

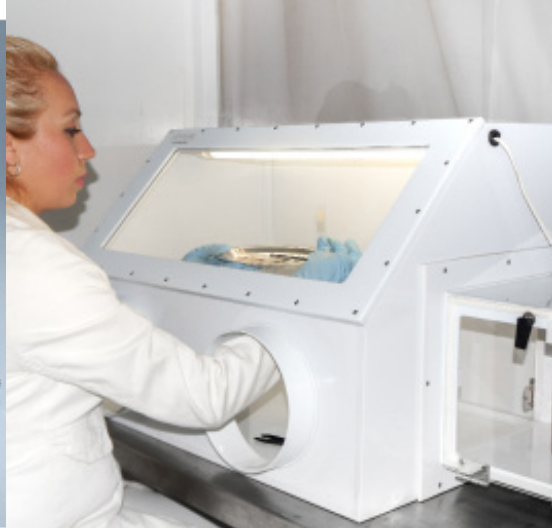


General Catalog 2018

Sapphire Cleanrooms



are manufacturers of cleanroom equipment. We offer a full line of cleanrooms, cleanroom equipment and cleanroom supplies. If you need it, we either have it or can manufacture it—exactly to your specifications.



intro

A MESSAGE FROM SAPPHIRE CLEANROOMS

With more than 25 years of experience in design, manufacturing and installation, Sapphire Cleanrooms is the reliable choice for domestic and international cleanroom and equipment manufacturing.

Our team of industry professionals can help you easily navigate from concept to completion. Leading the industry with the latest manufacturing standards and technologies, we can create a system that will comply within any operational budget, to meet the specific needs of your industry.



AEROSPACE



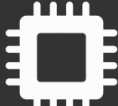
BIOMEDICAL



MEDICAL



PHARMACEUTICAL



SEMICONDUCTOR



TECHNOLOGY



AND MORE



ABOUT SAPPHIRE CLEANROOMS

Sapphire Cleanrooms are manufacturers of cleanroom equipment. We offer a full line of cleanrooms, cleanroom equipment and cleanroom supplies. If you need it, we either have it or can manufacture it—exactly to your specifications. Our mission is to provide our customers with the solutions they need to do business.

Sapphire Cleanrooms LLC is a national and international clean room manufacturer, with over 25 years of experience in manufacturing, design, and installation. We are a full-service cleanroom company with the ability to successfully move any project from concept to construction to completion on-time, on-budget and under compliance.

Our experienced staff includes the best in design, manufacturing and installation in the controlled environment industry.

All of our unique systems are built to be durable and efficient using both aluminum and steel components. The combination of these components allows for the lightweight assembly of aluminum and the reinforced strength of steel.

This gives our customers the satisfaction of knowing that all of our designs will perform with optimum efficiency and that they possess a longer lasting production life.

With our staffs' in-depth knowledge of the latest manufacturing standards and technologies, we can create a system that will comply with any operational budget, to meet individual customer specifications and needs.



our products

We offer a full line of cleanrooms, cleanroom equipment and cleanroom supplies. If you need it, we either have it or can manufacture it—exactly to your specifications. Our mission is to provide our customers with the solutions they need to do business.

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HARDWALL CLEANROOMS

Sapphire Cleanrooms provide an economical, versatile solution to clean manufacturing requirements in semiconductor, medical device, and many other industries. Unlike other hardwall modular cleanrooms on the market which require complex suspended ceiling supports, Sapphire Modular's Hardwall cleanrooms are completely free-standing structures.



A variety of panel materials are offered to meet your requirements for chemical resistance, light wavelength intensity and overall strength and security. Totally transparent walls make it easy to monitor activities in the room. These crystal clear panels create a cleanroom that is more aesthetically appealing than regular softwall rooms.



Ref: BHC-666SD

Hardwall Cleanrooms - SD PVC

Dissipative PVC performs these loads safely to the ground surface, protecting against the potential damage from ESD (electrostatic discharge) and particle pollution. Dissipative layers are molecularly embedded for optimum durability.

CODE	ITEM	PRICE
BHC-666SD-5	6' X 6'X 8'H ISO 5	Contact
BHC-666SD-6	6' X 6'X 8'H ISO 6	Contact
BHC-666SD-7	6' X 6'X 8'H ISO 7	Contact
BHC-666SD-8	6' X 6'X 8'H ISO 8	Contact

[For more CUSTOM dimensions contact Sapphire Cleanrooms](#)



Ref: BHC-666A

Hardwall Cleanrooms - Acrylic

Acrylic Panels offer full visibility and outstanding tensile strength. These economical panels are lightweight and easy to clean. Acrylic is not recommended for use with alcohol or other strong cleaning agents.

CODE	ITEM	PRICE
BHC-666A-5	6' X 6'X 8'H ISO 5	Contact
BHC-666A-6	6' X 6'X 8'H ISO 6	Contact
BHC-666A-7	6' X 6'X 8'H ISO 7	Contact
BHC-666A-8	6' X 6'X 8'H ISO 8	Contact

[For more CUSTOM dimensions contact Sapphire Cleanrooms](#)



Ref: BHC-666P

Hardwall Cleanrooms - Polypropylene

Polypropylene provides superb resistance to acids and other chemicals.

CODE	ITEM	PRICE
BHC-666P-5	6' X 6'X 8'H ISO 5	Contact
BHC-666P-6	6' X 6'X 8'H ISO 6	Contact
BHC-666P-7	6' X 6'X 8'H ISO 7	Contact
BHC-666P-8	6' X 6'X 8'H ISO 8	Contact

[For more CUSTOM dimensions contact Sapphire Cleanrooms](#)



Ref: BHC-666C

Hardwall Cleanrooms - Polycarbonate

Polycarbonate resists many common acids, solvents and cleaning solutions. Its high tensile strength makes it shatter resistant.

CODE	ITEM	PRICE
BHC-666C-5	6' X 6'X 8'H ISO 5	Contact
BHC-666C-6	6' X 6'X 8'H ISO 6	Contact
BHC-666C-7	6' X 6'X 8'H ISO 7	Contact
BHC-666C-8	6' X 6'X 8'H ISO 8	Contact

[For more CUSTOM dimensions contact Sapphire Cleanrooms](#)



BIO Cleanrooms

Sapphire Modular's Biological Cleanrooms provide an economical, versatile solution to Biomedical and Pharmaceutical Industries.

Our Modular Biological Cleanrooms are double-steel wall free-standing units and easily installed. Internal smooth and easy-to-clean surfaces provide the best solution for clean environment applications.

Available in 304/316L Stainless or Powder Coated Steel material.

