

# HTF-1100

## Reliable solution for material testing at high temperatures

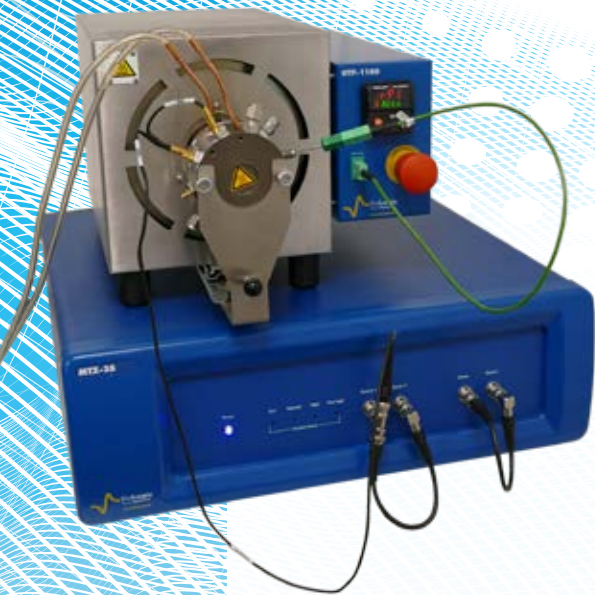


- Ambient to 1100 °C
- Variable temperature scan rates (0.1 to 20 °C/min)
- Simple and complicated temperature profiles
- Manual & remote access and control
- Small footprint and volume
- Intelligent temperature management
- Controlled atmospheres with HTSH-1100
- Setpoint and furnace temperatures on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



### APPLICATIONS

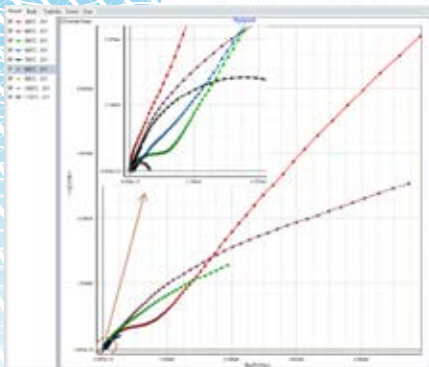
- Electrical characterization of materials
- Heat treating (annealing /ageing tests)



**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<sup>®</sup> software through MTZ-35 Impedance analyzer. It can also be controlled manually using the Watlow controller panel. MT-Lab<sup>®</sup> software offers an intelligent temperature management with various temperature control modes (fixed temperature, sweep, cyclic, Advanced mode) and various temperature rates (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	emergency 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



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