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## **FURNACE FOR LABORATORY 1800 °C mod. SKC-R**

It answers to the requirement to subject samples of material to extreme thermal conditions keeping a facility of use like a common electrical furnace to medium temperature.

It's product in cylindrical chamber with samples loading from the bottom, principally destined to the crucibles heating introduced and extracted from the furnace by means of a vertical transfer device. Examples of use are the fusion tests, pellet treatment and the gemmological treatments.

### **TECHNICAL CHARACTERISTICS**

Chamber dimensions:	Diameter 50xH.100/mm
External dimensions:	L.470xH.780xP.600/mm
Weight:	Kg. 60
Maximum Temperature:	1800 °C
Installed power:	2 KVA
Mains supply:	220 V monophas

### **INSTRUMENTATION OF TEMPERATURE AND POWER CONTROL:**

- Microprocessor regulating programmer to 4 preestablished programs. Precision and repeatability  $\pm 2$  Kelvin
- Thermocouples type B
- Power static control with feedback on reducing transformer
- Measure instruments

### **HEATING AND THERMAL ISOLATION SYSTEM:**

- Heating by means of silicon or molybdenum 1900 °C elements
- Thermal isolation in ceramic fiber panels AL203 of varied pyroscopic scale, vacuum formats, that concurs a fast heating and cooling
- Mechanical construction constituted from a furnace zone, an instruments zone and a power members zone
- Forced ventilation of the hollow space
- Electromechanical elevator of the plate crucible-stand with push-button commands for the raising and the lowering