

Аксессуары для перчаточных ящиков

Технические характеристики

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PLAS ■ LABS offers a complete line of beneficial accessories for chambers, isolators, and glove boxes. Select the important accessory that will help you in your research success!

"We produce research equipment that helps you produce results!"



#800-DOI, Digital Oxygen Indicator
continuously displays and monitors chamber PPM levels.

Accuracy: $\pm 1\%$ of full scale.
Resolution: 0.1ppm for ranges <100 ppm.
1.0 ppm for ranges >100 ppm.

Electrical requirements for all products this page:

North American: 115-120 Volts
60 Hz. 5 Amps.

International (Export): 220-240
Volts 50 Hz. 2.5 Amps.

#800- DOI, Digital Oxygen Indicator
#800- DOI/EXP Export Model



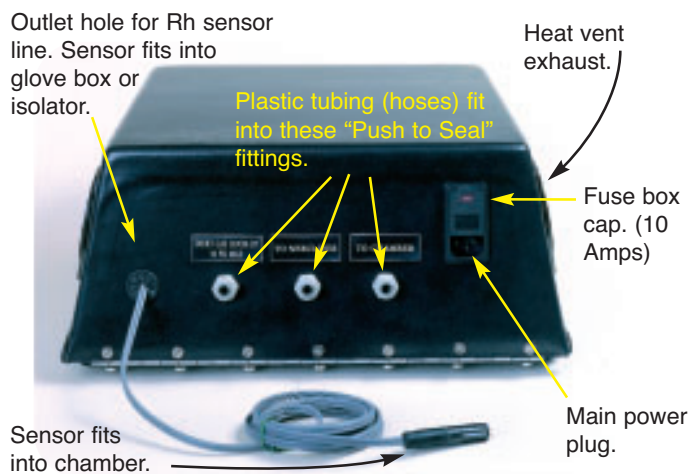
#800- AS/SPI "Counter Spi" Ionizer
#800- AS/SPI, Export Model

Emits alternating positive and negative Ions. This is a non-air assisted static eliminator (no blower-fan). No particle contaminant's are introduced into the chamber or glove box. This is a perfect device for working with fine powders and chemicals. Effective range is 36" (915 mm).

#800- HCB, Humidity Control Box
#800- HCB, Export Model

This device accurately controls and maintains Rh levels inside any our of chambers, isolators, or glove boxes.

NOTE: Order **#800-HCB/IG** for inert gas dehumidification applications.



#800- HCB/IG, Humidity Control Box
Rear View



Major NEW products !!

#800-CPS, Controlled Purge System
#800-CPS/EXP Export Model

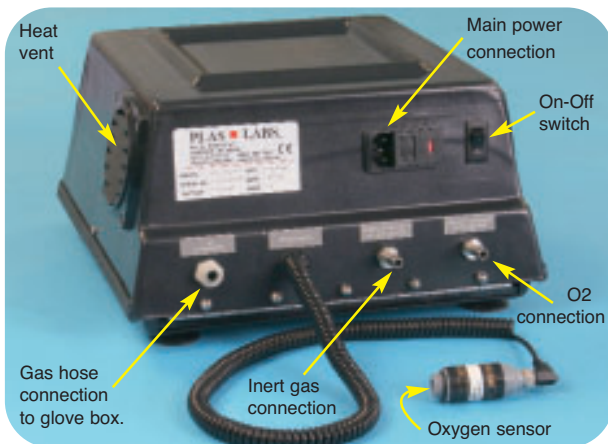
This device has been designed to monitor and control positive pressure within any of our glove boxes, isolators, or desiccators.

The unit features a programmable logic controller that continuously displays the chamber pressure as well as the desired "set point." Once you have entered your desired set point, (from 0.0 to +2.0" WC or 0 to +500 Pa), the controller will automatically maintain that point.



#800-CPS/O2 and #800-CPS/O2/EXP

This accessory is specifically for Oxygen use only.
It includes all the features of the basic unit above.



#800-CPS/O2 and #800-CPS/O2/EXP (rear view)

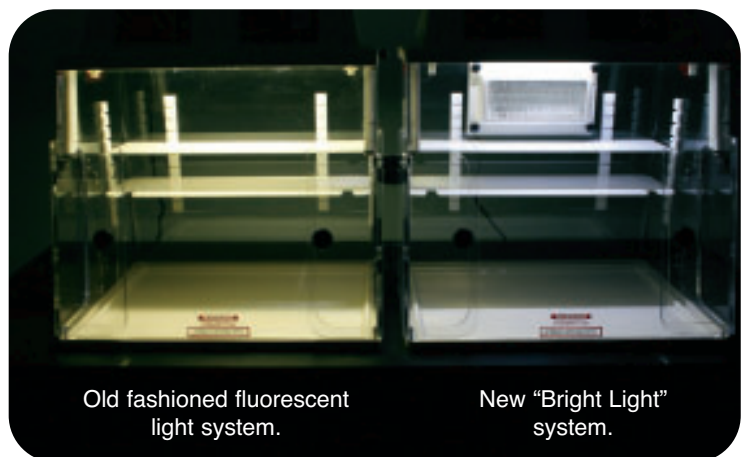


#800-BACTI (Microcinerator™)
#800-BACTI/EXP Export Model

The BACTI Microcinerator™ sterilizes metal loops and needles without the need for an open flame. **Aerosaling of micro-organisms is eliminated.**

The Microcinerator™ protects technicians from dangerous gases, flames and spatter. Loops or needles are sterilized within 5-7 seconds.

