FumeHoodsInStock.com

801-970-1212

Quick Delivery Lab Furnishings Catalog

scientific

Laboratory Furnishings

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Working with the ***INSTOCK*** Lab Team is Fast and Easy

Using this catalog

This catalog contains over 1,200 of the most commonly used lab furnishing products-. In this catalog you will find cues to help you locate the products that you need quickly and easily.

Product Organization

Catalog sections are organized by product group for easy identification.

Page Headings

Sections and subsets are listed on every page for refinedbrowsing.

We have what you need, when you want it!

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We have the lab furnishings you need when you want them. Our quick delivery lab furnishings program is much more than just the availability of product. Our experienced team of Furniture Specialists, Project Designers, and Project Managers are ready & available to lead you through the completion of your fast track lab renovation, or new lab project.

Our Furniture Team is organized into focused and coordinated units that offer:
- Clear and easy communication
- In depth planning for every kind of lab
- An extensive inventory of top-quality furniture and components
- Comprehensive project supervision from initial planning through the final installation of your project

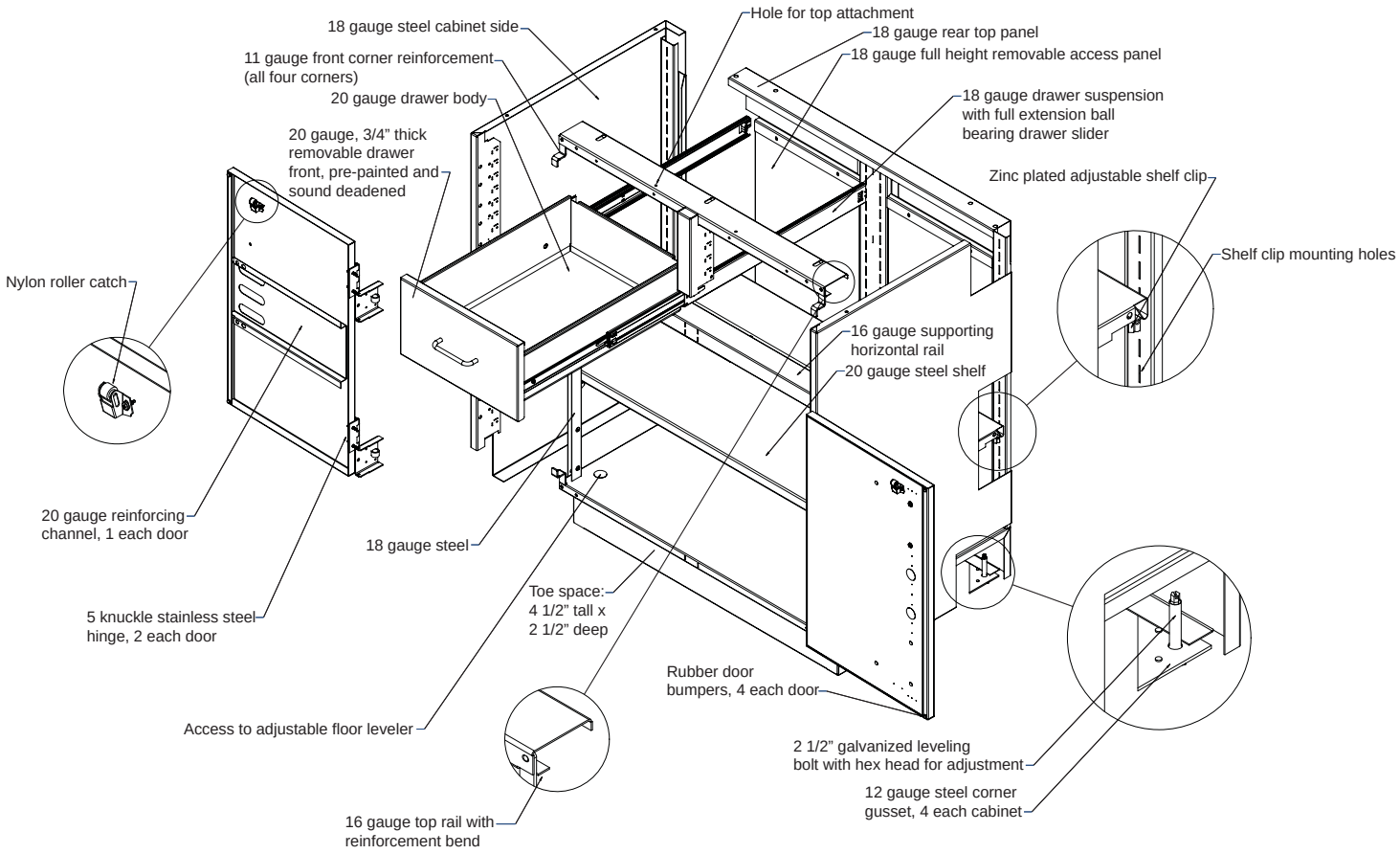
CornerStone Steel Laboratory Casework

The ***INSTOCK***® program is ready when you are and is designed “For the ones who get it done”.

Our ***INSTOCK***® program provides you an extensive selection of lab furnishings that are available in a matter of days.*

All ***INSTOCK***® steel cabinets and chemical hoods have a powder coated “Pearl White” finish that is SEFA 8 compliant.** A wide range of other colors and cabinet styles are available through our CornerStone® program.

*Most ***INSTOCK***® items ship in 5 business days. All items are subject to availability at the time of the order. Large quantity orders may require longer lead times.
**For a color sample of Pearl White email: Sales@FumeHoodsInStock.com



Design Appearance:
- Our quick delivery cabinetry is offered in a flush inset style. All cabinet component parts of the sectional units are manufactured ensuring uniformity, interchangeability and accurate alignment.

Color:
- Our quick delivery cabinetry is offered in a neutral color of "Pearl White"

Field Convertible:
- Field convertible design allows for conversion of cabinet door and drawer front styles, drawer body suspension and cabinet horizontal and vertical rails, with the use of simple hand tools.

LEED Compliance:
- Environmental compliant paints, glues and adhesives are specifically formulated to safeguard indoor air quality

Industry Compliance:
- SEFA 8 Metal, NFPA 30, UL listed and FM approved

Drawer Slide:
- 100 lbs. full extension, Standard

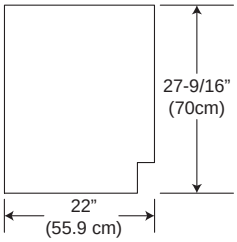
Standard Features:
- Stainless Steel Wire Pull
- Stainless Steel Five Knuckle Hinge
- Nylon Roller Door Catch

CornerStone Door and Drawer Size Code

Mod Letter	Height	
Drawers		
A	1 1/4"	3.2 cm
B	2 9/16"	6.5 cm
C	3 13/16"	9.7 cm
D	5 1/8"	13 cm
E	6 3/8"	16.2 cm
F	7 5/8"	19.4 cm
G	8 13/16"	22.4 cm
H	10 3/16"	25.9 cm
I	11 1/2"	29.1 cm
J	12 3/4"	32.4 cm
Doors		
K	19 3/16"	48.7 cm
L	23"	58.4 cm
M	28 1/16"	71.3 cm
N	30 5/8"	77.8 cm

INSTOCK Standard Product Features Include:

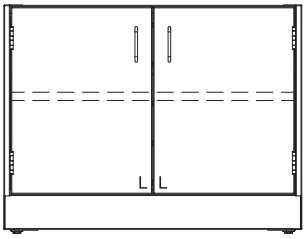
- Inset style casework
- Modular design allows for simple field conversion from inset to overlay, door and drawer re-configurations and hardware component changes
- Durable construction provides SEFA 8 Metal compliant load-bearing capacity for years of dependable usage
- Drawer suspension is 100 lb. full extension
- ***INSTOCK*** "Pearl White" color is a urethane powder coating that provides superior chemical and abrasion resistance
- Products are SEFA 8 tested and approved by an independent third party



CornerStone Sitting Height Base Cabinet

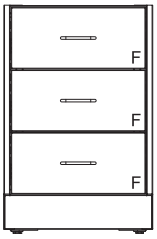
- Order work surfaces separately
- Provided without locks
- 27.6” (70 cm) Tall
- Standard Color: Pearl White
- All door and combination cabinets have a removable back
- All drawer cabinets have a cutout for service access

Door Cabinets

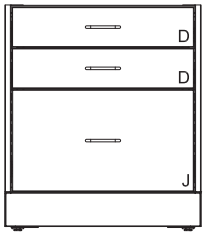


JTP163-36	36” W (91.4 cm)

Drawer Cabinets

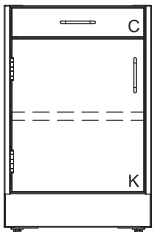


JTP174-18P	18” W (45.7 cm)

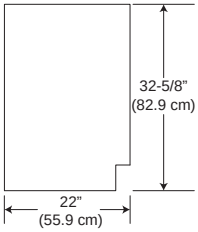


JTP070-24P	24” W (61 cm)

Door and Drawer Cabinets



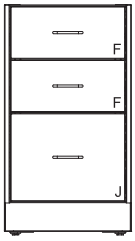
Left Hinged	
JTP169-18P	18” W (45.7 cm)



CornerStone ADA Height Base Cabinet

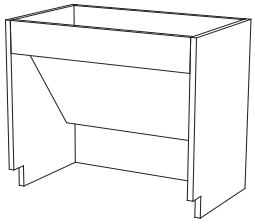
- Order work surfaces separately
- Provided without locks
- 32.6” (82.8 cm) Tall
- Standard Color: Pearl White
- All door and combination cabinets have a removable back
- All drawer cabinets have a cutout for service access

Drawer Cabinets

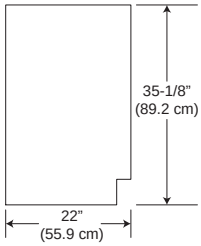


JTP925-18P	18” W (45.7 cm)

Sink Cabinet



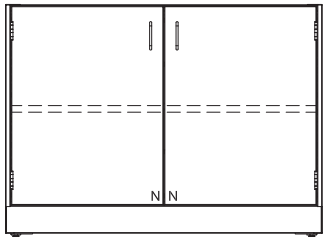
JTP981ACC-36	36” W (91.4 cm)



CornerStone Standing Height Base Cabinet

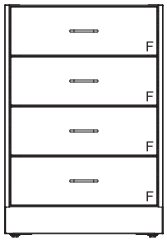
- Order work surfaces separately
- Provided without locks
- 35.1" (89.2 cm) Tall
- Standard Color: Pearl White
- All door and combination cabinets have a removable back
- All drawer cabinets have a cutout for service access

Door Cabinets

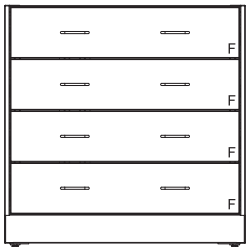


JTP103-30	30" W (76.2 cm)
JTP103-36	36" W (91.4 cm)
JTP103-48	48" W (121.9 cm)

Drawer Cabinets

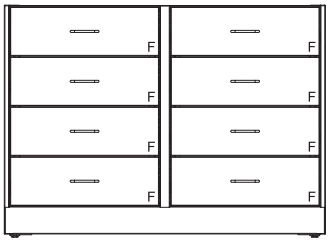


JTP122-18P	18" W (45.7 cm)
JTP122-24P	24" W (61 cm)



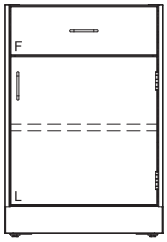
JTP121-36P	36" W (91.4 cm)

Drawer Cabinets

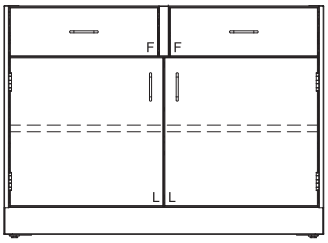


JTP124-48P	48" W (121.9 cm)

Door/Drawer Cabinets

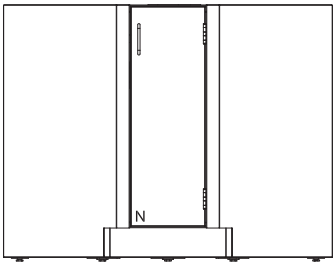


Right Hinged	
JTP118-18P	18" W (45.7 cm)
JTP118-24P	24" W (61 cm)

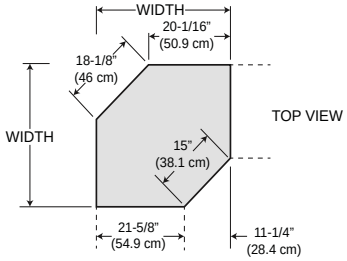


JTP106-36P	36" W (791.4 cm)
JTP106-42P	42" W (106.7 cm)
JTP106-48P	48" W (121.9 cm)

