

TH-750V 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 ASME Code constructed and stamped in accordance with Section VIII, Division 1, for unfired pressure vessels.

Shell construction shall be 316L grade stainless steel, 20 Gauge copper seamless tubes, brass heavy $\frac{3}{4}$ " tubesheet, and close grained cast iron steam head.

Insulation shall be 1.5" high-density fiberglass with a stainless steel metal jacket out covering.

Furnish with a pressure relief valve ASME Code stamped on the shell.

Furnish with a single-seated, balanced trim, steam control valve with soft seat construction and bubble tight Class VI shutoff. Valve to have 200:1 flow turndown rangeability.

Furnish with a float and thermostatic steam trap assembly w/ strainer, and isolation valve.

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 pneumatic output to single-seated control valve. Controller shall limit and control internal steam density and flow rate to control outlet water temperature. Controller shall have a dual function, high-limit shutoff control module that will open shell drain valve and close inlet steam control valve simultaneously on pre-determined high limit set point. Control panel shall have green power 'on' light and red 'over temperature' light. Controller shall automatically reset when normal operating temperature limit is restored. Solid state controls module shall have dry contact output to building automation controls (BAC). Control panel shall be UL Listed.

Unit shall be hydro and on-line steam tested before shipment to the field with certified test papers furnished, as manufactured by Thermaflo Engineering Company, Charlotte, North Carolina.

TH-750 SERIES MODEL NUMBER DESIGNATION AND OPTIONS

SHELL SIZE AND MODEL

8
 10
 12
 14

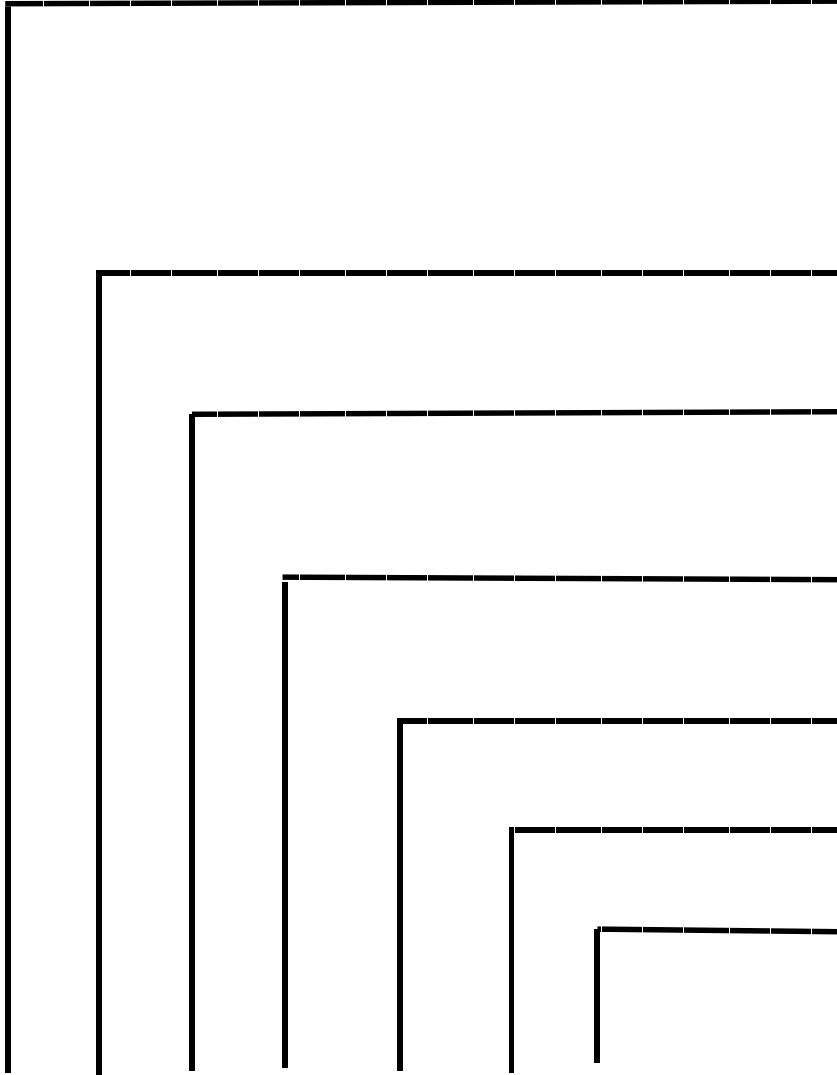
TUBE BUNDLE MODEL

12
 24
 36

150 or 300 PSIG ASME CODE
 STAMP DESIGN

OPTIONS

- V Vertical Design (Standard)
- H Horizontal Design
- S Single Wall Tubes (Standard)
- DW Double Wall Tubes
- SC Subcooler Option
- P Pneumatic Control System
- SA Self Acting Control System



TH-750-10-36-150-V-DW-SC-P

Standard Construction: 316L Stainless Steel Shell, Brass Tube Sheet, 20 Gauge Seamless Copper Tubes. Tubesheet Option: 316L(Only with 316L Tubes)

Tube Options: 18 Gauge Copper, 90/10 Cupro Nickel, 316L Stainless Steel.