The ergonomic design reduces hand fatigue and allows the technician to access the burner from five (5) various positions. Suction cup feet provide great stability!



#800-BLS "Bright Light" System
#800-BLS/EXP Export Model

Our new "Bright Light" system is guaranteed to have a 40,000 hour bulb life. Illumination of the glove box or isolator is dramatically increased. Heat production is minimized making the unit much more comfortable in which to work.

Electrical requirements for all products this page:

North American: 115-120 Volts 60 Hz. 5 Amps.

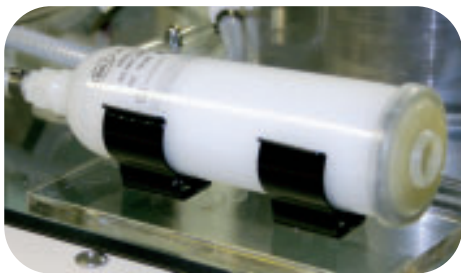
International (Export): 220-240 Volts 50 Hz. 2.5 Amps.

We offer HEPA filtration setups in several different configurations depending upon your application need. All setups include our **#800-MAGNA**, Magnehelic Gauge indicators.

HEPA filters can be in the following shapes:

- A. **Round. Catalog #800-H8.** Our standard "Multi-Purpose" filter.
- B. **Rectangular.** For PCR and special isolators.
- C. **Canister (Capsule). Catalog #800-HEPA/P.** For filtering pressure overflows.

NOTE: Our Carbon (Charcoal) filters can also be mounted onto our HEPA filters. Four (4) styles available. Refer to photo this page.



#800-HEPA/P Canister (Capsule style)

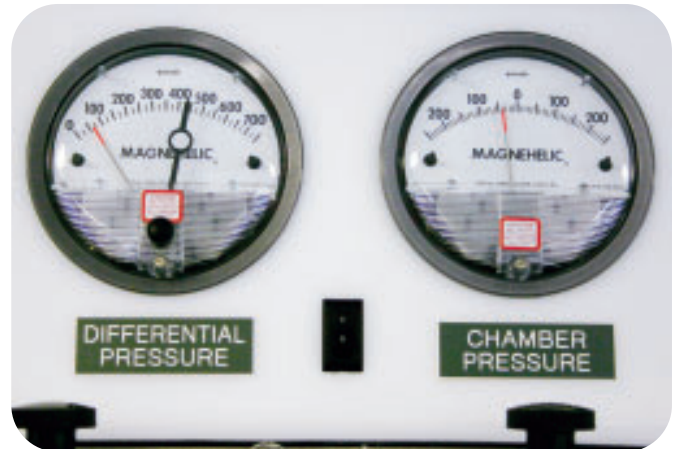
Can be used for chamber pressure overflow and/or mounted on our diaphragm pump.

Traps impurities before they can be exhausted into the room atmosphere.



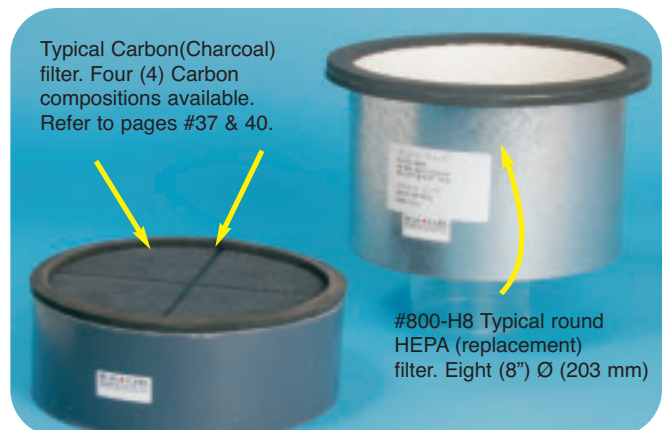
#800-HEPA/P mounted on #800-PUMP
For export use specify #800-PUMP/EXP

Electrical requirements for all products this page:
North American: 115-120 Volts 60 Hz. 5 Amps.
International (Export): 220-240 Volts 50 Hz. 2.5 Amps.



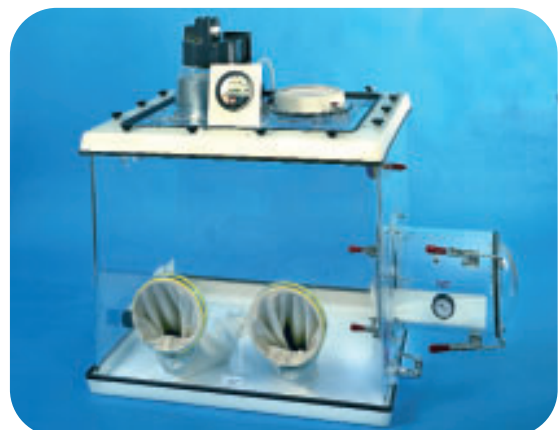
#800-MAGNA, Magnehelic Gauge-In Pascals (Export)
#800-MAGNA, Magnehelic Gauge-In Inches of H₂O

These gauges are used to monitor filter effectiveness and efficiency. They indicate when it is time to change your filter(s). Refer also to page #46 for more details on operation.