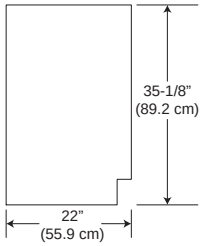
Corner/Sink Cabinet



Right Hinged	
JTP190-32SE	32-7/8" W (83.5 cm)



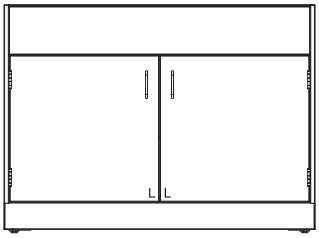
Corner Cabinet Plan View



CornerStone Standing Height Base Cabinet

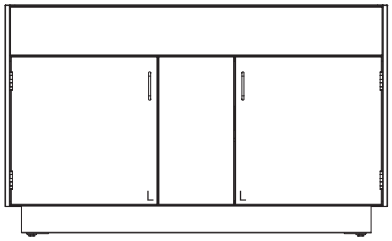
- Order work surfaces separately
- Provided without locks
- 35.1” (89.2 cm) Tall
- Standard Color: Pearl White
- All door and combination cabinets have a removable back
- All drawer cabinets have a cutout for service access

Sink Cabinets



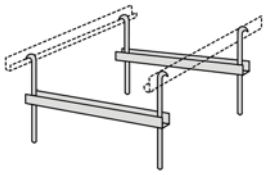
JTP181-36	36” W (91.4 cm)
JTP181-48	48” W (121.9 cm)

End Island Sink Cabinets



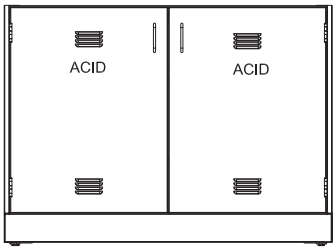
JTP186-52	52” W (132.1 cm)
JTP186-58	58” W (147.3 cm)

Sink Supports



JP535-36	36” W (91.4 cm)
JP535-48	48” W (121.9 cm)
JP535-52	52” W (132.1 cm)
JP535-58	58” W (147.3 cm)

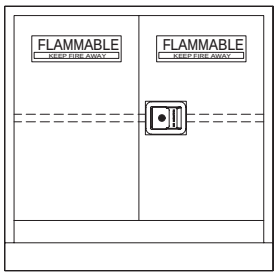
Acid Storage Cabinets



- Full-Height doors are lined with 1/8” thick polyethylene
- Chemical resistant 3/16” thick molded Polyethylene lining with coved corners and 2” lip at front of cabinet opening
- Includes vent kit
- One half-depth shelf

JTP185-24GG (Left Hinged)	24” W (61 cm)
JTP188-36GG	36” W (91.4 cm)
JTP188-48GG	48” W (121.9 cm)

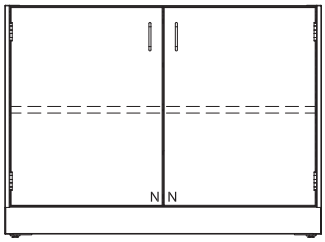
Solvent Storage Cabinets



- Construction meets requirements listed by UFC, OSHA, and NFPA No. 30-1993
- Two 2” pipe threaded vent outlets on back
- Rear and top access panels
- Lock is included
- Self-closing

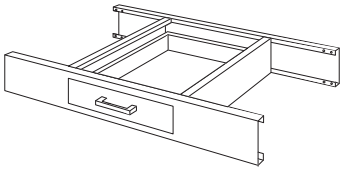
JTP189-24SLAS (Right Hinged)	24” W (61 cm)
JTP189-36SLASY	36” W (91.4 cm)
JTP189-48SLASY	48” W (121.9 cm)

Standard Hood Cabinets



JTP103-30	30” W (76.2 cm)
JTP103-36	36” W (91.4 cm)
JTP103-48	48” W (121.9 cm)

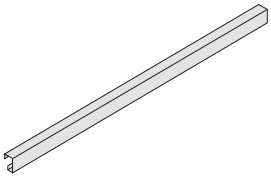
Apron Frame with Drawer



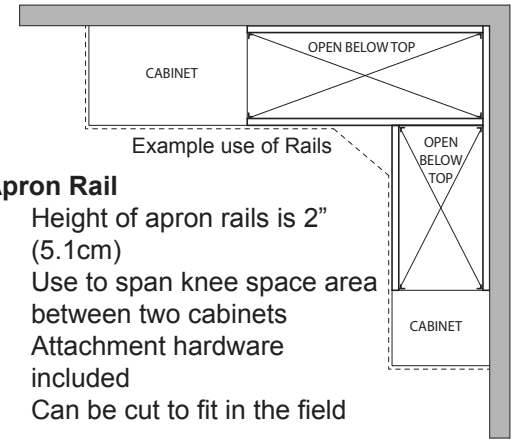
- Apron frame is 4 1/2" (11.4cm) tall
- Use to span knee space area between two cabinets
- Attachment hardware included
- Can be cut to fit in the field

JTPTBA-3022-1P	30” W (76.2 cm)	22” D (55.9 cm)

Apron Rail



JPTBR-3002	30” W (76.2 cm)
JPTBR-3602	36” W (91.4 cm)
JPTBR-4802	48” W (121.9 cm)
JPTBR-7202	72” W (182.9 cm)

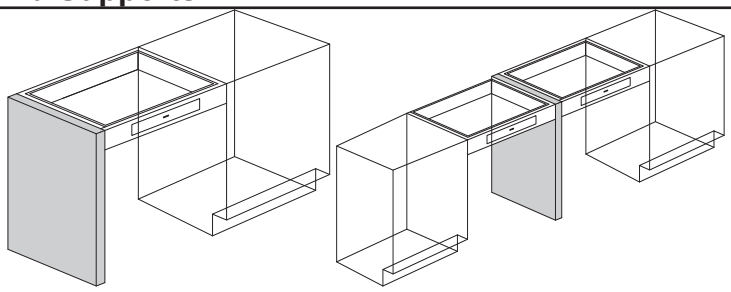


Example use of Rails

Apron Rail

- Height of apron rails is 2” (5.1cm)
- Use to span knee space area between two cabinets
- Attachment hardware included
- Can be cut to fit in the field

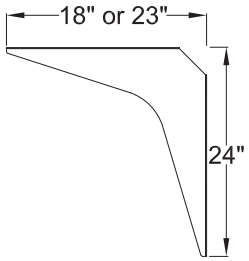
Panel End Supports



- Use in place of a cabinet at one end of a cabinet run to support drawer frames or apron rails
- Can be used to support the intersection of two aprons or rails
- Each panel has 2 leveling feet and is 2” (5.1 cm) wide

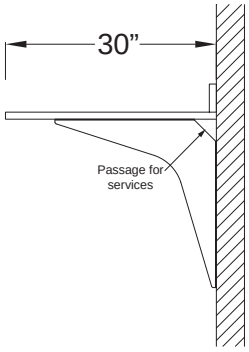
Sitting Height		
JPTPO-2822	22” D (55.9 cm)	27.565” H (70 cm)
ADA Height		
JPTPO-3222	22” D (55.9 cm)	32.605” (82.8 cm)
Standing Height		
JPTPO-3522	22” D (55.9 cm)	35.125” (89.2cm)

Heavy Duty Wall Mount Bracket Countertop Support

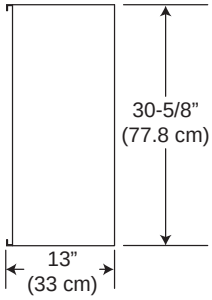


- In-wall blocking required
- 2" (5.1 cm) wide return flange with mounting holes at top and rear

FF-CTOP-18	18” D (45.7 cm)
FF-CTOP-23	23” D (58.4 cm)



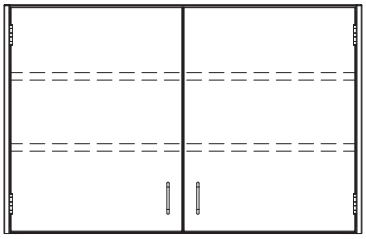
Section



CornerStone Wall Cabinets

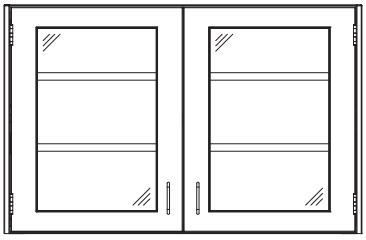
- Provided without locks
- 30.6" (77.8 cm) Tall x 13" (33 cm) Deep
- Standard Color: Pearl White
- Two adjustable shelves
- Flush Bottom

Solid Door Wall Cabinets



JTP203-36	36" W (91.4 cm)
JTP203-48	48" W (121.9 cm)

Framed Glass Wall Cabinets

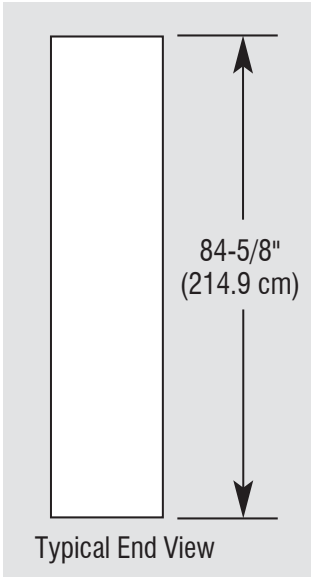


JTP206-36	36" W (91.4 cm)
JTP206-48	48" W (121.9 cm)

Rear Wall Cabinet Filler

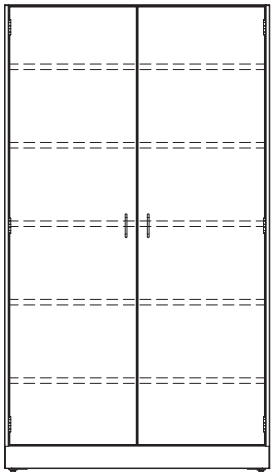
JC1392N0124P

Solid Door Tall Cabinets



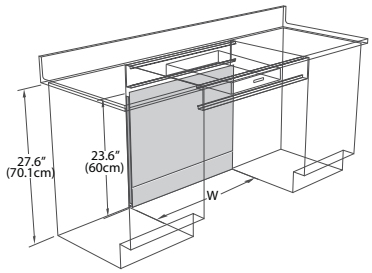
CornerStone Steel Tall Cabinet

- Standard without locks
- Five shelves are included and are adjustable in half-inch increments
- Must be anchored to wall
- When installing tall cases under soffits, 85-1/2" (217.2 cm) minimum height is required from finished floor to finished soffit
- 84-5/16" Tall x 22" Deep
- Color: Pearl White

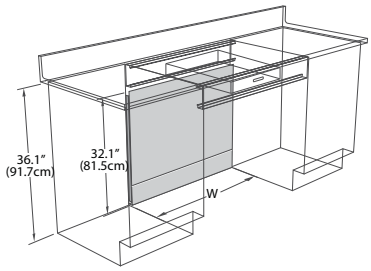


JTP303-36	36" W (91.4 cm)
JTP303-48	48" W (121.9 cm)

Knee Space Panels for use with Drawer Aprons

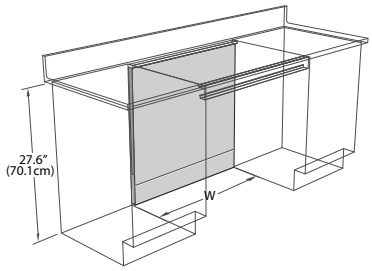


Sitting Height	
JKSL-3004	30" W (76.2 cm)



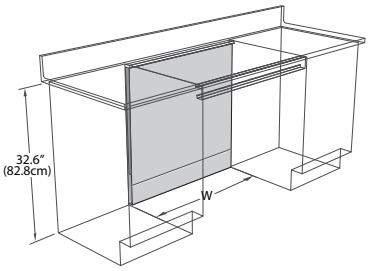
Standing Height	
JKSH-3004	30" W (76.2 cm)

Knee Space Panels for use with 2" High Apron Rails



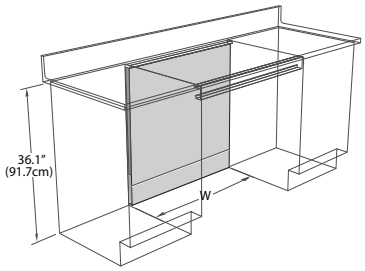
Sitting Height	
JKSL-ADJ*	ADJUSTABLE 12"-48" W (30.5 cm - 121.9 cm)

* Cut to fit and includes slip fit trim angle



ADA Height	
JKSA-ADJ*	ADJUSTABLE 12"-48" W (30.5 cm - 121.9 cm)