USP 797

Positive pressure sterile compounding

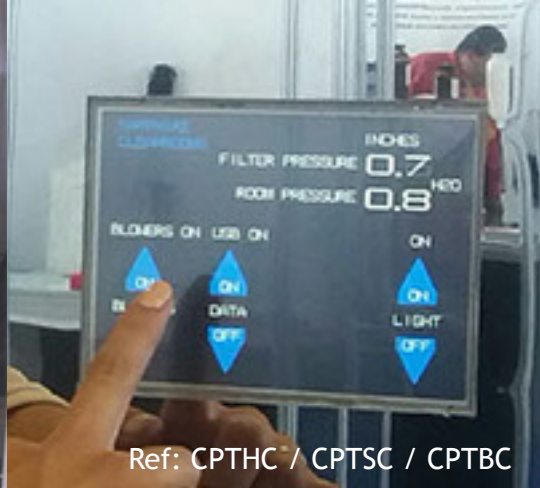
USP 800

Negative pressure compounding sterile hazardous

CONTACT SAPPHIRE FOR MORE INFORMATION & PRICING



Ref: CPHC / CPSC / CPBC



Ref: CPTHC / CPTSC / CPTBC



Ref: CPDHC / CPDSC / CPBC

Standard Control Panel

Mounted to the left of the access door, this panel allows convenient control of filter/fan units, lights, and other environmental monitoring equipment selected for your hardwall modular cleanroom.

Offers lights & FFU's ON/OFF switch, Magnehelic Gauge and keylock.

Touch Screen Control Panel

Mounted to the left of the access door, this panel allows convenient control of filter/fan units, lights, and other environmental monitoring equipment selected for your hardwall modular cleanroom.

Offers lights & FFU's ON/OFF control, pressure data readings.

Digital Control Panel

Mounted to the left of the access door, this panel allows convenient control of filter/fan units, lights, and other environmental monitoring equipment selected for your hardwall modular cleanroom.

» Offers lights & FFU's ON/OFF switch, Digihelic Gauge and keylock.



Ref: FFU



Ref: FLF / LEDLF



Ref: PDB

Fan Filter Units (FFU's)

Lights

Power Distribution Box (PDB)

STANDARD ROOM SIDE REPLACEABLE

HEPA & ULPA filter types

Dimensions: 2' x 4' , 2' x 2' & 2' x 3'

120V & 220V available

Noise level; 55dB / 650 CFM

8

LED & FLUORESCENT

Fluorescent & LED fixture options

Dimensions: 2' x 4'

120V & 220V available

FFU'S AND LIGHTS CONNECTION

Connects up to 5 FFU's & 5 lights

Reduces power line connections



Ref: Cleanroom Vents



Ref: HVAC System



Ref: Roll-Up Doors

Wall Panel Vents

Control Room Pressure.

HVAC System

Provides cool air for unconditioned areas.

Roll-Up Doors

Easy transport of large equipment and carts.



Ref: Access Doors



Ref: Ceiling Grid

Access Doors

Temperature & Humidity Control

Ceiling Grid

SINGLE / DOUBLE

Available in swing, sliding, interlocked and emergency models

TEMP & HUMIDITY

Temperature & Humidity control systems for hardwall cleanrooms. Internal or external installation.

POWDER COATED OR STAINLESS STEEL

Ceiling grid shows ceiling panels, lights and fan filter units



Softwall Cleanrooms

Sapphire Modular's Softwall Cleanrooms provide an economical, versatile solution to clean manufacturing requirements in semiconductor, medical device, and many other industries. Unlike other softwall modular cleanrooms on the market which require complex suspended ceiling supports, Global Modular's Softwall cleanrooms are completely free-standing structures.

Our Modular's cleanrooms are fabricated from heavy duty 2-1/2" square steel tubing for superior strength and powder coated for durability or you may choose a 304 stainless steel frame. Your softwall cleanroom is pre-fabricated at the factory for quick installation, which usually takes 3-5 days, depending on the cleanroom dimensions. Easily install the room yourself with complete instructions, or have our crew do it for you. Sapphire Modular's Softwall cleanrooms have been designed to be portable, expandable, and easily assembled/disassemble.

Our cleanrooms are also available on an expedited program to meet your tight production schedule! Your time is valuable and we're here to make your entire cleanroom project run smoothly and finish on time, and on budget.

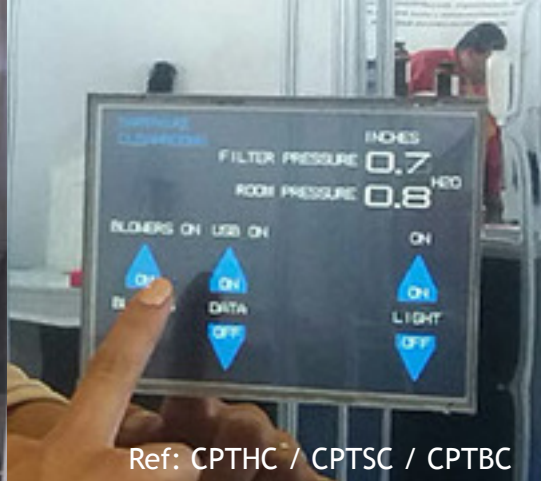
Components include Panels, Strip Shields, Strip Doors, and Filter/Fan Modules, as well as accessories and options.

NOTE: Softwall Cleanrooms to come standard with LED lights and Emergency Exit lights

CASTERS AVAILABLE FOR SOME CONFIGURATIONS. ASK FOR DETAILS



Ref: CPHC / CPSC / CPBC



Ref: CPTHC / CPTSC / CPTBC



Ref: CPDHC / CPDSC / CPBC

Standard Control Panel

Mounted to the left of the access door, this panel allows convenient control of filter/fan units, lights, and other environmental monitoring equipment selected for your hardwall modular cleanroom.

Offers lights & FFU's ON/OFF switch, Magnehelic Gauge and keylock.

Touch Screen Control Panel

Mounted to the left of the access door, this panel allows convenient control of filter/fan units, lights, and other environmental monitoring equipment selected for your hardwall modular cleanroom.

Offers lights & FFU's ON/OFF control, pressure data readings.

Digital Control Panel

Mounted to the left of the access door, this panel allows convenient control of filter/fan units, lights, and other environmental monitoring equipment selected for your hardwall modular cleanroom.

» Offers lights & FFU's ON/OFF switch, Digihelic Gauge and keylock.