Typical Carbon(Charcoal) filter. Four (4) Carbon compositions available. Refer to pages #37 & 40.

#800-H8 Typical round HEPA (replacement) filter. Eight (8") Ø (203 mm)



#800-HEPA/S (Single filter typical set up)

The single filter set up includes 8"Ø (203 mm) HEPA filter, .4 µ micron pre-filter, blower (fan), mounting plates, and **#800-MAGNA set** (Refer also to page #37 & #46.)



#800-HEPA/S and #800-HEPA/S/EXP for export models (External view with exhaust outlet connector)



#800-HEPA/S with filter access door open
Internal view (When changing filters)

Additional Filtration components (not shown).

#CF-50/9 Carbon Filter "Spun Media" pad (9"Ø)
Color black. Twelve (12) per package.

#GF-50-B9 Glass media Filter Pad (9"Ø) Color pink, five (5 μ) microns. Twelve (12) per package.

#MF-50/9 Spun Polypropylene Pre-filter Pad (8"Ø) diameter. Color white, point four (.4 μ) microns. Twelve (12) per package.



#800-HEPA/D. Open exhaust (double) HEPA filtration system

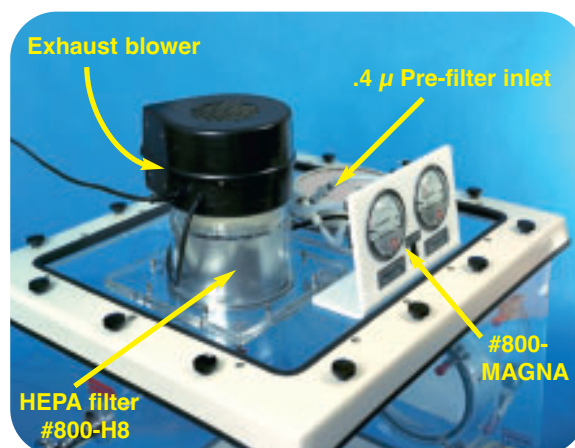
NOTE: Refer also to page #16 for more details on double HEPA filtration systems.

Special Carbon filter types available.

#800-CARBON/A Replacement Carbon Filter (8"Ø) (203 mm) diameter. One (1) per package. Impregnated Carbon Filter for alkaline type fumes.

#800-CARBON/B Replacement Carbon Filter (8"Ø) (203 mm) diameter. One (1) per package. Impregnated Carbon Filter for ammonia or amines.

#800-CARBON/C Replacement Carbon Filter (8"Ø) (203 mm) diameter. One (1) per package. Non-Impregnated Carbon Filter for absorption of aromatic hydrocarbons, organic vapors, keytones, alcohols, organic acids, esters, Nitrogen compounds, and odors.



#800-HEPA/S Typical single filter set up on the #830-SERIES glove boxes

Suspended (sliding) Shelf packages can be added to most of our various glove boxes, isolators and chambers. They greatly increase the culture plate holding capacity of the chamber.

Sliding shelves can be pushed to the rear of the chamber when not in use.

#800-SHELF-I, Suspended Sliding Shelf for Single Operator units. Plate capacity is about 340. Fabricated of .375 thick clear acrylic, with shelves spaced at 7" (178 mm) apart. The entire assembly is suspended from the chamber top to keep the floor area uncluttered. Overall size is 18" (457 mm) high x 18" (457 mm) wide x 10" (254 mm) deep.

#800-SHELF-II, Suspended Sliding Shelf for Multiple Operator units. Plate capacity depends upon model used. Fabricated of .375 thick clear acrylic, with shelf spacing 9" (228 mm) apart. The entire assembly is suspended from the chamber top to keep the floor area uncluttered. Overall size is 22" high (560 mm) x 16" deep (406 mm). Length depends upon chamber model selected.



#800-SHELF-II (Multiple Station Glove Box)

#800-SHELF-I, For chamber models #818-GB, #850-NB, #855-AC, #888-SIMPLICITY, and #890-THC.

Plate Holding Capacity if dish size is 100 x 15 mm.

Top tier capacity (5 plates high).	=	60 dishes
Tiers 2 & 3 capacity 12 plates high x		
12 = 144 x 2 shelves	=	288 dishes
Total shelf capacity	=	348 dishes

NOTE: If the area under the shelf assembly is to be used for additional plate storage, then add 84 more plates.

NEW!



#800-SHELF-830 (Shelf for #830-SERIES units)

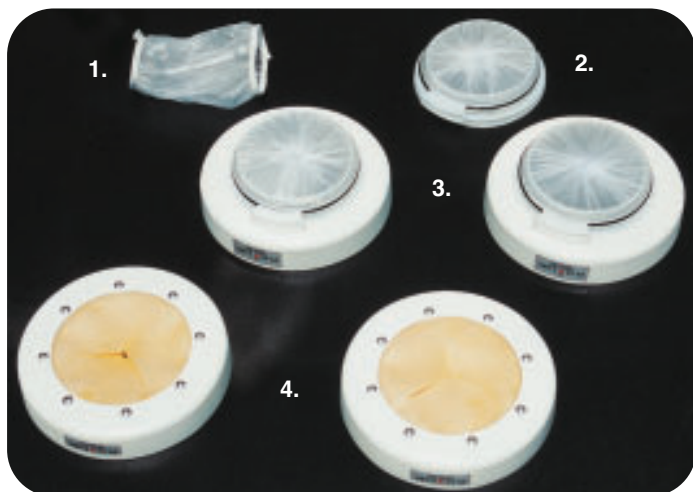
Suspended shelves for #830-SERIES glove boxes.

