

SECTION 15423ELECTRIC WATER HEATERPART 1 - GENERAL1.1 DESCRIPTION

- A. Work Included: Furnish and install electric water heater(s) and appurtenant work as shown on the Drawings and/or as directed by the Engineer.
- B. Related Work Specified Elsewhere: "Plumbing - General" is specified in this Division.

1.2 QUALITY ASSURANCE

- A. Acceptable Manufacturers:
 - 1. Rudd/Rheem
 - 2. A.O. Smith
 - 3. Hatco
 - 4. Ariston
 - 5. State
 - 6. Or approved equal.

1.3 GUARANTEE

- A. Floor mounted water heater shall have a 3 year non-prorated guarantee of tank against leakage.
- B. Point-of-use under-sink water heater shall have a full two year guarantee of tank against leakage and 1 year guarantee of all other component parts.

1.4 SUBMITTALS TO THE ENGINEER

- A. Submit full water heater description data.
- B. Submit installation and operation instructions.
- C. Submit manufacturer's warranty.
- D. Make submittals in accordance with Section 01340.

PART 2 - PRODUCTS2.1 MATERIALS

- A. Floor Mounted Water Heater:
 - 1. Heating Element(s): Immersion electric type, nichrome wire embedded in insulation and sealed in seamless copper tubing.
 - 2. Tank: High carbon steel with glass lining or in the case of State water heaters "Duron" coating suitable for 150 psi working pressure.
 - 3. Top or side hot water outlet.
 - 4. Enameled sheetmetal enclosure with fiberglass insulation.

5. Magnesium anode rod (replaceable).
6. Surface mounted thermostat (adjustable).
7. Furnish any contactors and controls required for operation.
8. Hi-limit safety cut-out.
9. Pressure and temperature relief valve sized to meet or exceed the heating capacity of the heat element.
10. Vacuum relief valve sized to accommodate capacity of water heater.
11. UL approved.
12. Size, capacity, and electrical characteristics as indicated on the Drawing.
13. Cold water inlet shall be equipped with a dip tube designed to release incoming cold water low in the tank.

PART 3 - EXECUTION

3.1 INSTALLATION

- A. Install the water heater(s) in strict accordance with the manufacturer's instructions and recommendations.
- B. Install the water heater(s), piping, and wiring in accordance with all applicable local and State codes.
- C. Provide a drain valve on tank.
- D. Pipe the discharge from the relief valve to a floor drain, or a point 6 inches above floor.

END OF SECTION