


# OBERON 426

Large volume heatpipe furnace &
Fixed Point system, 450°C to 1100°C

Oberon 426 heatpipe furnace calibrates temperature probes from 450°C to 1100°C in comparison and infrared calibration and for Aluminium, Silver or Copper slim Fixed Point cells. Heatpipes provide the ideal conditions for the creation and maintenance of slim ITS-90 cells.

# Description

Oberon 426 heatpipe furnace calibrates temperature probes from 450°C to 1100°C in comparison and infrared calibration and for Aluminium, Silver or Copper slim Fixed Point cells. 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 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 426 can be used with Blackbody Fixed Point cells.

## Key features:

- Large calibration volume: 50 x 300 mm deep
- Wide temperature operation: 450ºC to 1100°C
- Use for comparison and infrared calibration
- Use for Aluminium, Silver or Copper Fixed Point calibration

# Specifications

| | |
|---|---|
| Temperature range | 450°C to +1100°C |
| Stability | ±0.05°C |
| Cooling / heating time | 4 h |
| Calibration volume | 50 x 300 mm depth |

## General specifications

| | |
|---|---|
| Size | 410 x 415 x 280 mm |
| Weight | 30.5 kg |
| Display | Resolution: 0.1°C |
| Power supply | 110 V, 50/60 Hz<br>1500 Watts<br>230 VAC transformer available in option |
| Communication ports | RS 232 |

# Models and accessories

## Instrument:

OBERRON 426 High temperature furnace

Delivered in standard with:

- Cal Notepad software
- Serial communication cable
- User manual
- Traceable certificate

## Metal block bath:

426-06-05 Adjustable equalising block

Hole diameter: 6x 8 mm

Depth: 250 mm

## ITS-90 fixed point apparatus:

M 17672 Aluminium cell in Quartz

M 17673 Silver cell in Quartz

M 17674 Copper cell in Quartz

## Other accessories:

426-04-00 Inconel basket including insulators (from Aluminium to Copper cell)

935-14-48 Isolation transformer 230 V / 110 V

935-19-43 Isolation transformer 110 V / 110 V

## Packing information:

Size 410 x 415 x 280 mm

Weight without packing 30.5 kg