

# Master Specification: Model E

JOB NAME \_\_\_\_\_

ENGINEER \_\_\_\_\_

REPRESENTATIVE \_\_\_\_\_

CONTRACTOR \_\_\_\_\_

## GENERAL

Provide a quantity of \_\_\_\_\_ point-of-use 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 copper alloy, Type 304L or 316L Stainless Steel) and does 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 that exceeds 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 unit shall bear the UL listing mark certifying the entire water heater.

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/AGA rated automatic reseating combination temperature and pressure safety relief valve set at 150 psi and 210°F shall be factory supplied.

## ELECTRICAL

The heating elements shall be high quality copper sheath electric immersion type. The water heater shall be a dual element design consisting of an upper and lower element rated at \_\_\_\_\_ Watts each (Note: 6, 10, & 19 gallon models have single lower element only). Dual element water heaters are interlock wired for non-simultaneous element operation ( **Optional Specification:** elements to be wired for simultaneous operation). The heater shall be designed to operate at \_\_\_\_\_ volts, single phase ( **Optional Specification:** three phase unbalanced open delta), \_\_\_\_\_ Hz with all necessary operating controls factory mounted, wired and tested. Water temperature shall be controlled through adjustable 110-170°F snap action surface thermostats ( **Optional Specification:** immersion thermostat 100-180°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 \_\_\_\_\_

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.



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



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