Ref: FFU



Ref: FLF / LEDLF



Ref: PDB

Fan Filter Units (FFU's)

Lights

Power Distribution Box (PDB)

STANDARD ROOM SIDE REPLACEABLE

HEPA & ULPA filter types

Dimensions: 2' x 4' , 2' x 2' & 2' x 3'

120V & 220V available

Noise level; 55dB / 650 CFM

LED & FLUORESCENT

Fluorescent & LED fixture options

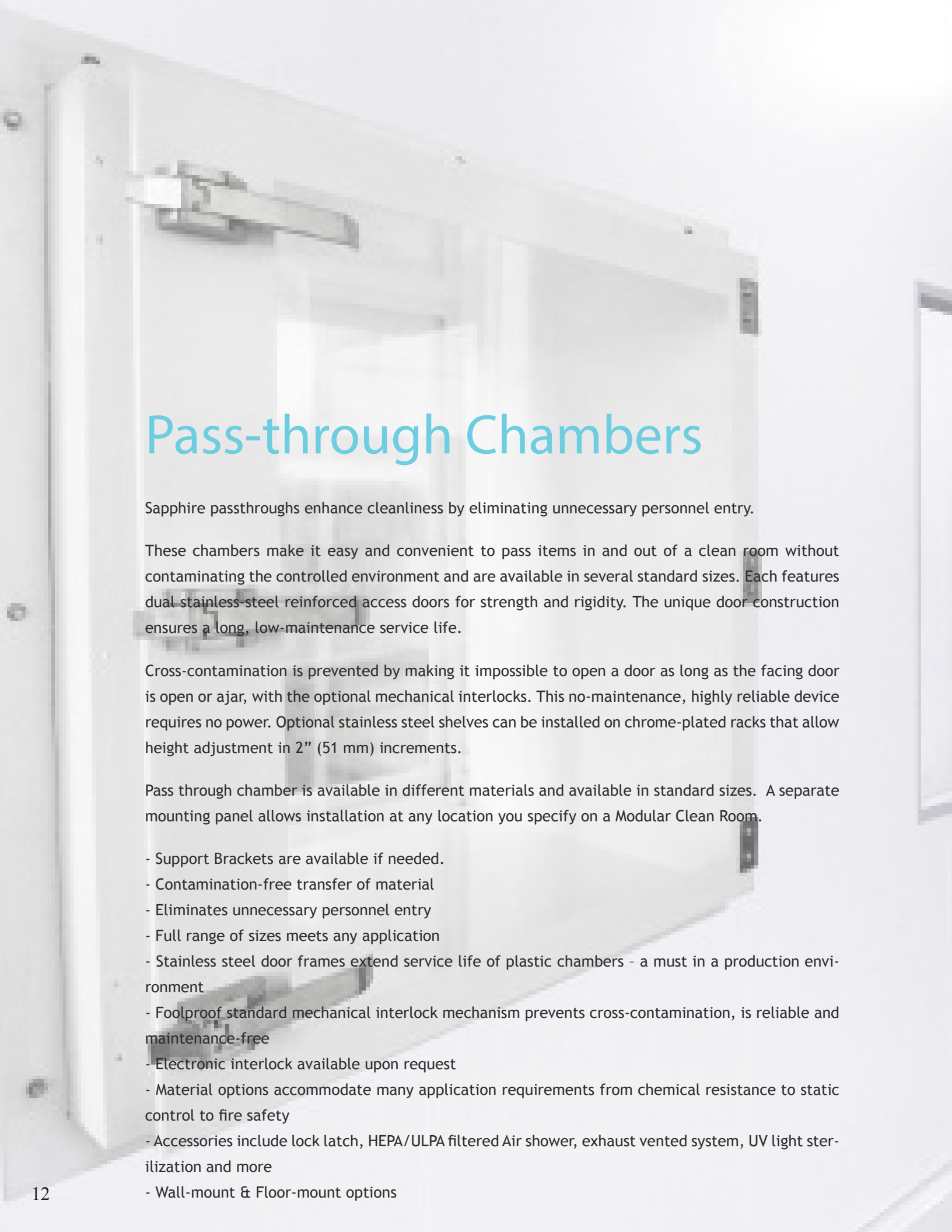
Dimensions: 2' x 4'

120V & 220V available

FFU'S AND LIGHTS CONNECTION

Connects up to 5 FFU's & 5 lights

Reduces power line connections



Pass-through Chambers

Sapphire passthroughs enhance cleanliness by eliminating unnecessary personnel entry.

These chambers make it easy and convenient to pass items in and out of a clean room without contaminating the controlled environment and are available in several standard sizes. Each features dual stainless-steel reinforced access doors for strength and rigidity. The unique door construction ensures a long, low-maintenance service life.

Cross-contamination is prevented by making it impossible to open a door as long as the facing door is open or ajar, with the optional mechanical interlocks. This no-maintenance, highly reliable device requires no power. Optional stainless steel shelves can be installed on chrome-plated racks that allow height adjustment in 2" (51 mm) increments.

Pass through chamber is available in different materials and available in standard sizes. A separate mounting panel allows installation at any location you specify on a Modular Clean Room.

- Support Brackets are available if needed.
- Contamination-free transfer of material
- Eliminates unnecessary personnel entry
- Full range of sizes meets any application
- Stainless steel door frames extend service life of plastic chambers - a must in a production environment
- Foolproof standard mechanical interlock mechanism prevents cross-contamination, is reliable and maintenance-free
- Electronic interlock available upon request
- Material options accommodate many application requirements from chemical resistance to static control to fire safety
- Accessories include lock latch, HEPA/ULPA filtered Air shower, exhaust vented system, UV light sterilization and more
- Wall-mount & Floor-mount options

Plastic Pass-through Chambers

These chambers make it easy and convenient to pass items in and out of a clean room without contaminating the controlled environment and are available in several standard sizes. Each features dual stainless-steel reinforced access doors for strength and rigidity.

Cross-contamination is prevented by standard interlock that prohibits both doors to open at the same.

