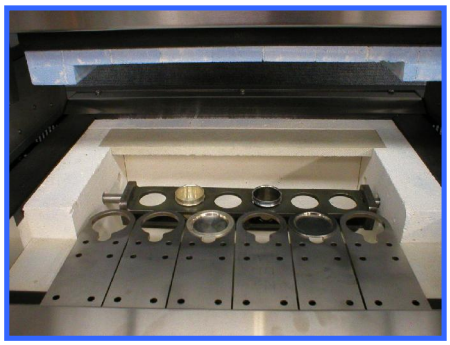
XRF BEAD-MAKING FURNACES

- *Fused glass discs for XRF*
- *Solutions for AA and ICP*
- *Sodium Peroxide Fusions*

Electric fusion machine

XRF Scientific manufacture these self-contained, semi-automated furnaces for the simplified and consistent production of fused samples for XRF or ICP analysis.

The samples are fused in batches of up to six at a time, generally in around ten minutes. The close-tolerance temperature control and accurately-timed functions ensure that each sample is processed in consistent and repeatable conditions. "It's only the sample which varies!"



Features :

- Electric heating with all solid state controls
- Reproducible sample preparation
- High productivity
- PLC control : Up to 7 customizable programs
- Audible alarm sounds whenever operator action is required
- Precise temperature control
- Temperature up to 1250°C continuous operation
- Variable rate mixing/rocking
- Variable speed fan cooling
- Over temperature protection
- Hard-faced lid insulation: avoids sample contamination
- Rugged & durable, low maintenance and repair costs

The XRF Bead-Making furnaces are available in a number of sizes to suit your requirements :

XRF Bead-Making furnace : 4 up to 6 samples per cycle

Manufactured by Modutemp having 25 year of experience in the design and manufacture of heat-treatment furnaces

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PLC touch-screen controller

This series of furnaces is capable of preparing samples in a simplified method of 4 steps. Having loaded the samples into the cradle, pre-set times via the PLC controller,

Melt— Shake — Stand — Cool

Whilst the samples are being prepared the moulds can be loaded at the front and pushed into the furnace, heated ready for casting.

The casting process is done individually by hand and when completed the samples can be slid back out of the furnace to the variable speed cooling fans.

Technical data :

Temperature	Max Temp. 1250°C / 2280°F Continuous operation
Rocking Cradle	Fabricated from high-temperature alloy to suit crucibles or mouldibles. Quick-release for easy change without dismantling.
Mould 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 preprogrammed with 'one button' program selection. (e.g. Nickel, Iron, Manganese, Chromium etc) ' Operator Alerts' where required.
Lining	JM23 (1260°C / 2300°F) refractory brick hot-face insulation with ceramic fibre backup insulation.
Elements	Three(3) x Silicon Carbide single-ended.
Thermocouple	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.
Temperature Controller	Temptron model AYT Digital PID controller With settings applied by the PLC.
Venting	Available on special request only
Overtemperature Protection	Monitory control by a Temptron model AYL limit controller and discrete thermocouple. Provides three levels of overtemperature protection for complete safety.
Power Requirement	380-415Volt, 50/60Hz, three phase. Requirement to be specified at time of ordering.

Model	Power	External H x W x D	Weight	Ship. Weight
SC142BMP	6.0Kw	475 x 1100 x 500 mm	95Kgs	138Kgs

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