Catalog #800-SHELF-830 SUSPENDED SHELF.

The total number of shelves for the **#830-SERIES** glove boxes will vary based upon the overall size of the chamber selected. Once you have selected the #830 chamber size you want, contact us about the corresponding shelf size to fit.

The photo on left is a typical set up for the **#830-ABC** Compact Glove box. Each shelf has a capacity of fifty (50) Petri Dishes (plates), for a total 3 shelf capacity of 150. If plates are to be stored below the shelves, there is room for an additional forty (40) plates, making a total of 190 plates.

PLAS ■ LABS offers numerous variations for access to the internal environment of a glove box or isolator.



Did you Know?
These Bare Hand entries can be mounted on any glove box or isolator.

1. #800-IRIS/S

REPLACEMENT IRIS SLEEVES and CUFFS. Refer to **#800-IRIS** for description.

2. #800-IRIS

IRIS DIAPHRAGMS (UNMOUNTED). A flexible cuff is rotated to tighten around the operators arms. Opening diameter is 6" (152 mm) I.D. Sold in pairs only.

3. #800-IRIS/CONV

IRIS DIAPHRAGMS CONVERSION SET. Iris diaphragms are mounted on formed plastic caps that fit over our standard glove port rings. Twist into place. Sold in pairs only.

4. #800-BH/CONV

BARE HAND ENTRY PORT CONVERSION. These ports are 8"Ø (203 mm) in diameter and consist of five (5) pleats of flexible Hypalon™. Sold in pairs only. Ten (10"Ø) diameter (524 mm) ports are also available.

NOTE: #800-IRIS/MOUNT

FACTORY MOUNTED IRIS DIAPHRAGMS. Refer to **#800-IRIS** for description.

GLOVE PORT PLUGS



#800-PLUG & #815-PLUG (La Petite Unit)

Plug Applications

#800-PLUG & #815-PLUG Glove Port Plugs are used for sealing ports during:

- Glove change over.
- Bare-hand entry change over.
- Iris diaphragm change over.
- When ports are not needed.



Insert plug into port opening and rotate red knob (tighten) until port is sealed.

When your research requires inner atmosphere purification and/or sterilization, we have the answer for your needs. Particle filtration, harmful vapors, or just static removal devices are readily available for your glove box or isolators.

Our sterilants and cleaners are all F.D.A. approved.

There are several commercially available sterilizing agents and technologies that can be used on our cast acrylic isolators and glove boxes. These include:

- CLIDOX-S™ Sterilant by Pharmalabs™.
- Chlorine Dioxide Gas Tablets (MB-10 Tablets by QUIP Labs™).
- Formaldehyde.
- Diluted isopropyl alcohol. 70% (v/v) in water (Bactericide).
- Diluted ethyl alcohol (Virucide).
- Chlorine (sodium hypochlorite) 5 g/Liter

NOTES about our new Carbon filter types and set up.



Typical Carbon Filter for glove boxes and isolators. Refer to notes this page.



Typical Carbon Filter for glove boxes and isolators. Refer to notes this page.

Planning on using "VHP"
sterilization equipment?



#818-GB/SPCL for use with a VHP sterilizer

NOTE: "VHP" sterilization requires a special plastic, such as clear PVC or PETG. "Banjo™" style purge fittings are included with the glove box.



Close up of "BANJO™" style purge fitting
Catalog #800-BANJO. Refer to page #46.

Carbon Filter Specifications and Types.

- **#800-HEPA/CARB.** Combination HEPA and Non-Impregnated Carbon absorbs most aliphatic and aromatic hydrocarbons, solvents, organic vapors, aldehydes, ketones, alcohols, organic acids, esters, sulfur compounds, and odors.
- **#800-CARB (A).** Impregnated Carbon filter for alkaline type fumes.
- **#800-CARB (B).** Impregnated Carbon filter for ammonia or amines.
- **#800-CARB (C).** Non-Impregnated Carbon filter for absorption of aromatic hydrocarbons, organic vapors, ketones, alcohols, organics acids, esters, Nitrogen compounds, and odors.



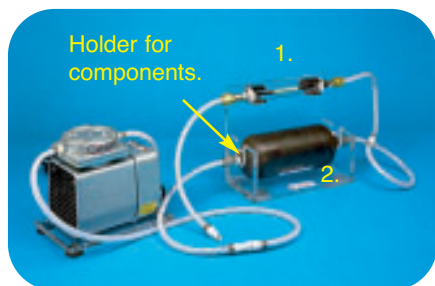
#800-HEATER & #800-PC
Specify Export or Domestic

#800-HEATER (1.), Catalyst Heater Unit

Maintains correct incubation temperature levels and helps reduce trace amounts of Oxygen in the glove box. Includes **thermocouple (2.)** for temperature sensing. Place thermocouple at your desired height inside chamber.

#800-PC (3.) **Palladium Canister** filled with 1/2 Lb. of Palladium (Pd). Canisters sold separately.

The heater draws the internal atmosphere off the floor and pushes it up across heating elements and Palladium pellets. Any trace amounts of Oxygen are then reduced into water (H₂O) vapor. The Drying Train #800-DT (see below) then removes the vapor as needed.



