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Aseptic Isolators



Environments For Science™



Compounding Aseptic Isolators



A level of safety that is built in, not bolted on, to provide both personnel and product protection

- Offers a contained, pressurized work area for pharmacy applications
- One of the most comfortable isolators in the industry, with oval gloveports that offer easy reach to interior surfaces, and adjustable height stand
- Slanted, top-hinged viewscreen allows for full opening for loading and unloading of pharmacy instrumentation or equipment
- HEPA-filtered, unidirectional airflow with better than ISO Class 5 (Class 100) air cleanliness conditions to prevent contaminants from entering the work area
- Combines industry-leading airflow technologies with exceptional design and ergonomic features to improve worker comfort and increase productivity

ChemoSHIELD® and SterilSHIELD®

Designed for aseptic pharmaceutical compounding

- Industry-Leading Airflow Technology Provides Superior Sterility
- Ergonomic Features Maximize User Comfort and Ease of Use
- Construction and Craftsmanship of the Highest Standard
- Plenum Design Optimizes Protection and Extends Filter Life
- Microprocessor-Based Control Board Simplifies Operation*
- StediVOLT® Motor Speed Controller Maintains Precise Airflow*
- Utilities Designed for Convenience, Practicality, and Safety



A viewscreen top hinge allows full opening for loading of instrumentation or equipment.



A viewscreen top hinge allows full opening for loading instruments or equipment. The viewscreen is locked to prevent unauthorized opening.

*Not available on ChemoSHIELD®

ChemoSHIELD®

A Compounding Aseptic Containment Isolator (CACI) designed for the containment of hazardous chemotherapy and other agents and IV admixtures

ChemoSHIELD® negative pressure compounding aseptic containment isolators offer a contained, leak-tight (tested to AGS standard), negative pressure work area suitable for hazardous pharmaceutical compounds, chemotherapy agents or IV admixtures that can be harmful to pharmacy personnel.

ChemoSHIELD creates a unidirectional HEPA-filtered airflow of better than ISO Class 5 (Class 100) air cleanliness conditions within the negative pressure chamber to prevent migration of hazardous contaminants to the outside and to minimize cross-contamination across the direct compounding area.

ChemoSHIELD has no onboard motor/blower to maintain and service. All static pressure and airflow is supplied by the building exhaust system.



Uncompromised Safety and Performance

- The industry-leading design features of ChemoSHIELD allow it to provide sterile interior conditions while also increasing personnel protection from exposure.
- A spacious, negative pressure pass-through chamber allows safe and easy transfer of materials into or out of the main chamber.
- Supplied gloves and glove sleeves are ASTM D6978 tested for use with chemotherapy drugs.
- A hinged viewscreen allows for easy loading of instruments and equipment.
- Ambidextrous gloves are positioned in the main chamber to allow total access to the interior.
- The pass-through door also includes one ambidextrous glove to permit manipulation of contents or surface decontamination of items moved to or from the main chamber.

HEPA-Filtered Interlock Permits Secure Pass-Through In and Out of the Work Area

- Pass-through door to the main work area swings open for easy transfer of materials between the interchange and main chamber.
- The clear-view outer interlock door is left-hand swinging. The door seals against peripheral gaskets to maintain internal negative pressure. This door opens only when inner chamber door is closed.
- The pass-through door to the main work area swings open while under negative pressure. This door opens only when the outer door is closed.

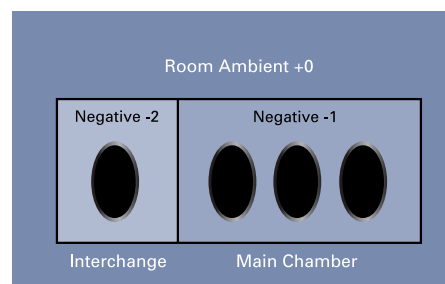
Cabinet Containment, Personnel and Product Protection

The isolator pass-through and main chamber pressure are negative to the room. In the standard configuration, the pass-through is slightly more negative than the main chamber to prioritize cleanliness in the main chamber while ensuring containment of hazardous compounds throughout the isolator. The pass-through door and inner chamber door are mechanically interlocked to prevent both doors from being opened simultaneously.

- Individual supply and exhaust HEPA filters service the main chamber and interchange.
- Exhaust filters are safely and easily removed via bag-out provision to contain hazardous compounds prior to disposal.
- A stainless steel air diffuser in the main chamber and pass-through offers additional protection to supply filters.
- Key lock on cabinet front prevents unauthorized opening of fully-hinged front viewscreen that may compromise containment capability or aseptic environment.
- Mass airflow monitor audio/visual alarm system warns the user when the exhaust system has inadequate airflow.

Optimized Interior Work Space, Plus Simplified Cleaning

- All interior surfaces of the main chamber and pass-through are made of durable stainless steel for superior corrosion resistance.
- Back and side walls are polished to a non-glare, easy-to-clean finish.
- Interior surfaces can be accessed via glove ports for sanitization.
- The interior cabinet's radius corners permit easy wipe down.
- The sectional work surface trays are fully removable. Trays stack easily to either side to simplify cleaning and filter changes.
- Exterior, scratch-resistant, powder coat finish provides the durability required in pharmacy environments.



