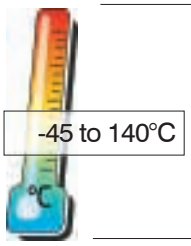
DATASHEET

POTTS-Europa-6-520

Isotech

Distributed by AKRIBIS



POTTS
Europa-6

- 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.

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

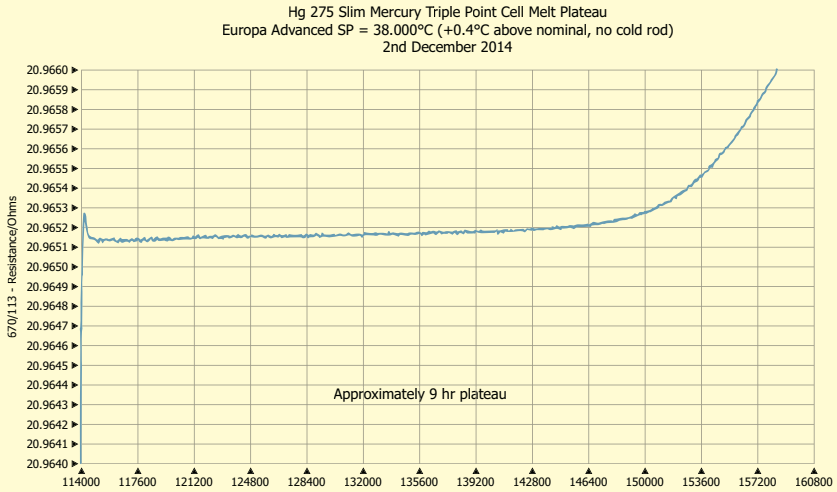
How to order
Europa 4520 Site POTTS
Please specify voltage required

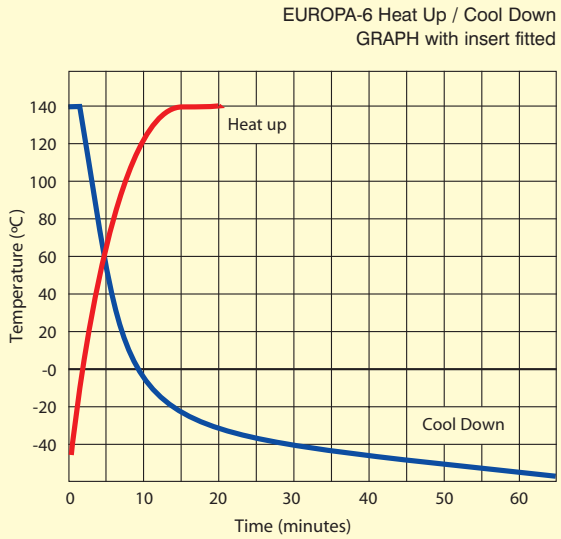
POINTS ON THE TEMPERATURE SCALE

POTTS

POINTS ON THE TEMPERATURE SCALE

Slim Gallium Cell





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

AKRIBIS www.akribis.info contacto@akribis.info