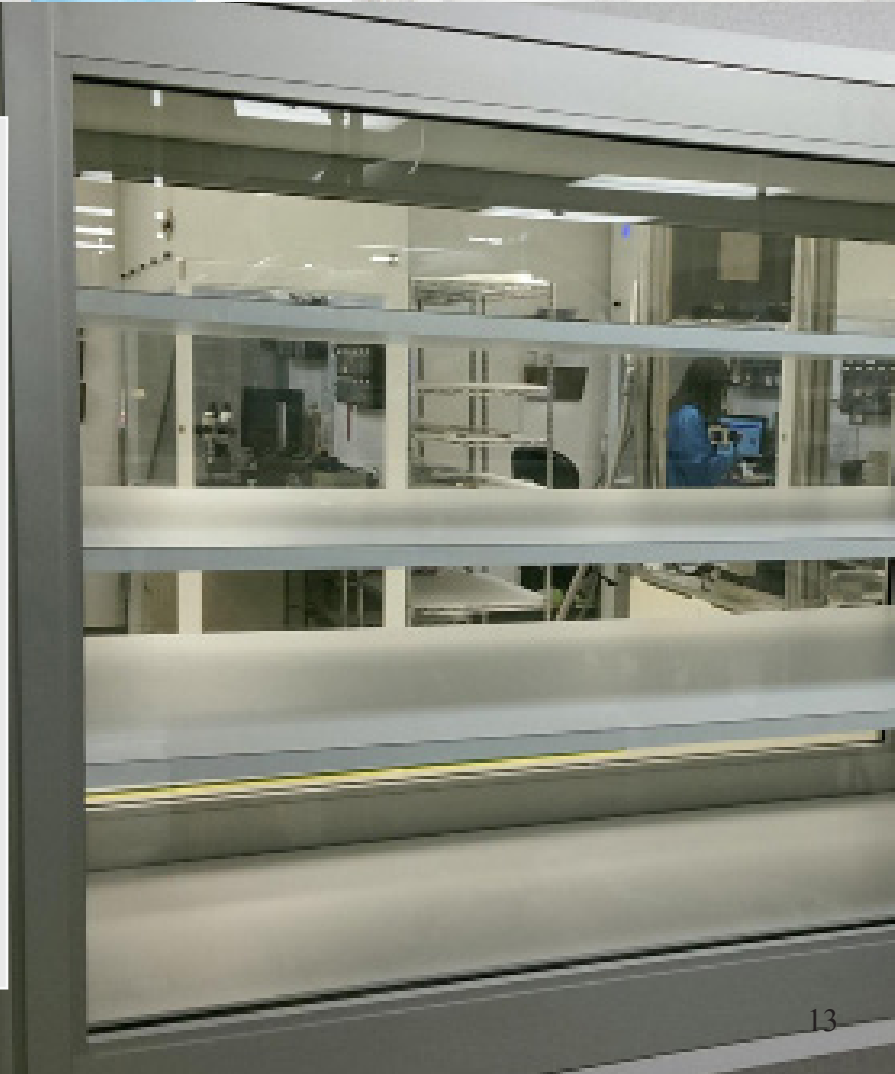
This no-maintenance, highly reliable device requires no power.



Steel Pass-through Chambers

Made with 304 Stainless Steel, these chambers make it easy and convenient to pass items in and out of a clean room without contaminating the controlled environment and are available in several standard sizes. Each features dual stainless-steel reinforced access doors for strength and rigidity.

Cross-contamination is prevented by standard interlock that prohibits both doors to open at the same. This no-maintenance, highly reliable device requires no power.





Ref: Shelves



Ref: 6800.00



Ref: Emergency button

Wall-Mounted Acrylic

CODE	DIMENSIONS	PRICE
PT10-121212A	12"X12"X12"	\$1,551
PT10-181818A	18"X18"X18"	\$2,096
PT10-181824A	18"X18"X24"	\$2,096
PT10-242424A	24"X24"X24"	\$2,488
PT10-242436A	24"X24"X36"	\$3,115
PT10-363636A	36"X36"X36"	\$3,741
PT10-363648A	36"X36"X48"	\$3,599

Wall-Mounted SD PVC

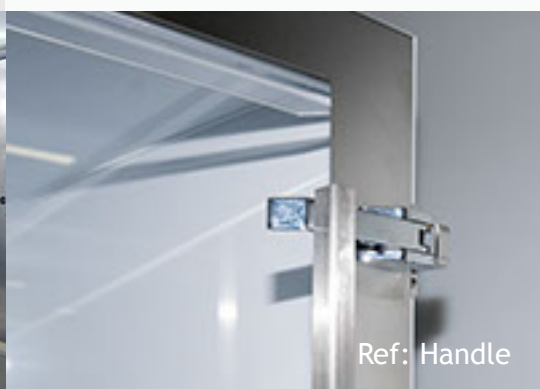
CODE	DIMENSIONS	PRICE
PT10-121212SD	12"X12"X12"	\$1,831
PT10-181818SD	18"X18"X18"	\$2,821
PT10-181824SD	18"X18"X24"	\$2,821
PT10-242424SD	24"X24"X24"	\$3,284
PT10-242436SD	24"X24"X36"	\$3,799
PT10-363636SD	36"X36"X36"	\$4,139
PT10-363648SD	36"X36"X48"	\$4,345

Floor-Mounted Acrylic

CODE	DIMENSIONS	PRICE
PF10-242436A	24"X24"X36"	\$3,505
PF10-363636A	36"X36"X36"	\$3,786
PF10-363648A	36"X36"X48"	\$4,316



Ref: SS pass-through



Ref: Handle



Ref: Electronic Interlock

Racks

CODE	DIMENSIONS	PRICE
APT-121212R	12"X12"X12"	\$671
APT-181818R	18"X18"X18"	\$735
APT-181824R	18"X18"X24"	\$855
APT-242424R	24"X24"X24"	\$915
APT-242436A	24"X24"X36"	\$943
APT-363636A	36"X36"X36"	\$1,081
APT-363648A	36"X36"X48"	\$1,183

Shelves

CODE	DIMENSIONS	PRICE
APT-121212S	12"X12"X12"	\$221
APT-181818S	18"X18"X18"	\$239
APT-181824S	18"X18"X24"	\$239
APT-242424S	24"X24"X24"	\$280
APT-242436S	24"X24"X36"	\$280
APT-363636S	36"X36"X36"	\$537
APT-363648S	36"X36"X48"	\$537



Ref: Mechanical Interlock



Ref: Latches



Ref: SS Frame

Floor-Mounted SD PVC

CODE	DIMENSIONS	PRICE
PT10-242436SD	24"X24"X36"	\$5,754
PT10-363636SD	36"X36"X36"	\$6,017
PT10-363648SD	36"X36"X48"	\$6,811

Wall-Mounted Stainless Steel

CODE	DIMENSIONS	PRICE
7652.00	Cum sociis	\$9.99
7652.01	Vivamus	\$12.99
7652.02	Aliquam	\$19.99
7653.04	Article	\$29.99

Floor-Mounted Stainless Steel

CODE	DIMENSIONS	PRICE
7652.00	Cum sociis	\$9.99
7652.01	Vivamus	\$12.99
7652.02	Aliquam	\$19.99