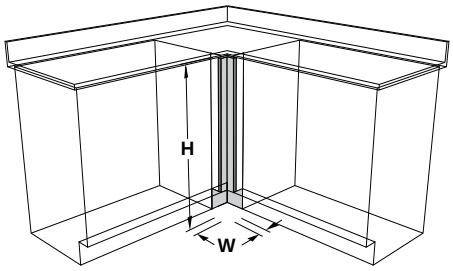
* Cut to fit and includes slip fit trim angle



Standing Height	
JKSH-30	30" W (76.2 cm)
JKSH-36	36" W (91.4 cm)
JKSH-ADJ*	ADJUSTABLE 12"-48" W (30.5 cm - 121.9 cm)
JKSH-72ADJ*	ADJUSTABLE 12"-72" W (30.5 cm - 182.9 cm)

* Cut to fit and includes slip fit trim angle

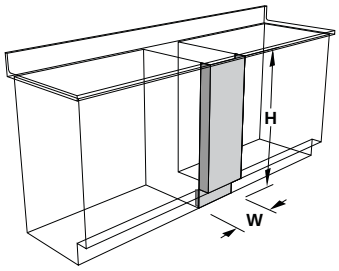
Corner Fillers



Standing Height - 36.1"	
JFCH-01	1” W (2.5 cm)
JFCH-ADJ*	ADJUSTABLE 2”-12” (5.1 cm - 30.5 cm)

* Cut to fit and includes slip fit trim angle

Front Fillers Panels

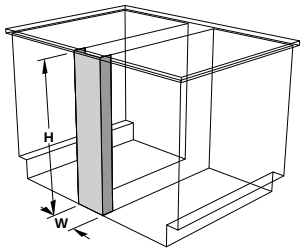


- For use between adjacent base cabinets or between a cabinet and the wall

Sitting Height - 27.6"	
JFFL-ADJ*	2”-18” W (5.1 cm - 45.7 cm)
Standing Height - 36.1"	
JFFH-01	1” W (2.5 cm)
JFFH-04	4” W (10.2 cm)
JFFH-08	8” W (20.3 cm)
JFFH-ADJ*	2”-18” W (5.1 cm - 45.7 cm)

* Cut to fit and includes slip fit trim angle

Rear and Center Fillers Panels

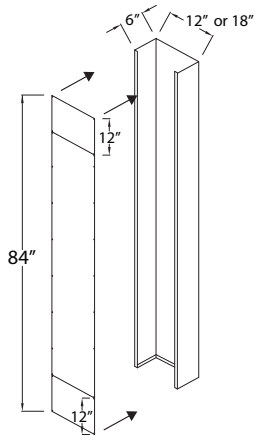


- For use between back-to-back base cabinets or to close space at the rear of the cabinet

Sitting Height - 27.6"	
JFRL-07	7 3/8” W (18.7 cm)
ADA Height - 32.6"	
JFRA-07	7 3/8” W (18.7 cm)
Standing Height - 36.1"	
JFRH-01	1 3/8” W (3.5 cm)
JFRH-07	7 3/8” W (18.7 cm)
JFRH-08	8 3/8” W (21.3 cm)
JFRH-14	14 3/8” W (36.5 cm)
JFRH-ADJ*	2” - 18” W (5.08 cm - 45.7 cm)

* Cut to fit and includes slip fit trim angle

Pipe Enclosures - Steel

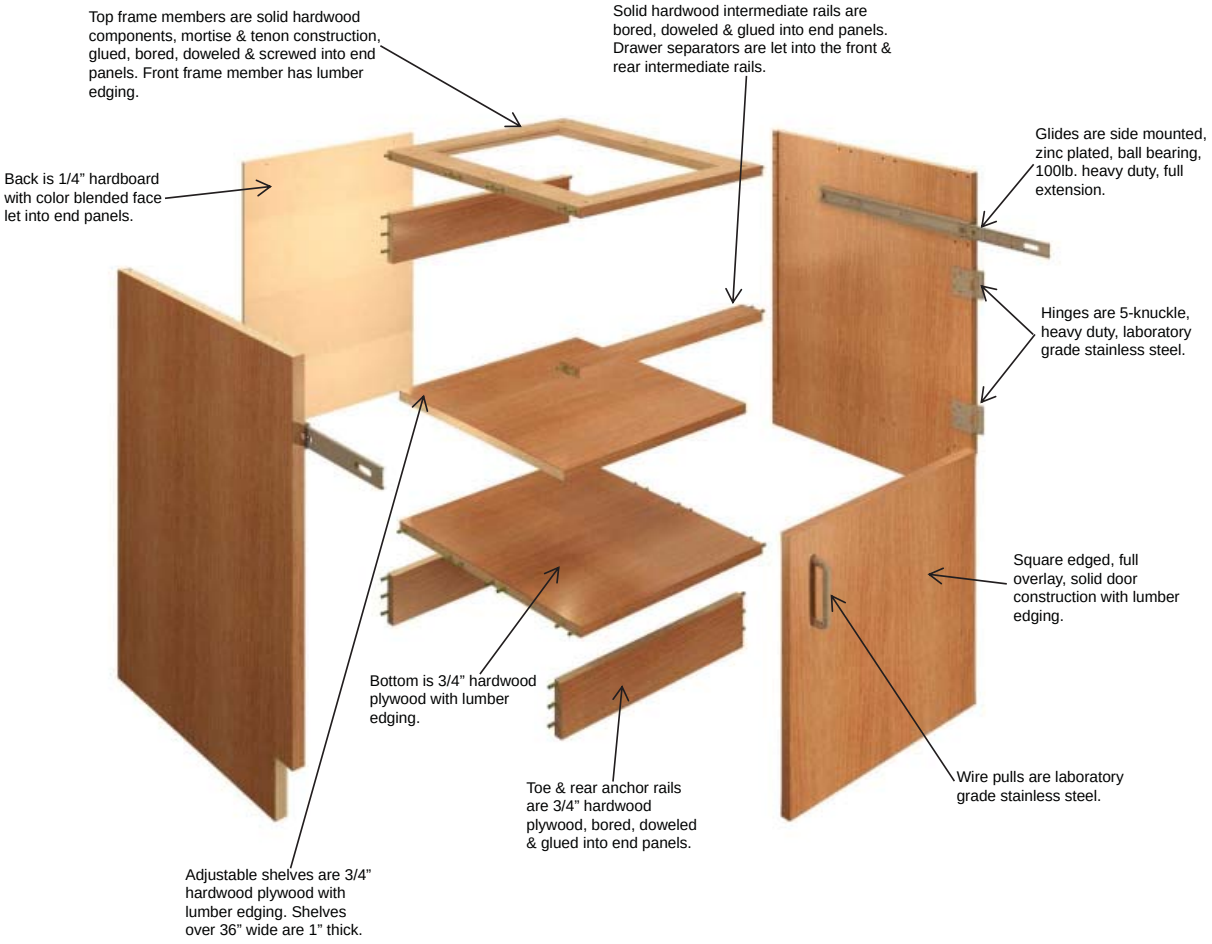


- Used to provide a cover for pipes running from the ceiling to the work surface
- Can be used for island or perimeter locations
- Can support pegboards or water purification systems
- Cover is pre-punched for attachment and is furnished in three sections for ease of access after installation

JP509-1284	83-1/2” T x 12” W x 6” D (212.1cm x 30.5cm x 15.2cm)
JP509-1884	83-1/2” T x 18” W x 6” D (212.1cm x 45.7cm x 15.2cm)

Tier One Premier Wood Cabinets

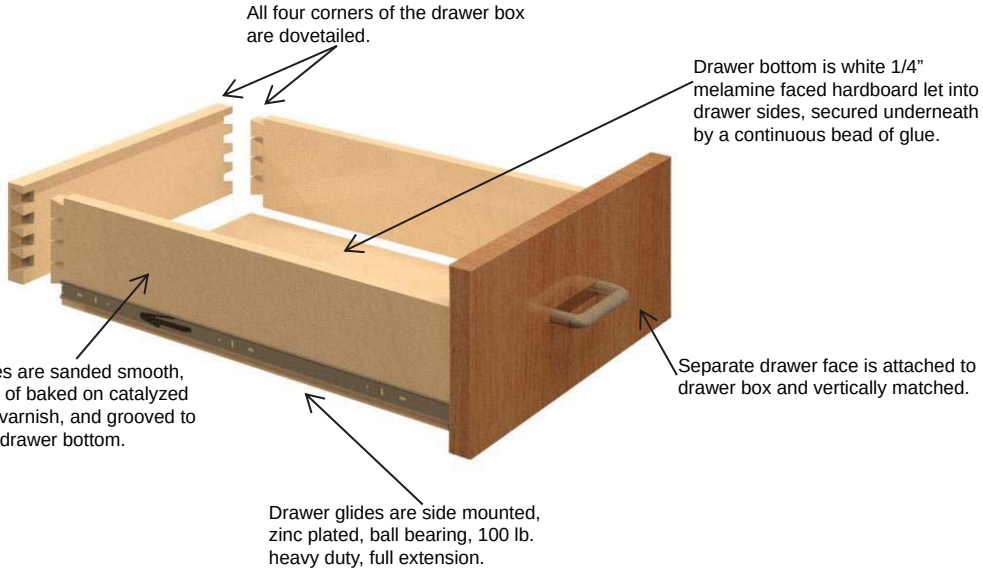
The perfect blend of old world craftsmanship and modern design



ICI Scientific's University and Research wood laboratory cabinets are made from hand selected premium rift cut oak grade A veneers, featuring a solid mortise/tenon top frame, doweled, glued and screwed European construction. Robotically applied environmental finishes are chemically resistant resulting in beautiful board room quality furniture. Cabinets are stained inside and out allowing for relocation during laboratory refits. Drawer glides are full extension heavy duty designed for commercial/industrial applications. Cabinet pulls and hinges are laboratory grade stainless steel. ICI's wood laboratory furniture has been independently tested and is SEFA 8 compliant. All of our products are supported by a 3 year warranty. We bring quality, warmth and durability to your laboratory. All ***INSTOCK*** wood laboratory cabinets come in ICI's chemically resistant "Amber" finish.

Please contact your Furniture Specialist for current lead times, as they vary per season.

Our complete program includes: Maples, Oaks, Cherry, Bamboo, European Steamed Beech, American White Ash, or other Exotic Species. Also, select from Seven Premier Finishes or a customized one to suit your project.



Door and Drawer Details:

ICI Scientific door and drawer construction is a well established quality standard for the laboratory marketplace. Hand selected premium rift cut oak grade A veneers, full flush overlay, vertical grain matching with tight reveals. All ***INSTOCK*** wood laboratory cabinets come in ICI's chemically resistant "Amber" finish.

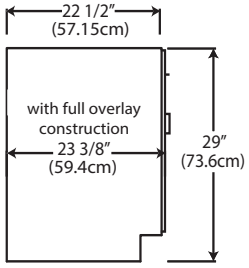
Three-Point Latching System:

ICI Scientific's tall case doors operate with a three-point latching system. The quality of a three-point latching system enables the door to be pulled securely shut. Tapered aluminum rods - which engage plastic strike plates at the top and bottom of the case - move in nylon glides attached to the back of the door. The middle of the door is secured by a latch plate, which engages the side of the case, or latches behind the left door on cases with double doors.

Hinges, Pulls & Locks:

ICI Scientific's hinges and pulls are made from stainless steel. The hinges are heavy duty laboratory grade and hospital tipped for consistency, strength and durability. They are certified to the rigors of SEFA-8 performance standards.

ICI Scientific locks are keyed alike per unit, master keyed and two keys are provided with each lock. All lock faces are chrome plated. A removable core system allows lock cores to be held out until the project is completed; removing the control security risk of lost or stolen keys during installation. Once installed, with the use of a control key, the lock core of the assembly can be removed and a new lock core inserted, changing an entire locking system in minutes.



