

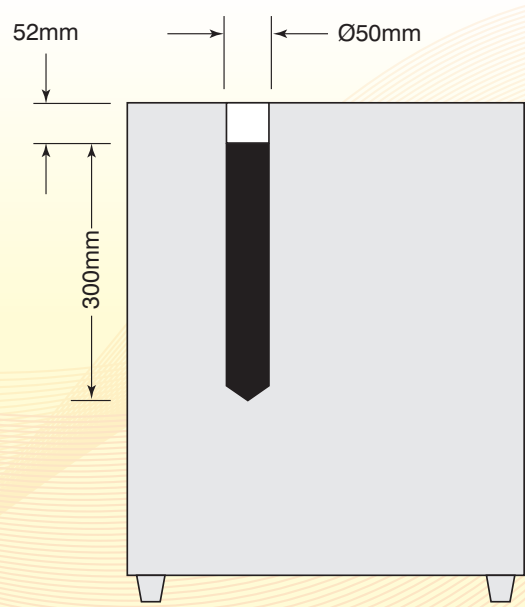
# Blackbody Source Oberon R

- 450°C to 1100°C
- For High Temperature Blackbody Fixed Points
- Utilises a Sodium Heatpipe

The Oberon R uses a Sodium Heat Pipe to ensure an 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 be used as a blackbody source over 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 heatpipe 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.



**Oberon R**

<b>Model</b>	<b>426</b>
Temperature Range	450°C to 1100°C
Emissivity	greater than 0.995
Stability	±0.05°C
Display resolution	0.1°C to 999.9; 1°C from 1000 to 1090
Cavity size	50mm diameter 300mm deep
Time to temperature	4 hours
PC Interface	Included
Supply	110Vac, 3kW, 50/60Hz CTE (230Vac and 110Vac to 110Vac Isolating Transformers available)
Dimensions	Height 410mm Width 415mm Depth 280mm
Weight	30.5kgs

<b>Options</b>	
Aluminium Primary Blackbody Fixed Point Cell	998-06-00D
Silver Primary Blackbody Fixed Point Cell	998-06-00E
Copper Primary Blackbody Fixed Point Cell	998-06-00G
Gas Flow System	984-00-00
230v/110v Transformer	935-19-43
110v/110v Transformer	935-19-48

**How to order**  
 Model 426 Oberon R  
 Please state voltage required  
 Please state any special calibration requirement