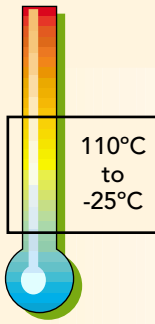


# 580 Oceanus-6

P.O.T.T.S.



The multi-functions of the OCEANUS-6 is a unique concept from Isotech, so unique that it is currently the subject of a patent application.

The OCEANUS-6 is a complete calibration laboratory working over the temperature range 45°C below ambient temperature to +110°C. It permits the calibration of temperature sensors absolutely (at fixed points of the ITS-90 scale) or by comparison to a reference standard.

It will calibrate both contact and non-contact thermometers such as optical pyrometers, surface sensors, liquid in glass thermometers as well as thermistors, thermocouples and resistance thermometers, whether they are short, long or odd shaped. Further it permits maintenance of reference standards by confirming the Ice or Water triple point at regular intervals.

The OCEANUS-6 has a calibration volume of 52mm diameter and 300mm deep and is supplied with the very latest technology digital indicator, timer and controller making the OCEANUS-6 a complete self-contained calibration laboratory.

The OCEANUS-6 offers unprecedented accuracies of  $\pm 0.0002^{\circ}\text{C}$  (2 Sigma) at the Water triple point and the Gallium melt temperature of  $29.7646^{\circ}\text{C}$  and up to  $\pm 0.005^{\circ}\text{C}$  in the stirred liquid bath option (by comparison).

|                              |  |
|------------------------------|--|
| Model No.                    | 580  |
| Temperature Range            | 45°C below ambient to +110°C   |
| Absolute minimum temperature | -45°C  |
| Absolute stabilities over    | 30 minutes:  |
| Metal Block Bath             | $\pm 0.03^{\circ}\text{C}$   |
| Stirred Liquid Bath          | $\pm 0.025^{\circ}\text{C}$  |
| Ice/Water Bath               | $\pm 0.001^{\circ}\text{C}$  |
| Black Body Source            | $\pm 0.3^{\circ}\text{C}$  |
| Surface Sensor Calibrator    | $\pm 0.5^{\circ}\text{C}$  |
| ITS-90 Fixed Point Apparatus | $\pm 0.0002^{\circ}\text{C}$   |
| Heating / Cooling            | See Graph  |
| Stabilisation Times          | 10 minutes   |
| Calibration Volume           | 52 dia x 300mm deep  |
| Uniformity                   | $\pm 0.018^{\circ}\text{C}$  |
| Controller Resolution        | 0.1 to 0.01 (4 digit display)  |
| Indicator Resolution         | 0.1 to 0.01 (4 digit display)  |
| Indicator Units              | $^{\circ}\text{C}$ , $^{\circ}\text{F}$ , K  |
| Communications               | Supplied as standard with serial interface, PC adaptor cable and Cal Notepad. Refer to page 46 |
| Power                        | 300W, 108-130 or 208-240 VAC, 50/60Hz  |
| Overall dimensions           | Height 430mm<br>Width 310mm<br>Depth 300mm   |
| Weight                       | 17kg   |
| <b>How to order</b>          |  |
|                              | 580 Oceanus-6 P.O.T.T.S.   |
|                              | Please specify voltage required  |

*Automated Calibration using Fixed Point Cells. Temperature range 45°C below ambient to +110°C. Calibrate absolutely at the fixed points of ITS-90 or by comparison*

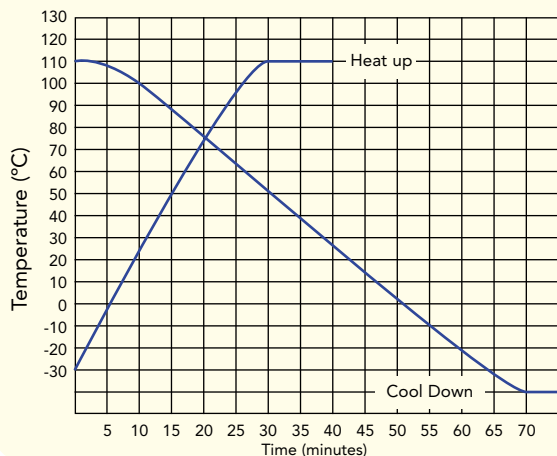
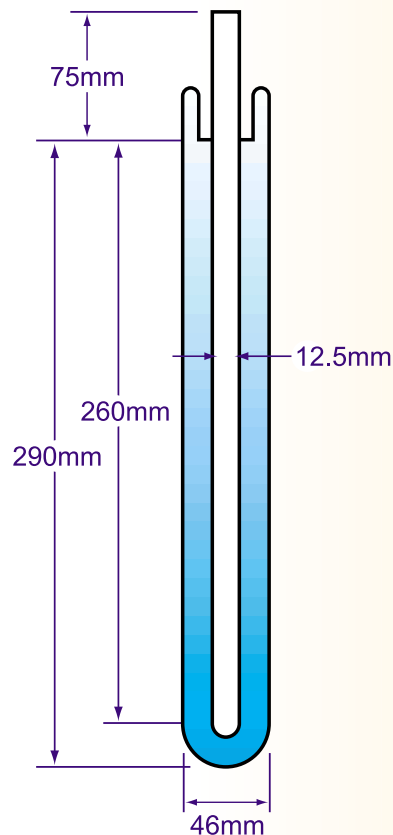


## 580 Oceanus-6

P.O.T.T.S.

P POINTS  
O ON  
T THE  
T TEMPERATURE  
S SCALE

Oceanus-6 Heat Up / Cool Down Graph

Type C-12  
Water Triple Point Cell

## Options

|                           |   |
|---------------------------|---|
| Metal Block Bath          | Standard Insert 6 x 8mm holes x 250mm deep.<br>Adjustable Equalising Block<br>Non-standard Insert - please consult Isotech                  |
| Stirred Liquid Bath       | Stirred Liquid Container (For alcohols, water & oils)<br>C20 Oil (ambient to +150°C) 1L required<br>Liquid in Glass Thermometer Support kit |
| Stirred Ice/Water Bath    | Stirred Liquid Container (For alcohols, water & oils)<br>Liquid in Glass Thermometer Support kit  |
| Blackbody Source          | Blackbody Target  |
| Surface Sensor Calibrator | Surface Sensor Calibrator Kit   |
| ITS-90 Fixed Point        | Large C12 Water Triple Point Cell   |
| Apparatus                 | Large ITL M 17401 Gallium Melting Point Cell  |

## Additional accessories

|                                     |
|-------------------------------------|
| 935-14-85 Semi-Standard Probe       |
| 931-22-58 Carrying Case             |
| UKAS 5 Point Comparison Calibration |

Metal Clad Cell