The isolator pass-through and main chamber pressure are always negative to the room, providing superior containment.

Pharmacy Resource Center

Over a decade ago, the United States Pharmacopeia issued Chapter 797 "Pharmaceutical Compounding – Sterile Preparations" (USP <797>), which provides the guidelines, procedures and compliance requirements for compounding sterile preparations and sets the standards that apply to all settings in which sterile preparations are compounded. With the addition of USP <800> "Hazardous Drugs – Handling in Healthcare Settings," our resource center has been prepared to help you stay current on the latest issues about aseptic preparation of hazardous and non-hazardous drug products.



Scan the QR code to learn more or [click here](#).

SterilSHIELD®

A Compounding Aseptic Isolator (CAI) designed for aseptic compounding of non-hazardous pharmaceuticals

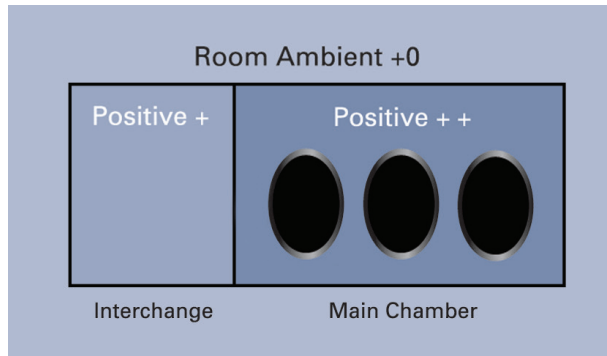
SterilSHIELD® positive pressure compounding aseptic isolators (CAIs) offer a contained, positive pressure work area suitable for non-hazardous pharmaceutical compounding.

SterilSHIELD creates a unidirectional HEPA-filtered airflow of better than ISO Class 5 (Class 100) air cleanliness conditions within a positive pressure chamber to provide superior sterility and to minimize cross-contamination.

Pressure Balance Ensures Product Protection

The isolator main chamber pressure is positive to the room, ensuring no room contaminants can enter the work area. Additionally, the main chamber is slightly more positive than the pass-through to maintain aseptic conditions in the main chamber.

- Full-ceiling, front-loading HEPA supply filter is 99.99% efficient; provides better than ISO Class 5 (Class 100) air within the pass-through and main working chambers.
- Unidirectional downward airflow purges airborne particulates from the work area.
- Stainless steel air diffuser in the main chamber and pass-through provides unidirectional airflow and protects the HEPA filter.



The Isolator main chamber pressure is positive to the room. The main chamber is slightly more positive than the pass-through interchange to ensure aseptic conditions within the main chamber.



Plenum Design Optimizes Protection and Extends Filter Life

SterilSHIELD® employs a unique, high performance airflow system that provides optimum protection from particulates, extends filter life and reduces cost of ownership.

- The filter configuration creates internal unidirectional airflow from top to bottom that sweeps particulates from work area. The filter cross section covers 100% of the work area.
- The unique plenum apports and distributes air across, then through the HEPA supply filter, improving downflow uniformity, extending useful filter life and reducing noise.
- The filter mount provides a direct seal of the filter to the plenum and simplifies filter replacement.

HEPA-Filtered Pass-Through In and Out of the Work Area

- The outer pass-through door is constructed of clear-view shatterproof acrylic plastic and opens with a left-hand swing. (SterilSHIELD 800 has doors on both ends; the left door swings left and the right door swings right.)
- A convenient lift-up sash opens to 8" to permit quick transfer of small items without opening the door.
- The outer door seals against peripheral gaskets to maintain internal positive pressure.
- The internal pass-through door lifts vertically for maximum use of space and permits easy transfer of materials in or out of the positive pressure work area.

*NOTE: SterilSHIELD® is not intended for use with biologically hazardous materials.

Baker Aseptic Isolators Performance Summary

	Pressure	Sterility	Containment	Environmental Protection	Downflow	Exhaust
ChemoSHIELD®	Negative to room	Yes	Yes	Protects from particulates. Protects from vapors/gases if connected to a treated exhaust system.	HEPA	HEPA-filter to facility exhaust
SterilSHIELD®	Positive to room	Yes	No	No		Vented to room

Summary Specification

MODEL NUMBER	CS500	CS600
Size	5' [1.5 m]	6' [1.8 m]
Electrical Service Requirements	115V AC, 15A, 60Hz, 1 PH 220V, 16A, 50/60Hz, 1 PH	115V AC, 15A, 60Hz, 1 PH 220V, 16A, 50/60Hz, 1 PH
Interior Dimensions (Pass-Through)	17 ½" W x 24" D x 25" ⅜ H [445 x 610 x 644 mm]	17 ½" W x 24" D x 25" ⅜ H [445 x 610 x 644 mm]
Interior Dimensions (Main Chamber)	31" W x 24" D x 25" ⅜ H [787 x 610 x 644 mm]	46" W x 24" D x 25" ⅜ H [1168 x 610 x 644 mm]
Exterior Dimensions, Nominal	60" W x 35 ¾" D [1524 x 908 mm]	75" W x 35 ¾" D [1905 x 908 mm]
Net Weight	570 lbs [259 kg]	650 lbs [295 kg]
Ship Weight	660 lbs [299 kg]	815 lbs [370 kg]

Options and Accessories

Many options, accessories and modifications are available and should be specified when ordering. Commonly requested options are listed below. For detailed information on accessories and modifications, contact us.

