

Secondary Laboratory Equipment

<http://www.isotech.co.uk/secondary>



Many accredited laboratories rely on Isotech for comparison baths, standards and instruments. We offer comparison equipment from -200°C to 1300°C as well as cryostats and liquid nitrogen apparatus. Isotech stirred liquid baths use concentric and parallel tube designs for outstanding performance. The concentric design of the Spherical Furnace provides a solution for small uncertainty calibration of thermocouples to 1300°C.

Liquid Baths

- Temperature ranges covering -80 to 300°C
- Parallel Tube action
- Commercial grade chiller
- Stability from $\pm 0.0006^\circ\text{C}$
- Up to 530mm calibration depth
- Fast cool-down
- Circular design eliminates cold corners
- Exceptionally small gradients



Fluidised Calibration Bath

- Temperature range of 50°C to 700°C
- High Accuracy
- Large working volume
- No powder loss into the Laboratory



Blackbody Calibration Sources

<http://www.isotech.co.uk/bbody>



When leading manufacturers of infrared thermometers choose your product as the basis by which their product passes or fails, you know you have something good. Isotech is the only manufacturer of blackbody calibration sources to have developed a complete line from hand held field testers to black body fixed point cells for primary labs. Our more popular models include the Gemini R and Pegasus R.

Gemini R

- Temperature range of 50°C to 550°C
- 65mm cavity size
- Emissivity of 0.995
- Portable, yet can accept fixed points for primary reference



Pegasus R

- Temperature range of 150 to 1200°C
- 20mm cavity size
- Emissivity of 0.995
- Portable, yet can accept fixed points for primary reference



Thermocouple Referencing Systems

<http://www.isotech.co.uk/tceref>



Isotech's first thermocouple referencing systems were developed for our own lab use to provide a single point ice reference for our cold junctions. We then developed multi-input systems for use in power plants and aviation test stands. In addition to ice point references, Isotech manufactures a variety of elevated and ambient temperature referencing systems. Most units are custom built for the application. If you have special thermocouple referencing needs, call us and see how we can help.

TRU 937

- Reference up to 100 thermocouples in one system
- 19" rack mount options
- Pre-wired thermocouples or do-it-yourself systems



TRU 938

- 0°C or elevated reference temperatures
- Stability better than 0.05°C
- Multi-junction probes and various terminations available



Reference Thermometers

<http://www.isotech.co.uk>



We manufacture a range of standard thermometers from Standard Platinum Resistance Thermometers (SPRTs) through to industrial standards. Our Standard Thermocouples can be supplied calibrated for use up to 1600°C. Resistance thermometers are available covering the range from -200°C to 1000°C. Isotech manufactures primary standards with uncertainties better than 1mK (0.001°C) to affordable rugged standards for industry and can provide UKAS calibration from our leading laboratory.

