

# CHAMBERS AND GLOVE BOXES

## CLOSED LOOP CONTAINMENT ISOLATOR FOR MULTIPLE OPERATORS



The #870-CLC “Closed Loop” Isolator is a completely automated negative pressure containment glove box.

The system is engineered and programmed to maintain a slight negative working pressure to ensure containment of your specimens (-0.5” of H<sub>2</sub>O). The internal atmosphere is continually filtered by two (2) HEPA filters. Filters are rated at 99.9997% efficiency and can be changed over from within the isolator for safety. During change over, contaminated filters do not come into direct contact with the operator.

These isolators may be coupled together in train for multiple station work processes. They can be set up for up to four (4) sets of glove ports (operators). Two operators on both the front and back walls.



#870-CLC with Stainless Steel Support Cart  
#870-CLC/EXP Export Model with Trolley

### Basic features of the CLC Isolator.

- Effective containment of potentially hazardous toxins, organisms, and other materials etc.
- A completely sealed containment unit with automatic negative pressure control.
- Large, easy to read control panel with digital controllers and bright LED status lights.
- Easy (and safe) to change, inlet and outlet HEPA filters. Filters can be incinerated after use.
- Easy to clean highly radiused corners.
- Stainless steel support cart (trolley) with gas tank support tracks for safety.
- Clear plastic top and bottom section. Bottom is formed of high impact resistant plastic.
- “Bright Light” illumination system with a 40,000 hour lamp guarantee.
- Two (2) pairs of white ambidextrous Hypalon™ gloves.
- Manual house exhaust valve for emergency venting of the isolator.
- Electrical outlet (socket) strip (UL, CSA, & CE).
- Four (4) ground key cock valves for purging.
- Standard twenty-four (24) month warranty (Not gloves or consumables).

Product Details	#870-CLC & #870-CLC/EXP
I.D.	56”W x 35”D x 27” high 1,423 mm x 890 mm x 690 mm h
O.D. (Includes Transfer Chamber)	82”W x 47”D x 53” h 2,080 mm x 1,190 mm x 1,350 mm h
Approximate Volume of Isolator.	40 Cubic Feet 1,157 Liters
Approximate shipping weight of isolator & Cart. Two (2) Crates.	Isolator @ 300 Lbs. 136 Kilos. Cart (Trolley) @ 140 Lbs. 64 Kilos

### Electrical requirements.

North American 115-120 Volts, 60 Hz. 10 Amps.  
Export Models 220-240 Volts, 50 Hz. 5 Amps.

**NOTE:** Activated Carbon (charcoal) filters are also available for this unit. Four (4) different compositions can be used. Refer to Catalog Accessories Section and contact us for details.

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#870-CLC & #870-CLC/EXP (Close up of top shroud)

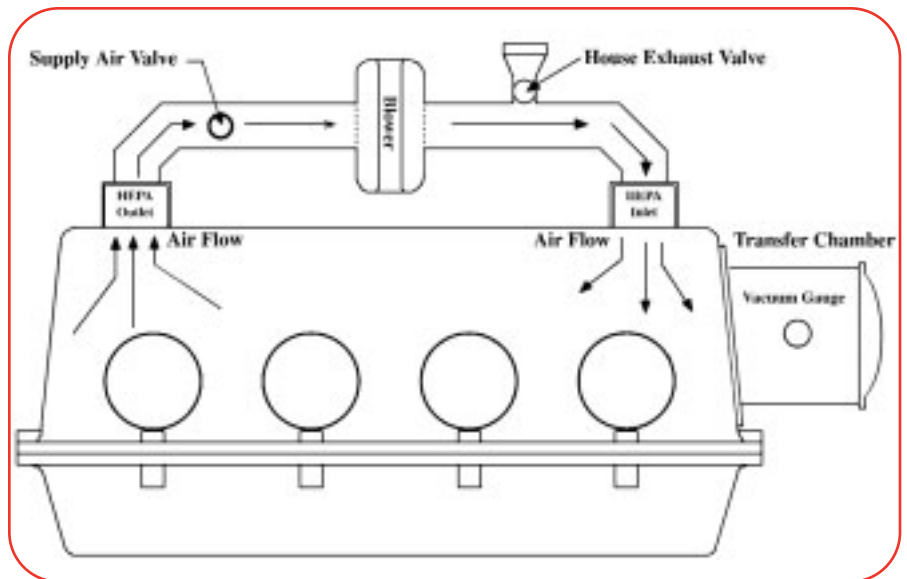
## Working with fine powders and chemicals?

The #800-AS/SPI Ionizer emits both negative and positive ions. The non air assisted static eliminator does not cause any air turbulence because there is no internal fan (blower). No particle contaminant's are introduced into the isolator. It is perfect for working with fine powders and chemicals.

Refer also to page #34.



#800-AS/SPI (Anti-Static unit)  
#800-AS/SPI/EXPORT Model



#870-CLC Atmosphere Flow Schematic (Front view)

### How the isolator works:

If the internal negative pressure rises above  $-0.55''$  of W.C, the programmable logic controller automatically opens the atmosphere supply valve. Incoming (make-up) gas is automatically filtered through the inlet HEPA filter.

Once the internal atmosphere reaches your preferred set point, the automatic valve closes. The isolator also includes a manual "ball valve" for connection to your house exhaust/filter system.

### Electrical requirements.

North American 115-120 Volts, 60 Hz. 1 Amp.  
Export Models 220-240 Volts, 50 Hz. .5 Amps.