



**Thermcraft**  
incorporated

High Performance Technology

**Tube**

**Furnaces**

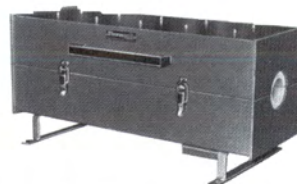
Wide Temperature Ranges



Special large bore hinged, Split Tube Furnace with air cylinders to assist in opening the furnace halves.



Thermcraft laboratory scale Rotary Tube Furnace complete with DC variable speed control and temperature control system.



Hinged Split Tube Furnace with 3" I.D. x 24" long heated chamber. Designed for three zone operation at temperatures to 1200°C.



Thermocouple Calibration Furnace. Designed to accept 5 thermocouples and digitally indicate the reading.

YOUR SOURCE FOR HIGH TEMPERATURE PERFORMANCE



## SPLIT TUBE FURNACES

Custom built Vertical Tube Furnace. Specially designed hinges allows each furnace half to be moved independently from the other half. A special cut-out for cleaning alloy retort ports.



Thermcraft Hinged Split Tube Furnaces are available in two standard series, single and three zone. These series of furnaces uses ceramic half round heating elements for temperatures up to 1204°C (2200°F). The 1010°C (1850°F) and 1204°C (2200°F) series furnaces can mounted either horizontally or vertically. Designed to give uniform temperatures around the full 360° of the heated chamber. Furnaces feature insulating vestibules at the ends of the heated chamber and graded layers of insulation for maximum thermal efficiency.

Horizontal Split Tube Furnace. Designed with three (3) zone temperature control for temperatures up to 1010°C (1850°F).



Hinged Split Tube Furnace, (large bore) 7" I.D. x 36" long heated chamber. Designed for temperature up to 1204°C (2000°F).



All units available with custom-built temperature control packages.

## SOLID TUBE FURNACES

Thermcraft Solid Tube Furnaces are an economical means of providing for your heating requirements. Furnaces are available in a variety of sizes and can be supplied for either vertical or horizontal use. These furnaces are built with rugged ceramic heating elements. They are available in two temperature ranges with either one or multi-zone construction. Light weight ceramic fiber insulation allows for rapid heat up, recovery, and cool down. Insulating vestibules allow for maximum temperature uniformity. Furnaces are built to your specific requirements. Temperature control systems are available.



Solid Tube Furnace with heavy gauge windings for operation up to 1300°C (2372°F).



Solid Tube Furnace designed for vertical operation. Special mounting bracket designed to customer's requirements.



Solid Tube Furnace designed with 2" I.D. x 24" long heated chamber for horizontal or vertical operation.

## HIGH TEMPERATURE TUBE FURNACES

Thermcraft high temperature tube furnaces are for applications in which temperatures reach up to 1530°C(2800°F). These furnaces are available in either single or three zone, solid or hinged split-tube design. This series of furnaces uses silicon carbide heating elements mounted above and below the heated chamber. Graded layers of insulation and insulating vestibules are used to provide maximum temperature uniformity and thermal efficiency. The durability built into these units provide excellent performance and long lasting service. Units are built to your specifications in a variety of sizes and with state-of-the-art electronic temperature control packages available.



Hinged Split Tube Furnace with silicon carbide heating elements for temperatures up to 1530°C (2800°F). Designed for vertical or horizontal operation.



Hinged Split Tube Furnace built to accept 3" I.D. x 24" long ceramic process tube. Three zones of temperature control for maximum temperature uniformity.



Solid Tube Furnace operation to 2800°C. Single zone configuration shown with custom quartz viewport on end.

## TUBE FURNACE OPTIONS

■ VIEWPORTS- Quartz viewing windows can be mounted into the furnace shell

■ PROCESS TUBES- Alloy, mullite or high purity alumina process tubes are available for any furnace. End seals for maintaining atmosphere can be also be built into your system. Process tubes are recommended for applications involving toxic, flammable or corrosive gases.

■ VACUUM OR ATMOSPHERE RETORTS- Flanged alloy retorts can be provided to fit most furnaces which operate at 1100°C (2040°F) or lower. Retorts allow for atmosphere or gas tight operation.

### 1800°C (3272°F)

Solid and Split Tube Furnaces, with both horizontal and vertical orientation, are available for special applications up to 1800°C (3272°F). Uses Molybdenum Disilicide heating elements in an air atmosphere. Contact our sales department for additional information.

Thermcraft Incorporated has a wide range of standard products which includes: ceramic heaters, vacuum formed ceramic fiber heaters, diffusion heaters, control systems, as well as industrial ovens and furnaces. A standard line of split tube furnaces, solid tube furnaces, and controls are available for shipment in (10) working days. Thermcraft is also a recognized leader in **CUSTOM** heat-treating, industrial, and laboratory ovens and furnaces.

Call your local representative or our staff of trained sales engineers at the Winston-Salem plant with any of your heating problems.



Other Thermcraft products:

Box Furnaces  
Ceramic Heating Elements  
Ceramic Fiber Insulation & Insulation Packages  
Control Systems  
Custom Furnaces  
Custom Ovens  
Diffusion Heating Elements  
Fibercraft® Vacuum Formed Heating Elements  
LAB-TEMP  
Marshall™ Furnaces  
Thermal Knife<sup>PAT.</sup>  
Thermocouples  
Standard Tube Furnaces(10 day shipment)  
Vestibule Blocks



Accepted for  
your convenience



**Thermcraft**  
incorporated

P.O. Box 3950 • Overdale Road  
Winston-Salem, NC 27117-2037 USA  
(336) 784-4800  
FAX (336) 784-0634

**Website:** [www.thermcraftinc.com](http://www.thermcraftinc.com)

**Email:** [sales@thermcraftinc.com](mailto:sales@thermcraftinc.com)