Ref: Support Brackets



Ref: Mounting Brackets



Ref: Electronic Interlock-Plastic

Wall-Mounted SS

CODE	DIMENSIONS	PRICE
PT10-121212SS	12"X12"X12"	\$3,006
PT10-181818SS	18"X18"X18"	CALL
PT10-181824SS	18"X18"X24"	CALL
PT10-242424SS	24"X24"X24"	\$4,666
PT10-242436SS	24"X24"X36"	CALL
PT10-363636SS	36"X36"X36"	CALL
PT10-363648SS	36"X36"X48"	CALL



Ref: Plastic Pass-throughs



Ref: Automatic waving door system



Ref:Air shower

Roll-Up Passthroughs

CODE	DIMENSIONS	PRICE
RP-443062	44”X30”X62”	CALL
RP-625086	62”X50”X86”	CALL
RP-4825078	82”X50”X78”	CALL
RP-6450104	64”X50”X104”	CALL

Floor Mounted - SS

CODE	DIMENSIONS	PRICE
PF10-242436SS	24”X24”X36”	CALL
PF10-363636SS	36”X36”X36”	CALL
PF10-363648SS	36”X36”X48”	CALL



Gloveboxes

Sapphire offers a wide range of ready to use gloveboxes that can be equipped with a comprehensive set of optional features. These can be used for the for the research and development of emerging technologies including Lithium Batteries, Chemical, OLED / PLED and Welding.

We offer a variety of economical isolation and containment gloveboxes.

Our laboratory glove boxes provide a controlled atmosphere, particle free , low humidity and oxygen free environment.

Our gloveboxes provide a clean , low-humidity, Oxygen free environment for laboratory, cleanroom, electronic assembly and other critical processing These Gloveboxes set up for Positive pressure operations and when utilized with automatic purge control units, they can maintain a preset relative humidity or oxygen level using an inert gas such as Nitrogen.



Plastic Gloveboxes

Sapphire Plastic Gloveboxes are available in four materials: Acrylic, Static-Dissipative PVC (ESD safe), Non-dissipative PVC, chemical resistant Polypropylene.

Nitrogen Purge accessories available to achieve low relative humidity levels.

Single Glovebox Dimensions: 36"W X 24"D X 26"H

Double Glovebox Dimensions: 60"W X 24"D X 26"H

Airlock dimensions: 10" x 10" x 10"

Stainless Steel Gloveboxes

Stainless Steel Gloveboxes provide a hermetically sealed environment.

A wide tempered glass viewing window is tightly installed ensuring minimum vapor loss and stand up to positive pressures. A fluorescent light fixture, cord and switch are mounted to the exterior of the chamber for proper illumination without contaminating the internal environment.

Nitrogen Purge accessories available to achieve low relative humidity levels.

Single Glovebox Dimensions: 36"W X 24"D X 26"H

Double Glovebox Dimensions: 60"W X 24"D X 26"H

Airlock dimensions: 10" x 10" x 10"





Ref: Airlock



Ref: Flowmeter



Ref: Iris Ports

Gloveboxes - Acrylic Single / Double Units

CODE	DIMENSIONS	PRICE
GBS-A	36"x24"x26"	\$1,051
GBD-A	60"x24"x26"	\$1,605

Gloveboxes - SD PVC Single / Double Units

CODE	DIMENSIONS	PRICE
GBS-SD	36"x24"x26"	\$1,596
GBD-SD	60"x24"x26"	\$1,867

Gloveboxes - Polycarbonate Single / Double Units

CODE	DIMENSIONS	PRICE
GBS-C	36"x24"x26"	\$1,557
GBD-C	60"x24"x26"	\$1,872



Ref: Waste Chutes



Ref: Humidity Control System



Ref: Viewing Windows

Gloveboxes - Polypropylene Single / Double Units

CODE	DIMENSIONS	PRICE
GBS-P	36"x24"x26"	\$1,602
GBD-P	60"x24"x26"	\$1,866

Gloveboxes - SS Single / Double Units

CODE	DIMENSIONS	PRICE
GBS-SS	36"x24"x26"	\$2,979
GBD-SS	60"x24"x26"	\$4,650

Gloveboxes - Accessories

CODE	DESCRIPTION	PRICE
RV	RELIEF VALVE	\$111
FM	FLOWMETER	\$114
HCS	HUMIDITY CONTROL SYSTEM	\$1,537

DESICCATORS

Sapphire desiccators (dry boxes) provide a high-quality and durable construction to meet your dry storage requirements for and maintain low humidity levels as low as 5%RH. 0%RH available upon request.

Desiccator Cabinets and inert atmosphere cabinets create sealed compartments that hold parts in a dry or nitrogen environment. They create a controlled environment for long-term storage of parts or material that will degrade when left in the normal atmosphere.

Store your moisture-sensitive items in a desiccator. These sealable dry chambers are available in stainless steel or plastic, and can be outfitted with a number of different accessories.



PLASTIC DESICCATORS

Durable, efficient nitrogen-purged storage cabinets

Automatically maintains clean, dry conditions to reduce part defects and extend product yields

Unique design and fabrication produce durable, tight-sealing cabinets

Full line of accessories available to make the unit a complete system for your needs

Includes Stainless Steel Door Frames

ESTIMATED NOMINAL DIMENSIONS PER CHAMBER

20" X 16" X 12"



STAINLESS STEEL DESICCATORS

Durable, efficient nitrogen-purged storage cabinets

Automatically maintains clean, dry conditions to reduce part defects and extend product yields

Unique design and fabrication produce durable, tight-sealing cabinets

Full line of accessories available to make the unit a complete system for your needs

Includes Stainless Steel Door Frames

ESTIMATED NOMINAL DIMENSIONS PER CHAMBER

20" X 16" X 12"



