



ThermoSteam Vertical High Pressure Steam Boilers



The ThermoSteam Model "VFT" Vertical Fire-tube Steam Boiler features the traditional vertical fire-tube design. VFT models include many advantages over other vertical configured boilers, such as:

- Larger water volume and steam chest, which reduce cycling and improve overall efficiency
- Easier sludge cleanout
- Standard "off-the-shelf" burners
- Proven fire-tube reliability

An Integral Feed Water Pre-Heater eliminates "cold water shock" problems characteristic of some fixed tube-sheet designs.

Standard Features

- **Broad Input Range in Heavy Duty Design.** Available in 5 through 100 BHP (250-4,200MBH).
- **Listing and Code Compliance (ASME/UL/CSD-1)** Constructed, inspected and stamped in accordance with ASME Code.
- **Heavy Duty Fire-tube Design.** Seamless steel tubes ensure up to 84% efficiency.
- **Flue Turbulators.** Help force heat from the flame into the walls of the flue tubes.
- **Power Flame Burners.** UL listed gas, light oil, or combination gas/light oil burners.
- **Rugged 4 Piece Construction.** A modular design featuring four major components.
- **Refractory/Cement Lined Combustion Chamber.** With models that withstand up to 4.2 million BTH input.
- **Flame Inspection Port.** Startup is simplified by an easy access flame inspection port.
- **Skid Mounted Design.** All components are skid mounted on a channel steel structural frame, piped and wired at the factory.
- **Insulated Steel Jacket with Enamel Coating.** The boiler is insulated with a minimum of 4" of 3/4 pound fiberglass insulation surrounded by a 16 gauge steel jacket. Maximum jacket temperatures at high fire are less than 130°F.
- **Pressure Vessel Cleanout Openings.** Multiple cleanout openings save time during boiler cleanout.

Standard Trim Package—Pressure control (cool off), manual reset pressure limit, ASME safety valve(s), pressure gauge with gauge cock, feed water stop & check valves, full-port bottom blowdown valve(s) (two on units > 100 psd), combination float-type level control/low water cutoff with blowdown valve, water level sight gauge with blowdown valve, manual reset probe-type low water cutoff w/pilot light, surface blowoff provision, and single point utility connections.



ThermoSteam Systems Inc.
604 N. Hill Street
South Bend, IN 46617

800-548-9643

Thermosteam Boiler Manual

Clemens Wendtner

A red circular graphic with a gradient, appearing as a stylized arrow or a partial circle, located to the right of the author's name.

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