MINERAL INNOVATIVE TECHNOLOGIES

PRODUCTIVITY IN MINERALS

LABORATORY SLAB ELEMENT FURNACE S & E – LAB RANGE

MIT-GROUP

MINERAL INNOVATIVE TECHNOLOGIES GROUP

GROWTH THROUGH SERVICE

S – LAB RANGE

The Laboratory SLAB ELEMENT Furnace range is designed with the exacting requirements of the laboratory environment in mind. State of the art control systems ensure consistent and reliable results. Our tried and tested SLAB heating elements and refractory designs offer prolonged service life, the S-LAB range is attractively presented in a lightweight air-cooled cabinet finished in a durable epoxy powder coat which blends into any laboratory environment.

OPERATING TEMPERATURE

Maximum Temperature	1150°C
Maximum Continous Temperature	1100°C

GENERAL DESCRIPTION

The chamber is manufactured from a 98% Alumina material and is supported by low thermal mass ceramic vacuum formed fibre board. The spiral elements of Kanthal material are embedded into a removable slab design. The chamber is equipped with a chimney for the removal of any undesirable gaseous contaminants.

For ashing applications, preheated air can be passed through the chamber and extracted through a large stainless steel chimney. (Optional extra) The removable "hot box" is mounted in a lightweight steel cabinet designed to use convected air to provide a cool outer skin. In the interests of the operator, the door moves on a parallel link system and an internal spring counter balance system ensures ease of movement. The entire cabinet is subjected to a seven-stage zinc phosphate anti-corrosion treatment and then a durable epoxy powder coat is applied.

INSTRUMENTATION

Standard instrumentation consists of a digital set, digital indicate, dual display P.I.D. temperature controller with power limiting facility and the capacity to auto tune P.I.D values to the characteristics of your process. This in turn signals a solid state, zero voltage-switching relay, causing minimal interference with other electronic equipment. Platinum rhodium thermocouples.

A completely independent over temperature circuit protects the unit from over firing. The unit is supplied in manual reset, which allows the unit to be operated unattended. A door switch isolates the elements in the interests of operator safety. Optional extras are available on request.

E – LAB RANGE

The E (economy) range of slab element furnaces have been designed without compromising any of the essential features associated with reliability and prolonged service life. The ruggedly constructed steel frame will endure the trials of a workshop environment, yet is equally suited to a laboratory bench top.

OPERATING TEMPERATURE

Maximum Temperature	1200°C
Maximum Continous Temperature	1150°C

GENERAL DESCRIPTION

The chamber is manufactured from a 98% Alumina material and is supported by low thermal mass ceramic vacuum formed fibre board. The spiral elements of KANTHAL material are embedded into a removable slab design. The chamber is equipped with a chimney for the removal of any undesirable gaseous contaminants.

For ashing applications, preheated air can be passed through the chamber and extracted through a large stainless steel chimney. (Optional extra) The door is left hand hinged with a durable plunger retaining lock system. The entire cabinet is subjected to a seven-stage zinc phosphate anti corrosion treatment and then a durable epoxy powder coat is applied.

INSTRUMENTATION

Standard instrumentation consists of a digital set, digital indicate dual display P.I.D. controller with power limiting facility and the capacity to auto tune P.I.D. values to the characteristics of your process. This in turn operates a solid state, zero voltage-switching relays, causing minimal interference with other electronic equipment.

Type (k) thermocouple

A door switch isolates the elements in the interests of operator safety.

*Various optional extras are available on request. (See optional extra sheet)

CONTACT US

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GROWTH THROUGH SERVICE