

# PRODUCT INFORMATION



## Series LF Top Loading Multi-Purpose Furnace

High Temperature Vacuum or Controlled Atmosphere Graphite Heat Zone

### EQUIPMENT SPECIFICATIONS

**Chamber:** Double-walled, water-cooled 304L stainless steel chamber with water-cooled, hinged lid.

**Hot Zone:** 4" (101.6mm) dia. x 5" (127mm) high graphite element with rigidized fibrous graphite insulation.

**Power Supply:** 15 KVA 220/1/50-60 SCR controlled with current limiting and soft start features fully interlocked for failsafe operation.

**Temperature Sensor:** (1) Two-color optical pyrometer.

**Controller:** Eurotherm 2416 temperature controller/programmer. 1/16 DIN temperature controller, 4 programs of 16 segments, auto-tune, RS-485 Modbus RTU communications.

**Overtemperature Controller & Hot Zone Interlock:** Eurotherm 2216E overtemperature controller. 1/16 DIN temperature controller & hot zone interlock. RS-485 Modbus RTU communications.

### PUMPING SYSTEMS AVAILABLE:

#### Roughing Pump Vacuum System:

Manual vacuum system with Vacuum Research Corp. Model 902111 vacuum instrument, Vacuum Research Corp. Model 200-7, 200 L/min. @ 60 Hz (7.0CFM) or equal, direct drive mechanical pump and all necessary plumbing and manifolding.



### PERFORMANCE SPECIFICATIONS

**Operating Temperature:** 3000°C (5432°F)

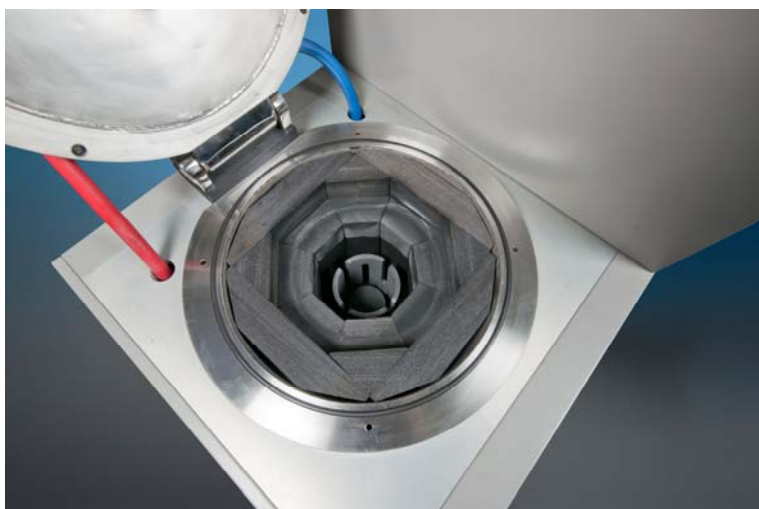
**Roughing System:** Vacuum ( $10^{-2}$  –  $10^{-3}$  \* torr) and inert gas (to 2 PSIG) (.14 KGS/SQ.CM)

\*Chamber clean, cold, empty & out-gassed.



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**APPLICATIONS:** This vertical furnace is used for vacuum or controlled atmosphere heat treatment of ceramics, graphite & carbon composites, reactivity studies, and small scale sintering studies.



**Centorr/Vacuum Industries Manufactures a complete line of High Temperature Vacuum and Controlled Atmosphere Furnaces for the Research and Development Laboratory, the Materials, Testing and Evaluation Laboratory, and for Production.**



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