

## ATCAL - 2001-B

When Air or Nitrogen is made to flow through a chamber containing Aluminum Oxide Powder, it sets the particles of Aluminum Oxide in motion. It also separates them and suspends them to a stable level to give the particles the appearance of turbulence quite similar to the state of boiling liquid. This is called fluidization and the medium is called the fluidized bed. This fluidized bed when heated, the heat is distributed very quickly and evenly throughout the chamber and is rapidly transferred to the objects immersed in to it. The temperature of the fluidized bed is precisely controlled to make it a stable, non toxic, uniform heat source used for calibration. This is what is "FLUIDCAL" Fluidized Bath.

### FLUIDISED BED TEMPERATURE CALIBRATOR, SERIES ATCAL-2000, SUITABLE FOR LABORATORY / ON SITE CALIBRATION

|  |   |
|--|---|
| <b>Model</b>                                   | : <b>FLUIDCAL 1100</b>  |
| <b>Temp. Range</b>                             | : Ambient to 1100°C   |
| <b>Stability</b>                               | : $\pm 1^{\circ}\text{C}$   |
| <b>Uniformity</b>                              | : $\pm 2^{\circ}\text{C}$   |
| <b>Temperature Control</b>                     | : Precision Auto Tune PID Controller  |
| <b>Resolution</b>                              | : 1°C   |
| <b>Heating time to maximum</b>                 | : 90 Minutes.   |
| <b>Cooling time from Max. to Ambient Temp.</b> | : 150 Minutes   |
| <b>Immersion Length</b>                        | : 140 mm  |
| <b>Power Supply</b>                            | : 230 V AC $\pm 1\%$ 50 Hz  |
| <b>Power Consumption</b>                       | : 5 KW  |
| <b>Volume of Media</b>                         | : 3.5 Ltrs.   |
| <b>Air Supply Requirement</b>                  | : 5 - 50 LPM @ 2 - 7 Kg/Cm <sup>2</sup>   |
| <b>Dimensions</b>                              | : 580 mm (L) x 300 mm (W) x 540 mm (H)  |
| <b>Weight in Kgs.</b>                          | : 43 Kg.  |
| <b>Standard Accessories</b>                    | : 8 Kgs. Fluidized Bed Medium   |
| <b>Standard calibration certificate</b>        | : ALTOP Certificate with Trace ability Certificate  |
| <b>Optional accessories (with extra price)</b> | : 1) Spare Heaters and Master Sensors<br>2) Trolley<br>3) Third Party Lab Calibration Certificate |

