

Solutions for Controlled Environments and Cleanrooms.



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Stainless Steel Glove Box, Series 400

Provides all the features and capabilities of Series 300 models in a more spacious chamber

Interfaces with Vacuum Antechamber for vacuum operations down to 29.9" Hg

Optional gas purge controls automatically establish a Class 1 particle-free environment and maintain a humidity set point down to 0% RH/0.5 ppm(v) H₂O

Select single model (with two glove ports) or twin model (with four glove ports)

These chambers are a larger version of the Series 300 chambers listed on the preceding pages.

In addition to all of the features of the Series 300 models, these chambers also accommodate Vacuum Antechamber, which supports vacuums down to 29.9" Hg for a wide range of operations in many industries. Their double-gasketed side flange allows easy insertion of large process equipment into the work chamber and easy mounting of the antechamber, a vacuum/nitrogen oven, or a standard air lock.

Select single models (with two glove ports) or twin models (with four glove ports) to meet your applications. Dual inlet and outlet ports allow connection of complete line of gas control systems, including the Dual Purge™ System, which provides variable purging to flush out moisture and contaminants; and either the NitroWatch® or DewWatch™, which work in tandem with the Dual Purge to control humidity levels down to 0.5 ppm(v).

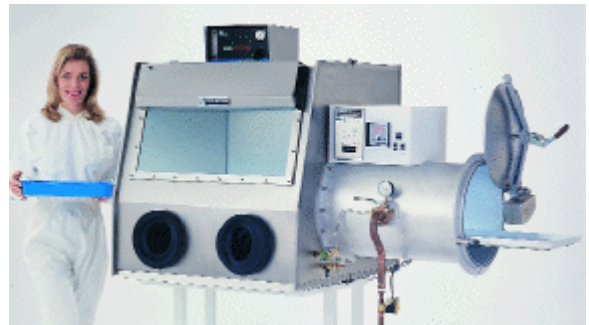
How to Order:

- Select either a single model (2 glove ports) or twin model (4 glove ports) from the table below. **Note:** Chambers include access door(s) only when ordered together with antechamber, air lock or oven.
- Select system options from the options chart. Be sure to specify the side on which you would like any system modules mounted (right or left when facing the front of the chamber). All prices include installation and any necessary access door(s).

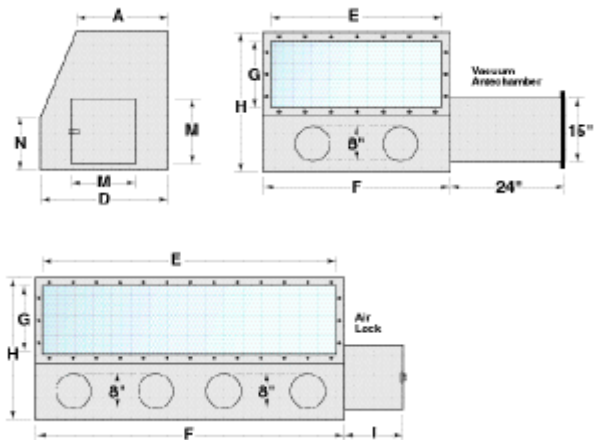
| Series 400 Chambers | | |
|---------------------|-------------|---------|
| Model | Glove Ports | Cat.# |
| Single | 2 | 1694-13 |
| Twin | 4 | 1694-14 |

All models include a 120VAC/60Hz fluorescent illuminator. For 220VAC/50Hz power, add "-220" to the catalog number.

For electropolishing of any stainless steel component, add "-2" to the catalog number and 30% to the price.



Model shown: Single Chamber (Cat. No. 1694-13) with Dual Purge System, Vacuum Antechamber and Vacuum Control Module



| Glovebox Dimensions | | | | | | | | | |
|---------------------|----|----|-------|----|--------|----|----|----|----|
| Glove Ports | A | D | E | F | G | H | I | M | N |
| 2 | 27 | 33 | 28.25 | 33 | 12.813 | 33 | 16 | 12 | 11 |
| 4 | 27 | 33 | 56.5 | 60 | 12.813 | 33 | 16 | 12 | 11 |

Specifications

Door Openings: 12" x 12" gasketed doors supplied with air locks (see ordering information below); doors open inward.

Arm Ports: 8" round with flange for connecting glove assembly

Gas Ports: Tapped .75" NPT inlet (for connecting flowmeter or Dual Purge™ System) and .75" NPT system pressure port; .75" NPT outlet (for connecting Terra Automatic RB® Valve). Appropriate adapter inserts are supplied for any Terra gas systems ordered.

