

# Master Specification: Model ER

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

\_\_\_\_\_  
ENGINEER

\_\_\_\_\_  
REPRESENTATIVE

\_\_\_\_\_  
CONTRACTOR

## GENERAL

Provide a quantity of \_\_\_\_\_ hazardous location 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 heater is designed specifically for installation in a hazardous location. All operating controls are to be housed within an electrical control panel rated for operation in a Class I, Division 1 & 2, Groups B, C, & D (Class I, Zones 1 & 2, Groups II B&H, II B & II A), Class II, Division 1 & 2, Groups E, F, & G (Zones 21 & 22, Groups III C & III B); hazardous area and is UL and CSA listed. The tank shall be all welded steel commercial construction designed for 150 psi working pressure and contain \_\_\_\_\_ gallons of storage. The pressure vessel 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 304 or 316L stainless steel) and does not require any type of anodic protection. The tank shall be 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" 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 colored 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 (not available on 1 1/2" models) 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/CSA 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 high quality 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. Heaters operating at 3 phase power shall have each circuit 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 immersion thermostat 100-180°F or 30-110°F. An over-temperature manual reset Hi-Limit shall be factory installed to disconnect the heating element 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 \_\_\_\_\_

The water heater manufacturer 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 three (3) 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.



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