



TH-750 Steam Fired Domestic Water Heater Specification

General: Furnish vertical type steam fired domestic water heaters as a complete factory steam tested package ready for installation. Unit shall be mounted on a powder coated floor stand and allow for tube bundle removal without removing the heat exchanger from the stand.

Unit shall be ASME Code constructed and stamped in accordance with Section VIII, Division 1, for unfired pressure vessels. Shell construction shall be 316L grade stainless steel, $\frac{3}{4}$ " OD single (Double Wall available) wall copper seamless tubes, brass heavy $\frac{3}{4}$ " tube sheet inner and steel outer, and close grained cast iron steam head. Shell to be rated at 150 psi @ 375 f. Shell insulation shall be 2" high-density "Airglass" insulation with a vinyl jacket outer covering to meet or exceed ASHRAE 90.1. All components in contact with domestic water to comply with NSF61 standard for no lead.

Furnish with a bronze pressure-temperature combination relief valve ASME Code stamped on the shell.

Furnish with a single-seated, BV Type, steam control valve with soft seat construction and bubble tight Class VI shutoff. Steam valve to be electronic type with fail close spring return actuator.

Furnish with a float and thermostatic steam trap assembly sized at 1 psig differential pressure.

Furnish with a $4\frac{1}{2}$ " dial combination pressure vacuum gauge for tube side steam and vacuum breaker.

Controls:

Unit to be supplied with digital microprocessor temperature controller, with electronic output to control valve. Controller shall limit and control internal steam flow & rate to control outlet water temperature. Controller shall have a dual function, high-limit shutoff that will open shell drain valve and close inlet steam control valve simultaneously on pre-determined high limit set point. Control panel shall have white power 'on' light and red 'over temperature' light. Controller shall automatically reset when normal operating temperature limit is restored. Control panel shall be UL Listed with NEMA 4 rated enclosure.

Unit shall be hydro and on-line steam tested before shipment to the field with certified test papers furnished. Manufactured by Thermaflo Engineering Inc. or equal.