



## Stirred Liquid Baths Orion 796

- Can accept large Water Triple Point Cells
- Variable Cooling Power
- Low Filling Cost

The Isotech Hydra range of calibration baths have proved very successful since their introduction in 2003. The Orion range has been introduced to fit alongside the Hydra models.

The Orion calibration baths offer deeper calibration volumes than the Isotech Hydra series with world class temperature stability. There is a high temperature model (30°C to 300°C) and a model with built in refrigeration (-40°C to 125°C).

These deep stirred liquid baths are suitable for the low uncertainty calibration of long thermometers including liquid in glass and extended length SPRTS.

The Orion unit has sufficient depth, 470mm (18.5"), to accommodate Isotech's largest Water Triple Point Cells providing a cost effective sub mK calibration system. There are accessories to hold Mercury, Water, Gallium and Indium ITS-90 Fixed Point Cells.

Isotech baths have always been designed for thermometer calibration, setting the standard for immersion depth versus filling costs. As the Orion requires just 8.5L of fluid it offers significant cost savings, both initial and the on going running costs, when compared to other larger volume baths.

In operation the liquid level is within 10mm of the top lid allowing calibration of liquid in glass thermometers without the need for complicated accessories.

In addition to using a monocular to aid reading the scale I-Cal Easy automatic calibration software can capture images with low cost digital webcams.

The Isotech Orion range provides many features that laboratories need but which other manufacturers often cannot supply.



- Deep immersion depth (470mm / 18.5") with low filling costs
- Variable Speed Stirring allowing optimum performance for a wide range of liquid viscosities
- Modular design for easier maintenance
- Over and Under Temperature Protection - protect expensive Water Triple Point Cells as well as over temperature conditions
- Connections for easy drain and overflow
- Automatic Power Up no manual intervention needed - easier automation - energy saving
- Liquid Level to suit Liquid in Glass
  Thermometers
  no level adaptors required





Refer to Evaluation Report for Full Details

## Accessories:

The Orion can be supplied with both copper and aluminium equalising blocks. Aluminium is recommended for use only with oils. Copper, with it's better corrosion resistance, is recommended for oils, alcohol and water.

Refer to 'Liquid Selection Guide' on page 73 for information on liquids and important Health and Safety Information. The standard probe holder can support RTD's, Thermocouples and Liquid in Glass Thermometers. A monocular is available to aid reading the scale of a L.I.G. Thermometer.

The liquid level is typically within only 10mm of the lid, so complicated fluid level adaptors are not essential.

There are a range of supports to hold various fixed point cells, Slim and Optimal, allowing the bath to realise ITS-90 fixed point cells to sub mK uncertainties.

Isotech has a full range of fixed point cells, for more details visit our web-site: www.isotech.co.uk