

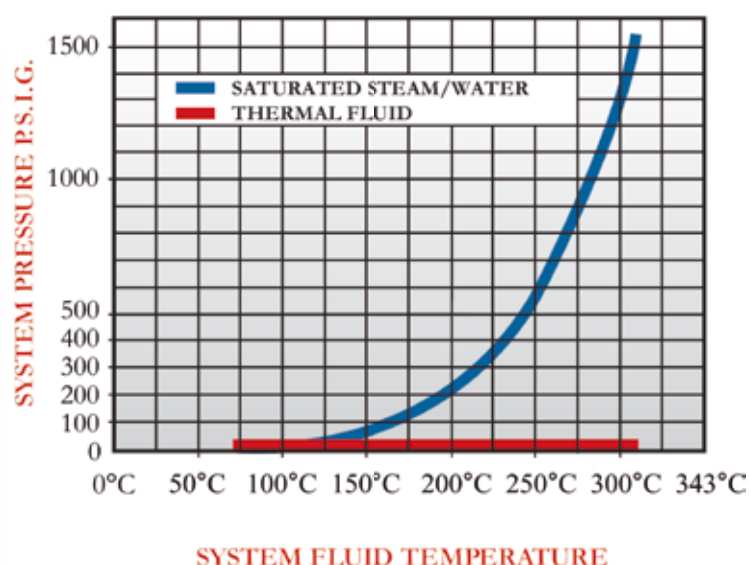
## Thermal Fluid Heaters 22kW - 5.9MW



- ▶ **FT-C Vertical Coil Design**
- ▶ **FT-N Vertical Electric Design**
- ▶ **FT-HC Horizontal Coil Design**



# Thermal Fluid Heaters



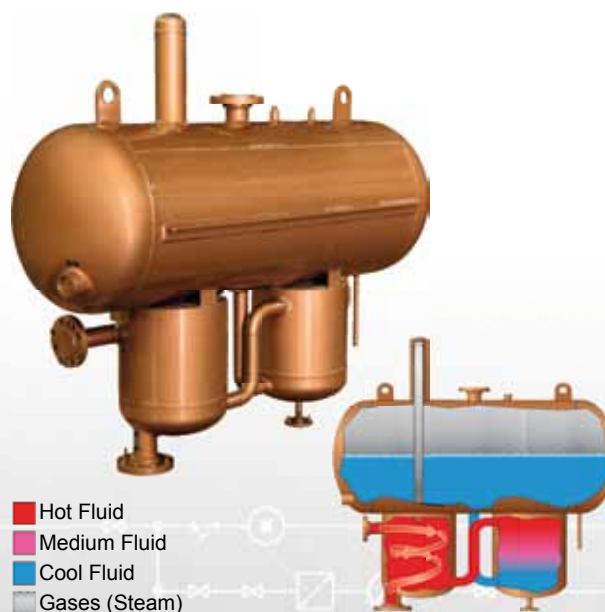
Fulton's Thermal Fluid (hot oil) Heater Systems have a compact construction which can be skid-mounted with a circulating pump, expansion tank and related pipework.

The choice between a steam system or a thermal fluid system is governed by the process requirements. The range of process temperature is a deciding factor. If the system's required temperature is above the freezing point of water (0°C) and below approx. 180°C, the choice is usually steam. However, if the required temperature is below 0°C or above 180°C, thermal fluid may be a better solution.

## Benefits of Thermal Fluid Systems

- ▶ No Corrosion or Freezing
- ▶ High Operating Temperatures  
(up to 345°C) with Low System Pressure
- ▶ Minimum Maintenance
- ▶ Simple Circuit
- ▶ Fulton's Combination Expansion/Deaerator/Thermal Buffer Tank Provides Pipework Simplification, Protection of Thermal Fluid from Oxidation and Continuous Deaeration of Fluid
- ▶ Manufactured to Customer Specifications
- ▶ Skid-Mounted Option Available

## FT- L Expansion/Deaerator/Thermal Buffer Tank



- ▶ Designed to work as an Open System where applicable, eliminating the expense of an inert gas blanket
- ▶ Continuous Deaeration of steam and other non-condensibles
- ▶ Protects fluid from oxidation
- ▶ Ease of installation
- ▶ Simplification of Pipework