ICI Wood Sitting Height Base Cabinet

- All cabinets with drawers have a fixed back
- All cabinets with a door have a removable back
- Order work surfaces separately
- 29" (73.7 cm) Tall
- Finish: Amber

Door Cabinets

2644RB	36" W (91.4 cm)

Door/Drawer Cabinets

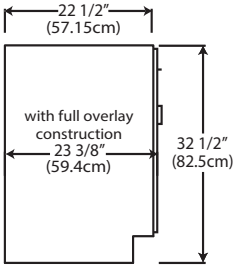
2444RB	18" W (45.7 cm)

Drawer Cabinets

2550	24" W (61 cm)

Drawer Cabinets

2454	18" W (45.7 cm)



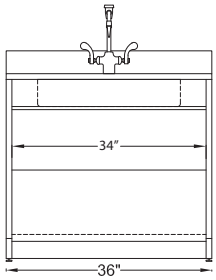
ICI Wood ADA Height Base Cabinet

- All cabinets with drawers have a fixed back
- Order work surfaces separately
- 32 1/2" (82.6 cm) Tall
- Finish: Amber

Drawer Cabinets

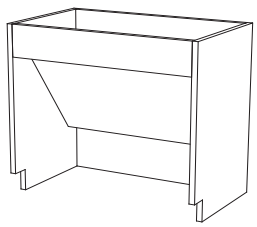
3644	18" W (45.7 cm)

Sink Cabinets

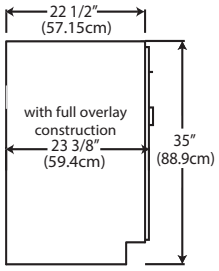


- Maximum sink depth 6"
- Order sink and fixture separately

8760EP	36" W (91.4 cm)



3-D drawing of sink cabinet



ICI Wood Standing Height Base Cabinet

- All cabinets with drawers have a fixed back
- All cabinets with a door have a removable back
- Order work surfaces separately
- 35" (88.9 cm) Tall
- Finish: Amber

Door Cabinets

1504RB	30" W (76.2 cm)
1506RB	36" W (91.4 cm)
1510RB	48" W (121.9cm)

Door/Drawer Cabinets

Right Hinged	
1234RB	18" W (45.7 cm)
1238RB	24" W (61 cm)

1574RB	36" W (91.4 cm)
1576RB	42" W (106.7 cm)
1578RB	48" W (121.9cm)

Drawer Cabinets

1264	18" W (45.7 cm)
1268	24" W (61cm)

1960	36" W (91.4 cm)

2036	48" W (121.9 cm)

Sink Cabinets

2358	36" W (91.4 cm)
2362	48" W (121.9 cm)

End Island Sink Cabinets

2411	58 1/4" W (147.9 cm)

Corner/Sink Cabinet

2414	34 1/4" W (86.9 cm)

Acid Storage Cabinet

- Liner and Vent Kit included

6780A36SA	36” W (91.4 cm)

Solvent Storage Cabinet

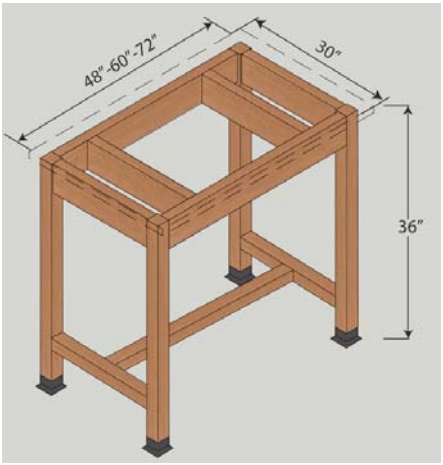
- UL listed
- Meets all standards set by OSHA and NFPA

6780-V1	36” W (91.4 cm)

Standard Hood Cabinets

1504RB	30” W (76.2 cm)
1506RB	36” W (91.4 cm)
1510RB	48” W (121.9cm)

Wood Table Assemblies



- Table assemblies include a 4 7/8” (12.4 cm) high apron, end legs and spreaders as shown
- End legs are furnished complete with leveling feet and black floor boots. Tables are shipped in pieces to be assembled in the field
- Available work surfaces are black 1” (2.5 cm) thick epoxy or phenolic resin. They overlap the table frame by 1” (2.5 cm)

Table Frame	Table Size (Including optional work surface)	Black Epoxy Work Surface	Black Phenolic Work Surface
6503-36	48” W x 30” D x 36” H (121.9 cm x 76.2 cm x 91.4 cm)	TLE-4830	TLP-4830
6512-36	60” W x 30” D x 36” H (152.4 cm x 76.2 cm x 91.4 cm)	TLE-6030	TLP-6030
6528-36	72” W x 30” D x 36” H (182.8 cm x 76.2 cm x 91.4 cm)	TLE-7230	TLP-7230

Wood Mobile Cabinets

- Cabinets are 22” deep and 33” tall (with casters) with a finished back
- Mobile cabinets include locking swivel casters and a solid wood top
- Anti-tip design

3624-FBCAT	24” W (61 cm)

- Cabinets are 22” deep and 33” tall (with casters) with a finished back
- Mobile cabinets include locking swivel casters and a solid wood top
- Anti-tip design
- Includes drawer interlock system

3618-FBCAT	24” W (61 cm)

Apron Frame with Drawer

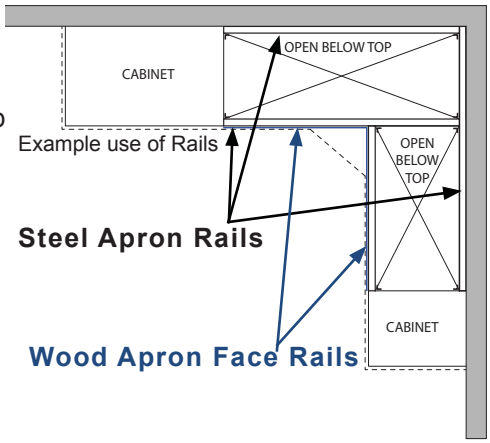
7012-30	30” W (76.2 cm)	22” D (55.8 cm)

Apron Rail

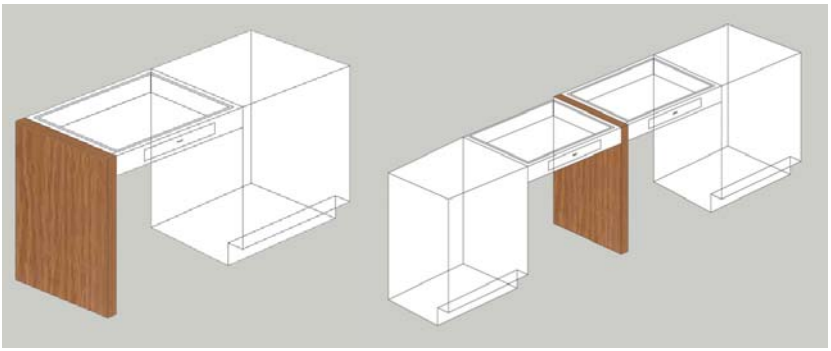
6974PWV-30	30” W (76.2 cm)
6974PWV-36	36” W (91.4 cm)
6974PWV-48	48” W (121.9 cm)
6974PWV-72	72” W (182.9 cm)

Apron Rail

- Height of apron rails is 2 1/2” (6.4cm)
- Sturdy painted steel “C” channel sub frame design, to be ordered separately to create apron assembly
- 3/4” (1.9 cm) wood apron face rail is attached to sub frame
- Apron rail assemblies are required for front and back support of open spans of work surface
- Face rails can be cut to fit in the field
- Face rail is vertical grain and edge banded on bottom side

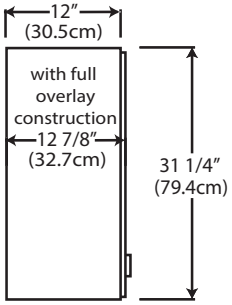


Panel End Supports



- Use in place of a cabinet at one end of a cabinet run to support drawer frames or apron rails
- Can be used to support the intersection of two aprons or rails
- Each panel has 2 leveling feet and is 1” wide

Sitting Height		
9200L-36	22 1/2” D (57.2 cm)	29” H (73.7 cm)
ADA Height		
9200L-32	22 1/2” D (57.2cm)	32 1/2” H (82.6 cm)
Standing Height		
9200L-35	22 1/2” D (57.2 cm)	35” H (88.9 cm)



ICI Wood Wall Cabinets

- Two shelves are included and are adjustable in 1 1/4” increments
- Cases have recessed backs with wall hanger cleats
- Finish: Amber

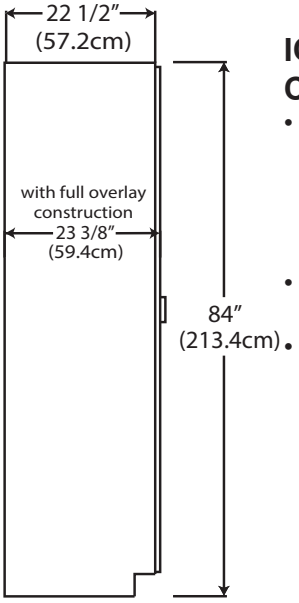
Solid Wall Cabinet

4718	36” W (91.4 cm)
4722	48” W (121.9 cm)

Framed Glass Wall Cabinet

4790	36” W (91.4 cm)
4794	48” W (121.9 cm)

Tall Cabinet Section



ICI Wood Tall Cabinets

- Five shelves are included and are adjustable in 1 1/4” increments and one fixed center shelf
- Must be anchored to wall
- When installing tall cabinets under soffits, 85 1/2” minimum height is required from finished floor to finished soffit

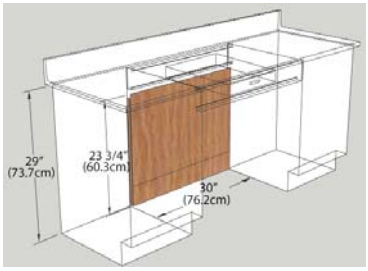
Solid Swinging Door Tall Cabinet

5688	36” W (91.4 cm)
5692	48” W (121.9 cm)

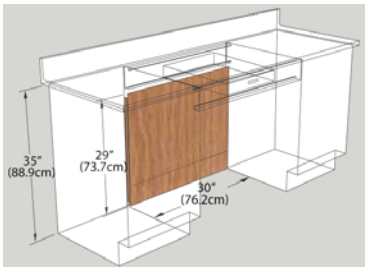
Framed Glass Swinging Door Tall Cabinet

5724	36” W (91.4 cm)
5728	48” W (121.9 cm)

Knee Space Panels for use with Drawer Aprons

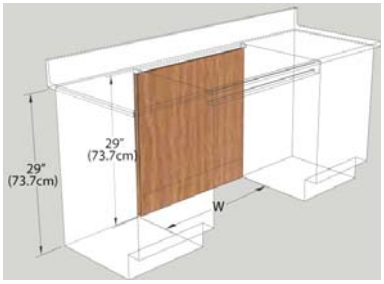


Sitting Height	
9024-30	30” W (76.2 cm)

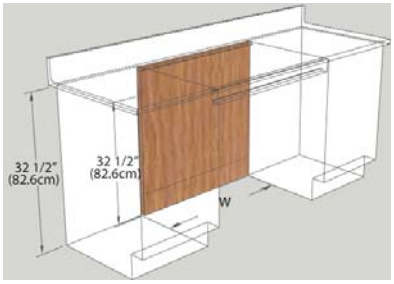


Standing Height	
9029-30	30” W (76.2 cm)

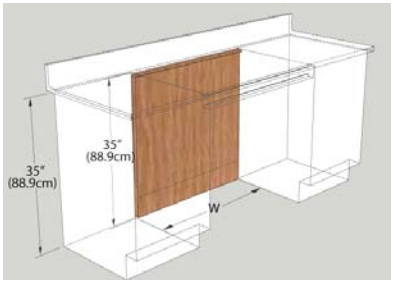
Knee Space Panels for use with 2” High Apron Rails



Sitting Height	
9027-48*	48” W (121.9 cm)



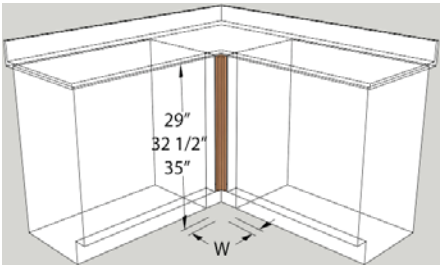
ADA Height	
9024-48*	48” W (121.9 cm)



Standing Height	
9030-48	48” W (121.9 cm)
9030-72	72” W (182.8 cm)

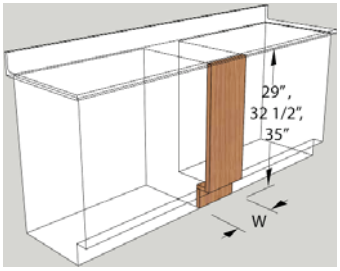
* Cut to fit and includes slip fit trim angle

Corner Fillers



Sitting Height	
9129T-3	3" W (7.6 cm)
9129T-12	12" W (30.5 cm)
ADA Height	
91325T-3	3" W (7.6 cm)
91325T-12	12" W (30.5 cm)
Standing Height	
9135T-3	3" W (7.6 cm)
9135T-12	12" W (30.5 cm)

