



Australia's Premier Laboratory Furnace Manufacturer

“Proven Performance & Reliability”

XRF BEAD-MAKING SHAKING FURNACES



Model SC142BM and variants

Modutemp, the name known for rugged reliability of laboratory furnaces, can now be found on bead-making furnaces for your XRF installation.

Electric heating with all solid state controls provides a clean, safe unit with low operating costs.

Automated fusion control means the melting, shaking and standing steps are all precisely repeatable. With hand pouring completed, the beads are rapidly cooled to ensure perfect beads every time.

“The only factor which varies is your sample”

Modutemp furnaces are fully tested prior to shipment and programmed ready for intended application



Specification

Rocking Cradle Fabricated from high-temperature alloy to suit crucibles or mouldibles. Quick-release for easy change without dismantling.

Mould Heating/Cooling unit
Mounted to the front of the furnace. Fans individually adjustable to ensure even cooling.

Function Control
PLC automation enables up to seven(7) complete processes to be pre-programmed with 'one button' program selection. (e.g. Nickel, Iron, Manganese, Chromium etc) 'Operator Alerts' where required.

Temperature Controller
Temptron model AYT Digital PID controller With settings applied by the PLC.

Overtemperature Protection
Monitory control by a Temptron model AYL limit controller and discrete thermocouple. Provides three levels of overtemperature protection for complete safety.

Lining
JM23 (1260°C / 2300°F) refractory brick hot-face insulation with ceramic fibre back-up insulation.

Elements
Three(3) x Silicon Carbide single-ended.

Max Temp. 1250°C / 2280°F Continuous operation

Thermocouples Type 'R' (Pt v. Pt/13%Rh)

Power Control Solid state, phase angle control applied by the output of temperature controller.

Construction Twin-skin construction with sturdy, extruded aluminium frame, clad in aluminium, steel and stainless-steel panels. The frame, aluminium and steel panels are all powder coated for protection and ease of cleaning. The steel cased heating module is separated from the outer skin by an air gap. A cooling fan draws air continuously between the inner and outer skins.

Lid Twin skin, stainless steel over steel, counterbalanced top-opening. Hard-faced lid insulation avoids sample contamination. Operating handle LH side only. Power operation available shortly.

Power Requirement
380-415Volt, 50/60Hz, three phase. Requirement to be specified at time of ordering.

Venting Available on special request only.

Model	Options	Power	External H x W x D	Weight	Shipping Wt.
SC142BMP.	4 or 6 place for crucibles / moulds	6.0Kw	475 x 1100 x 500mm	95Kgs	138Kgs
...	4 or 5 place for mouldibles		18¾ x 43¼ x 19¾"	210lbs	304lbs

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