

**SECTION 223301 DOMESTIC WATER HEATERS**

PART 1 - GENERAL

1.01 SECTION INCLUDES

- A. Requirements for electric water heaters

1.02 RELATED WORK SPECIFIED ELSEWHERE

- A. Valves: Section 220523.
- B. Electric Work: Division 26.

1.03 SUBMITTALS

- A. Product Data: Catalog sheets, specifications and installation instructions for each water heater.
- B. Contract Closeout Submittals:
  - 1. Operation and Maintenance Data: Deliver 2 copies, covering the installed products, to the Director's Representative.
  - 2. Warranty: Copy of specified warranty.

1.04 REGULATORY REQUIREMENTS

- A. Water heater shall be UL listed and labeled.
- B. Comply with the State Energy Conservation Construction Code.

1.05 WARRANTY

- A. Manufacturer's Warranty: Three year warranty for the glass lined water heater tank.

PART 2 - PRODUCTS

2.01 ELECTRIC WATER HEATER

- A. Tank: Welded steel, factory tested at 300 psi and rated for 150 psi working pressure.
  - 1. Glass lining permanently bonded to tank interior surface.
  - 2. Tank nipples factory installed.
  - 3. Renewable magnesium anode.
  - 4. Corrosion resistant dip tube.
  - 5. Drain and relief valve tappings.
  - 6. Renewable bronze boiler drain.
- B. Heating Elements: Immersion type, replaceable; 75 watts per square inch maximum watt density.
- C. Thermostat: Adjustable, interlocked with overheat control, including automatic shut-off.
- D. Wiring: Factory interwired, requiring only a single field electric connection to put the heater into service.

- E. Outer Casing: Steel with baked enamel or acrylic finish.
  - 1. Access door for servicing thermostats and heating elements.
- F. Pressure-Temperature Relief Valve: AGA Z21.22; bronze body with stainless steel internals and threaded blow-off connection.

### PART 3 - EXECUTION

#### 3.01 INSTALLATION

- A. Install the Work of this section in accordance with the manufacturer's printed installation instructions, unless otherwise specified.
- B. Install the water heater on a level, firm base.
- C. Install the pressure-temperature relief valve in the dedicated tank tapping. Pipe the relief valve blow-off to a point 6 inches above the floor.
- D. Provide ball valves on hot and cold water connections.
- E. Make final piping connections with unions.
- F. Flush and fill tank. Do not switch on heating elements until tank is full and entrapped air is eliminated.

END OF SECTION 223301