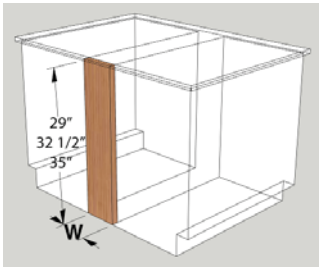
Front Fillers Panels



- For use between adjacent base cabinets or between a cabinet and the wall

Sitting Height	
9029T-18	18" W (45.7 cm)
ADA Height	
90325T-18	18" W (45.7 cm)
Standing Height	
9035T-18	18" W (45.7 cm)

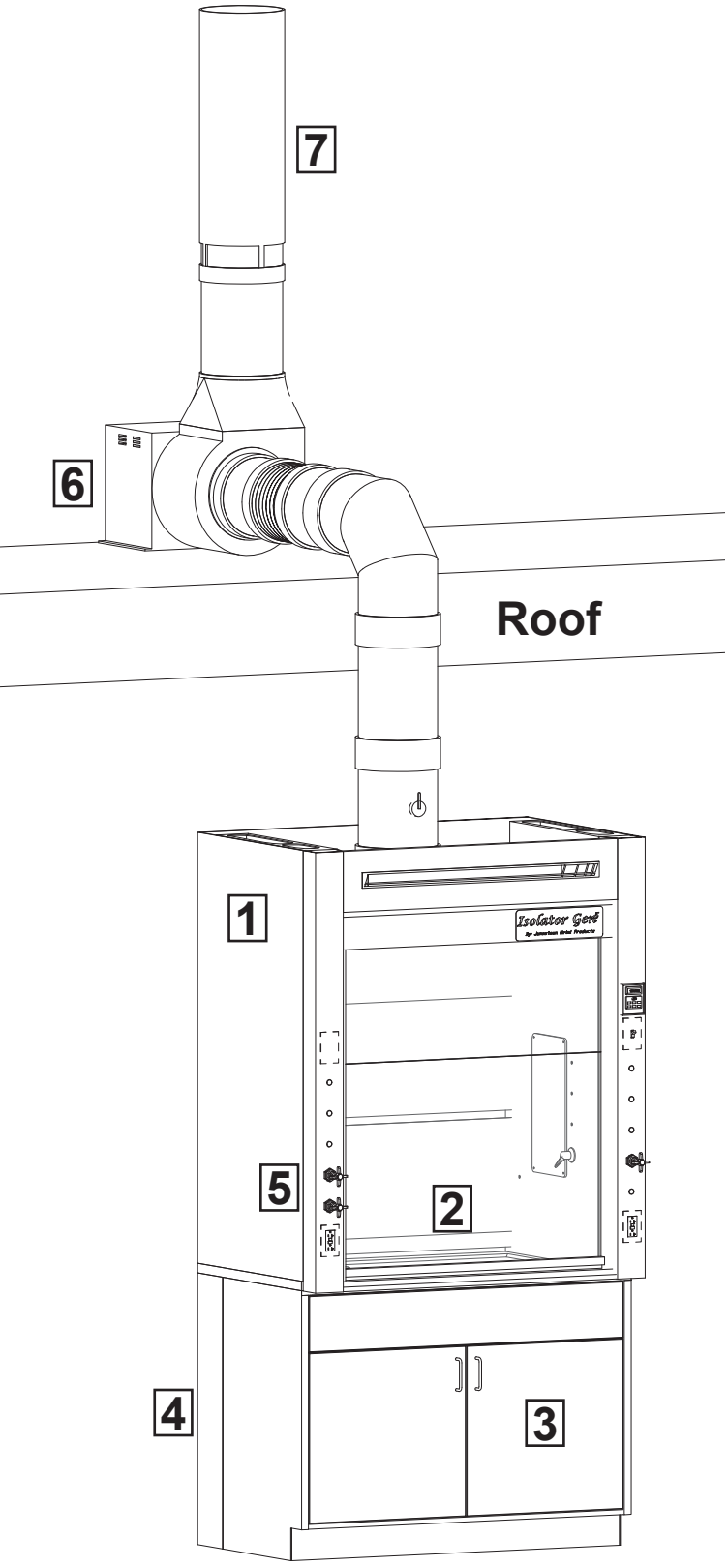
Rear and Center Fillers Panels



- For use between back-to-back base cabinets or to close space at the rear of the cabinet

Sitting Height	
9029-18	18" W (45.7 cm)
ADA Height	
90325-18	18" W (45.7 cm)
Standing Height	
9035-18	18" W (45.7 cm)

Selecting a Complete Fume Hood



1. Select the Fume Hood Style and Size	Page
□ General Purpose Bench Hood	26
□ 4 ft. □ 5 ft. □ 6 ft. □ 8 ft.	
□ General Purpose Walk-In Hood - Standard Depth	28
□ 4 ft. □ 5 ft. □ 6 ft. □ 8 ft.	
□ General Purpose Walk-In Hood - Extra Deep	28
□ 4 ft. □ 5 ft. □ 6 ft. □ 8 ft.	

2. Select a Work Surface and Sink	Page
□ Standard Work Surface	31
□ 4 ft. □ 5 ft. □ 6 ft. □ 8 ft.	
□ Work Surface with Cup Sink	31
□ 4 ft. □ 5 ft. □ 6 ft. □ 8 ft.	
□ Sink Location	31
□ Left □ Right □ Both	

3. Select Base Storage Cabinets	Page
□ Steel Cabinets	9
□ General □ Acid Storage □ Solvent Storage	
□ Wood Cabinets	19
□ General □ Acid Storage □ Solvent Storage	

4. Select Cabinet and Hood Trim	Page
□ Steel Cabinet Trim	31
□ Face and CeilingFiller	
□ Ceiling Enclosure	31

5. Select Service Fittings	Page
□ Standard Fittings	30
□ Air □ Gas □ Vac □ CW □ Nitrogen	
□ DW □ CW Gooseneck	
□ Airflow Alarm □ Electrical	30

6. Select Exhaust Fan	Page
□ Blower Recommendation Chart	34
□ General Purpose Hood Fan	37

7. Select Ductwork and Weather Cap	Page
□ Ductwork and Accessories	35-36

Detailed information on selecting the right fume hood for your requirements can be found in the Technical Section, which starts on page 114.

Hood Design Options to Fit Any Need with Unlimited Customization

ICI Scientific provides chemical fume hoods with exceptional safety, function, style & adaptability.

Our complete fume hood offering includes:

- Traditional Constant Volume
- ADA Accessible
- Full Access Walk-in
- Isotope
- Perchloric Acid
- CAV, VAV & High Performance Hoods Available
- UL 1805 Listed
- 3-Year Warranty
- Distillation
- Demonstration
- Double Sided
- Teaching
- Custom Enclosures
- Lifetime Warranty on Chain & Sprocket Sash Mechanism
- True One Finger Sash Operation
- Easy Maintenance & Long Product Life Cycle

For over 70 years, ICI has been developing innovative and purpose driven products for the research and healthcare industries. Our highly experienced team of engineers and designers are proud to introduce our latest effort: Isolator³.
Isolator³ is the latest generation of energy saving high performance fume hoods, built upon extensive R&D. Utilizing computational fluid dynamics, ICI was able to develop a safe and superior operating environment without the need for additional components to add or inject air into the hood chamber. By controlling baffle pressurization, Isolator³ achieves the proper capture and containment at a 60 FPM face velocity. Additionally, we do it with a sash opening of 24" (61 cm). JMP's chemical exhaust fume hoods meet or exceed SEFA 1 standards.

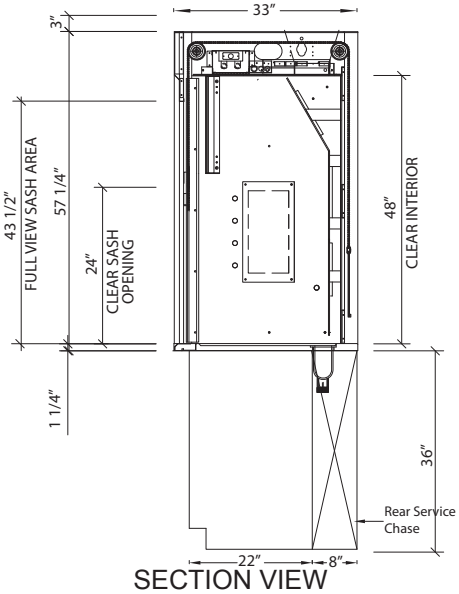
INSTOCK®

4', 5' and 6' Bench Fume Hoods ship in 6 days

- 24" (61 cm) deep clear interior
- Low static rectangular exhaust duct
- Integral stainless steel 12" (30.5 cm) round duct transition
- Slotted rear baffle for even plenum balance
- Safe operation at 60 fpm
- Chemically resistant white Poly glass liner
- UL1805 listed, ANSI/ASHRAE 110-1995, UL1275
- Three year hood superstructure warranty
- Chain & Sprocket sash mechanism with the exclusive ICI lifetime warranty
- Exclusive standard 43 1/2" (110.5 cm) tall full view sash area
- Tempered glass sash with full-length formed steel handle for a neat, clean appearance and streamline air passage
- Color: Pearl White

			Total CFM & Static Pressure			
Isolator³ Part Number with frame less vertical sash	**Overall Hood Width**	**Sash Opening Area (Sq Ft)**	**24" (61 cm) Vertical Opening @ 60 FPM Face Velocity**	**S.P. Loss**	**18" (45.7 cm) Vertical Opening @ 80 FPM Face Velocity**	**S.P. Loss**
F-350-48G5IN	4'-0" (121.9 cm)	6.3	380 CFM	0.21"	380 CFM	0.12"
F-350-60G5IN	5'-0" (152.4 cm)	8.3	500 CFM	0.20"	500 CFM	0.11"
F-350-72G5IN	6'-0" (182.9 cm)	10.3	620 CFM	0.31"	620 CFM	0.17"
F-350-96G5IN*	8'-0' (243.8cm)	14.3	860 CFM	0.27"	860 CFM	0.15"

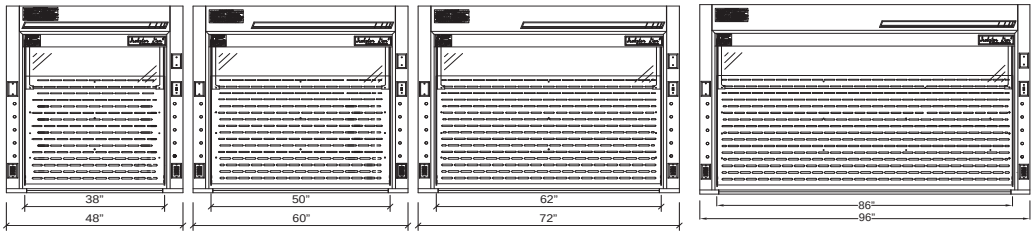
* This hood available for shipment in 7-8 weeks



SECTION VIEW

***INSTOCK*® Hood Features**

- Two pre-wired 120V 20amp GFCI duplex receptacles
- One pre-wired 20amp light switch
- Pre-wired vapor tight T8 fluorescent light fixture
- Each hood side post and interior is punched and plugged to receive 5 service fixtures
- Upper left side post is punched for optional fan switch
- One pre-wired outlet on roof of hood for an optional alarm
- Upper right side post is punched for optional alarm

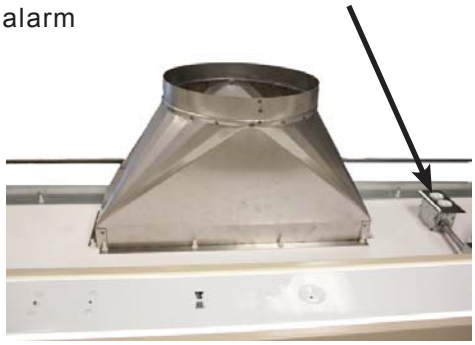


F-350-48G5IN F-350-60G5IN F-350-72G5IN F-350-96G5IN

Full width sash weight at rear of hood

Heavy duty chain and sprocket sash mechanism with an exclusive lifetime warranty

Pre wired outlet for available alarm



Integral stainless steel 12” (30.5 cm) round duct transition (8' fume hood includes 2 ea.)

