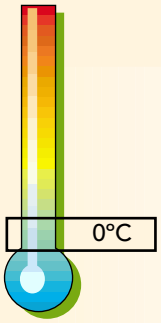
813 Stirred Ice Bath



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.

Model No.	813
Accuracy using Demineralised water	0°C ±0.005K
Capacity	8 litres (approx.)
Depth of immersion	350 mm
Accuracy using comparison techniques	±0.001°C
Power	50W, 108-130 or 208-240VAC, 50/60Hz
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