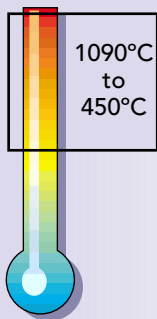


Oberon R

Model 426



Model 426 is for Aluminium, Silver, Gold or Copper. Heatpipes provide the ideal conditions for the creation and maintenance of slim ITS-90 cells.

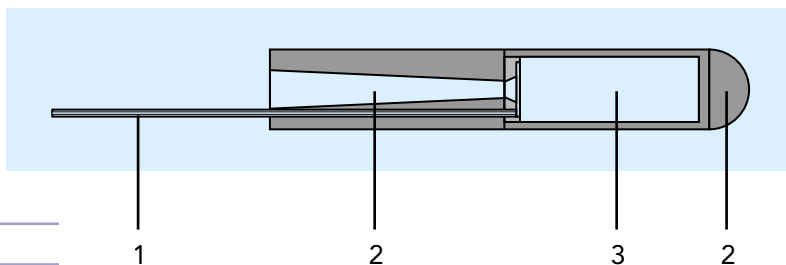
The furnace core is a specially-designed stress-free isothermal heat pipe, which provides a very low thermal gradient along the core working length. The furnace heater is of the non-inductive bird-cage design insulated by twin bore alumina tubes.

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.

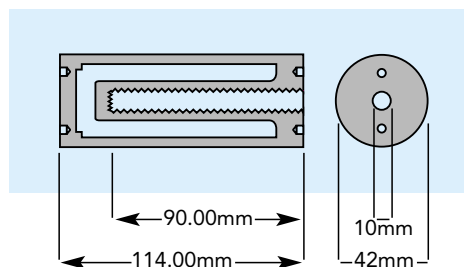
The range of the higher temperature furnace is suitable for Aluminium, Silver, Gold or Copper Blackbody Fixed Point Cells. Connections are provided for a water supply of 0.5 to 1 litre per minute. Water supply and waste connections are provided. Use without cooling is not recommended.

An advanced state of the art electronic control system controls the furnace temperature. The control may be self-calibrated using freeze-point cells as references. An over-temperature safety circuit is provided, using an on/off circuit driven by a second thermocouple.

1. Argon Filler Tube
2. Insulation
3. Fixed Point Cell



964-01-02



High Temperature Furnace for Aluminium, Silver, Gold or Copper Blackbody Fixed Point Cells

Model No.	426
Temperature Range	450°C to 1090°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
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

- 998-06-00D Aluminium Large Blackbody Fixed Point Cell
 - 998-06-00E Silver Large Blackbody Fixed Point Cell
 - 998-06-00F Gold Large Blackbody Fixed Point Cell
 - 998-06-00G Copper Large Blackbody Fixed Point Cell
 - 984-00-00 Gas Flow System
 - 935-19-43 230v/110v Transformer
 - 935-19-48 110v/110v Transformer
- Now includes PC Interface and Windows software as standard

How to order

- Model 426 Oberon R
- Please state voltage required
- Please state if UKAS calibration, or NPL calibration is required

