

## High Temperature Pyrometer Calibration Machine - FASTCAL 2700°C (700°C - 2700°C)

FASTCAL is a high temperature blackbody calibrator, which can produce high temperature and high emissivity targets. The cavity used can be a graphite strip or graphite tube of emissivity >0.99.

Temperature is sensed by a fast and accurate Pyrometer, which drives the PID Controller to regulate the target temperature precisely to the desired value.

The Supply System (Bus Bars) is water cooled and the water in bus bar flows through a water circular system. Safety controllers are used to avoid any overheating of the system.

The graphite strip/ graphite tube needs to be under inert atmosphere (High purity argon gas) and the flow of the gas can be controlled by the gas flow Rota meter.



### Features of FASTCAL

- Maximum operating range up to 2700°C for pyrometer calibration.
- Rapid heating of furnace for fast calibration.
- Fast Response

### Technical Specification

Voltage	440V AC
Power	20.0 KW
Supply Frequency	50/60 Hz
Temperature range	700 to 2700°C
Resolution	0.1 °C
Stability	± 3.0 °C
Controlling sensor	Pyrometer
Method of Control	Digital PID Controller
Time to reach max. Temperature	5 Minutes
Operating Temperature	20 to 45 °C
Cavity size/Graphite Strip Size	20mm(W) X 90mm(L)
Emissivity	0.99±0.01
Aperture	15mm
Cooling	Water Cooled
Purge gas	High Purity Argon Gas
Dimensions	900(H) x 600(W) x 440(D) mm (Approx.)
Weight	Approx 285 Kg. with all accessories