

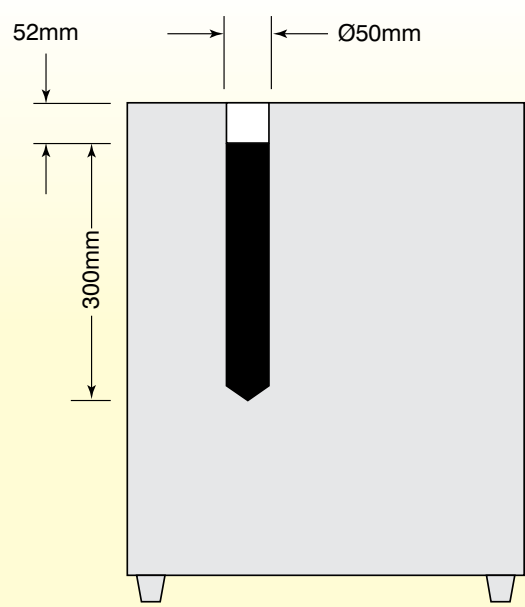
# Blackbody Source Oberon R

- 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;<br>1°C from 1000 to 1090  |
| Cavity size         | 50mm diameter<br>300mm deep   |
| Time to temperature | 4 hours   |
| PC Interface        | Included  |
| Supply              | 110Vac, 3kW, 50/60Hz CTE<br>(230Vac and 110Vac to 110Vac<br>Isolating Transformers available) |
| Dimensions          | Height 410mm<br>Width 415mm<br>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