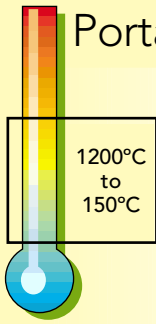


# Pegasus<sup>PLUS</sup> 1200

## Portable Calibration Furnace



The Pegasus<sup>PLUS</sup> range offers extreme high temperature calibration in an easy to use portable package - ideal for the calibration of high temperature thermocouples. It has been designed for fast heating and finds applications in the glass, electrical power, automotive and material processing industries. A Blackbody target can be added for the calibration of infrared thermometers.

The standard insert has four 8mm pockets 80mm deep. The metal insert is strategically placed beneath 50mm of insulation to provide optimal performance over the radiant temperature range. For larger blocks see the Oberon model. The Pegasus is available in two models, the BASIC (B) and the SITE (S). The B model should be used with an external reference probe and indicator, such as the TTI 5. The thermocouples under test should be calibrated by *comparison* to the external probe.

The S model includes a built in digital indicator to which an external standard thermometer should be connected, giving greater accuracy eliminating temperature gradient and loading errors. The recommended probe is a platinum Type R thermocouple. The optional Blackbody target is used with a specially angled Type R thermocouple that sits immediately behind the target area.

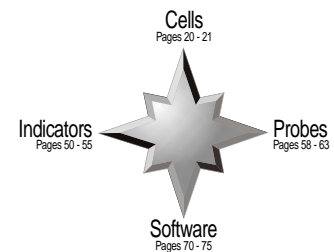
Includes as standard: Windows software, computer interface. Increased resolution of  $\pm 0.1$  available throughout the range via the PC interface and from 150.0 to 999.9 locally on the auto-ranging front display. The controller features multi-point block to display correction giving good absolute accuracy.



New in the S model is universal sensor input allowing Platinum Resistance Thermometers, Thermocouples (Types K, N, R, S, L, B, PL2, T, J and E) along with Linear Process Inputs including 4-20mA current transmitters to be displayed on the inbuilt indicator. The indicator can be programmed with up to five calibration points to provide high accuracy digital probe matching. The indicator and controller are both addressable over the communications link.

### Key Features


- **Calibrate Whole Calibration Loop** - using a heat source rather than an electrical simulator a test instrument and probe can be calibrated as a system.
- **Custom furnace design** - provides fast heating with optimised thermal profile
- **High Operating Range**  
Portable field use up to 1200°C
- **Simple To Use** - Outstanding Value for Money!
- **S Model Includes Universal Input Temperature Indicator** allowing for up to five "correction" points to be programmed
- **Windows Software and PC Interface as Standard**
- **Free Evaluation Report** - ask for full data or visit [www.isotech.co.uk/industrial](http://www.isotech.co.uk/industrial)



# Pegasus<sup>PLUS</sup> 1200

## Portable Calibration Furnace

### Options

	Metal Block Insert	853-06-01	Standard Insert <i>Included</i>
		853-06-02	Blank Insert <i>Insert without pockets for local machining</i>
		853-06-02b	Special Insert <i>Contact Isotech with your requirements</i>

Blackbody Kit	853-06-03	Includes a Blackbody target and Sensor
<i>The Pegasus 1200 has to be used with the target vertical. Databook 4 includes the Pegasus 1200R which is suitable for horizontal operation</i>		

UKAS Calibration	UKAS Calibration available to Order (S models only)	
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Air Cooling	853-04-02	For use with a compressor this accessory allows air to be blown into the block for rapid cooling.
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Ceramic Insulators	853-06-04	Spare insulation pack Includes 2 x standard tops and 2 x standard bottoms
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Standard Probe	935-14-91	Type R Platinum Thermocouple for use up to 1200°C
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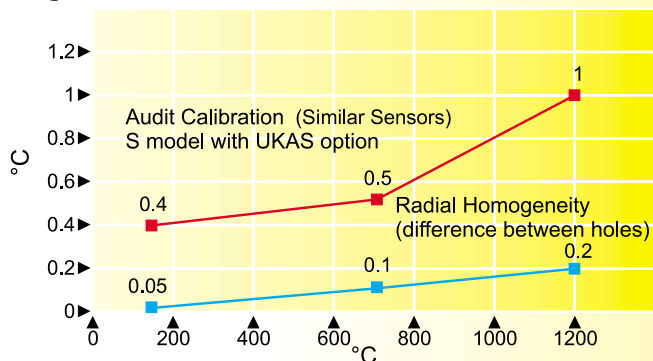
Carrying Case	931-22-27	Sturdy case accommodates the unit with room for accessories
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### Calibration and Uncertainty

A certificate, traceable to National Standards, is included as standard. Recommended is an optional UKAS five-point calibration.

The accuracy will depend very much on the mode of use and the types of sensor to be used. Please contact Isotech for tutorials and uncertainty calculations and comprehensive evaluation reports. The Pegasus<sup>PLUS</sup> 1200 meets the Calibration Capacity requirements of EA 10/13, "EA Guidelines on the Calibration of Temperature Block Calibrators".

### Pegasus<sup>PLUS</sup> 1200 Performance



For Evaluation Reports, Uncertainty Budgets and Calculations with regard to EA10-13 UKAS etc, please contact Isotech - also <http://www.isotech.co.uk/refer.html>

<b>Model No.</b>	PEGASUS <sup>PLUS</sup> 1200	
<b>Temperature Range</b>	150°C to 1200°C	
<b>Absolute stability over 30 minutes</b>	At 150°C	±0.1°C
	At 1200°C	±0.2°C
	Blackbody Source	±0.3°C
<b>Computer Interface</b>	Included with Windows Software (page 72)	
<b>Cools from</b>	1200°C to 800°C in 50 minutes* 1200°C to 200°C in 180 minutes* *substantially reduced by the cooling adaptor	
<b>Heats from</b>	100°C to 1200°C in 20 minutes	
<b>Best Performance</b>	See Graph	
<b>Calibration volume</b>	33.5mm diameter by 130mm deep	
<b>Standard Insert</b>	4 pockets, 8.0mm diameter by 80mm deep	
<b>Display Resolution</b>	0.1	to 999.9
	1	1000 to 1200
	PC can display 0.1 across whole range with the software included	
<b>Indicator units</b>	°C, °F, K	
<b>Power</b>	100 to 120V (50 / 60 Hz) or 200 to 240V (50 / 60 Hz) 2300 Watts	
<b>Overall dimensions</b>	Height	302mm
	Width	176mm
	Depth	262mm
<b>Weight</b>	8.5kg	
<b>How to Order</b>	Pegasus <sup>PLUS</sup> 1200 Please specify model type required Please specify voltage required Please specify options required	