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.

Blackbody Source
Oberon R

Model 426
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

Options
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