



Oberon R 426

High temperature large Blackbody Fixed Point system and source, 450°C to 1100°C





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Description

The Oberon R 426 is a Blackbody furnace using a Sodium heat pipe to ensure exceptionally low temperature gradient along the furnace core. It is ideal for the realization of Aluminium, Silver or Copper ITS-90 Fixed Points. It may also be used as a Blackbody source of the range 450°C to 1100°C. The furnace heater is of the non-inductive bird-cage design insulated by twin bore alumina tubes. The heat pipe is designed so that the inner wall is not subject to thermal expansion stresses from the outer wall before the heat pipe reaches conduction temperature. The working fluid is permanently and safely sealed within the plasma-arc welded enclosure.

Key features:

- High temperature Blackbody Fixed Points
- High temperature Blackbody source: 450°C to 1100°C
- Sodium heat pipe
- Emissivity: > 0.995



Specifications

Temperature range	450°C to 1100°C
Cavity size	50 x 300 mm deep
Stability	±0.05°C
Emissivity	> 0.995
Heating time	4 h

General specifications

Size	410 x 415 x 280 mm	
Weight	30.5 kg	
Display	Resolution: 0.1°C at 999.9 and 1°C at 1000 / 1100 $$	
Power supply	110 V, 50/60 Hz 3000 Watts 230 VAC transformer available in option	



Models and accessories

Instrument:

Oberon R 426 High temperature large Blackbody Fixed Points and source, 450°C to 1100°C Delivered in standard with:

- Cal Notepad software
- Serial communication cable
- User manual
- Traceable certificate

Please specify supply voltage required at the order: 110 V (50/60 Hz) or 230 V (50/60 Hz)

Large Fixed Point cells:

998-06-00D	Aluminium large Fixed Point cell	l (660.323°C)
998-06-00E	Silver large Fixed Point cell (961.78°C)	
998-06-00G	Copper large Fixed Point cell (1084.62°C)	
UKAS	Calibration certificate NPL	Calibration
certificate		

Accessories:

984Gas flow system for high temperatures (Aluminium,
Silver and Copper cells) 935-14-48Isolation transformer 230 V
/ 110 V 935-19-43/ 110 V 935-19-43Isolation transformer 110 V / 110 V

Packing information:

Size 410 x 415 x 280 mm Weight without packing 30.5 kg