

PART 1 – GENERAL

1.1 REFERENCE

- A. Work under this Section is subject to requirements of Contract Documents including General Conditions of Contract, Supplementary Conditions, and sections under Division 01 General Requirements.

1.2 QUALITY ASSURANCE

- A. Water heating equipment shall conform to State and Local Codes, meet national standards, and be certified by respective organization and bear its stamp.

1.3 SUBMITTALS

- A. Shop drawings on items specified herein.

PART 2 – PRODUCTS

2.1 Materials specified herein shall be new unless otherwise noted.

2.2 Local electric storage hot water heaters

- A. Manufacturers: Hubbell, - (add other alternates based on size)
 - A. Provide local storage type electric hot water heaters, where indicated and with rated capacities as scheduled on the construction documents.
 - B. Each water heater shall consist of the following components, completely factory-assembled, ready for connection to services:
 1. Heater tank shall be a vertical, 1 gallon (3.78 L) storage tank, constructed of stainless steel, rated for a minimum pressure of 150 psig (10.3 bar).
 2. Each heater tank shall be fitted with 1/4 inch (6 mm) male non-ferrous threaded connections for maximum corrosion resistance.
 3. Heating elements shall be immersion type, copper sheathed. The heating element shall be 1,000 watts wired for 120 volt, single-phase service.
 4. Heater shall have a safety high-limit cutout and manual reset designed to disconnect the power supply from the heating element in the event of an over temperature condition.
 5. Immersion thermostat shall have an adjustable temperature range of 110°F (38.8°C) to 170°F (76.7°C). Storage tank shall be insulated with a 1 inch (25 mm) thick fiberglass blanket or polyurethane foam and enclosed in a steel or composite jacket with a baked high-gloss finish.

6. Each heater shall be equipped with adjustable immersion type thermostats, high limit control, and dial thermometer mounted on the heater assembly in a separable thermowell.
 7. Heater shall be furnished with a bronze ASME rated temperature and pressure-relief valve set at 210°F (98.8°C) and 150 psig (10.3 bar).
 8. Each unit shall be provided with a 1/2 inch (13 mm) thermostatic mixing valve to the limit the distribution temperature to the fixture being supplied to a maximum temperature of 105°F (40.5°C).
 9. Heater shall be suitable for operation on 120 volts, single phase, 60 Hz, AC power.
- C. Each heater shall be provided with two (2) wall brackets for mounting.
- D. Local electric storage type domestic hot water heaters shall be Hubbell Heater Co. Model CE110 for point-of-use applications.

3.1 INSTALLATION

- A. Install water heaters as recommended by manufacturer. Provide final connections as required. Coordinate water heater location with other Contractors.
- B. Warranty shall be a full ten (10) year Non Pro-Rated against defects in workmanship and material covering the entire unit including all electrical components and the pressure section, provided that the unit(s) are started within (3) months of the date of shipment and installed and operated within the scope of the unit's design and operating capabilities.

All fabrication and assembly shall be performed in the U.S.A.

- C. Initial start-up shall be provided by representative of manufacturer.

END OF SECTION