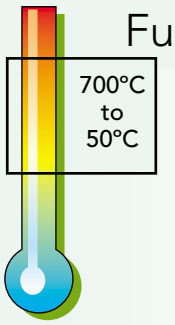
Medium Temperature

Furnace 17703



The Isotech Medium Temperature Furnace is designed specifically to realize and maintain the freeze plateaux of Isotech Indium, Tin, Zinc and Aluminium Cells, for the calibration of thermometers on ITS-90. It can also be used with an insert, as an annealing facility of the highest order for SPRT's or as a comparison calibration facility.

a. The Medium Temperature Furnace will operate between 50°C and 700°C.

b. The Medium Temperature Furnace is operated by 3 controllers in a master/slaves configuration which enables small temperature differences to be achieved along the Furnace. This is important when freezing cells, since the assumption made is that Cells freeze in concentric shells. This is true only if there is a small temperature gradient along the furnace. The controller resolution is 0.1°C.

c. The recommended procedure for establishing a freeze plateau requires operator attention until the plateau is realized. Following that, the Furnace will maintain the plateau essentially automatically for a period of 10 to 20 hours, (longer if the heat flux from the Cell minimised).

Fixed Points of: Indium 156.5985°C, Tin 231.928°C, Zinc 419.527°C, and Aluminium 660.323°C 10 to 20 Hour Plateau, Annealing Adaptor, Active and Passive Safety Circuits, Equalizing Block for Comparison Calibration

Model	ITL-M-17703
Temperature Range	50°C to 700°C
Accuracy	see page 15 for details
Control	0.1°C Resolution
Communications	Included as standard, see page 42 for details
Power	3kW, 108-130 or 208-240 VAC, 50/60Hz
Dimensions	Height 960mm Width 600mm Depth 560mm
Weight	115g

Options

410-02-14	Aluminium Bronze Equalizing Block
824-01-00	Fan Assembly (to cool the thermometer handle)
411-01-01B	Annealing Adaptor

How to order

ITL-M-17703
Medium Temperature Furnace
Please specify voltage required