#800-ONEG Oxygen Removal System
#800-PUMP Pump not included

#800-ONEG includes O₂ indicator (1.) Oxygen Trap (2.) hoses and plastic holder.

#800-ONEG reduces O₂ level down to 10-12 ppb. Must order as a set only.

NOTE: Glove box must be made anaerobic before attaching this system.



#800-DT Drying Train with Pump
Specify Export or Domestic

#800-DT removes unwanted moisture (H₂O) from the internal atmosphere of the glove box. Includes pump, hoses, and three (3) canisters filled with Molecular Sieve™ (#800-DESI).

#800-DESI includes three (3) canisters filled with Molecular Sieve™ and hoses with quick disconnects. Pump not included.



#800-PUMP (Diaphragm type)
Specify Export or Domestic.

#800-PUMP, Diaphragm pump mounted on a .375" plastic base with suction cup feet for stability.

Includes an in-line on/off switch and five (5) feet of flexible hose. No quick disconnects.

Electrical requirements for all products this page:

North American: 115-120 Volts 60 Hz. 5 Amps.

International (Export): 220-240 Volts 50 Hz. 2.5 Amps.

Additional Items for Filtration.

- #CF-50/9 Carbon filter pad, 9"Ø (228 mm). "Spun Media" color black. Twelve (12) per package.
- #GF-50-B9 Glass media Filter Pad 9"Ø (228 mm) Color pink, (5 µ) microns. Twelve (12) per package.
- #MF-50/9 Spunbound Polypropylene pre-filter, 9"Ø (228 mm), color white, 0.4 µ non-hygroscopic. Twelve (12) per package.



#800-Cart III

These carts are very useful for increasing portability and laboratory space.

All carts have anti-scuff casters including brakes and locks. Carts also feature a cushioning system that minimizes vibration, shocks, and wear and tear on chambers.

Most carts feature horizontal gas tank support racks which provide greater tank handling safety and flexibility.

Also available in a "knocked down" (unassembled) version. See information below.



#800-CART GB
with gas tank support racks

PRODUCT NUMBER	CART DESCRIPTION	SIZES (O.D.)
CART-GB	For #GB, #NB, #AC Units	51"w x 24"d x 35" h
CART-GBB	For #GBB, #NBB, # ACB Units	55"w x 34"d x 35" h
CART-ABC	For #ABC Glove Box	43"w x 24"d x 34" h
CART-ABB	For #ABB Glove Box	49"w x 30"d x 34" h
CART-ABD	For #ABD Glove Box	63"w x 31"d x 34" h
CART-ABE	For #ABE Glove Box	76"w x 32"d x 34" h
CART-CLC	For #870 sized units	55"w x 34"d x 31" h

Custom Sizes and Designs available



Kit includes: Main base frame, casters, uprights, and top.



Insert casters and tighten.



Force fit the four legs (uprights).



Place top on four legs & press into place.



#800-Cart KD

SAVES SHIPPING COSTS!

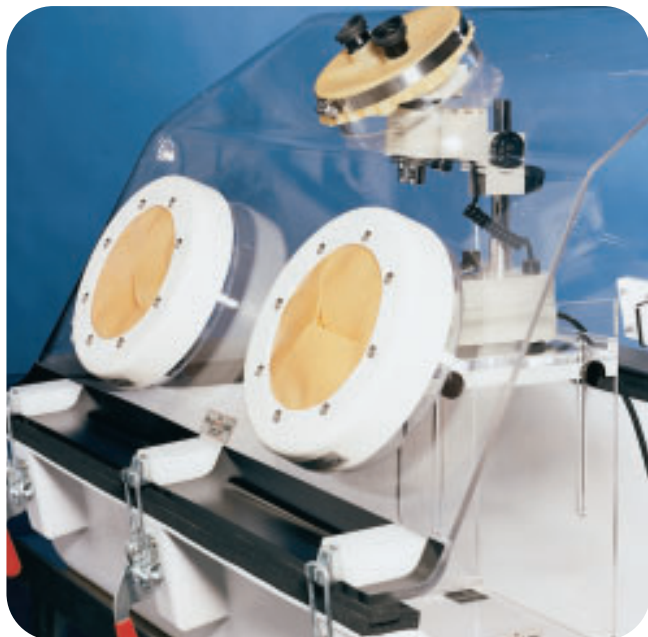
STAINLESS STEEL "KNOCKED DOWN" CART (TROLLEY)

The Knocked Down Cart (Trolley) size is 40" (1016 mm) w x 24" (610 mm) d x 34" (864 mm) h.

Visual inspection of your research components can be made without removing them from the isolator or glove box.

Our new inspection lens and microscope port accessories can be factory mounted on the viewing surface of any unit we manufacture.

Refer to the photo on the right.



#800-MICRO and #800-BH/CONV

#800-MICRO MICROSCOPE VIEWING PORT is 6.25" Ø (159 mm) and includes the port, Hypalon™ cover, and stainless steel worm clamp. The Hypalon™ cover allows the microscope oculars to protrude from the chamber to permit exterior viewing of your research materials. Specify single or double oculars.

#800-HYCOV REPLACEMENT COVER for the **#800-MICRO**. Sold in pairs only. One with ocular hole(s) and one without for use when the microscope is not needed. Specify your preference when ordering.

