

# Alpha Series Glovebox Welding Systems



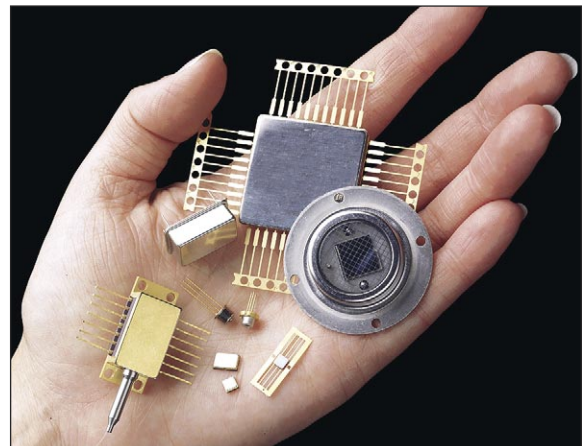
*Alpha series  
with integrated  
seam sealer*

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



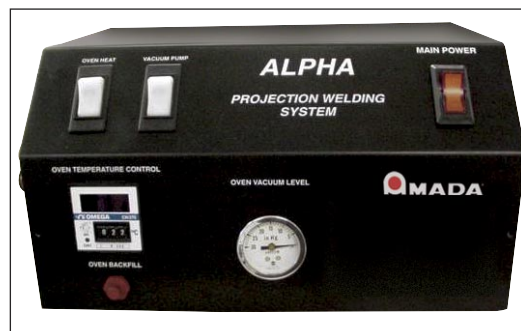
## TECHNICAL SPECIFICATIONS

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) L x W x H	11.25 in x 8 in x 8 in (28 cm x 20 cm x 20 cm)
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) L x W x H	14 in x 7-5/8 in x 7-5/8 in (36 cm x 19 cm x 19 cm)
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 (L x W x H)	35 in x 44.5 in x 20 in (89 cm x 113 cm x 37 cm)	24 in x 33.5 in x 14.5 in (61 cm x 85 cm x 37 cm)
Weight	Will vary with selected options	Will vary with selected options



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