

Top Hat Furnace

This compact top hat furnace for laboratory applications allows for easy handling of samples, fast heating and cooling cycles and particularly uniform temperature profiles. It reaches 1000°C in under 20 minutes.

The use of double skin construction provides a cool and safe outer case temperature. The outer case is manufactured from zinc coated sheet steel and finished with an attractive stoved epoxy polyester finish.

The heated chamber, which accepts crucibles and work pieces up to 200mm (h) x 140mm (Ø), has an attractive stainless steel retractable element cover which provides total operator safety. The element chamber lifts away from the hearth and is electrically operated by a rocker switch located on the furnace base. When opened, a cool air flow provides rapid cooling and allows unrestricted access to the hearth, permitting easy handling of the furnace load. During loading/unloading, the elements are totally isolated from the working area as they are fully withdrawn into the case, keeping the hot face away from the operator at all times.

Powerful free radiating coiled wire elements are held firmly in the vacuum formed low thermal mass insulation, which forms a cylindrical chamber allowing maximum heat transfer and temperature uniformity. The use of low thermal mass ceramic fibre insulation material provides rapid heating and fast cooling.

A version with a refractory metal bell jar fitted within the furnace chamber is also available, allowing samples to be treated under special sealed atmospheres, using a sand seal.



LTH 12/3

Model	LTH 12/3
Max. Temperature (°C)	1200
Continuous Temperature (°C)	1100
Internal Volume (l)	3.5
Chamber Size (mm)	150 (Ø) x 200 (h)
External Dimensions:	
H (mm)	655
W (mm)	410
D (mm)	540
Max Power (W)	3000
Chamber Raising/Lowering Time	5 seconds
Thermocouple type	R
Weight (kg)	38

- 1) Holding power is measured at 100°C below max. temperature, based on 240V supply, with an empty chamber.
- 2) Uniformity graphs are available on request, for most models.
- 3) All external dimensions are taken with the door closed and include a chimney.
- 4) Heat up time is measured at 100°C below max. temperature with an empty chamber.



Thank you for reading this data sheet.

For pricing or for further information, please contact us at our UK Office, using the details below.



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Please note - Product designs and specifications are subject to change without notice. The user is responsible for determining the suitability of this product.