

Volatile Matter Furnace

(+1100°C)

VOLATILE MATTER FURNACE TO AS 1038.4 - 1995

Construction

Strongly constructed of Zinc coated steel with powder coated finish. The furnace is insulated with top grade ceramic fibre blanket. The steel cover around the muffle is surrounded by an air cavity and by gravity convection draws heat away from the bottom and out through the top reducing the wall temperature of the outer body. An air gap at the front and louvres at the back panel allow adequate air flow to ensure a cool instrument panel. All lift up safety door furnaces are fitted with a door switch for safety.

Controller

Kanthal A1 Element is controlled by a microprocessor based PID Controller complete with auto tune function and sensor compensation for accurate temperature control. An overtemp cutout is also provided as a standard feature.



Features

The furnace has three thermocouples. A permanently fixed stainless steel sheathed thermocouple which controls the temperature of the muffle. A ceramic sheathed thermocouple permanently located in the uniform temperature zone, and an unsheathed thermocouple which can be positioned under the product.

The temperature of the unsheathed thermocouple is related to the sheathed thermocouple and must be $900 \pm 5^\circ\text{C}$. Both of these thermocouples are terminated on the front panel of the furnace for easy monitoring. The furnace has adequate heating to regain 885°C after four minutes and $900 \pm 5^\circ\text{C}$ within seven minutes of the insertion of a cold stand and it's crucibles, as required by the standard.

A floor tile is provided with the furnace. Probe insertion ports in the door are optional.

SPECIFICATIONS

Model	LA-VMF-S
Internal Dimension (mm)	w125 x d200 x h115
External Dimension (mm)	w340 x d470 x h430
Power Ratings (W)	1800
Weight (kg)	30