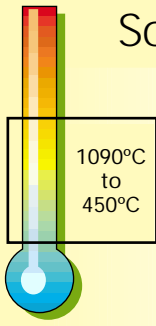


426 Oberon

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. For flexibility an accessory can be added for blackbody use.

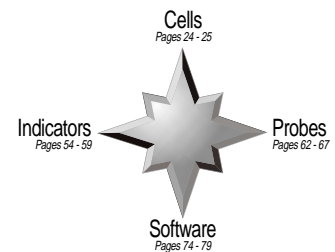
The Oberon uses a specially designed stress free isothermal heat-pipe as its furnace that ensures a very low thermal gradient along the furnace core.

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.

Connections are provided for a water supply of 0.5 to 1 litre per minute to cool the case of the Oberon. Water supply and waste connections are provided. Use without cooling is not recommended above 700°C.

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	426-06-01	Standard Insert
	426-06-02	Blank Insert <i>Insert without pockets for local machining</i>
	426-06-03	Special Insert <i>Contact Isotech with your requirements</i>
	426-06-05	Adjustable Equalising Block

Blackbody Kit	426-06-04	Includes a Blackbody target and Sensor
---------------	-----------	--

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
-------------	-----------	-----------------------

Model No.	OBERON	
Temperature Range	450°C to 1090°C	
Absolute stability over 30 minutes	Metal Block Bath Blackbody Source	±0.05°C
Computer Interface	Included with Windows Software (page 72)	
Display Resolution	0.1 to 999.9 PC can display 0.1 across whole range with the software included	
Power	108 to 130V (50 / 60 Hz) 1000 Watts (230V Transformer available as an option)	
Overall dimensions	Height	410mm
	Width	415mm
	Depth	280mm
Weight	30.5kg	
How to Order	426 Oberon Please specify model type required Please specify options required	