One Chamber

CODE	MATERIAL	PRICE
DC-A1	ACRYLIC	\$531
DC-SD1	SD PVC	\$683
SDC-S1	SS	\$1,498

Two Chambers

CODE	MATERIAL	PRICE
DC-A2	ACRYLIC	\$968
DC-SD2	SD PVC	\$1,247
SDC-S2	SS	\$3,446

Three Chambers

CODE	MATERIAL	PRICE
DC-A1	ACRYLIC	\$1,546
DC-SD1	SD PVC	\$1,628
SDC-S1	SS	\$5,352



Ref: Flowmeter



Ref: Humidity Control System

Four Chambers

CODE	MATERIAL	PRICE
DC-A1	ACRYLIC	\$1,121
DC-SD1	SD PVC	\$2,233
SDC-S1	SS	\$7,464

Five Chambers

CODE	MATERIAL	PRICE
DC-A1	ACRYLIC	\$2,220
DC-SD1	SD PVC	\$2,736
SDC-S1	SS	CALL

Eight Chambers

CODE	MATERIAL	PRICE
DC-A1	ACRYLIC	\$2,692
DC-SD1	SD PVC	\$5,382
SDC-S1	SS	\$13,073

Ten Chambers

CODE	MATERIAL	PRICE
DC-A1	ACRYLIC	\$4,952
DC-SD1	SD PVC	\$6,343
SDC-S1	SS	CALL

Accessories

CODE	DESCRIPTION	PRICE
RV	RELIEF VALVE	\$111
FM	FLOWMETER	\$114
HCS	HUMIDITY CONTROL	\$1,627
DS	DOOR SENSOR	\$61
ST-4-PC	STAND 4” PC	CALL
ST-4-SS	STAND 4” SS	CALL
ST-12-PC	STAND 12” PC	CALL
ST-12-SS	STAND 12” SS	CALL
CSET-22	CASTERS SET	\$266
SP-S	SS PERFORATED SHELF	
SNP-A	SS SOLID SHELF	
GPT	GROUNDING TERMINAL	

AIR SHOWERS



Each unit is a fully equipped, protected passageway that allows large numbers of personnel to pass into controlled areas without sacrificing convenience or cleanliness.

Air Showers and Tunnels supply concentrated Class 100, clean air flows to lift off contamination while an individual stands in, or walks through, a specially constructed air chamber. Whenever an automatic floor switch inside the unit is activated, pressurized air streams from adjustable nozzles at a velocity between 6,000 and 8,000 feet per minute (30 m/s and 41 m/s), a force that ensures efficient scrubbing action necessary to remove particulate matter. (Air showers in units without floors are activated by motion sensors.)

Nozzles are arranged on walls and ceilings in a uniform pattern to ensure effective distribution of filtered air; the lowest nozzle is positioned 18" (483 mm) off the floor. The closed-loop circulation design directs contaminated air downward through grills and hollow walls of the Air Shower and back to the filter, which removes 99.97% of all particles as small as 0.3 microns.

Interlocking doors prevent unnecessary contamination inflow and thereby prevent cross-contamination of the cleanroom and the Air Shower or Tunnel. They automatically release in the event of a power failure to ensure operator safety. Fluorescent lighting, built into the ceiling to allow unimpeded air circulation, ensures full visibility no matter what size or configuration you select. In addition, an emergency stop button on each Air Shower/Tunnel sounds an alarm and releases the door lock for exiting.

Motor/blower compartment has hinged access panels:

Return air plenums are painted.

Door interlocks operate on magnetic system.

HEPA filter mounted on exit side of shower in top section.

360 degree adjustable air nozzles

Anodized aluminum doors with clear acrylic windows.

0-999 second adjustable operation pre-set to 30 seconds.

Electrical & Power Requirements:

All electrical components UL Approved. 230V or 460V, 3 Ph.

Junction box on top for customer power supply..

Control circuitry 12V DC & 24V AC

Motor/Blower Assembly.

High efficiency motors to reduce electrical load.

Motors thermally protected & self-lubricating.

Motors/Blowers are selected to maintain constant required airflow rate up to twice the initial static pressure.

Filter/Blower housing has simple plug-in connector.

Lighting -Recessed 2 pin fluorescent lighting. 60ft. candles

Control:

Shower operation controlled by solid state LCD timer, with tamper-proof closure to ensure selected setting is maintained

Emergency "off" button with audible alarm installed inside shower. Built-in relays from motors, locks and timers. Sequential operation initiated by sensor & door magnetic switch



Ref: 5246

Powder Coated Steel

CODE	DIMENSIONS	PRICE
ASPC-5246	52" X 46" X 120"H	\$17,185
ASPC-5258	52" X 58" X 120"H	\$18,357
ASPC-5260	52" X 60" X 120"H	\$20,502
ASPC-5272	52" X 72" X 120"H	\$21,357
ASPC-5284	52" X 84" X 120"H	\$22,714
ASPC-5846	58" X 46" X 120"H	\$18,356



Powder Coated Steel

CODE	DIMENSIONS	PRICE
ASPC-5858	58" X 58" X 120"H	\$19,206
ASPC-5860	58" X 60" X 120"H	\$21,351
ASPC-5872	58" X 72" X 120"H	\$21,994
ASPC-5884	58" X 84" X 120"H	\$23,270
ASPC-6460	64" X 60" X 120"H	\$21,987
ASPC-6472	64" X 72" X 120"H	\$23,297



Ref: 5246

Stainless Steel

CODE	DIMENSIONS	PRICE
ASSS-5246	52" X 46" X 120"H	\$22,559
ASSS-5258	52" X 58" X 120"H	\$24,096
ASSS-5260	52" X 60" X 120"H	\$26,848
ASSS-5272	52" X 72" X 120"H	\$27,967
ASSS-5284	52" X 84" X 120"H	\$29,767
ASSS-5846	58" X 46" X 120"H	\$24,096



Ref: Nozzles

Stainless Steel

CODE	DIMENSIONS	PRICE
ASSS-5858	58" X 58" X 120"H	\$25,147
ASSS-5860	58" X 60" X 120"H	\$27,967
ASSS-5872	58" X 72" X 120"H	\$28,812
ASSS-5884	58" X 84" X 120"H	\$30,493
ASSS-6460	64" X 60" X 120"H	\$28,805
ASSS-6472	64" X 72" X 120"H	\$30,529



Vacuum Chambers

Sapphire Vacuum Chambers are designed for vacuum testing, degassing small parts, defoaming, mixed liquids, biological tests and storing samples under sustained low and intermediate vacuums.

Removable cover

Front hinged door

Vacuum gasket on door ensures airtight seal

Supports vacuum level of 29.9" Hg

Metering valves

Vacuum gauge

Acrylic
Vacuum Chambers

CODE	DIMENSIONS	PRICE
VCA-101012	10”X10”X12”	\$1,813
VCA-12128	12”X12”X8”	\$1,449
VCA-101010	10”X10”X10”	\$1,326
VCA-121210	12”X12”X10”	\$1,684
VCA-161612	16”X16”X12”	\$2,339
VCA-241012	24”X10”X12”	CALL

Stainless Steel
Vacuum Chambers

CODE	DIMENSIONS	PRICE
VCSS	10”X14”X10”	\$3,606

Aluminum
Vacuum Chambers

CODE	DIMENSIONS	PRICE
VCAL-8810	8”X8”X10”	\$2,382
VCAL-121210	12”X12”X10”	\$2,859
VCAL-12128	12”X12”X8”	\$2,594
VCAL-161012	16”X10”X12”	\$3,225
VCAL-161614	16”X16”X14”	\$4,137
VCAL-261012	26”X10”X12”	\$6,560





Hoods

Sapphire Flow Hoods provide an economical work environment for the most stringent contamination requirements in the pharmaceuticals, biotech, electronics and semiconductor industries.

