

GAS FIRED THERMAL FLUID HEATERS

GFO & GFW SERIES

SPECIFICATIONS

- Natural gas fired heaters
- For heating thermal oils or water
- 240,000 to 20MM Btu/Hr. capacity
- 4 heater coil designs available
- Temperature designs for 250°F, 550°F, 650°F & 750°F



DESCRIPTION

The GFO series heat transfer systems are high capacity, natural gas fired thermal fluid heaters with maximum operating temperatures up to 750°F and heating capacity from 500,000 to 20MM BTU/HR. GFW series systems are gas fired water heaters with maximum operating temperatures up to 250°F and heating capacity from 240,000 to 5.4MM BTU/HR. Typical Packages include: skid mounted fired heater, burner controls and valves, pre-piped circulation pump and expansion tank, and required safety devices.

These units are commonly used as a central heating source in conjunction with our satellite series units to provide temperature control of multiple independent process zones.

FEATURES

- Helical and nested coil designs available
- Pre-piped skids with foamglass insulation
- Horizontal and vertical configurations available
- High efficiency designs
- Includes all safety & temperature controls
- ASME heater coils
- Easy to maintain



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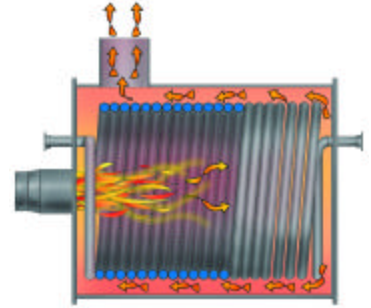
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AVAILABLE HEATER DESIGNS



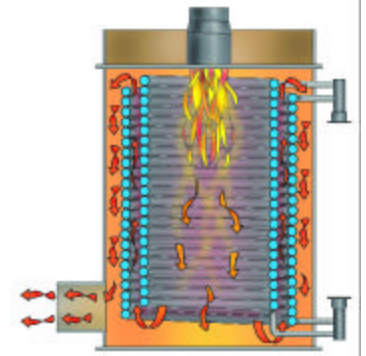
HELICAL COIL - 2 PASS DESIGN

This horizontal two pass, helical coil offers a simple, low cost, low maintenance, design for a thermal fluid heater. The heater chamber is based on a horizontal center fired burner utilizing radiant heat from the flame on the coil for the first pass. Hot combustion gases turn back along the outer side of the coil for convective heating on the second pass. Typical heater efficiency is 80% LHV. Capacities available for the GFOH thermal fluid heater range from 700,000 to 18 million Btu/hr.



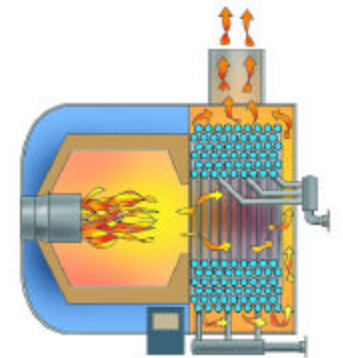
DUAL COIL - 3 PASS DESIGN

This three pass, helical coil design offers very high thermal efficiencies for a compact thermal fluid heater. The heater chamber is based on a vertical down fired burner, utilizing radiant heating on the first pass and convective heating on the second and third passes. The large chamber diameter and increased surface area of the dual coil ensure long life of the thermal fluid. Typical heater efficiency is 90% LHV. Capacities available for the GFOD thermal fluid heater range from 500,000 to 20 million Btu/hr.



ISOLATED COIL DESIGN

This multi-pass, nested coil offers high thermal efficiencies and extended coil life for a compact thermal fluid heater. The isolated combustion chamber eliminates impingement damage to the coil. Forced draft gases exiting the combustion chamber provide both radiant and convective heating in the coil chamber. Combustion air is preheated for increased fuel efficiency. Typical heater efficiency to 85% LHV. Capacities available for the GFOI thermal fluid heater range from 2.5 to 20 million Btu/hr.



MULTI-PASS WATER COIL DESIGN

This multi-pass, staggered coil design offers high thermal efficiencies for a direct fired hot water boiler. The low pressure up-shot burners provide both radiant and convective heating to the tube bundle. Capacities available for the GFW design range from 240,000 to 5.4 million Btu/hr.

