

# 'SUPER HEAT' Muffle Furnace



## FEATURES

- Temperatures up to 1200°C.
- Precise temperature control.
- Easy to read digital display.
- Standard sizes.
- High efficiency insulation.
- Over temperature protection.
- Vertical raise counter balanced door.
- Controlled temperature rise.
- Power cut-off when door opens.
- C.E. marked.

Townson and Mercer's **'SUPER HEAT'** furnaces have been designed to give both science and industry the controlled high temperatures that are required in both production and research.

Some typical applications include:

- Heat treatment - annealing, hardening and tempering
- Stress relieving in glass components
- Research and development of new materials
- Thermal ageing of materials or products
- High temperature curing
- Separation of bonded components
- Melting of non-ferrous metals
- Firing of ceramic and sintered materials
- Ashing/ coking
- Smelting

The furnaces are built in a modular construction which gives the product durability and strength.



The heated chamber is formed from hard-wearing sillimanite and is located within the one piece outer case, an air gap and a graded selection of the latest high efficiency light-weight insulation between chamber and case achieves both a high thermal efficiency and cool outer case.

The counter balanced door can be opened effortlessly and moves up and into a safe position with the internal hot surface facing away from the operator at all times. A door safety switch operates in conjunction with a secondary contactor to provide electrical isolation of the elements when the furnace door is opened.

The control panel will accommodate many instrument control or recording options, often required to perform, or monitor, special tasks, either in the laboratory or as a requirement of the production line.

The electronic temperature controller offers high accuracy, stability and proven reliability.

The dual digital displays indicate actual temperature plus set point.

All units are C.E. marked and manufactured to high standards of design and quality.

## FACTORY FITTED OPTIONS

- The **'SUPER HEAT'** furnaces can be adapted to meet individual customer requirements.
- There is a wide range of controllers, programmers and timers available which can be fitted to the **'SUPER HEAT'** furnace. Discuss your requirements with our engineers to obtain the ideal solution.
- Stainless steel exhaust chimney with flow control valve for use where fumes generated during the heating process need to be released.
- Furnace stands can be manufactured to customers requirements.