Exclusive 43 1/2” (110.5 cm) tall “full view” sash area

High performance baffle design, which can be used in both low and standard volume applications

Hood post and interior is punched to receive 5 service fixtures and a fan switch

Hood is fully pre wired with two GFCI duplex outlets, light fixture, light switch and outlet on the roof

Full range of standard and specialty storage base cabinets

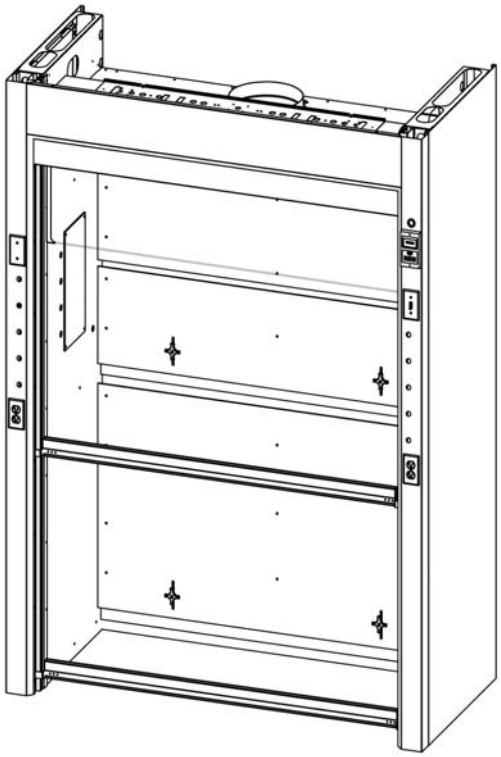
Acid cabinets are furnished with a chemical resistant lining that has a 1 1/2” (3.8 cm) spill lip. Exhaust vent kit is included.

The Isolator Gen-5 bypass walk-in fume hood with the frameless vertical sash is similar to the bench style unit in design and function. The top view-pass is clear tempered glass. These units are normally used with tall equipment setups where maximum clarity of vision is a priority. When floor mounted, the walk-in's top fascia aligns with a standard bench hood thus providing a clean look to any design utilizing both types of hood. The Isolator Gen-5 design and construction enhances its value by providing:

- Unparalleled user safety
- Full hood access for easy set ups
- Years of maintenance free service
- Unmatched ease of use with a chain driven sash operation
- Unique design qualities for unlimited customization possibilities
- Field conversion between Constant Air Volume (CAV) and Variable Air Volume (VAV) with a restricted by-pass

Features:

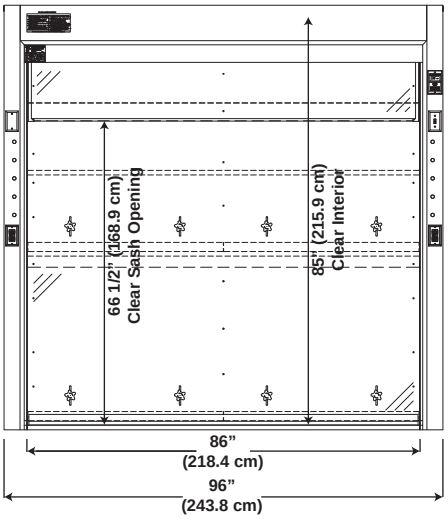
- Unsurpassed containment (designed and tested to exceed ASHRAE 110-1995)
- Hood is UL1805/CUL certified listed
- Unique chain driven sash mechanism that comes with a lifetime warranty
- Painted steel pan substructure
- 17.25" H. clear observation glass panel, bypass system
- Non-metallic interior
- Vertical sashes provide the greatest hood interior access
- Full view frameless sash with 66-1/2" upper and lower sash openings
- Quality engineering ensures years of reliable service
- White Polyglass liner
- Prewired T8 light and switch
- 2 prewired GFCI duplex outlets
- Prewired duplex outlet on hood roof for optional alarm
- Can be pre-plumbed with remote rod driven fixtures.
- Walk-in hoods are available for shipment in 7-8 weeks
- These hoods are furnished in Pearl White
- Other sash configurations and hood styles available upon request
- Epoxy resin work decks available upon request



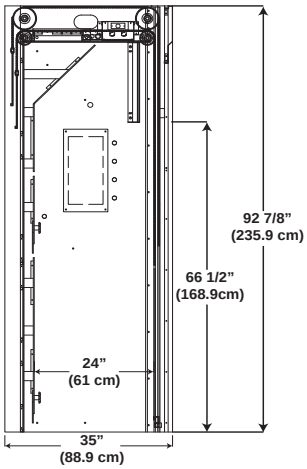
Walk-in hoods are available for shipment in 7-8 weeks.

			Total CFM & Static Pressure			
Isolator GEN5 Part Number with frameless vertical sash	**Overall Hood Length (Clear working length is 10" less)**	**Work Surface Depth (Clear working depth)**	**31 1/2" Vertical Open Upper Sash @ 100 FPM**	**S.P. Loss**	**18" Vertical Open Upper Sash @ 100 FPM**	**S.P. Loss**
F-200-48G5IN	4'-0" (121.9 cm)	24" (61 cm)	858 CFM	.39"	501 CFM	.13"
F-200-48G5D30IN	4'-0" (121.9 cm)	30" (76.2 cm)	858 CFM	.39"	501 CFM	.13"
F-200-60G5IN	5'-0" (152.4 cm)	24" (61 cm)	1128 CFM	.37"	660 CFM	.13"
F-200-60G5D30IN	5'-0" (152.4 cm)	30" (76.2 cm)	1128 CFM	.37"	660 CFM	.13"
F-200-72G5IN	6'-0" (182.9 cm)	24" (61 cm)	1399 CFM	.57"	818 CFM	.19"
F-200-72G5D30IN	6'-0" (182.9 cm)	30" (76.2 cm)	1399 CFM	.57"	818 CFM	.19"
F-200-96G5IN	8'-0' (243.8cm)	24" (61 cm)	1941 CFM	.50"	1135 CFM	.17"
F-200-96G5D30IN	8'-0' (243.8cm)	30" (76.2 cm)	1941 CFM	.50"	1135 CFM	.17"

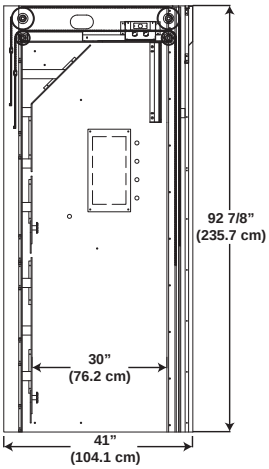
Walk-In Fume Hood Dimensions



F-200-96G5 - with dimensions



Standard Depth Section



30" Depth Section

Further details on our Walk-In hoods and what is standardly provided:

- All hoods are available in both a standard 24" depth as well as a 30" deep format (D30)
- 2 pre-wired GFCI Duplex outlets
- Pre-wired T8 light and switch
- Each hood side post and interior is punched and plugged to receive 5 service fixtures
- Upper left side post is punched for optional fan switch
- One pre-wired outlet is provided on roof of hood for an optional alarm
- Upper right side post is punched for optional alarm
- Adjustable baffles

Fittings for Fume Hood

These WaterSaver brand remote control fittings consist of a brass angle valve with a replaceable seat, an epoxy coated brass nylon color-coded panel flange with angle serrated hose connector, a remote control rod assembly with a plastic flange and a tank nipple, locknut and washer. Fittings may be used on either side of hood. Shipped loose and installed in field.

Fitting Type	Part Number
Air (Orange)	L3185N-LR-A
Gas (Dark Blue)	L3185N-LR-G
Nitrogen (Brown)	L3185N-LR-N
Vacuum (Yellow)	L3185N-LR-V

External Vacuum Breaker

Shipped loose and installed in field.

Fitting Type	Part Number
External Vacuum Breaker	L112WSA

Cold Water Fitting for Fume Hood

These WaterSaver brand remote control fittings consist of a brass angle valve with a replaceable seat, and epoxy coated brass nylon color-coded panel flange with a gooseneck with a vacuum breaker, a remote control rod assembly with a plastic flange and a tank nipple, locknut and washer. Shipped loose and installed in field.

Fitting Type	Part Number
Cold Water with Vacuum Breaker	L3185W-9RSVB

Cold Water Fitting for Fume Hood

These WaterSaver brand remote control fittings consist of a brass angle valve with a replaceable seat, and epoxy coated brass nylon color-coded panel flange with a goose-neck without a vacuum breaker, a remote control rod assembly with a plastic flange and a tank nipple, locknut and washer. Shipped loose and installed in field.

Fitting Type	Part Number
Cold Water without Vacuum Breaker	L3185W-9RS

Fume Hood Alarm

Each INSTOCK fume hood is fully pre-punched, for the fast and easy installation of this alarm.

The TEL AFA-1000 provides a digital readout of the fume hood face velocity and sounds an alarm when the airflow falls below safe levels. Consisting of a thermostat sensor (mounted through the side wall of the fume hood) and a monitor (mounted on the fascia), the unit gives both a visual and audible alarm. A glowing green light signals when conditions are safe. The monitor also contains a test/reset button allowing the user to verify alarm readiness. The TEL AFA-1000 operates on a 9V DC circuit and comes complete with an adapter that is plugged into a pre wired 120 VAC receptacle on the roof of the hood.

Product	Part Number
Fume Hood Alarm	AFA1000/1-MK3

Fan Blower Switch

Manual fan motor starter switch, toggle style, single pole, with red pilot light, stainless steel cover plate, 1 thermal unit, for 1 HP maximum motor size

Product	Part Number
For use with a 1 HP fan	2510FS1P
For use with a 2 HP fan	2510FS2P

Bench Fume Hood Work Tops

These modified black epoxy resin work tops are dished to retain spills. They are available with or without a drop in cup sink hole. **Cup sinks are found on page 105.**

Bench Fume Hood Width	Part Number w/o Cup Sink	Part Number w/ Cup Sink Cutout (Left)	Part Number w/ Cup Sink Cutout (Right)	Part Number w/ Cup Sink Cutouts (Both Sides)
4’-0” (121.9 cm)	WL-48B	WL-48BCSL	WL-48BCSR	WL-48BCSB
5’-0” (152.4 cm)	WL-60B	WL-60BCSL	WL-60BCSR	WL-60BCSB
6’-0” (182.9 cm)	WL-72B	WL-72BCSL	WL-72BCSR	WL-72BCSB
8’-0” (243.8 cm)	WL-96B	WL-96BCSL	WL-96BCSR	WL-96BCSB

Adjustable Height Fume Hood Ceiling Enclosure

These three sided ceiling enclosures are designed to fill the space between the top of the hood and the ceiling up to 24” (61 cm) in height to provide a clean finished appearance. The enclosure is cut to fit in the field and includes a slip to fit ceiling finish trim angle.

Fume Hood Width	Part Number
4’-0” (121.9 cm)	CE048P-NA-24GG
5’-0” (152.4 cm)	CE060P-NA-24GG
6’-0” (182.9 cm)	CE072P-NA-24GG
8’-0” (243.8 cm)	CE096P-NA-24GG*

Gravity Sash Stop

As a safety or energy conservation measure, a sash stop may be added to any of our hoods. It may be mounted at any distance above the lower deflector vane to keep the sash from rising past that point. When needed, the stop may be pivoted out of the way.

Product	Part Number
Gravity Sash Stop	SP01

Variable Air Volume Fume Hood Controller

Safer and More Efficient Hood Operation

TEL's Fume Hood Controller is a pioneering VAV airflow controller, monitor and alarm system developed to ensure the safety of users and provide energy efficient fume hood operation. The Fume Hood Controller can directly provide controlled outputs for VFD fan speed control, or be supplied with a relay interface unit and actuator for damper/valve control. Boasting a simple, yet intuitive, user interface that has been optimized for user experience, the Fume Hood Controller is easy to navigate and features a simple two-step calibration process with on-screen prompts to guide end users. The Fume Hood Controller has built-in comms and can be used with either Modbus or BACnet protocol. Featuring an innovative temperature compensated hot wire sensor, the Fume Hood Controller has no inherent drift, meaning that the sensor will provide stable readings over many years of operation ensuring reliability and safety.