# FT-C Vertical Coil Design

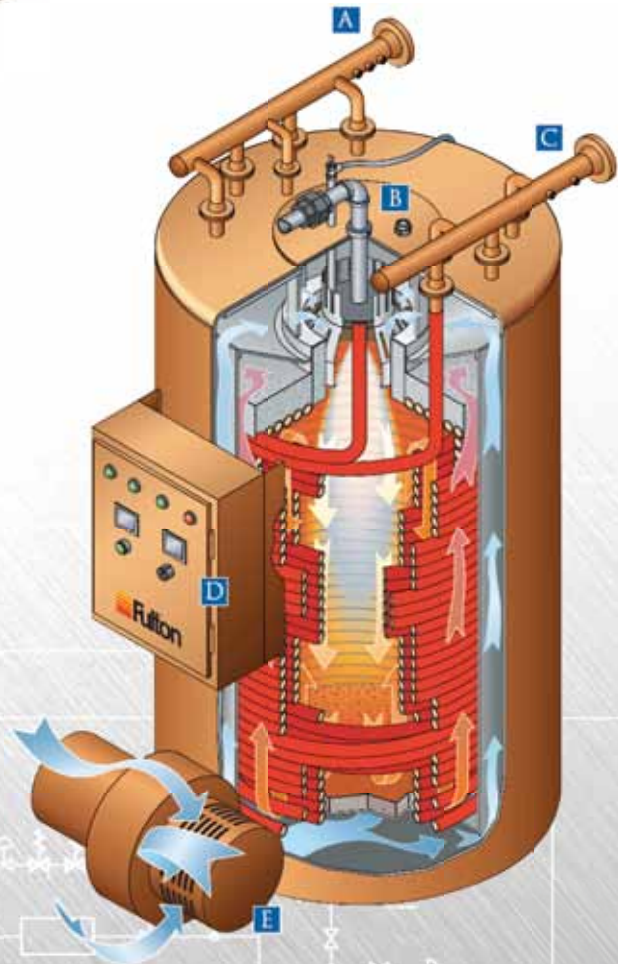
The Fulton FT-C Thermal Fluid Heater offers a compact, fuel fired, 4-pass heater design capable of operating temperatures up to 345°C.

The heater is designed to allow for high fluid velocities and low film temperatures, which translates into system longevity. It is highly efficient and its ability to be skid-mounted means minimal floor space is required.



- A** Thermal Fluid Inlet
- B** Top Mounted Burner
- C** Thermal Fluid Outlet
- D** Electrical Control Panel
- E** Combustion Fan

- ▶ **11 Models: 235kW - 4.1MW**
- ▶ **Operating Temperatures up to 345°C**
- ▶ **Vertical 4-Pass Design**
- ▶ **Preheated Combustion Air**
- ▶ **Gas, Oil or Dual Fuel Burners;  
on/off or Modulating**
- ▶ **High Efficiencies**
- ▶ **Even Heating**
- ▶ **Skid-Mounted Option Available**



## FT-N Vertical Electric Design



- ▶ **12 Models: 22kW - 500kW**
- ▶ **Operating Temperatures to 340°C**
- ▶ **Compact Vertical Design**
- ▶ **Low Watt Density Elements- Low Film Temperatures and Long Element Life**
- ▶ **Skid-Mounted Option Available**

The Fulton FT-N Thermal Fluid Heater offers a compact vertical heater design capable of operating temperatures up to 340°C. It has low watt density elements, therefore low film temperatures and long element life. Optionally, it is available as a skid-mounted package.

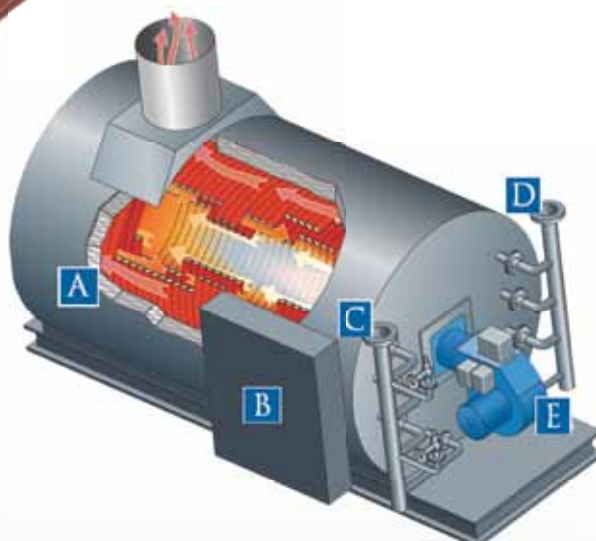


# FT-HC Horizontal Coil Design



The Fulton FT-HC Thermal Fluid Heater offers a compact horizontal 3-pass heater design capable of operating temperatures up to 345°C. It offers low emission gas burners and alternative fuel capabilities. It is also available as a packaged skid-mounted system.

- ▶ 8 Models: 0.7MW - 5.9MW
- ▶ Operating Temperatures to 345°C
- ▶ Compact Horizontal 3-Pass Design
- ▶ Modulating Gas, Oil or Dual Fuel Burners
- ▶ Low Emission Gas Burners
- ▶ Alternative Fuel Capabilities
- ▶ Open Protocol Burner
- ▶ Low Profile Design
- ▶ Customised Controls Available
- ▶ Skid-Mounted Option Available



- A High Density, high temperature insulation
- B Electrical Control Panel
- C Thermal Fluid Outlet
- D Thermal Fluid Inlet
- E Burner and Air Inlet

## Site and System Requirements

The boiler must be positioned on a load bearing level floor in a well ventilated and dry location. Access must be left around the boiler for service and maintenance purposes. The flue must conform to the Clean Air Act with notification to the Local Authority.

## After Sales Support

In the UK, Fulton engineers provide a nationwide commissioning and after sales service. We strongly recommend that every boiler is commissioned by a Fulton engineer to ensure that the boiler, burner and ancillary equipment are setup to give optimum efficiency and reliability. The commissioning engineer will also instruct the on-site operators in the operation and maintenance of the boiler.

Fulton After Sales can provide annual service contracts covering all aspects of after sales service and inspection.

For boilers sold overseas, Fulton are represented by Approved Distributors who provide the important after sales service. UK based engineers are available to travel worldwide for service support.

## Warranty

The pressure vessel has a 5 year warranty.



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