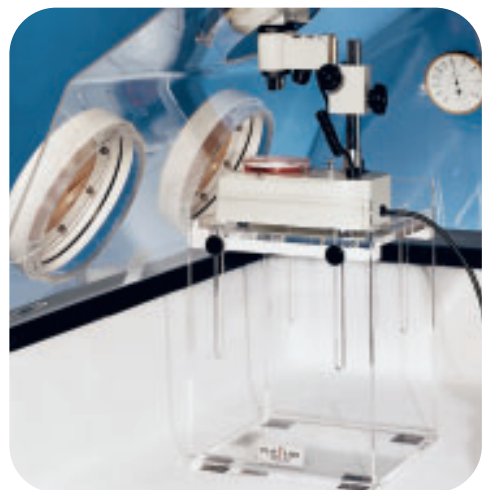
#800-BH/CONV BARE HAND CONVERSION KIT.
Refer to page #39 for complete details.

NEW ITEM!



#800-I/LENS (Inspection Lens)

The new inspection lens is rated having a focal length tolerance of $\pm 1\%$ at 11.8" inches (300 mm). The diameter of the lens is 6" (152 mm). This is a "fused silica" glass lens of extremely high optical quality. Factory mounted only.



#800-STAND

The #800-STAND has an adjustment span of 9" (228 mm) and is 16.5" (420 mm) high. The base has non-slip foot pads and is 8" x 10" (203 x 254 mm).

Material selections.

PLAS ■ LABS offers one piece gauntlet style gloves in four (4) different materials. They are:

1. Butyl™ **Catalog #800-GB-Series** (Not shown).
2. Hypalon™ **Catalog #800-GH-Series.**
3. Latex **Catalog #800-GLLP-Series.**
4. Neoprene™ **Catalog #800-GN-Series.**

Refer to photo on right.

We also offer glove box sleeves with replaceable hands. The four (4) different hand materials are:

1. Butyl™ **Catalog #800-GA-BUT-Series.**
2. Hypalon™ **Catalog #800-GA-HYP-Series.**
3. Neoprene™ **Catalog #800-GA-NEO-Series.**
4. Nitrile™ **Catalog #800-GA-NIT-Series.**

Refer to photo below.



One piece gauntlet style gloves



Replaceable hands for gauntlet sleeves

NOTES: The **#800-GH** Hypalon™ glove is the standard glove used on most Plas ■ Labs products.

The **#800-GLLP** (latex glove) is the primary glove used on the La Petite glovebox (Catalog **#815-PG**).

Some port diameters are available in three (3) sizes ranging from 7" Ø (178 mm) to 10" Ø (254 mm).

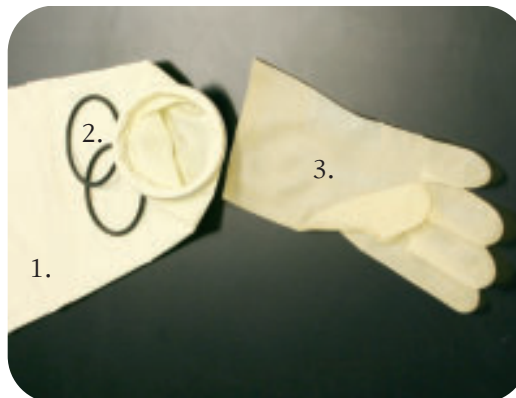
Hand sizes are also available varying in size from 7" Ø (177 mm) to 10" Ø (254 mm).

Refer also to the gloves/hands data chart for additional details. Refer to page #45.

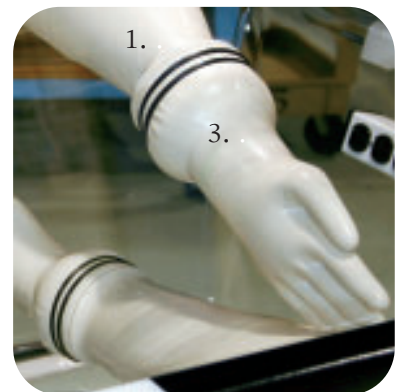
Glove box sleeve with replaceable hand set up. Components are:

1. Typical sleeve with mounting cuff. **Catalog #800-GH/S.**
2. "O" rings for sealing glove to sleeve.
3. Hand (glove) replacement. **Catalog #800-GA/NIT.**

Note: Nitrile hand component illustrated (Both photos). Other hand materials available.



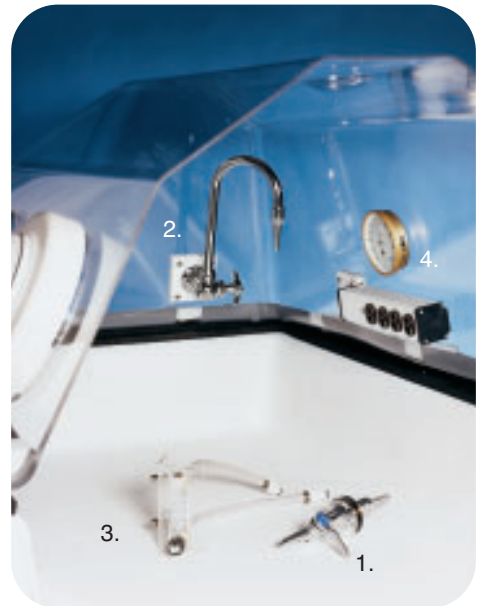
Replaceable hand set up with gauntlet sleeve



Assembled hand/sleeve set up

Various valves, gauges, and meters can be added to any glove box, isolator, or desiccator. These are normally mounted in standard locations, but we can easily change set ups depending upon your own preferences.