Features include:

- LCD display for continuous velocity reading in m/sec or fpm
- Programmable push buttons: i.e. FAN on/off, purge, etc.
- BACnet and Modbus on board
- Velocity bar graph or fault time line over the last 60 minutes.
- Audible alarm with Red, Amber & Green LEDs
- 3 Relay inputs and 3 Relay outputs
- Push button for night setback
- Direct Volumetric measurement
- Energy cost reduction of up to 85%
- Password protected
- Zone presence sensor supports
- Sash position sensor supports

Part Number	AFA1000/E/MK3/INV/TEL	AFA1000/E/MK3/TEL (w/ actuator & interface)
Alarm Range	0.15-5.00 m/s (30-999 fpm) remote SM6 or ILS Airflow Sensor	
Control Range	Face Velocity Control 30-300 fpm (0.15-1.5 m/s)	
Control Resolution	2 fpm (0.01 m/s)	
Control Response	< 2 Seconds	
Control Output 1	0-10/2-10VDC Control Output	
Control Output 2	0-10/2-10VDC Control Output for bleed or Supply Air Damper/Inverter or 0-10VDC Volumetric Output	
Field Set Up	2 Point velocity calibration with on screen instructions	
Accuracy	Face Velocity ±2 fpm	
Airflow Sensor	Remote SM6/ILS	
Pushbuttons	3 Configurable pushbuttons	
Relay Output	3A, 120VAC/30VDC	
Relay Input	3 Configurable Digital/Analog inputs	
Com Port	RS485 com port Modbus RTU and BACnet	
Display	Digital velocity display fpm / m/s 3 x LED's (Safe/Caution/Alarm)	
Alarm Indication	Red LED with Audible alarm	
Mounting	Semi Flush	
Monitor Operating Temperature Range	55-86°F (13-30°C)	
Airflow Sensor Operating Temperature	59-86°F (15-30°C)	
Storage Temperature	-40 - 105°F (-40 - 65°C)	
Agency Listings	CE RoHS	
Hazardous Area (Remote Airflow Sensor)	Gas group IIC Temp Class T6 with Atex certified I.S Zener Barriers	
Connections	Flying leads with plug in connections (2m-5m) Max 24VDC	

Auto Sash Operator and Controller

Safer and More Efficient Hood Operation

TEL's innovative fume hood auto sash controller can be retrofitted to any fume hood and control system to maximize energy savings and provide increased safety for the operator. The auto sash controller is designed to close the sash of vertically rising sash fume hoods automatically when the operator is not present in front of the fume hood. A passive infrared sensor (PIR) constantly monitors the work area in front of the fume hood. If a person is not detected and the sash opening is clear, the sash will automatically close after a predetermined time. When the operator is present, the sash can be operated manually via the optional Tiptronic touch pad. Auto-open option is also available. A dual auto sash controller is also available to operate fume hoods with two sashes including walk-in type, back-to-back type and side-by-side type sashes.

Features include:

- Auto Close
- Auto Open (user selectable - enabled/disabled/auto open if auto closed only)
- Tiptronic Open/Close - touch sensitive sash movement (menu selectable)
- Manual sash operation
- Keypad Pushbutton Open/Close
- Mute Audible Alarm Button
- Inputs to BMS from Sash closer:
  - External Alarm Sounder Output
  - Sash position (0-10v/4-20mA)
  - Sash Open or Sash Closed
  - Sash sensor broken
  - Sash Obstruction
- Outputs from BMS to Sash Closer:
  - Emergency, Open/Close sash
  - Fire Alarm, Close
  - Close Sash
  - Open Sash

	Tiptronic Auto Sash Controller
Power Supply	100/240VAC 50/60Hz 3A
Keypad	2 Line, 16 Characters Backlit LCD with membrane pushbuttons Single gang socket (3x2)
Motor Drive Assembly	PWM output DC Motor & Clutch
Personnel Sensor	PIR with background learn function
Sash Position Sensor	Stainless Steel Cable, Potentiometer
Control Box	NEMA 4, ABS/PVC Flying leads with plug in connectors
Sash Obstruction Sensor	Light Curtain or Under Sash Sensor
Programming Access	Password protected
BMS Inputs	(4) programmable dry contact inputs
BMS Outputs	(4) programmable dry contact outputs (1) 0-10, 1-10, 0-5, 1-5 VDC or (1) 0-20, 4-20mA for sash position
Alarms	Audible DB and Visual
Agency Listings	CE RoHS
Comms	Additional plugin module for BACnet/Modbus

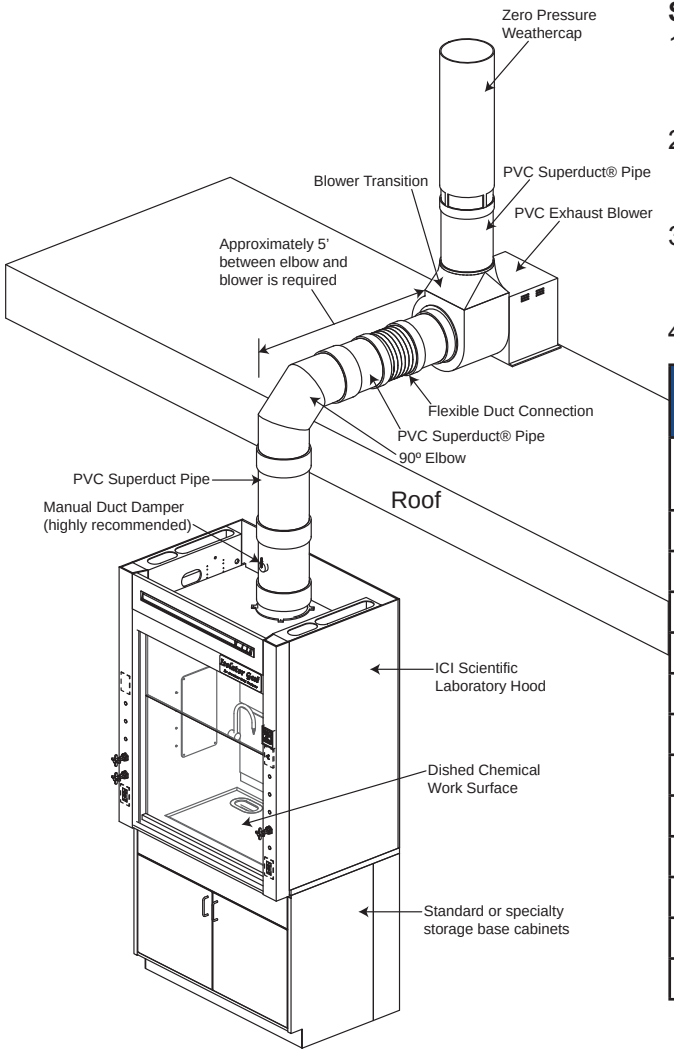
Part Number	Description
SASH CLOSER-P	Auto Sash Closer, Light Curtain Sensor, Pulley Motor Drive
SASH CLOSER-CS	Auto Sash Closer, Light Curtain Sensor, Chain & Sprocket Motor Drive
SASH CLOSER-USS-P	Auto Sash Closer, Under Sash Sensor, Pulley Motor Drive
SASH CLOSER-USS-CS	Auto Sash Closer, Under Sash Sensor, Chain & Sprocket Motor Drive
DUAL AUTO SASH CLOSER-USS-P	Dual Auto Sash Closer, Under Sash Sensor, Pulley Motor Drive
DUAL AUTO SASH CLOSER-USS-CS	Dual Auto Sash Closer, Under Sash Sensor, Chain & Sprocket Motor Drive

Exhaust System Recommendations

- Exhaust fans should be mounted on the roof so that the duct leading to the fan is under negative pressure. Please note that if exhaust fans are mounted inside the building, all duct connected to the fan outlet will be under positive pressure, and if leaks should develop in the portion of the duct inside the building, hazardous fumes could be forced out of the duct and into that area of the building.
- For the lowest possible noise level in the exhaust system, we suggest the following actions:
  - Use vibration isolators for mounting the exhaust fan.
  - Select an exhaust fan that will deliver the desired CFM and static pressure with the lowest practical impeller wheel RPM.
  - Use a flexible connection at the fan inlet to isolate transmission of noise from the duct to the hood.
  - Design the exhaust duct system with the fewest possible elbows or other fittings. Use radius type elbows and avoid square elbows.

Typical Fume Hood Ventilation System

The diagram below details of the components found in a typical fume hood ventilation system. All of these components as well as others are available within this catalog.



Hood Exhaust Blower Sizing

When sizing an exhaust blower, it is necessary to include the equivalent air movement resistance factors for all ductwork and accessories in the ventilation system. The equivalent resistance in feet of straight duct is provided for each ductwork fitting on the pages that follow.

Steps to sizing the right hood fan

1. Review the CFM and static pressure loss for the use of the selected fume hood. The catalog details provided for each hood indicate these values.
2. Add up all the equivalent resistance amounts in feet of straight duct of the ductwork, components, fittings and fume hood in your system.
3. Use the fan selection chart to cross reference the total CFM required as well as the system static pressure loss to select the right exhaust blower for your application.
4. Contact us for assistance if needed.

Duct Diameter	6"	8"	10"	12"	16"
Airflow/ CFM	Static pressure loss in inches of water for each 10' length of ductwork				
250	0.039	0.011	0.003	0.001	-
500	0.147	0.037	0.013	0.005	0.001
750	0.321	0.079	0.026	0.011	0.003
1000	0.557	0.140	0.043	0.018	0.005
1250	0.855	0.210	0.066	0.027	0.008
1500	-	0.300	0.095	0.039	0.012
1750	-	0.380	0.130	0.053	0.016
2000	-	0.485	0.155	0.067	0.020
2500	-	-	0.245	0.109	0.031
3000	-	-	-	0.145	0.042
4000	-	-	-	0.240	0.074
5000	-	-	-	-	0.120

PVC Superduct Pipe

PVC Superduct® Pipe is constructed of Type I Grade I PVC, Cell Class 12454B, as described in ASTM D-1784 with flame spread <10. A Female Duct Coupling is required to join two sections. Connections can be made using solvent cement. PVC is rigid and can be cut without the use of special tools. Pipe comes in 10' lengths.

Part Number	Nominal Diameter	Actual OD	Actual ID	Weight
1033-PP-06	6"	6.625"	6.25"	3 lbs
1033-PP-08	8"	8.625"	8.25"	4 lbs
1033-PP-10	10"	10.75"	10.38"	4 lbs
1033-PP-12	12"	12.75"	12.38"	5 lbs
1033-PP-16	16"	16"	15.63"	6 lbs

Duct Couplings, Female/Female

PVC coupling makes connections between two sections of PVC Superduct® Pipe quick and easy.

Part Number	Nominal Diameter	Actual OD	Actual ID	Weight
1034-CP-06	6"	6.625"	6.25"	3 lbs
1034-CP-08	8"	8.625"	8.25"	4 lbs
1034-CP-10	10"	10.75"	10.38"	4 lbs
1034-CP-12	12"	12.75"	12.38"	5 lbs
1034-CP-16	16"	16"	15.63"	6 lbs

Elbows

PVC Superduct® Pipe elbows, both 135° and 90°, are compatible with PVC Superduct Pipe. Designed and engineered for quick installation and minimum pressure losses, they feature belled end connections to receive PVC ductwork directly.

135°				
Part Number	Nominal Diameter	Centerline Height	Weight	Resistance in feet of straight duct
1034-45-06	6"	5.375"	8 lbs	6
1034-45-08	8"	5.812"	10 lbs	7.5
1034-45-10	10"	6.25"	12 lbs	10
1034-45-12	12"	6.625"	14 lbs	12.5
1034-45-16	16"	7.562"	17 lbs	18
90°				
Part Number	Nominal Diameter	Centerline Height	Weight	Resistance in feet of straight duct
1034-90-06	6"	10.5"	8 lbs	12
1034-90-08	8"	11.437"	10 lbs	15
1034-90-10	10"	14.7"	12 lbs	20
1034-90-12	12"	15.625"	14 lbs	25
1034-90-16	16"	18"	17 lbs	36

Thermoplastic Duct Reducers

PVC coupling type reducers are designed for connecting thermoplastic duct of different diameters. Compare your blower inlet size with your duct size to see if one is necessary.

Part Number	Nominal Diameter	Weight	Equivalent Resistance in feet of straight duct
1034-RC-0806	6" x 8"	2 lbs	0
1034-RC-1008	8" x 10"	5 lbs	0
1034-RC-1210	10" x 12"	6 lbs	0
1034-RC-1612	12" x 16"	8 lbs	0

Zero Pressure Weathercaps

The Zero Pressure Weathercap is made of strong corrosion-resistant PVC. The cap adds little static pressure to the exhaust system and allows for vertical discharge of the effluent air for dispersion away from the building. Includes transition to fan.

Part Number	Nominal Diameter	Height	Weight	Equivalent Resistance in feet of straight duct
1034-WCB-06	6"	24"	20 lbs	5
1034-WCB-08	8"	32"	25 lbs	5
1034-WCB-10	10"	40"	30 lbs	5
1034-WCB-12	12"	48"	35 lbs	5
1034-WCB-16	16"	64"	40 lbs	5

Manual Duct Dampers

PVC Superduct® Pipe fittings allow you to balance airflow. It is highly recommended for use in hood ventilation systems.

Part Number	Nominal Diameter	Height	Weight
1034-BD-06	6"	9.5"	10 lbs
1034-BD-08	8"	10.5"	12 lbs
1034-BD-10	10"	11.75"	15 lbs
1034-BD-12	12"	12.75"	20 lbs
1034-BD-16	16"	15.75"	25 lbs

Flexible Duct Connections

This connection reduces vibration between the blower and PVC Superduct® Pipe. Supplied with two clamps for easy installation.

