

Introduction to the Isocal-6 Calibration System

What is Isocal-6?

Isocal-6 is a range of calibration systems that can calibrate all types of thermometer and share common features.

What is special about the Isocal-6 range?

Previously temperature calibration baths were specified by type, e.g. A Dry Block Bath, A Liquid Bath etc.

With the Isocal-6 different accessories are added to the Isocal-6 to allow it to be used in many different modes providing a solution for all temperature sensor calibration requirements.

What are these different modes?

The Isocal-6 includes a removable insert as standard for use as a Dry Block Calibrator, with optional accessories the Isocal-6 can perform as:

A Stirred Liquid Bath

A Stirred Ice Bath 0°C Reference (*Cooling models only*)

A Blackbody Source for IR thermometers

A Calibrator for Surface Sensors

An ITS-90 Fixed Point Apparatus

What if only one option is required?

One of the advantages is that you need only purchase the desired option but other accessories can be added at any time.

What temperature range is covered?

Different models cover the temperature range from below -40°C to 250°C, above this maximum temperature it is not practical to use a stirred liquid bath. For higher temperatures see the other Dry Block Calibrators that go to 1200°C, many with accessories for Surface Sensor and Blackbody use.

What Performance can be achieved?

This varies on the way it is used, for an ITS-90 fixed point apparatus uncertainties of better than 0.001°C can be achieved - see the uncertainty graphs for other modes of operation.

International Support?

Isotech have a global network of authorised agents and distributors providing both before and after sales support.

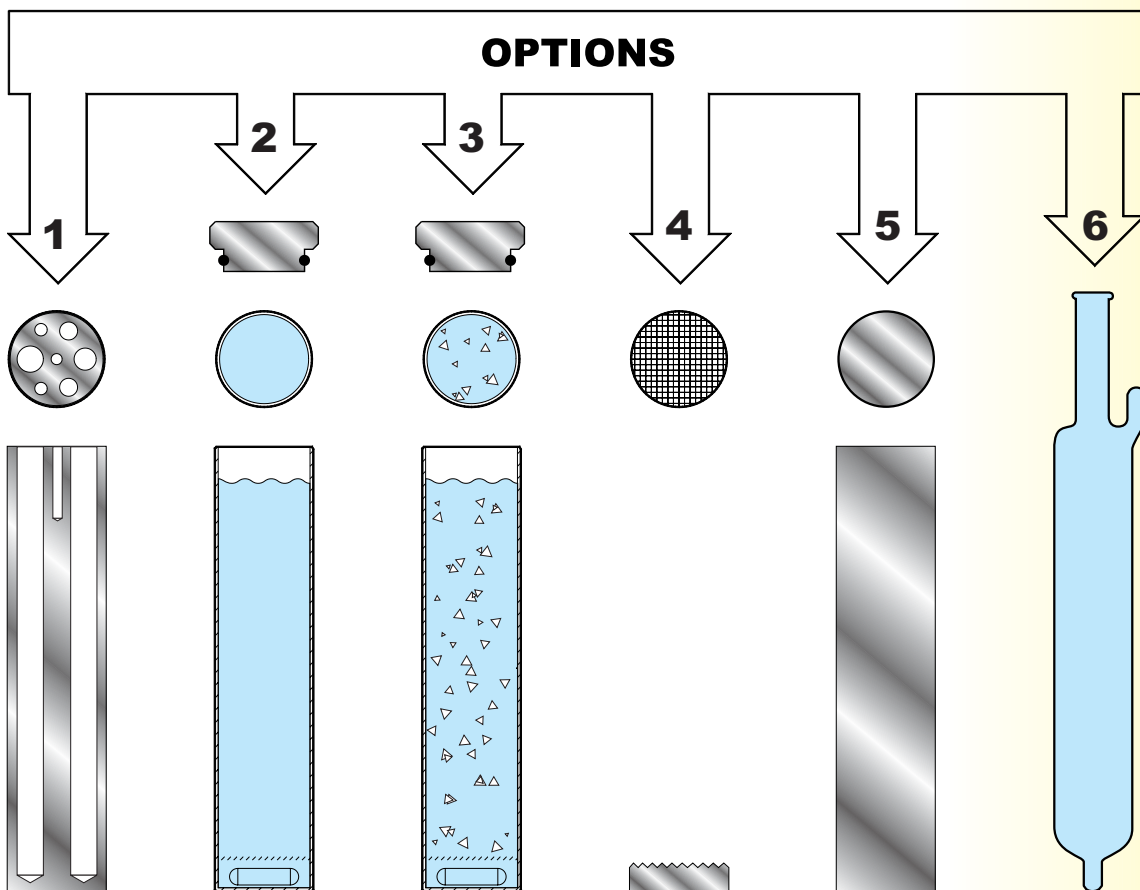
Made to last?

All Isotech products are engineered for long life. If you have ever tried to get inside the dashboard of a motor car you will appreciate that cheapness goes with inaccessibility for repair and maintenance. Isotech's products are designed for long life, easy repair, accessibility and maintenance.

The ISOCAL-6 is currently subject to a patent application (reference 9900158.8).

The ISOCAL-6® is the only calibration system in the World (patent application 9900158.8) to offer you six calibration baths in a single simple product.

- 1 Metal Block Bath
- 2 Stirred Liquid Bath
- 3 Stirred Ice/Water Bath
- 4 Black Body Source
- 5 Surface Sensor Calibrator
- 6 ITS-90 Fixed Point Apparatus



This schematic shows the six options available for the ISOCAL-6® range of calibration baths.