Cat. #

Operating Manual 1800-13

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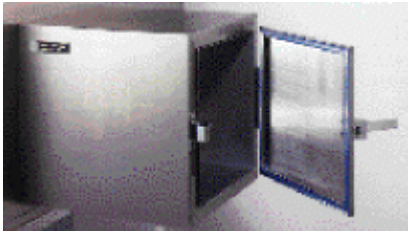
Company Reg No. 191 02 63 VAT Reg No: 429 0172 65

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System Options



| Air Lock** | |
|-------------|------------|
| Right Mount | Left Mount |
| Cat. # | Cat. # |
| 1698-01 | 1698-02A |



| Vacuum Antechamber | | | |
|--------------------|------------|-------------------|------------|
| Aluminum** | | Stainless Steel** | |
| Right Mount | Left Mount | Right Mount | Left Mount |
| Cat. # | Cat. # | Cat. # | Cat. # |
| 5400-01 | 5400-03 | 5400-04 | 5400-05 |



| Vacuum/Nitrogen Ovens (left side mounting standard) | | | |
|---|------------|--------------|------------|
| High Performance Pass-Through Oven* | | Modular Oven | |
| Right Mount | Left Mount | Right Mount | Left Mount |
| Cat. # | Cat. # | Cat. # | Cat. # |
| 5401-12A | 5401-00A | 9602-30A | 9602-03A |

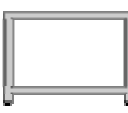
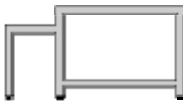



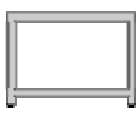
Stands for Series 400 Glove Boxes

Constructed of all-welded 2" square tubing, these stands are specially designed to support Series 400 glove boxes. Select epoxy finished (white) steel or stainless steel stands, with or without rubber casters. Select oven support for use with High-Performance Pass-Through Oven (No. 5401-00), and antechamber support for use with the Series 400 Vacuum Antechamber. All stands raise chambers 30" off of floor (add 3" for casters).

Cat. #
1700-44

Heavy-Duty Casters
(set of 4, 2 with brakes)

| |  | <i>For chamber only</i> |  | <i>For chamber and oven No. 5401-00</i> |
|-----------------------------|---|-------------------------|---|---|
| | Stainless Steel | Painted Steel | Stainless Steel | Painted Steel |
| | Cat.# | Cat.# | Cat.# | Cat.# |
| For Single Models (2 ports) | 1694-15 | 1694-17 | 1694-19 | 1694-21 |

| |  | <i>For chamber and vacuum antechamber</i> |  | <i>For chamber, vacuum antechamber, and oven No. 5401-00</i> |
|-----------------------------|---|---|---|--|
| | Stainless Steel | Painted Steel | Stainless Steel | Painted Steel |
| | Cat.# | Cat.# | Cat.# | Cat.# |
| For Single Models (2 ports) | 1694-23 | 1694-25 | 1694-27 | 1694-29 |
| For Twin Models (4 ports) | 1694-24 | 1694-26 | 1694-28 | 1694-30 |

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| Other Optional Accessories | |
|---|----------|
| | Cat. # |
| Dual Purge System | 1603-61 |
| NitroWatch System | 9500-00A |
| NitroWatch Sensor | 9500-02A |
| Stainless Steel Automatic RB Valve Required for operation with Dual Purge System | 1606-60 |
| Accordion Sleeve/Glove Combination (18"L, with size 9 gloves) | 1681-91A |
| High-Performance Vacuum Oven | |
| Modular Vacuum Oven | |
| Stainless Steel Arm Ports Can be retrofitted to any chamber with 8" cutouts | 1694-50 |



IonBar™ (installed below Filter/Fan)
Safe static neutralization.

| | Cat. # |
|----------|---------|
| 33" Long | 2005-38 |
| 44" Long | 2005-37 |



Changeable Sleeve and Glove Combination

These accordion sleeves can be used with a variety of gloves, allowing you to change glove size or type without changing the sleeve itself. The convoluted section keeps the sleeve off the operator's arm for better air circulation and greater comfort. Supplied with one pair of tempered latex industrial gloves (select desired size). Clamps included.

| Changeable Sleeve and Glove Combination | | |
|---|-----------------|--|
| Glove Size | With 24" Sleeve | |
| | Cat. # | |
| 8 | 1681-90 | |
| 9 | 1681-91 | |
| 10 | 1681-92 | |

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