



*Alpha Series
with Integrated
Seam Sealer*

Alpha Series

Glovebox Systems

The field proven Alpha Series atmospheric enclosures provide compact and effective platforms for environmental control with excellent price to performance value. The Alpha Series is excellent for production as well as research and development applications. The Alpha is available in two sizes, one for projection welding applications and the other for seam sealing or general industrial use. Straight forward controls allow the operator easily operate oven, vacuum and inert gas backfill controls.

key features

- Configurations available for integrated seam sealing, projection welding, or stand-alone industry use.
- Stainless steel construction with exterior epoxy finish for easy maintenance, ergonomically designed safety glass viewing window with interior lighting. Two glove ports with built-in armrests.
- Antechamber to transfer tools and product into enclosure
- Optional vacuum bakeout oven with temperature range of ambient to -125°C with an option for higher temperatures.
- Secure oven door with locking mechanism.
- Easy access, clean antechamber
- Standard oil-free vacuum pump with vacuum oven.
- Calibrated to NIST standards.
- CE certification available.
- Valves and flow meters for control of inert gas backfill of antechamber and optional oven



Alpha Series Optional Vacuum Bakeout Oven



Vacuum Oven Controller Unit

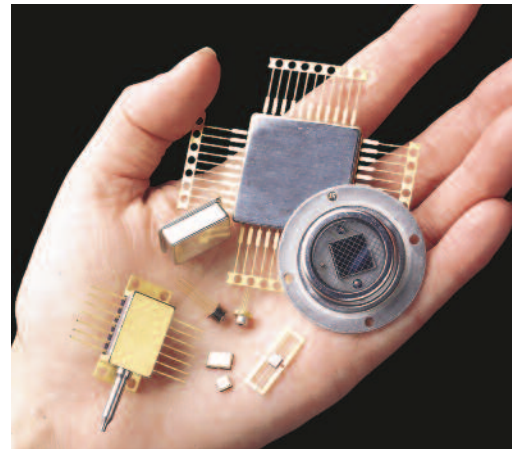


specifications

Enclosure	
Viewing windows:	Double laminated safety glass
Glove ports:	2
Dimensions	Seam sealing enclosure –
W x D x H In. (cm):	44.5 x 35 x 20 (113 x 89 x 37) Projection welding enclosure – 33.5 x 24 x 14.5 (85 x 61 x 37)
Enclosure Construction:	1/8" (3.2 mm) welded seam stainless steel
Pressure Control:	Manual set rotometer
Lighting:	15-watt fluorescent (each chamber)
Input Voltage:	208-240 volts, 50/60 Hz, single phase
Input Current:	15 amps (no oven); 30 amps (with oven)
Gas Input:	60 psig
Vacuum Bake Oven (Optional)	
Type:	304 electro-polished stainless steel construction
Size (Internal):	14"D x 7-5/8"H x 7-5/8" W (36cm x 19cm x 19cm)
Backfill Rate:	10 scfh (.283 scmh)
Backfill Pressure:	4" water column (10.16cm water column)
Maximum Temp:	125°C standard, 200°C optional
Safety Oven Temp:	Setpoint 25°C over oven temperature max. ±10°(factory set)
Vacuum:	Dry pump 830 mbars (standard) Oil rotary vane pump 5 x 10-2 mbars (40 mTor) (optional) Dry pump 1.2 x 10-1 mbars (90 mTor) (optional)
Controls:	Temp set control: Ambient -125° (200°C optional) Backfill: On/Off Vacuum: On/Off
Door:	Black anodized door with integrated lock
Chilled Water:	Needed for 200°C optional oven
Front-Loading Interchange	
Type:	Front-loading, flush type. Polycarbonate construction.
Size (Internal):	8"W x 11.25"D x 8"H (20cm x 28cm x 20cm)
Flush Rate:	0-100 scfh (0-2.83 scmh)
Controls:	Adjustable Rotometer



Alpha Series with Integrated Projection Welder



optional accessories

Gas analyzers:	Oxygen, helium, moisture
Gas mixers:	Manual set or automated for two and three gases
Gas purification units:	Manual or Automated
Water chiller:	Portable Water Chiller (P/N 138-00019-003)



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