# HTF-1100

## Reliable solution for material testing at high temperatures

- Ambient to 1100 °C
- Variable temperature scan rates (0.1to 20 °C/min)
- Simple and complicated temperature profiles
- Manual & remote access and control
- Small footprint and volume
- Intelligent temperature management
- Controlled atmospheres with HTSH-1100
- Setpoint and furnace temperatures on LCD display
- Over temperature alarm

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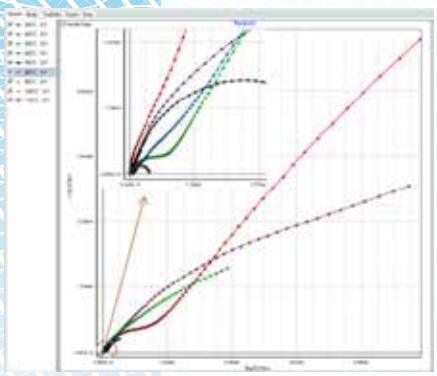
## APPLICATIONS

- Electrochemical characterization of material
- Heat treating (annealing /ageing tests)

**High Temperature Furnace** (HTF-1100) is a horizontal laboratory tube furnace dedicated to characterization of materials properties and to heat treatments in the temperature range between the ambient and 1100 °C.

The HTF-1100 is designed to accommodate Bio-Logic High Temperature Sample Holder HTSH-1100. A k-type thermocouple placed in the bottom of the furnace ensures an accurate control and measurement of the furnace temperature.

The HTSH-1100 is provided with a programmable Watlow controller accessible on the front panel of the furnace. It offers an easy way to set and monitor the furnace temperature during a test. For user safety, an emergency stop button was wired to interrupt power to the heating element of the furnace in the case of an unexpected event. HTF-1100 is provided with a temperature limit alarm (buzzer) to help prevent overheating.



## Software

The HTF-1100 furnace is controllable by MT-Lab® software through MTZ-35 Impedance analyzer.

It can also be controlled manually using the Watlow controller panel. MT-Lab® software offers an intelligent temperature management with various temperature control modes (fixed temperature, sweep, cyclic, Advanced mode) and various temperature rate (from 0.1 to 20 °C/min) and dwell times.

## SPECIFICATIONS

| | |
|---|---|
| Temperature range | ambient to 1100 °C |
| Temperature scan | adjustable from 0.1 °C/min to 20 °C/min |
| Temperature accuracy | better than ±1 °C |
| Computer Interface | RS-232 through MTZ-35 |
| Mains voltage | 220-240 V 50/60 Hz |
| Power consumption | 1200 W |
| Heating chamber dimension | 50 x 200 mm (W x D) |
| Heating system | super kanthal 1350 °C wire built in a cement cylinder |
| Temperature controller | PM6 Watlow controller |
| Insulation material | fiber alumina |
| Safety features | emergy stop button, buzzer sound alarm & temperature safety limit |
| Dimension | 545 x 331 x 266 mm (L x W x H) with slide |
| Weight | 13 kg |

Compatible with

- HTSH-1100
- MTZ-35

Brochure released on December 2016 - Pictures and specifications subject to change

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