

Master Specification: Model SE

JOB NAME

ENGINEER

REPRESENTATIVE

CONTRACTOR

GENERAL

Provide a quantity of _____ commercial electric water heater(s) Model No. _____ as manufactured by HUBBELL Electric Heater Co., Stratford, CT. The entire unit is to be complete with all operating controls and require only plumbing and electrical service connections. The tank shall be all welded steel commercial construction designed for 150 psi working pressure and contain _____ gallons of storage. The tank is to be lined with seamless Hydrastone cement to a minimum thickness of 1/2" on 100% of all interior tank surfaces (**Optional Specification:** tank to be fabricated from solid 90/10 copper-nickel, 304L or 316L Stainless Steel) and shall not require any type of anodic protection. The tank shall be designed and fabricated with non-ferrous copper-silicon threaded tappings and non-ferrous inlet and outlet piping for maximum corrosion resistance. Steel tank tappings will not be acceptable. The entire tank is to be insulated with a minimum of 2" (**Optional Specification:** 3") thick polyurethane foam insulation and exceed the latest ASHRAE standard for stand-by heat loss). The complete heater shall be supplied with a high impact colorized composite protective jacket which cannot rust or corrode and does not require painting.

The cold water inlet shall be 3/4" Female NPT (**Optional Specification:** 1 1/2" Male NPT) and include a non-corrosive strata-flow diffuser which prevents incoming cold water from mixing too rapidly with hot water in the tank. A 3/4" hose connection drain is supplied. The hot water outlet shall be 3/4" Male NPT (**Optional Specification:** 1 1/2" Male NPT) and shall include a factory installed built-in heat trap to prevent water from radiating through the piping during stand-by periods. A separate 3/4" Female NPT tapping is to be provided for relief valve installation. An ASME rated automatic reseating combination temperature and pressure safety relief valve set at 150 psi and 210°F shall be factory supplied.

RECOVERY

The heating element(s) shall be a high quality incoloy sheath electric immersion type and shall be rated at _____ KW which will heat _____ GPH of water at _____ °F Rise (_____ ° to _____ °F).

ELECTRICAL

The heater shall be designed to operate at _____ volts _____ phase _____ Hz (balanced) with all necessary operating controls factory mounted, wired and tested. Each circuit is to be independently operated through a definite purpose magnetic contactor having a resistive load rating exceeding the ampere rating of that particular circuit. Water temperature shall be controlled through an adjustable snap action surface thermostat (**Optional Specification:** an immersion thermostat 100-190°F or 30-110°F). An over-temperature manual reset Hi-Limit shall be factory installed to disconnect all conductors to the heating element(s) in the event of an over-temperature condition in the pressure vessel.

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

- Option _____
- Option _____
- Option _____

WARRANTY

Hubbell shall warranty all electrical 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 spare parts list and approved drawings.



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.

