

-45 to 140°C

- Use with Mercury, Water or Gallium Cells
- Multi-Function Calibration Device
- Portable

The Isotech Europa covers the temperature range from -45°C to 140°C (at an ambient of 20°C) and can be used to realise the Slim Mercury (-38.8344°C), Water (0.01°C) and Gallium Cells (29.7646°C). The cells can be realised to an accuracy of 0.001°C (2 Sigma). For a small portable device this is unprecedented. The Europa can also be used without cells as a portable calibrator. With a metal insert it can be used to calibrate several sensors at once by comparison.

Other accessories are available to convert to a stirred liquid bath, for surface sensor calibration, to calibrate infrared thermometers and even to use as an ITS-90 Fixed Point System with calibration uncertainties as small as 0.0005°C. The Europa has excellent stability and distributed heating / cooling zones for good uniformity. These calibrators offer proven thermal performance.

The SITE model is a good choice for use with cells; as well as the temperature controller it has a separate indicator and with the 935-14-82DB probe can be used to monitor the cells as they come onto the plateau.

As well as the SITE model there is a Basic version, and an ADVANCED model which has inputs for reference and test thermometers with a further range of sophisticated features including automatic temperature cycling, secure data logging and full colour high resolution display. For more details see catalogue volume 2, Calibration Solutions for Temperature - Sensors - Infrared Thermometers and Thermocouple Referencing Systems.

POTTS Europa-6



Model	4520 Site POTTs
Temperature Range	65°C below ambient to +140°C
Absolute minimum temperature	-45°C
Absolute stabilities over 30 minutes:	
Metal Block Bath	±0.03°C
Stirred Liquid Bath	±0.025°C
Ice/Water Bath	±0.001°C
Black Body Source	±0.3°C
Surface Sensor Calibrator	±0.5°C
ITS-90 Fixed Point	±0.001°C
Heating / Cooling	See Graph (opposite)
Stabilisation Times	10 minutes
Calibration volume	35mm diameter x 160mm deep
Uniformity	±0.018°C
Controller Resolution	0.1 to 0.01 (4 digit display)
Indicator Resolution	0.1 to 0.01 (4 digit display)
Indicator Units	°C, °F, K
Communications	Supplied as standard with serial interface, PC adaptor cable and Cal Notepad.
Power	300W, 108-130 or 208-240VAC, 50/60Hz
Dimensions	Height - 384mm Width - 212mm Depth - 312mm Weight - 14kg

How to order
 Europa 4520 Site POTTs
 Please specify voltage required

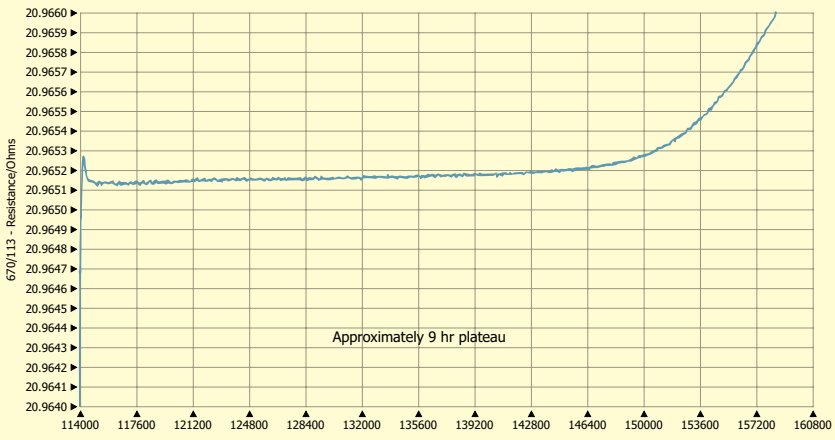


P POINT **O** ON **T** THE **T** TEMPERATURE **S** SCALE

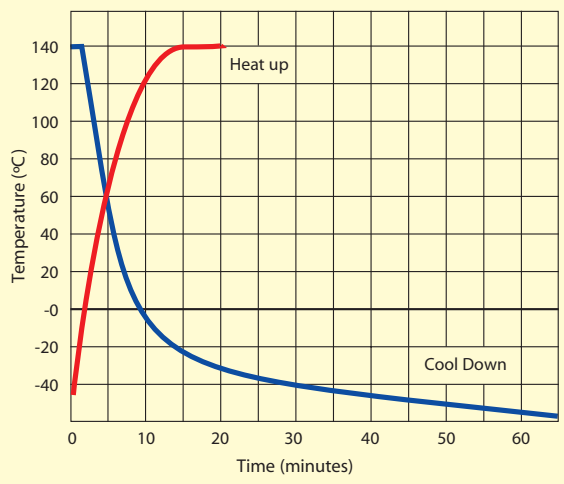
Slim Gallium Cell



Hg 275 Slim Mercury Triple Point Cell Melt Plateau
Europa Advanced SP = 38.000°C (+0.4°C above nominal, no cold rod)
2nd December 2014



EUROPA-6 Heat Up / Cool Down
GRAPH with insert fitted



Accessories

- Metal Block Bath Standard Insert 2 x 4.5 mm, 2 x 6.4 mm, 1 x 8 mm and 1 x 9.5 mm holes x 155 mm deep.
Non-standard Insert - please consult Isotech
- Stirred Liquid Bath Stirred Liquid Container (For alcohols, water & oil)
C10 Oil (-35°C +140°C) 0.1 litre required
Liquid in Glass Thermometer Support kit
- Stirred Ice/Water Bath Stirred Liquid Container (For alcohols, water & oil)
Liquid in Glass Thermometer Support kit
- Blackbody Source Blackbody Target
- Surface Sensor Calibrator Surface Sensor Calibrator Kit
- ITS-90 Fixed Point ITL M 17724M Slim Triple Point of Mercury Cell
ITL M 17401M Slim Gallium Melting Point Cell
B8 Slim Triple Point of Water Cell
- Semi-Standard Probe 935-14-82 / DB
- Carrying Case 931-22-111
- UKAS 5 Point Comparison Calibration