



Manufacturers of High Temperature & High Vacuum Equipment

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Specification Sheet

Equipment Model: GVAC-1200 Vacuum Furnace

Type	Coldwall, Vertical, Front Loading/High Vacuum
Maximum Temperature	1600° C.
Hot Zone	10" (250 mm) D. x 5" (125 mm) W. x 5" (125 mm) H
Frame Dimensions	51" (130 cm) W. x 26" (66 cm) D. x 20" (51 cm) H.
Power Requirements	240V 1 Ph. 60A 60 Hz. – 230V 1Ph. 60A 50 Hz..
Gas Requirements	25 – 50 psig, Nitrogen (¼" Swagelok)
Compressed Air	80 – 100 psi (¼" Swagelok)

Process Vacuum at temperature 10⁻⁶ Torr range
 Vacuum in 10⁻⁷ Torr range at ambient

Cooling Requirements - 25 psig at 3 gallons per minute. Note: Maximum back pressure is 15 psig.
 34,000 BTU load for chiller calculation

Heat up ramp rate 100° C per minute - empty chamber.

Heating elements and heat shields are constructed of Molybdenum. Insulators are made of High Alumina.

Standard Features:

- 300 LP/S Turbo Pump
- Digital Chart Recorder
- Microprocessor Controls - Ramp & Soak
- 19 Programs - 20 Segments per Program
- Sight glass for calibration melts
- Active Braze Control
- Ethernet Connectivity / Webserver / FTP
- Fully Automatic - One button push starts the run.
 Automatically it will:
 - Rough Pump
 - Cross over to High Vac
 - Ramp to Temperature and Soak
 - Cooldown
 - Backfil to ATM

Options:

- Partial Pressure Operation
- Survey Thermocouples (up to 4)
- Tower Indicating Lights - 3 Color
- Computer Controls
- Positive Pressure Hydrogen Operation
- Residual Gas Analyzer
- Cryo, Ion Pumps