All materials used are selected for durability and contamination control. The exterior features a high chip-resistant, white powder-coated finish.

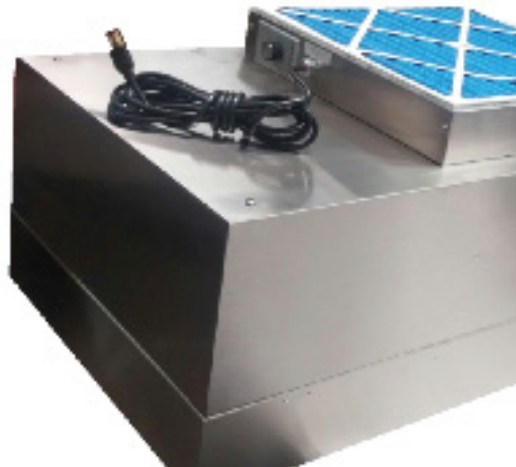
Powerful filter/blower filter/fan modules provide a vertical laminar flow of filtered air. The direct-drive blower provides an industry-best low noise level of 50dBA.

Select the filters to meet your requirement: HEPA filters are rated 99.99% efficient at removing particles 0.3 microns or larger, and ULPA filters are rated 99.999% efficient @ 0.12 micron particles. HEPA filter is standard on all units.



Polypropylene Benchtop

CODE	DIMENSIONS	PRICE
BVLFP-4824	48"X24"X42"	\$1,252
BVLFP-3624	36"X24"X42"	\$1,127



Powder-Coated Steel Benchtop

CODE	DIMENSIONS	PRICE
VLFB-PC7224	72"X24"X42"	\$2,064
VLFB-PC6024	60"X24"X42"	\$1,480
VLFB-PC4824	48"X24"X42"	\$1,615
VLFB-PC3624	36"X24"X42"	\$1,480



Stainless Steel Benchtop

CODE	DIMENSIONS	PRICE
VLFB-SS7224	72"X24"X42"	CALL
VLFB-SS6024	60"X24"X42"	CALL
VLFB-SS4824	48"X24"X42"	CALL
VLFB-SS3624	36"X24"X42"	CALL



Floor-Standing

CODE	DIMENSIONS	PRICE
BHF-PC-5232	52"X32"X92"	\$4,541
BHF-PC-7632	76"X32"X92"	\$4,978
BHF-PC-10032	100"X32"X92"	\$5,799
BHF-SS-5232	52"X32"X92"	\$6,160
BHF-SS-7632	76"X32"X92"	\$6,487
BHF-SS-10032	100"X32"X92"	\$7,848



Powder-Coated Steel Benchtop

CODE	DIMENSIONS	PRICE
VLFB-PC2424	24"X24"X42"	\$1,216
VLFB-PC7230	72"X30"X42"	\$2,375
VLFB-PC6030	60"X30"X42"	\$2,075
VLFB-PC4830	48"X30"X42"	\$1,863



Stainless Steel Benchtop

CODE	DIMENSIONS	PRICE
VLFB-SS2424	24"X24"X42"	CALL
VLFB-SS7230	72"X30"X42"	CALL
VLFB-SS6030	60"X30"X42"	CALL
VLFB-SS4830	48"X30"X42"	CALL

Ducted
Fume Hood



Ducted
Fume Hood



Ducted
Fume Hood



Ducted Fume Hood

- Folding Acrylic front window
- Microprocessor control system
- memory function
- Built-in centrifugal blower
- Interlock function
- UV lamp & blower
- LED lamp (only for choosing LED lamp)

Ducted Fume Hood

- Adjustable air speed: 9 levels
- Resistant to moderate acid and alkali
- Memory function
- Manual front glass window
- Built-in PP blower

Ducted Fume Hood

- UV lamp for sterilization
- Resistant to weak acid and alkali
- Adjustable air speed: 9 levels
- Motorized front window
- Microprocessor control system
- LED display
- Memory function

Ductless
Fume Hood



Ductless
Fume Hood



PCR Cabinet



Ductless Fume Hood

- UV lamp
- Motorized front glass
- Resistant to weak acid and alkali
- Adjustable air speed: 9 levels
- Filter alarm
- Memory function
- Back side air compensation

Ductless Fume Hood

- LCD touch screen control panel
- Memory function
- 8 degree slope front
- Temperature & humidity sensors
- Three side transparent acrylic windows
- Double-layer structure
- Electronic control system
- Inside and outside probe

PCR Cabinet

- UV sterilization system
- LED display
- HEPA filter
- Memory function
- Interlock function
- UV timer (0-90 mins)

Horizontal
Laminar Flow
Cabinet



Horizontal Laminar Flow Cabinet

- LCD display
- Waterproof socket
- UV lamp
- Gas tap
- Side glass window
- Base stand

Vertical
Laminar Flow
Cabinet



Vertical Laminar Flow Cabinet

- LCD display
- Waterproof socket
- UV lamp
- Gas tap
- Side glass window
- Base stand

Vertical
Laminar Flow
Cabinet



Vertical Laminar Flow Cabinet

- Fluorescent/LED lamp
- UV lamp
- base stand (not all)
- Water & gas tap (not all)

Horizontal
Laminar Flow
Cabinet



Horizontal Laminar Flow Cabinet

- LED display
- Waterproof socket
- Side glass window
- LED lamp
- UV lamp
- Base stand

Vertical Laminar
Flow Cabinet
---Double Sides Type



Vertical Laminar Flow Cabinet

- Memory function
- Double side work bench
- LCD display
- UV lamp
- Base stand

Walk-in
Fume Hood



Walk-In Fume Hood

- Memory function
- Operators are available to walk in
- Large room exhaust system
- Water sink
- Water & gas remote control valve
- Water & gas tap
- Blower
- LED lamp



Biological Safety Cabinets

Sapphire provides a full-line of Biological Safety Cabinets and accessories.

Class I Biological Safety Cabinet



Class II A2 Biological Safety Cabinet



LCD Display
Large Digital LCD display is easy to monitor all the safety parameters at a glance and ergonomically sized control panel improves user interface.



Class II A2 Biological Safety Cabinet



LCD Display
Large digital display monitor all the safety parameters at a glance and ergonomically sized control panel improves user interface.

