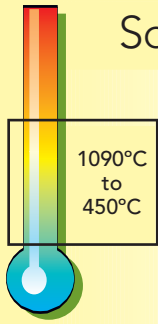


# 426 Oberon

## Sodium Heatpipe Furnace



Isotech has a wide range of Dry Blocks to suit probes requiring a large immersion depth. These products feature large and deep calibration volumes. As such they are less portable than the earlier Dry Blocks but have higher capacities and retain outstanding temperature uniformity, this uniformity is so good that these larger products are also featured in DataBook 2 as apparatus for Secondary Laboratories to realise the Fixed Points of ITS-90.

For comparison calibration the Oberon should be used with an insert. The insert has six pockets 8mm diameter by 160mm deep which is suspended from the top of the heatpipe so that the height is user adjustable. The shape of the cavity and its essentially gradient free temperature profile allow it to be used as a source for the calibration of infrared thermometers. See Databook 4 for details of Fixed Point Cells for calibration of infrared thermometers.

The Oberon uses a specially designed stress free isothermal heat-pipe as its furnace that ensures a very low thermal gradient along the furnace core.

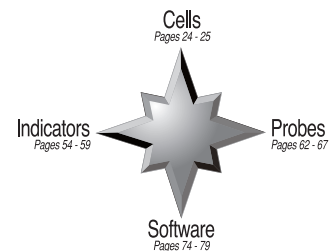
The heat-pipe is designed so that the inner wall is not subject to thermal expansion stresses from the outer wall before the heat-pipe reaches conduction temperature. The working fluid is permanently and safely sealed within the plasma-arc welded enclosure.

### Fixed Point Cells Available

Material	Temperature	Uncertainty
Aluminium	660.323°C	±0.02°C
Silver	961.78°C	±0.04°C

### Key Features

- Uses a Heat-pipe to eliminate vertical temperature gradients.
- Use for Comparison and Fixed Point Calibration.
- Use with very long thermometers.



# 426 Oberon

## Sodium Heatpipe Furnace

### Options

Metal Block Insert	426-06-05	Adjustable Equalising Block
ITS-90 Fixed Points	17672 Slim	Aluminium Cell
	17673 Slim	Silver Cell
	426-04-00	Slim Cell Holder
Transformer	935-19-43	230V/110V Transformer

<b>Model No.</b>	OBERON	
<b>Temperature Range</b>	450°C to 1090°C	
<b>Absolute stability over 30 minutes</b>	Metal Block Bath Blackbody Source	±0.05°C
<b>Computer Interface</b>	Included with Software	
<b>Display Resolution</b>	0.1 to 999.9 PC can display 0.1 across whole range with the software included	
<b>Power</b>	108 to 130V (50 / 60 Hz) 1000 Watts (230V Transformer available as an option)	
<b>Overall dimensions</b>	Height	410mm
	Width	415mm
	Depth	280mm
<b>Weight</b>	30.5kg	
<b>How to Order</b>	426 Oberon Please specify model type required Please specify options required	