

Blackbody Source Pegasus R

- 150°C to 1200°C
- Compact 20mm Diameter Cavity
- Emissivity > 0.995 Cavity 20 x 65mm

The Pegasus R is a compact furnace for calibrating radiation pyrometers.

The temperature of the furnace is set on a controller, whilst an independent indicator, whose sensor fits into the cavity, indicates the actual radiance temperature. The sensor can be removed for external calibration or the complete system can be calibrated.

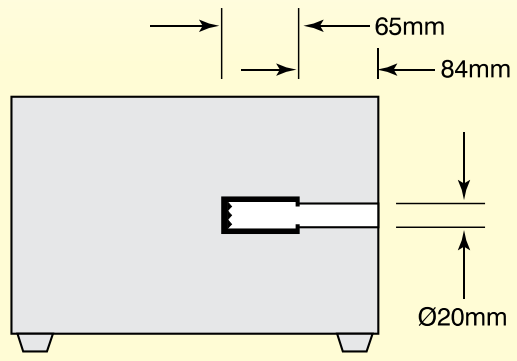
The cavity diameter is 20mm, the depth 65mm. Emissivity is 0.995. The cavity is removable and a fixed point cell may be put in its place. The cavity inside the fixed point cell is 10mm in diameter by 65mm deep to the tip of a 120° cone.

Blackbody target radiation source for use with Pegasus R.

For calibration radiation thermometers in the wavelength range 0.9 to 14 micrometres. A blackbody radiation source 'based on a design study by England's National Physical Laboratory (NPL)' for Isothermal Technology Ltd is housed, with suitable insulation, in the Pegasus tube furnace. The aperture is 20mm in diameter.

A Pegasus blackbody source has been calibrated at NPL (Nat. Physical Laboratory) with an uncertainty of $\pm 2^\circ\text{C}$ and the calibration was found to be reproducible after a period of about 2 months. A scan across the aperture at 444°C showed that the source was uniform to better than 0.3°C.

Traceability may be established with a UKAS certificate for the in-built indicator and supplied probe (935-14-40).



Pegasus R

Model	970
Temperature Range	150°C to 1200°C
Emissivity	0.995
Stability	$\pm 0.1^\circ\text{C}$
Display resolution	0.1°C to 999.9; 1°C from 1000 to 1200
Cavity size	20mm diameter 65mm deep
Heating Rate	25°C/minute
PC Interface	Included
Power	800W typical 100-130 or 208-240 Vac 50/60Hz
Dimensions	Height 310mm Width 265mm Depth 200mm
Weight	13 kg

Options	
Indium Blackbody Cell	970-06-00A
Tin Blackbody Cell	970-06-00B
Zinc Blackbody Cell	970-06-00C
Aluminium Blackbody Cell	970-06-00D
Silver Blackbody Cell	970-06-00E
Probe	935-14-40
Carrying Case	931-22-64
Gas Flow System	984-00-00

How to order
 Model 970 Pegasus R
 Please state supply voltage required
 Please state any special calibration requirement



Thank you for reading this data sheet.

For pricing or for further information, please contact us at our UK Office, using the details below.



UK Office

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Please note - Product designs and specifications are subject to change without notice. The user is responsible for determining the suitability of this product.