The most used temperature for calibration is 0°C.

The normal way of creating 0°C is via a mixture of ice and water in a Dewar Flask.

However, this can give errors of up to 4°C because water is densest at 4°C and so as the ice melts the temperatures at the bottom of the flask can rise to 4°C.

In the design of the ice flask offered by Isothermal Technology Ltd., these problems have been eliminated by stirring the water/ice mixture and segregating the ice from the water in the measuring zone.

This stirred ice/water bath is designed and built according to National Laboratory recommendations.

Using demineralised water, accuracies of ±0.005K are obtainable. Typically the bath will last for 4 hours before recharging with ice.

The ice is contained around and below the compartment where up to 4 probes can be placed for calibration or referencing purposes.

An option permits a water triple point cell to be maintained within the stirred ice bath. See pages 30 - 31 for more details.

<table>
<thead>
<tr>
<th>Model No.</th>
<th>813</th>
</tr>
</thead>
<tbody>
<tr>
<td>Accuracy using Demineralised water</td>
<td>0°C ±0.005K</td>
</tr>
<tr>
<td>Capacity</td>
<td>8 litres (approx.)</td>
</tr>
<tr>
<td>Depth of immersion</td>
<td>350 mm</td>
</tr>
<tr>
<td>Accuracy using comparison techniques</td>
<td>±0.001°C</td>
</tr>
<tr>
<td>Power</td>
<td>50W, 108-130 or 208-240VAC, 50/60Hz</td>
</tr>
</tbody>
</table>
| Dimensions | Height 580 mm  
Width 420 mm (including handle)  
Depth 250 mm |
| Weight | 15 kgs |
| Options | 814/01b Copper Equalising Block  
814/02 Mercury Thermometer Support Kit  
814-06-02 Small Water Triple Point Cell Kit |
| How to Order | 813 Stirred Ice Bath  
Please specify voltage required |

350 mm depth of immersion  
0°C created by stirred ice/water mixture  
Accuracy ±0.005°C absolute, ±0.001°C comparison