



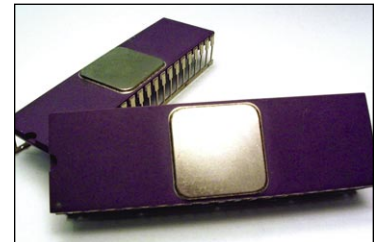
MX2000 Glovebox

MX2000 is a modular **glovebox** system that can be configured to meet your specific process requirements and productivity goals with any combination of ovens and antechambers, gas analyzers, moisture monitors, and environmental chambers and controls.

KEY FEATURES

- Wide choice of control capabilities ensures your process and budget needs are met
- A range of vacuum pumps – dry, rotary vane, turbo- molecular – to meet your antechamber or oven requirements
- Large window for excellent visibility and maintenance access
- Optional PLC for glovebox components is quickly programmed with easy-to-use software
- Sturdy, rugged construction for long equipment life and stable process platform
- Optional single or dual-column gas purification units deliver ultra-low moisture and oxygen levels
- Modular design enables economical glovebox customization for new systems, as well as easy upgrades as your process needs evolve

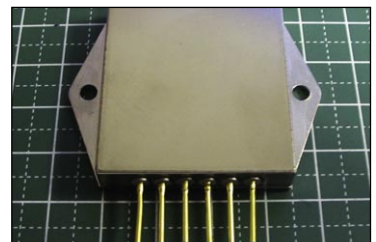
TYPICAL APPLICATIONS



Semiconductor components



Seam weld thin film



Seam sealed package

GLOVEBOX SPECIFICATIONS & OPTIONS

| | Features |
|---|---|
| Antechambers and ovens | |
| Configuration options | End, front, rear loading |
| Heating | Wall heating or heated shelves |
| Temperature | 125° C or 200° C, higher available |
| Vacuum pumps | Rotary vane, dry, or turbo pumps |
| Analysis and monitoring capabilities | |
| Oxygen detection range | ppm or % |
| Moisture detection range | ppm or dpC |
| Helium mixture monitoring | %% helium in nitrogen or argon |
| Utilities | |
| Electrical | 208-240 VAC, single-phase, 50/60 Hz, 30 amps (40 amps with two ovens) |

Specifications are subject to change without notice.

| | Features |
|--|--|
| Inputs | |
| Environmental gas | 60 psi (415 kPa) |
| 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 ≤85% (non-condensing) |
| Chilled water needed for oven flange cooling for 200° oven Not required with optional water re-circulator | |
| Gas purification | |
| Single column | 30 CFM (51 m3/hr) |
| Dual column | Moisture and/or oxygen removal |
| Automatic dual column | |
| Gas mixers | |
| Manual set mixers | Two and three gas versions |
| Others | |
| Soot removal systems | 30 CFM (51 m3/hr) or 100 CFM (170 m3/hr) |
| CDRH Class 1 laser eyesafe window | Wavelength based on application |
| Light tower | Indicates glovebox or process status |
| Tool interchange | Floor access, front loading |
| Safety | Light curtain, interlocks |

MX2000 – ANTECHAMBERS AND OVENS

| Interior Size | Type | Control choices for vacuum, backfill, and temperature | Temperature |
|---|---------------------|--|----------------|
| Length 355 mm (14 in) Width 195 mm (7.625 in) Height 195 mm (7.625 in) | Antechamber | <ul style="list-style-type: none"> Flushing with manual set rotometer Manual Programmable logic control | Not applicable |
| Length 465 mm (18.5 in) Width 290 mm (11.5 in) Height 265 mm (10.5 in) | Antechamber | <ul style="list-style-type: none"> Manual Programmable logic control | Not applicable |
| Length 355 mm (14 in) Width 195 mm (7.625 in) Height 195 mm (7.625 in) | Oven-wall heat | <ul style="list-style-type: none"> Manual Programmable logic control | 125° or 200° C |
| Length 465 mm (18.5 in) Width 290 mm (11.5 in) Height 265 mm (10.5 in) | Oven-wall heat | <ul style="list-style-type: none"> Manual Programmable logic control | 200° C |
| Length 465 mm (18.5 in) Width 290 mm (11.5 in) Height 265 mm (10.5 in) Shelf length 455 mm (18 in) | Oven-heated shelves | <ul style="list-style-type: none"> Manual Programmable logic control | 200° or 300° C |

Other antechambers and ovens available



Heated wall oven

Heated wall oven



Heated shelf oven

Antechamber

WEIGHT & DIMENSIONS (STANDARD GLOVEBOX SIZES)

| | MX2000 - 48 in | MX2000 - 56 in |
|-------------------------------|--|--|
| Dimensions (W x D x H) | 48 in x 39 in x 36 in (1219 mm x 965 mm x 914 mm) | 56 in x 39 in x 36 in (1423 mm x 965 mm x 914 mm) |
| Number of glove ports | 2 | 4 |
| Weight | Weight varies with selected options | |

Other configurations and custom sizes available



USA Headquarters and Western Technical Center
AMADA WELD TECH
 1820 S. Myrtle Ave. • Monrovia, CA 91016 US • T: (626) 303-5676
info@amadaweldtech.com • www.amadaweldtech.com
 ISO 9001 Certified Company • 24/7 Repair Service: 1-866-751-7378

AMERICAS

AMADA WELD TECH
 (Eastern Technical Center)
 High Point, North Carolina
 T: (941) 544-5762
southsales@amadaweldtech.com

AMADA WELD TECH
 (Mexico Office)
 El Paso, Texas
 T: (915) 881-8765
mxsales@amadaweldtech.com

AMADA WELD TECH
 (Midwest Technical Center)
 Detroit, Michigan
 T: (248) 313-3078
midwestsales@amadaweldtech.com

EUROPE
AMADA WELD TECH
 GmbH
 Munich, Germany
 T: +49-89-839403-0
infode@amadaweldtech.eu

ASIA

AMADA CO., LTD.
 Isehara, Japan
 T: +81-463-96-3268
sales@miyachi.co.jp

AMADA WELD TECH
SHANGHAI CO., LTD.
 Shanghai, China
 T: +86-21-6448-6000
jwu@amadaweldtech.com.cn

AMADA WELD TECH KOREA CO., LTD.
 Seoul, Korea
 T: +82-31-8015-6810
amadadasales@amadaweldtech.co.kr
sales2@amadaweldtech.co.kr

AMADA WELD TECH TAIWAN CO., LTD.
 Taipei, Taiwan
 T: +886-3-328-3511

AMADA (THAILAND) CO., LTD.
 Bangkok, Thailand
 T: +66-2170-5900
info@amada.co.th

AMADA VIETNAM CO., LTD.
 Ha Noi, Vietnam
 T: +84-4-6261-4583
thuyet@amada.co.jp

AMADA WELD TECH
INDIA PVT., LTD.
 Bangalore, India
 T: +91-80-4092-1749
info@amadaweldtech.in

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