- Ergonomically adjustable footrest (field installed)
- Seismic restraints (field installed)
- IV bar
- ULPA filters
- Floor and wall anchors
- Hydraulic lift stand
- Airtight damper
- Black iron plumbing (voids UL)
- Replacement gloves/sleeves that meet ASTM D 6978

Summary Specification

MODEL NUMBER	SS400	SS500
Size	4'	5'
Electrical Service Requirements	115V, AC and 220V, AC	115V, AC and 220V, AC
Amps (Total)	20 / 16	20 / 16
Interior Dimensions (Pass-Through)	14 ½" W x 21 ⅛" D x 26 ½" H [368 x 537 x 673 mm]	18 ½" W x 20 ⅝" D x 26 ½" H [470 x 537 x 673 mm]
Interior Dimensions (Main Chamber)	31 ⅜" W x 21 ⅛" D x 26 ½" H [797 x 537 x 673 mm]	39 ⅜" W x 20 ⅝" D x 26 ½" H [1000 x 524 x 673 mm]
Exterior Dimensions, Nominal	53 ¾" W x 33 ¼" D x 59 ⅛" H [1365 x 845 x 1516 mm]	65 ¾" W x 33 ¼" D x 59 ⅛" H [1670 x 845 x 1516 mm]
Net Weight (includes stand)	650 lbs [295 kg]	698 lbs [317 kg]

MODEL NUMBER	SS600	SS800*
Size	6'	8'
Electrical	115V, AC	115V, AC
Amps (Total)	20 / 16	20x20, 2x16
Interior Dimensions (Pass-Through)	18 ½" W x 20 ⅝" D x 26 ½" H [470 x 537 x 673 mm]	14 ½" W x 21 ⅛" D x 26 ½" H (x2) [368 x 537 x 673 mm]
Interior Dimensions (Main Chamber)	51 ⅜" W x 20 ⅝" D x 26 ½" H [1305 x 524 x 673 mm]	31 ⅜" W x 20 ⅝" D x 26 ½" H (x2) [797 x 537 x 673 mm]
Exterior Dimensions, Nominal	77 ¾" W x 33 ¼" D x 59 ⅛" H [1975 x 845 x 1516 mm]	109 ½" W x 33 ¼" D x 59 ⅛" H [2781 x 845 x 1516 mm]
Net Weight	772 lbs [350 kg]	1444 lbs [655 kg]

*SS800 is comprised of two SS400 models with a tunnel, is shipped in two pieces, and is assembled on site.

Options and Accessories

As with ChemoSHIELD®, many options, accessories and modifications are available and should be specified when ordering. Commonly requested options are listed below. For detailed information on accessories and modifications, contact us.

- Waste / sharps chute
- Duplex outlet, ground fault circuit interrupter (GFCI), 115V, AC, with weatherproof cover (main working chamber); duplex outlets are standard on SS800
- Single petcock located right wall, center (option for 2 on right-hand side)
- Ergonomically adjustable footrest (field installed)
- Floor and wall anchors
- IV bar
- ULPA filters
- Hydraulic ergonomic lift stand
- Stainless steel work trays to help organize work and facilitate ingress/egress
- Under drain pan bins
- Replacement gloves/liners/sleeves

NIOSH Alert

NIOSH calls for cabinets used to prepare chemotherapy drugs to be exhausted to the outdoors because of the risk of vaporization of hazardous drugs. ChemoSHIELD is designed to comply with the NIOSH alert and requires connection to an externally vented exhaust system.

Warranty

The Baker Company, Inc., expressly represents and warrants all goods (a) to be as specified (and described) in The Baker Company catalogs and literature, and (b) to be free under normal use, service and testing (all as described in The Baker Company catalogs and literature) from defects in material and workmanship for a period of thirty-six months from the invoice date on units sold in the United States and twelve months for units sold internationally.

The exclusive remedy for any breach or violation of this warranty is as follows: The Baker Company, Inc., will F.O.B. Sanford, Maine, furnish without charge repairs to or replacement of the parts or equipment that proved defective in material or workmanship. No claim may be made for any incidental or consequential damages.

THIS WARRANTY IS EXPRESSLY IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE UNLESS OTHERWISE AGREED IN WRITING SIGNED BY THE BAKER COMPANY. (THE BAKER COMPANY SHALL NOT BE RESPONSIBLE FOR ANY IMPROPER USE, INSTALLATION, SERVICE OR TESTING OF THE GOODS.)



Environments For Science™

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