Class I BSC

- UV light for sterilization
- Soft touch control panel.
- LCD Display
- Energy saving/ High-efficiency
- Low-noise
- memory function for power-failure
- One piece 304 SS work stable
- Stable air-flow system

Class II A2 BSC

- Small Dimension, save space
- Centrifugal fan, speed-adjustable
- H14 hepa filter
- Motorized front window
- Audio & visual alarm
- Time reserve function
- remote Control
- Large LCD Display
- Memory function

Class II A2 BSC

- Large LCD Display
- Motorized front window
- Time reserve function
- HEPA filter & UV light life indicator
- Automatic air speed adjustable
- Memory function
- Audio & visual alarm
- Negative pressure surrounded work area
- Remote control
- Interlock function
- Foot switch

Class II B2 Biological Safety Cabinet



Class III Biological Safety Cabinet



Cytotoxic Safety Cabinet



CLASS II B2 BSC

- Time reserve function
- Motorized front window
- HEPA & UV light life indicator
- Automatic air speed adjustable
- Memory function
- Negative pressure work area
- Audio & visual alarm
- Remote control
- Interlock function
- Foot switch

CLASS III BSC

- Pass box
- Memory function
- UV lamp
- Angled cabinet front
- Double-filtered exhaust air
- Pressure meter
- LCD display

CYTOTOXIC SAFETY CABINET

- LCD display
- Remote control
- Waqter & gas tap
- Frobt window
- UV lamp
- Bag-in & bag-out filter

EN Certified Biological Safety Cabinet



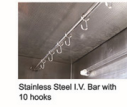
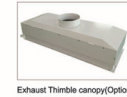
LCD Display
Large LCD display is easy to monitor all the safety parameters at a glance, and ergonomically sized control panel improves users interface.

NSF Certified Class II A2 Biological Safety Cabinet



LCD Display
Large LCD display is easy to monitor all the safety parameters at a glance, and ergonomically sized control panel improves users interface.

NSF Certified Class II A2 Biological Safety Cabinet



LCD display for BSC-4FA2-GL and BSC-4FA2-NA
LCD display for BSC-4FA2-GL and BSC-4FA2-NA
LCD Display
Large LCD display is easy to monitor all the safety parameters at a glance, and ergonomically sized control panel improves users interface.

EN BSC

- Large LCD display
- Automatic air-speed adjustable
- Memory function
- Side & back wall: stainless steel
- Interlock function
- 10 deg. slanted for comfort

NSF Class II A4 BSC

- Motorized frotn window
- Large LCD display
- Automatic air-speed adjustable
- Memory function
- Side & back wal: Stainless Steel
- Interlock function
- Front 10 deg. slanted for comfort

NSF Class II A4 BSC

- Motorized frotn window
- Large LCD display
- Automatic air-speed adjustable
- Memory function
- Side & back wal: Stainless Steel
- Interlock function
- Front 10 deg. slanted for comfort
- Exhaust canopy (optional)
- UV bar w/ 10 hooks

Chicken Isolator



Electric Height Adjustable Base Stand



APPLICAT

Suitable for biosafety cabinets and other laboratory equipment base stand.

Foot rest

Humanization design. Material is cold-rolled steel with anti-bacteria powder coating. Can be customized.



Formalin Fumigation Sterilizer
Ammonium Hydrogen Carbonate Neutralizer

Sterilize the cabinet with formalin for 8 hours and neutralize the formalin with ammonium hydroxide.

Arm rest

Alleviate fatigue on operator's arms Prevent air obstruction Adjustable height range: 85~100mm



Technical Parameters:
Material: Economy line-artificial leather
Backrest height: 50cm
Height range: 44~58cm

CHICKEN ISOLATOR

- Automatic feed water system
- Special sealing design
- Gloves on both sides
- 304 SS material
- Filtration system
- Three sterilization ways
- Unique defecation system & fecal leakage shelf

ELECTRIC HEIGHT-ADJUSTABLE STAND

- Heavy load & smart balance
- Smooth running speed w/low noise
- Concise & easy
- Low maintenance cost
- Easy to install & disassemble
- Adjustable height range 0-400 mm
- Customize height
- Constructed of aluminum alloy & square steel pipe

ACCESSORIES

- Airflow tester
- Air velocity meter
- Dust particle counter
- Illumination meter
- Digital sound level meter
- Foot rest
- Arm rest
- Formalin fumigation sterilizer
- Chairs



Equipment

Sapphire offers a full line of Cleanroom, gowning area & laboratory equipment including gowning benches, plastic and stainless steel dispensers, ladders and stools, storage cabinets, shelving units, carts, tables, workstations, wet benches and more.

Gowning Benches

Sapphire stainless steel benches located at gowning room areas are easy to clean and sturdy benches.

Many options available to meet your needs.

Solid Top

Perforated Top

Rod Top

Floor-Mounted

Tubular Top

Made of 304 stainless steel



Dispensers

Sapphire dispensers, bins, and holders help organize garments, gloves, hats, booties, pipettes, safety glasses, wipers, notebooks and many other apparel and accessories.

Materials available

Acrylic

Static-Dissipative PVC

Polypropylene

Polycarbonate

Stainless Steel



Ladders & Stools

Sapphire steel step stairs are ideal for performing maintenance tasks in a clean room.

Features:

- Spring-loaded casters
- Nylon leveling feet
- Optional safety rails
- Perforated or solid steps



Storage Cabinets

Storage Cabinets provide storage space for garments, tools, wipes, process equipment, and other materials

Options:

- Garment rack
- Adjustable shelves
- HEPA filter/blower unit
- Solid and perforated shelves
- Double doors
- SD PVC panels



Shelving Units

All 304 stainless steel construction.

Variety of custom shelving units

Let us know your requirements



Workstations/Tables/benches

Sapphire tables, benches, workstations meet your critical cleanliness requirements.

Made of stainless steel

Models

Solid Top

Perforated Top

Rod Top

Vibration-Isolation

Auto-Adjusting



Chairs

Durable, ergonomic chairs are designed for laboratory seating.

Many designs available including ergonomic task chairs, general lab chairs, static-control chairs. Cleanroom-compatible lab chairs are also available.



Wet Processing Stations/Benches

Wet Cleaning Benches / Stations

The best solution for acid etching, semiconductor wafer processing, chemical rinsing and drying, and other wet chemical processes.

Features

Process Baths

Tanks

Overflow Rinsers



CONTACT SAPPHIRE

Contact Us and one of our
qualified sales representatives
will be in touch with you.

Thank you for the opportunity to
work with you on this project.



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