 304 or 316L stainless steel tank, solid 90/10 Copper-nickel tank). The pressure vessel is to be insulated with 3" thick energy conservation fiberglass blanket insulation and enclosed in a heavy gauge galvanized steel metal jacket finished in gray hammertone enamel. The vessel shall be protected by an ASME approved automatic reseating combination temperature and pressure relief valve set at the tank working pressure and 210°F.

HEATING SECTION

The heating coil shall be rated to heat _____ GPH from _____ °F to _____ °F when supplied with _____ PSI of steam to the control valve and consume _____ lbs/hour steam. The single wall (**Optional Specification:** double wall) heating coil shall be constructed from $\frac{3}{4}$ " O.D. copper (**Optional Specifications:** 90/10 Copper-nickel, admiralty, stainless steel) tubes with all non-ferrous wetted parts and fabricated steel head (**Optional Specification:** Fabricated stainless steel head, fabricated copper-alloy head).

CONTROLS

The water heater shall (shall not) be supplied with steam operating controls. A cast iron pilot operated (**Optional Specifications:** Pneumatic, self operating, electronic) type steam control valve shall regulate the flow of steam to the heating coil in order to control water temperature. A thermostatic drip trap, main F&T condensate trap, Y strainers, vacuum breaker and steam pressure gauge shall be factory sized and piped with the steam control valve.

In addition, the water heater may be supplied with the following optional features:

- Option** Domestic water dial temperature and pressure gauge shall be factory installed.
- Option** The water heater shall be equipped with a factory packaged intra-tank circulator to constantly circulate water within the tank to reduce stratification.
- Option** The heating coil shall be wrapped and baffled and piped with an integral pump package to force circulate water over the heating coil in order to reduce the coil size.
- Option** Single solenoid safety system to close the steam supply to the heating coil should the water temperature in the tank reach the hi-limit set point. Requires 5 Amp, 120 Volt service.
- Option** Double solenoid safety system dumps over heated water in the storage tank to drain in addition to closing the steam supply to the control valve. Requires 5 Amp, 120 Volt service.

WARRANTY

HUBBELL shall warranty all components against defects in workmanship and material for a period of one (1) year from date of start-up and the pressure vessel for a full five (5) years Non Pro-Rated (**Optional Specification:** full ten (10) years Non Pro-Rated) from date of start-up, provided that the unit is started within three (3) months of date of shipment and installed and operated within the scope of the tank design and operating capability. Each water heater shall be shipped with a complete set of installation and operating instructions including a spare parts list and approved drawing.

ISO 9001:2008



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Committed to continuous improvement...

Continuing research results in product improvement; therefore specifications are subject to change without notice. For the most updated information, consult the factory directly.

