

## ATCAL - 2001

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 fluidisation and the medium is called the fluidised bed. This fluidised 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 fluidised bed is precisely controlled to make it a stable, non toxic, uniform heat source used for calibration. This is what is "FLUIDCAL" Fluidised Bath.

### SUITABLE FOR LABORATORY / ON SITE CALIBRATION

<b>Model</b>	: <b>FLUIDCAL 600</b>
<b>Temp. Range</b>	: Ambient to 600°C
<b>Stability</b>	: $\pm 1^\circ\text{C}$
<b>Uniformity</b>	: $\pm 1^\circ\text{C}$
<b>Accuracy</b>	: $\pm [0.1\% \text{ FSD} + 1^\circ\text{C}]$ = $\pm 1.40^\circ\text{C}$
<b>Temperature Control</b>	: Precision Auto tune PID Controller
<b>Resolution</b>	: $1^\circ\text{C}$
<b>Heating time to maximum</b>	: 60 Minutes.
<b>Cooling time from Max. to Ambient Temp.</b>	: 90 Minutes
<b>Immersion Length</b>	: 140 mm
<b>Power Supply</b>	: 230 V AC $\pm 10\%$ 50 Hz
<b>Power Consumption</b>	: 4.5 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>	: Instruction Manual / Leather Case / well Inserts of 7, 13, 19 mm Diameter / Tong to remove insert wells. ALTOP Calibration Certificate.
<b>Optional</b>	: 0.1°C Resolution. / Hole dia other than standard offered against specification. / Any other supply voltage offered. / Master Sensors.



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PROCESS CONTROL INSTRUMENTATION

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