

**CALSYS  
1200L-S**



**300 to 1200°C**

## HIGH STABILITY BLOCK FURNACE

CALsys 1200L-S calibration source is a highly stable standard furnace for calibrating thermocouples in the laboratory. The temperature of the furnace is set and controlled by a self tuned PID controller with automatic super fine adjustment. The standard insert is a metallic block of special material, which is 37mm in diameter with 380 mm long and can hold up to four thermocouples.

It has been designed for high temperature range calibration and find application in the glass, electrical power, automotive, material processing industries & laboratories. Special Version with 3 zone furnaces are available.

## KEY FEATURES

- ✓ Large Immersion Depths
- ✓ Wide Operating Range (300 to 1200°C)
- ✓ High Stability
- ✓ PC interfacing
- ✓ Simple to Use and Cost Effective

## STANDARD ACCESSORIES

- Reference Standard Thermocouple ('S' Type T/C).....Part No. TTCN-300
- NABL accredited calibration certificate - 3 point
- Software - Cal Soft including for setting bath temperature and monitoring the PV. Graphical representations of PV/TIME with 2 hours data logging.
- Operational Manual

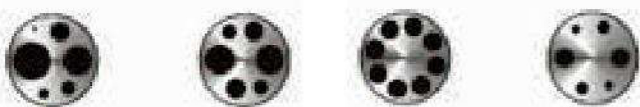
## OPTIONAL ACCESSORIES

- Customized Equalizing Block.....Part No. EQ1



## SPECIFICATIONS

<b>Temperature Range</b>	: 300 to 1200°C
<b>Accuracy</b>	: 0.2°C
<b>Temperature Resolution</b>	: 0.1°C or 0.1°F
<b>Stability</b>	: ±0.1°C
<b>Uniformity</b>	: ±0.1°C at 300°C ±0.2°C at 700°C ±0.25°C at 1200°C
<b>Axial Uniformity</b>	: ±0.2°C
<b>Skin Temperature</b>	: 30°C + 10°C
<b>Controlling Sensor</b>	: Precision S Type
<b>Method of Control</b>	: Digital self tuned PID Controller
<b>Isolation Block</b>	: ceramic alumina insert to avoid thermocouple contamination
<b>Construction</b>	: with wells size of 6.35 x 2.8mm x 1 and 12mm x 1
<b>Dry Block Construction</b>	: horizontal Insertion to avoid sensor tip Sagging
<b>Well Diameter</b>	: (for well total) 6.7mm
<b>Well Depth</b>	: 365mm
<b>Insulation Material</b>	: Ultra high low thermal mass ceramic fiber
<b>Time to Reach Max Temp</b>	: 45 Min. (from 300 to 1200°C)
<b>Stabilization Time</b>	: 3 Hours for 700°C 2 Hours for above 700°C
<b>Cooling Time</b>	: 200 Min. (1200°C to 300°C)
<b>Computer Interface</b>	: RS-232 & USB
<b>Operating Temperature</b>	: 5°C to 40°C
<b>Furnace Type</b>	: Horizontal
<b>Power Requirement</b>	: 230V AC, 50/60 Hz, 20A
<b>Weight</b>	: 50 Kg (without packing)
<b>Calibration Certificate</b>	: NABL Certification
<b>Software</b>	: Furnace operation and data logging of temperature reading
<b>Automation</b>	: programmable controller, which enables to automate set point temp. control for upto 8 set point temperatures, the temp, range rate and furnace controls at each set points



Optional Black