

THERMOCOUPLE CALIBRATION FURNACE FUR - 1500

Three Zone Construction



Standard Features

- Perfect for Calibration of Refractory & Noble Metals TCS
- Temperature Range 600 °C to 1500 °C
- Silicon Carbide Elements Provide Long Service Life
- Suitable for Hysteresis Testing
- Multi-zone Control
- Large Uniformity Zone



THERMOCOUPLE CALIBRATION FURNACE

THREE ZONE CONSTRUCTION



FUR-1500

EDL's FUR-1500 Ultra High Temperature Calibration Furnace was designed for accurate testing of both thermocouples and RTDs. Calibrations between 600 °C and 1500 °C are easily, quickly, and accurately achieved with this innovative split-tube, 3-zone furnace with silicon carbide elements.

Engineered with unique features that make thermocouple calibrations both more efficient and more accurate, the FUR-1500 is specially designed to perform high accuracy calibrations as well as long term drift and temperature cycle tests. Highly stable and uniform temperature fields are accomplished with the use of an internal equalization block and a high purity ceramic liner over 5 mm thick. This protective tube diffuses the element's energy helping to create a more uniform and stable temperature field for the most accurate measurements.

Test Cycle Option

The FUR-1500 is available with a test cycling option that allows the user to cycle their sensors through a temperature, time, and dwell cycle. The cycle is accomplished by moving the sensors in and out of the hot zone using a front mounted air cylinder. The process is controlled by an imbedded micro-controller that can be interfaced to the users computer for profile programming. This type of testing allows the user to see initial shifts that may occur due to thermal cycling. Sensors are subject to extreme temperature shifts during use, even when used in a non-static environment. Industrial laboratories have begun assessing the effects of cycling on their temperature sensors. The cycle test option on the FUR-1500 allows the user to test for and identify hysteresis.

Options

- Gaseous Environment, Supplied As An Option
- Cycling Test Option
- Water Cooled External Housing

Your Electronic Development Labs. Inc, Distributor is:

Standard Features

- Perfect For Calibration Of Refractory & Noble Metals TCS
- Suitable For Hysteresis Testing
- Silicon Carbide Elements Provide Long Service Life
- Large Uniformity Zone
- Multi-zone Control
- 12-Month Warranty

Specifications

Part #	FUR-1500
Length	102 cm (40")
Width	46 cm (18")
Height	43 cm (17")
Weight	113.4 kg (250 lbs)
Heating Element	Silicon Carbide
Cylinder Length	53 cm (21")
Cylinder Travel Range	53 cm (21")
Measuring Controlled Zone	600-700 mm
Bore/Tube Inside Diameter	90-100 mm
Temperature Cycle Test Cylinder	Option
Minimum Use Temperature	600 °C
Maximum Use Temperature	1500 °C
Stability	Better Than 1 °C Over 30 Minutes
Uniformity	2 °C Or Better
Power Requirement	220 VAC
Current Rating	50 A
Controller Power	220 VAC
Control Thermocouple	Type B
Controller Fuse	2 A



The Temperature People® Since 1943

Electronic Development Labs, Inc.
 244 Oakland Drive • Danville, VA 24540 • USA
 P: 434.799.0807 • F: 434.799.0847 • 1.800.342.5335
 www.edl-inc.com • email: sales@edl-inc.com