1. **#800-IN/OUT. COMPLETE VALVE PACKAGE** (Unmounted). Includes ground key cock valve, with flanges, and inner/outer serrated nipples.
2. **#800-GOFAU. GOOSE NECK WATER FAUCET.** Factory mounted internal faucet has a swivel goose neck for convenience. Useful for controlling water supply into the chamber. Includes serrated nipple and flange for easy hose connection.
3. **#800-FLOW. FLOW METER KIT.** Helps regulate gas flow at lower incoming pressures. Kit includes flowmeter, mounting bracket, hoses and ring clips. **Range "0 -10 LPM."** Refer to photo below also (#3).
4. **#800-HYGRO. HYGROMETER** (Large). Indicates inner level of chamber Relative Humidity (Rh).

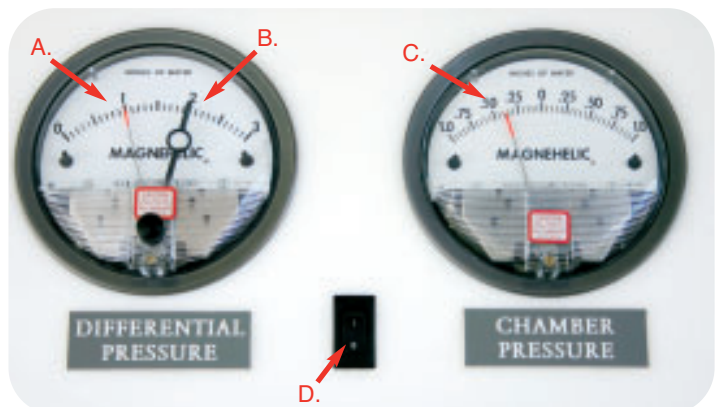


5. **#800-FLOW/D. SMALL FLOW METER** used for smaller chambers and desiccators. Helps regulate gas flow at lower incoming pressures. Kit includes flowmeter, mounting bracket, hoses and ring clips. **Range "5-50 SCFH."**
6. **#800-BANJO. BANJO™ TYPE FITTINGS** for use with VHP sterilization equipment and procedures. O.D. is 1.375" (35 mm). I.D. is .875" (23 mm).
7. **#800-NLP. SERRATED NIPPLE ONLY.** Normally attached to the **#800-VALVE** on the inside of the chamber.
8. **#800-VALVE. GROUND KEY COCK VALVE** (Only). Valve with flange can also be mounted on a 90° elbow if desired. Specify N₂ or VAC (Vacuum) valve label.
9. **#800-PRV. PRESSURE RELIEF VALVE.** Minimizes the chance for chamber implosion or explosion because of incorrect pressure level.

#800-MAGNA. Magnehelic Gauge Package.

These Magnehelic gauges indicate the internal pressure levels of the HEPA filter system and the internal pressure of the glove box.

- A. This **RED** pointer indicates when it is time to change the HEPA filters.
- B. When the **RED** pointer lines up with this "set pointer," it is time to change the HEPA filters.
- C. This **RED** pointer will change because of HEPA filter variations in resistance.
- D. This is the main electrical power (On/Off) switch.



#800- MAGNA Magnehelic Gauge Package (H₂O)

Numerous systems are available for gaining access into any glove box or isolator. Some of these can be set up so as not to disturb the interior atmosphere of the chamber.



#800-BLANK/P BLANKING PLATE PORT

#800-BLANK/P BLANKING PLATE PORT. Useful for attaching special cables and plugs. This kit includes a blank aluminum plate, fastening stainless steel nuts, bolts, and sealant. The blank plate itself is ready for machining as necessary by the end user. The hole cut out is 6" x 3" (152 x 76 mm) and the blank plate is 4.5" x 7.5" (190 x 114 mm).

NOTE: Other sizes can be requested (Special quote).

