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# 2000°C BENCHTOP VACUUM FURNACE

### FOR SMALL SAMPLE TESTING AT HIGH TEMPERATURE

Thermic Edge offer a range of semi-automatic laboratory vacuum furnaces including the Benchtop range for smaller sample testing in a clean, dust-free environment allowing testing in either vacuum or inert atmosphere. Our fully interlocked system provides full safety for its users whilst also being simple to operate and maintain.



## **Options**

- 2000°c Graphite Crucible Sample Heating
- 2000°c Graphite Wafer Sample Heating
- 1400°c SiC³ Coated Graphite for use in oxygen.

### **Features**

- Ramp Rate ≈ 100°c/min
- Base Pressure <5x10<sup>-2</sup>mBar
- Crucible & Wafer Sample Heating
- Fully Water Cooled Chamber
- Semi-Automatic PLC Control
- Interactive Touch Screen Display
- Safety Interlocked System
- Temperature Data Logging
- Single Gas Input directly into Hot Zone

#### **Extras**

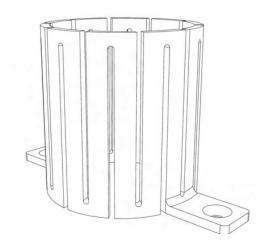
Turbo Pump for Ultimate Vac. 5x10<sup>-5</sup> Additional Process gas control Pyrometer with auto change over Laptop for multi-step programmable thermal process control

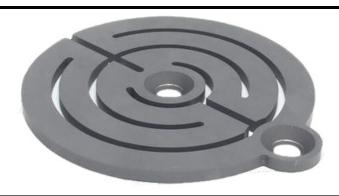
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## **Hot Zone Options**

For sample annealing, we offer a small crucible enclosed in a cylindrical graphite element. This type of element creates high uniformity and excellent performance for fast ramping. Crucible sizes are as follows: Ø20x30mm, Ø30x40mm & Ø40x50mm.

This can be changed to a flat element for wafer heating with graphite or Tungsten hot zones also available for Hydrogen environments with customisable substrate holders. Wafer sizes are as follows: Ø1", Ø2" & Ø3".





Alternatively the chamber can be used for CVD & PECVD with customizable hot zones and gas control options. With the use of our gas select box allowing multiple gas inputs to be permanently set up with one single input into the furnace all controlled via the HMI touch screen display.

## Requirements

Power: 220v, 13A Single

phase

Water Cooling: Constant water supply & return 3/8" ID hose, flow rate 6 l/min @ 4bar Process Gas: 1/4"/6mm flexible

hose

Vent gas: 1/4"/6mm Fleixble

Hose

Pump Exhaust: KF25 Adapter

