

SECTION 22 34 00

FUEL-FIRED DOMESTIC WATER HEATERS

PART 1 GENERAL

1.01 OPERATION AND MAINTENANCE DATA

- A. Include documentation of inspections and tests performed, including logs, curves, and certificates.
- B. Documentation shall note replacement of equipment or components that failed during testing.

PART 2 PRODUCTS

2.01 ACCEPTABLE PRODUCTS

- A. Copper-tube Water Heaters:
 - 1. Acceptable product:
 - a) Aerco Innovation 1060, 800, 600.
- B. Fuel-fired Tank Type:
 - 1. Acceptable manufacturers: PVI Conquest.
- C. Venting:
 - 1. Acceptable product: AL29-4C by Security Chimney, Polypropylene, or Schedule 40 PVC Solid Core

PART 3 EXECUTION

3.01 INSTALLATION

- A. No valves shall be installed between the relief valve and its water heater or storage tank. The P & T relief valve shall be installed where the valve actuator comes in contact with the hottest water in the heater. Whenever possible, the relief valve shall be installed directly to a tapping in the tank or heater. Otherwise, install in the hot water outlet piping.
- B. Connections to water heaters shall be made with brass nipples.
- C. Install check valves on cold water supply lines to heaters and hot water storage tanks, to prevent backflow of hot water into the cold water system.
- D. Connections: Coordinate piping installation and specialty arrangement requirements with schematics on drawings.
- E. Sanitary drainage and vent piping installation requirements are included in Division 23.
- F. Provide inlet and outlet pressure gauges on water, compound gauges on inlet and outlet of steam valves, and linear thermometers on hot water outlets and hot water recirculating inlets.
- G. Gas-fired water heaters shall have power burners as a minimum and shall have forced draft if sharing a flue with a forced draft boiler, in which case the water heater's positive pressure at the collar shall be specified.
- H. Provide an expansion tank at DHW system. Tank shall be ASME rated for 200 MBH and above.

END OF SECTION 22 34 00