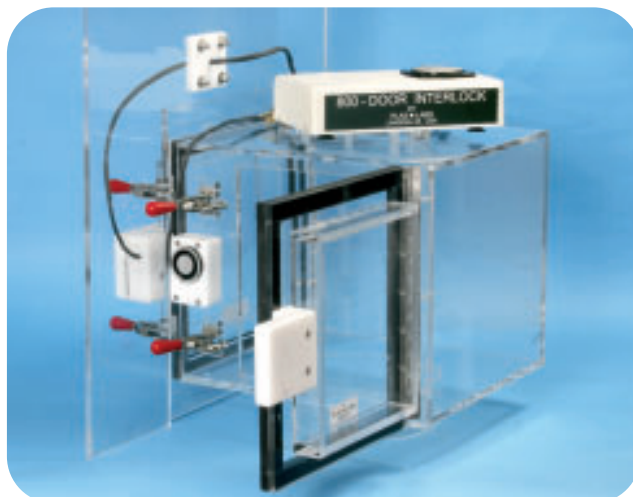


#800-CMPTR COMPUTER INTERFACE KIT

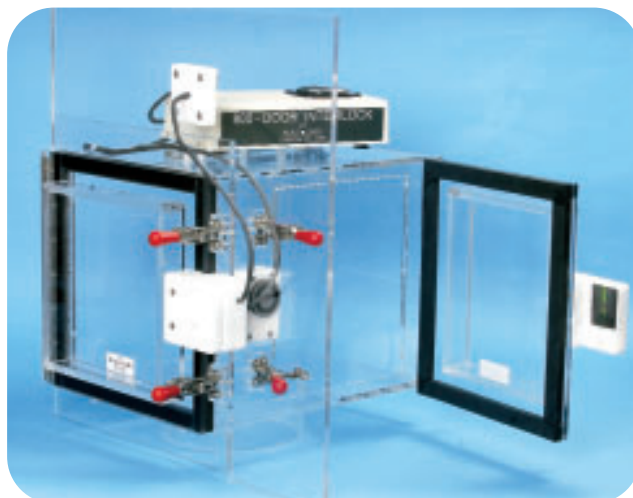
Permits interface connection between internal devices and your external computer. Kit includes stress relief plates, shielded computer cable (8 feet), stainless steel fasteners, and RS-232 connectors.

NOTE: Other connectors can be supplied.

THE NEW "INTERLOCK SYSTEM" for Transfer Chamber doors.



#800-DOOR/LOCK AUTOMATIC DOOR LOCK SYSTEM
Exterior door open and inner door locked



#800-DOOR/LOCK AUTOMATIC DOOR LOCK SYSTEM
Exterior door open and inner door locked

This automatic door locking system prevents both transfer chamber doors from being opened at the same time. The interlock system does not work unless one door is opened. If one door is opened, the other door is locked in five (5) seconds. The locking mechanism is rated at 120 Lbs of force. This is for operator safety. It operates on a 12 volt system. Power supply is included.

Electrical requirements for this system:

North American: 115-120 Volts 60 Hz. 1 amp.

International (Export): 220-240 Volts 50 Hz. 1 amp.

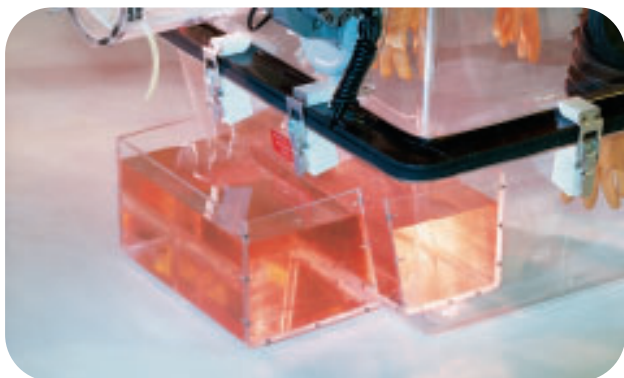
"No project is too small !"

PLAS ■ LABS offers a variety of unique miscellaneous accessories for our glove boxes, isolators, and chambers. All accessories are easily adaptable to standard or customized research equipment.

If you are doing research requiring unique enclosures, please contact us. We might be able to assist you in your research efforts.

"New Dip Tank"

#800-TANK, GERMICIDAL DIP TANK. Useful for quick entry into and out of the chamber. A "deep draw" bottom section of the chamber is required for this accessory. Package includes inner and outer tank with stainless steel exterior lid. Fill the tank with germicidal solution to sanitize items being introduced into the chamber.



#800-TANK, GERMICIDAL (DIP) DUNK TANK

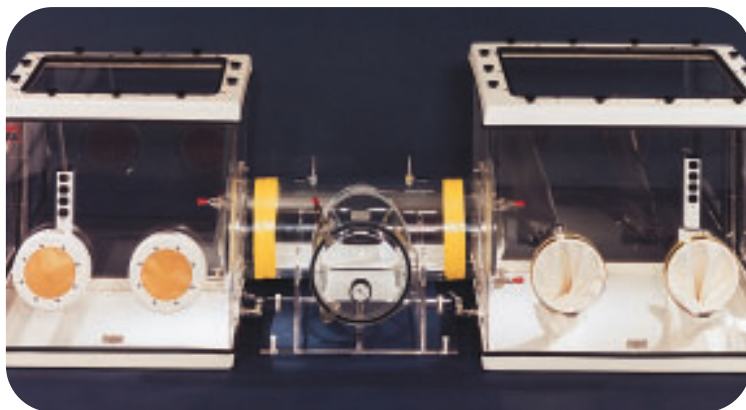
#800-GTREG, Gas Tank Regulator. Regulator features two stainless steel diaphragms that will not contaminate the gas stream and is resistant to in-board diffusion. The design also features low dead volume (internal volume), which minimizes particle generation. Kit includes 5 feet of hose, (.250 I.D. x .500 O.D.) and attachment clamp.



#800-GTREG

Very useful for scaling down high pressure levels prior to reaching flow meters. Domestic (US) thread styles only.

#800-T, "T" SHAPED TRANSFER CHAMBER. This is used for connecting two (2) glove boxes together. Included in the kit are a leveling support stand, one (1) extra vacuum gauge, two (2) extra gas key cock valves, two (2) leveling trays for liquids, and connecting tape. The center section has its own access door with stainless steel locking clamps.



#800-T, "T" SHAPED TRANSFER CHAMBER



#800-02, OXYGEN INDICATOR-ICS

#800-02, OXYGEN INDICATOR. A small hand held device to monitor Oxygen levels inside the chamber. It is battery operated and has an effective reading range of 0-100%.



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