



50 to 700°C

# Furnaces

## Medium Temperature

- Wide Operating Range
- For Indium, Tin, Zinc and Aluminium Cells
- Three Zone Design

Whilst heatpipe furnaces offer the ideal environment to melt and freeze ITS-90 Fixed Points the temperature range is limited by fluid that flows inside the pipe. Three zone furnaces can offer wider operating ranges and still meet the requirements for "Optimal Realization of the Defining Points of the ITS-90..." CCT/2000-13. In place of a heatpipe the 17703 Medium Temperature furnace uses top and bottom guard heaters to minimise temperature gradients.

The Model 17703 Furnace can be used with Indium, Tin, Zinc and Aluminium Cells. The substantial furnace core is machined from aluminium bronze.



Fixed Points of:  
 Indium 156.5985°C Tin 231.928°C  
 Zinc 419.527°C Aluminium 660.323°C  
 Active and Passive Safety Circuits  
 Equalizing Block for Comparison  
 Calibration

### New Features



From our own ongoing experience and customer feedback we have updated the Isotech Furnace Range to deliver the same proven performance and advanced features but with a number of convenience upgrades to make your life easier.

The controllers have now been relocated to the top for easier operation, we now include an SPRT Stand and Cable Ties to keep your standards safe and Accessory Pods to keep the furnace tops free from clutter. Our furnaces are programmable to automatically melt and freeze cells and feature both USB and Ethernet interfaces with bright crystal clear displays.

<b>Model</b>	ITL-M-17703
<b>Temperature Range</b>	50 to 700°C
<b>Uncertainty</b>	<1mK (with cells)
<b>Control</b>	0.1°C Resolution, Gain Scheduling Action and Power Feedback
<b>Interface</b>	Ethernet and USB Host
<b>Core Size</b>	54.7mm x 420mm
<b>Dimensions</b>	Height 960mm Width 600mm Depth 690mm
<b>Weight</b>	115kg
<b>Power</b>	2.6kW, 108-30 or 208-240Vac, 50/60Hz
<b>Accessories</b>	420-02-18 Aluminium Bronze Equalizing Block 824-01-00 Fan Assembly 411-01-11B Annealing Adaptor
<b>How to Order</b>	ITL-M-17703 Please specify Voltage required