

PRODUCT INFORMATION



Series LF Top Loading Multi-Purpose Furnace 3000°C

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: 18 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:

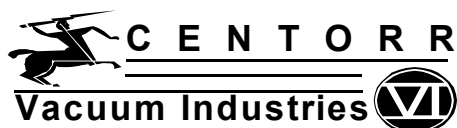
Manual vacuum system with Vacuum Research Corp. Model 902111 vacuum instrument, Vacuum Research Corp. Model 200-7, 200 L/min. @ 60 Hz (7.0CFM) or equal, direct drive mechanical pump and all necessary plumbing and manifolding.

PERFORMANCE SPECIFICATIONS

Operating Temperature: 3000°C (5432°F)

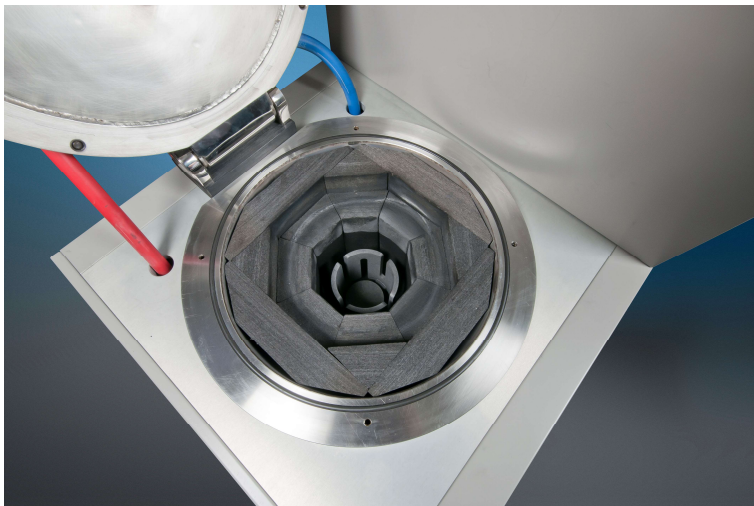
Roughing System: Vacuum (10^{-2} – 10^{-3} * torr) and inert gas (to 2 PSIG) (.14 KGS/SQ.CM)

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



Tel: 603-595-7233 Fax: 603-595-9220
Email: sales@centorr.com

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.



FEATURES:

Easy to Install. All Items Cabinet Mounted.

One Piece Furnace, Control Cabinet, Power Supply, Single Point Electrical Connection, 220 Volt Single Phase, Single Inert Gas Connection 1/4" NPTF, Water Connections 1" NPTF Supply, 1 1/4" NPTF Drain, Single Air Supply Connection 1/4" NPTF, Pump Exhaust, 3/4" ID Hose Connection, Canisters for Movement of System.

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.



Centorr/Vacuum Industries, Inc.

55 Northeastern Blvd.

Nashua, NH 03062

Toll: 800-962-8631

Tel: 603-595-7233

Fax: 603-595-9220

www.centorr.com

Email: sales@centorr.com

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