



450 to 1100°C

- Compact Heatpipe Furnace
- Suits Aluminium, Silver or Copper Fixed Points
- Can be used for comparison and infrared calibration

Model 426 is for Aluminium, Silver, Gold or Copper slim fixed point cells as well as for comparison calibration. 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 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 Oberon can be used with Blackbody Fixed Point Cells.

The Oberon has been upgraded to benefit from the latest technology. Fitted with a crystal clear colour display the furnace is now fully programmable. Programs can be created for the furnace to switch between set temperatures, for example to bring the furnace to the melt or freeze temperature at a desired time, or to lower the furnace temperature after a predetermined time. The PID control parameters are now dynamically optimised at different temperatures optimizing furnace stability. An Ethernet interface allows the furnace temperature to be monitored across a network whilst a USB Interface allows programs to be copied or for the furnace heat up and cool down history to be exported.

# POTTS Oberon



*Oberon for Aluminium or Copper Slim Fixed Point Cells*



|                     |   |
|---------------------|---|
| Model               | 426   |
| Temperature Range   | 450°C to 1100°C   |
| Stability           | ±0.05°C   |
| Display resolution  | 0.1°C   |
| Cavity size         | 50mm diameter<br>300mm deep                                 |
| Time to temperature | 4 hours   |
| Interfaces          | Ethernet and USB Host                                       |
| Power               | 110 Vac, 1.5kW, 50/60Hz<br>(230 Vac Transformer available)  |
| Dimensions          | Height 410mm<br>Width 415mm<br>Depth 280mm<br>Weight 30.5kg |

|                                     |  |
|-------------------------------------|--|
| <b>Accessories</b>                  |  |
| Metal Block Bath                    | 426-06-05 Adjustable Equalising Block. Six pockets 8mm x 160mm deep.                     |
| ITS-90 Fixed Point                  | ITL M 17672QS Aluminium Quartz Clad Slim Cell  |
| Apparatus                           | ITL M 17673QS Silver Quartz Clad Slim Cell<br>ITL M 17674QS Copper Quartz Clad Slim Cell |
| Inconel Basket including insulators | 426-04-00  |
| 230/110V Transformer                | 935-19-43  |

**How to order**  
426 Oberon High Temperature Furnace  
Please specify voltage required