

Alpha Series Glovebox Welding Systems



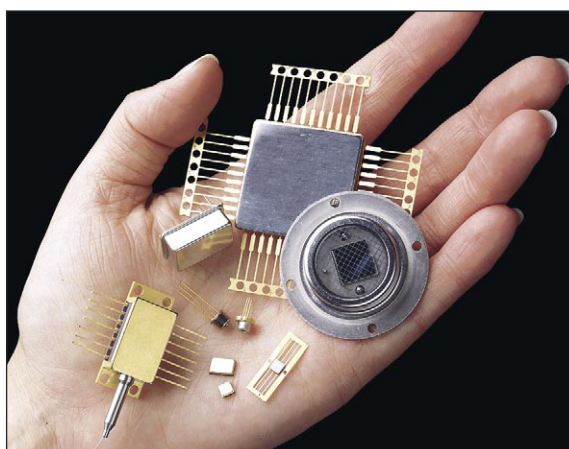
*Alpha series
with integrated
seam sealer*

The field proven Alpha Series glovebox systems provide compact and effective platforms for environmental control with excellent price to performance value. The Alpha Series is excellent for both production R&D applications. The glovebox 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 to 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
- Standard oil-free vacuum pump with vacuum oven
- Optional vacuum bakeout oven
- Easy access, clean antechamber
- Calibrated to NIST standards
- CE certification available

TYPICAL APPLICATIONS



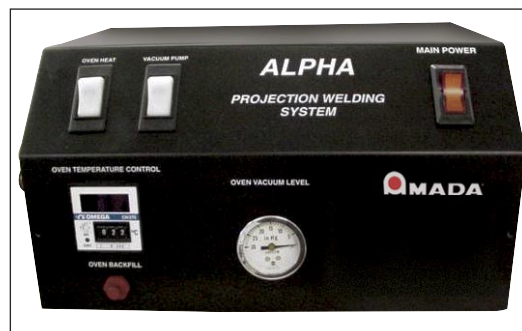
TECHNICAL SPECIFICATIONS

Enclosure	
Viewing windows	Double laminated safety glass
Glove ports	2
Enclosure construction	1/8 in (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
Front-Loading Interchange	
Type	Front-loading, flush type. Polycarbonate construction.
Size (Internal) W x D x H	8 in x 11.25 in x 8 in (203.2 mm x 285.8 mm x 203.2 mm)
Flush Rate	0 - 100 scfh (0 - 2.83 scmh)
Controls	Adjustable rotometer

Vacuum Bake Oven (Optional)	
Type	304 electro-polished stainless steel construction
Size (Internal) W x D x H	7-5/8 in x 14 in x 7-5/8 in (193.7 mm x 355.6 mm x 193.7 mm)
Backfill rate	10 scfh (.283 scmh)
Backfill pressure	4 in water column (10.16 cm water column)
Maximum temp	125° C standard, 200° C optional
Safety oven temp	Setpoint 25° C over oven temperature max. $\pm 10^\circ$ (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
Cooling Water (oven flange cooling)	20 - 27° C, 0.5 L/min minimum flow or optional integrated water recirculator. The installation area should be free of sudden temperature fluctuations and humidity should be $\leq 85\%$ (non-condensing)



Alpha series optional vacuum bakeout oven



Vacuum oven controller unit

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)

WEIGHT & DIMENSIONS

	Seam sealing enclosure	Projection welding enclosure
Dimensions (W x D x H)	44.5 in x 35 in x 20 in (1130 mm x 889 mm x 508 mm)	33.5 in x 24 in x 14.5 in (851 mm x 610 mm x 368 mm)
Weight	Will vary with selected options	Will vary with selected options



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