Part Number	Nominal Diameter	Length	Weight
1033-FH-08	9" for use with 8" fittings	25’	14 lbs
1033-FH-10	11" for us with 10" fittings	50’	20 lbs
1033-FH-12	13" for use with 12" fittings	50’	25 lbs

T Connection

PVC fittings shaped in T and Y configurations. Compatible with Thermoplastic duct. End connections receive PVC pipe directly. Contact us for help in sizing blower accessories

Part Number	Nominal Diameter	Height	Weight	Equivalent Resistance in feet of straight duct
1034-T-10	10" x 10" x 10"	11.125"	20 lbs	0

Y Connection

Part Number	Nominal Diameter	Height	Weight	Equivalent Resistance in feet of straight duct
1034-TY-12	12" x 12" x 12"	10.25"	29 lbs	0
1034-TY-16	16" x 16" x 16"	12"	30 lbs	0

Fume Hood Fan

The GES Series Compact Sirocco Fan is made of an injected FRPP mold with standardized central discharge. The impeller and casing are both made of an injected FRPP mold for enhanced recycleability. All units standardly feature:

- Belt driven forward inclined impellers
- Carbon steel drive shafts
- FRP belt guards
- Free gland seals

Each fan is furnished with:

- 10" inlet duct transition
- Galvanized steel mounting frame with vibration isolation pads

Standardized Central Discharge

Our GES blower fans feature an upward discharge direction. This significantly reduces the complexity of choosing a rotational direction and simplifies duct piping.

Enhance Maintainability

Most other designs require the removal of the suction and discharge ducts before being able to remove the impeller. However, in the GES Series, by incorporating an easy-to-remove suction cone in the design, only the suction duct needs removal before the impeller can be taken off. Inner-casing inspection is also made easy.

Excellent Corrosion Resistance

The GES casing and impeller have excellent chemical resistance thanks to our standardized FRPP injection mold construction that boasts high dimensional accuracy. Also, its effective ribbed and hemmed design gives it superior strength while keeping it lightweight. We used materials that offer great corrosion resistance and maintainability.

Fan Selection Chart

	Total Static Pressure - Inches of Water Column (fans are capable of exceeding listed pressure levels)										
	0.125	0.25	0.375	0.5	0.625	0.75	1	1.25	1.5	1.75	2
CFM	RPM	RPM	RPM	RPM	RPM	RPM	RPM	RPM	RPM	RPM	RPM
380	1430	1430	1430	1430	1430	1430	1670	2060	2060	2300	2300
500	1430	1430	1430	1430	1430	1430	1670	2060	2060	2300	2300
620	1430	1430	1430	1430	1430	1670	1670	2060	2060	2300	2300
800	1430	1430	1430	1430	1670	1670	2060	2060	2060	2300	2300
1000	1430	1670	1670	1670	2060	2060	2060	2060	2300	2300	2300
1500	2300	2300	2300	2300	2300	2300	2530	2530	2930	2930	2930
2000	1560	1560	1560	1560	1560	1560	1560	1750	1750	1750	1960

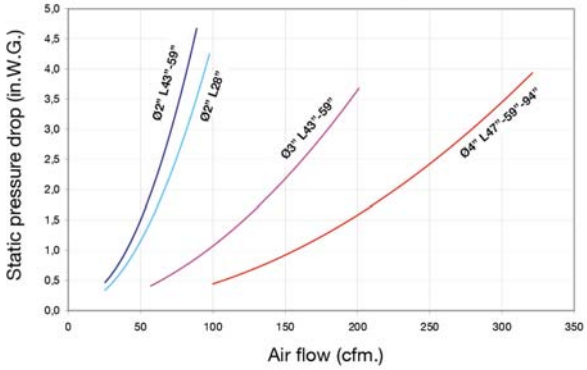
Fan Selected	Series	HP	Fan Part #
Light Green	GES 10	1/3	GES10A
Light Blue	GES 10	1/3	GES10A
Light Orange	GES 10	1/2	GES10B
Light Yellow	GES 10	1/2	GES10B
Dark Green	GES 10	1/2	GES10B
Dark Yellow	GES 10	1	GES10C
Dark Blue	GES 10	1	GES10C
Light Grey	GES 10	2	GES10D
Dark Orange	GES 10	2	GES10D
Dark Grey	GES 10	2	GES10D
Teal	GES 15	2	GES15D

The ORIGINAL model is a robust and reliable all-around arm for general applications where there is little risk of electrical discharges or attack by aggressive chemicals. The arm is shown fitted with a multi-purpose transparent hood.

The ESD/EX model is designed for use in electronic environments where there is a risk of electrostatic discharges. Following risk assessment, the ESD/EX can also be used for certain applications in explosive environments. The arm is made of conductive materials, eliminating the risk of static electricity and sparks. The hood is made of anodized metal.

The CHEM model has profiles made of double anodized aluminum. The arm is ideal for fume extraction in aggressive environments where corrosion resistance must be assured. The arm shown here is fitted with a painted, corrosion-resistant metal hood.

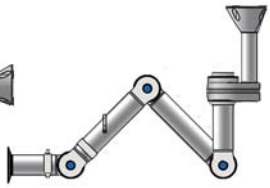
Pressure drop



Position of arm when measured

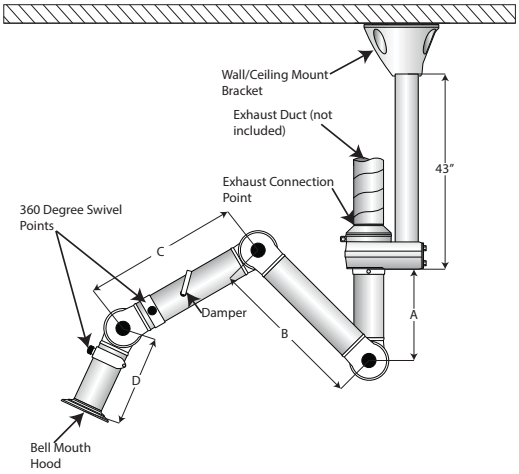
INSTOCK®
Quick Delivery Program

Wall Mounting Connection Up



Ceiling Mounting Connection Up

Extraction Arms



- Arms are 2", 3", or 4" in diameter, consisting of thin walled anodized aluminum sections specific to the model
- Noted models are corrosion resistant
- Exhaust connection point swivels with 360 degree rotation
- The adjustment knobs on the articulated friction joints are supported by ball-bearings
- Mini bell mouthed hood is supplied with the arm
- All arms are provided with dampers
- The snorkel is furnished complete with wall/ceiling mount bracket and a trimmable 43” (109.2 cm) extension

Part Number	Description	Diameter	A	B	C	D	Overall Length
OES-2	ORIGINAL Model	2” 50mm	9.8” 250mm	27.6” 700mm	19.7” 500mm	9.1” 230mm	59.1” 1500mm
XES-2	ESD/EX Model						
OES-3	ORIGINAL Model	3” 75mm	9.8” 250mm	27.6” 700mm	19.7” 500mm	9.8” 250 mm	59.1” 1500mm
XES-3	ESD/EX Model						
CES-3	CHEM Model						
OES-4	ORIGINAL Model	4” 100mm	10.2” 260 mm	29.5” 750mm	29.5” 750mm	10.6” 270mm	70.9” 1800mm
XES-4	ESD/EX Model						
CES-4	CHEM Model						

Universal Mini Hood and Interface

Nederman BenchTop arms are supplied with a mini hood as standard - no extra extraction nozzle is required. The mini hood is also a universal interface for connecting to other hoods. A larger metal hood or transparent multipurpose hood can be attached directly to the mini hood, irrespective of arm size.
The optional multi-purpose hood can be used both as a dome and a screen hood. It has excellent screening properties, is fully transparent and does not cause optical distortions. The hood can be easily angled to suit any extraction situation.

Metal Hood

Description	Ø50mm	Ø75mm	Ø100mm
For ORIGINAL	70500444		
For ESD/EX	70500544		
For CHEM	70500444		

Multi-purpose Hood

Description	Ø50mm	Ø75mm	Ø100mm
For ORIGINAL	70500144		
For ESD/EX	70500244		
For CHEM	70500344		

Centrifugal Fan

- Permanently lubricated fans are energy efficient with external rotor motor design that reduces operating costs
- Extremely low noise and low vibration level

Robust Hood Construction

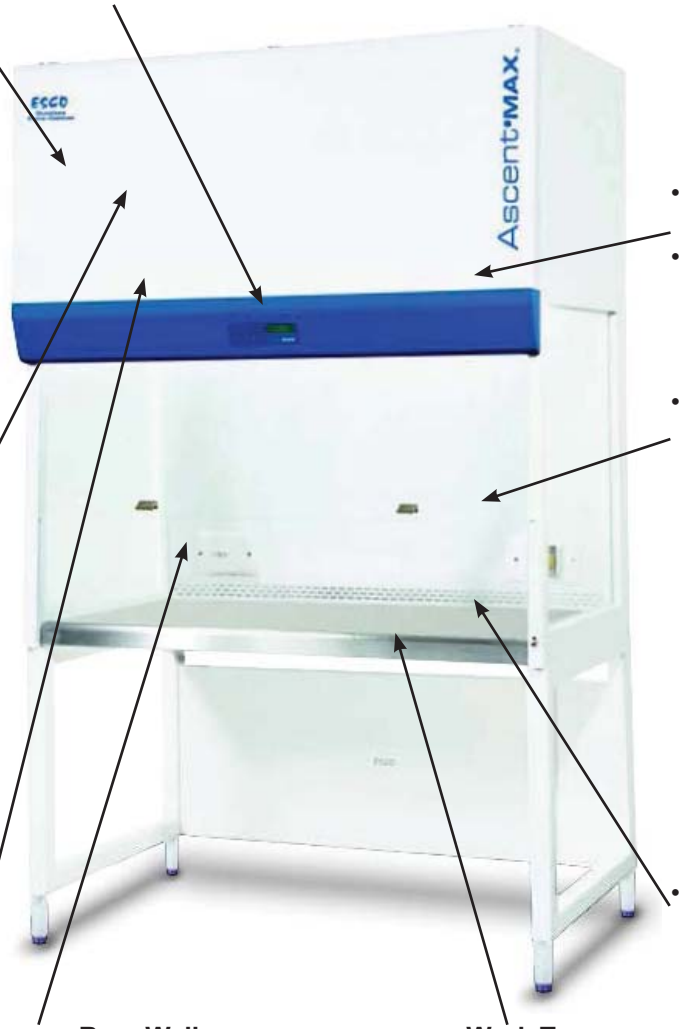
- Key components including Fluorescent Lamps, Motor Capacitor, Electrical Harness, Electronix Ballast, and Switch Control are mounted outside the airstream and away from contaminated areas to permit easy service

Nanocarb Activated Carbon Filters

- Optimized retention capacity
- Diffusion technology to ensure even filter loading
- Efficient perimeter clamping ensures no leakage as well as allows easy filter change procedure

Sentinel Silver Microprocessor Control, Alarm System

- Advanced microprocessor control supervises operation of all hood functions. Temperature-compensated air velocity sensor monitors airflow. 24-hour clock and blower run hour meter are standard



Rear Walls

- Electro galvanized steel wall for superior durability or tempered glass back wall

Work Top

- 1.5 mm, 16 gauge, type 304 stainless steel 4B finish
- Easy to clean, corrosion and chemical resistant makes it an ideal worktop for experiments

Powder Coat

- Silver-Ion Impregnated powder coat
- Inhibit microbial growth to improve safety

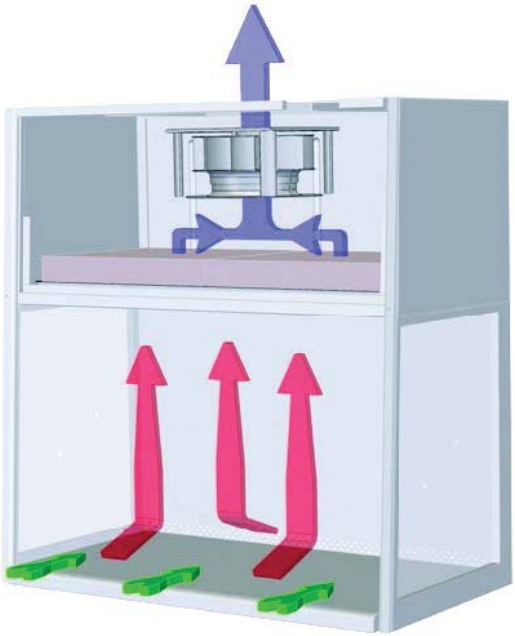
Sash Window

- 3 degree slope front allows easy access to work zone - enhancing ergonomics, eliminating operator fatigue and increasing productivity

Auto Purge Slots

- Improves containment and operator protection by preventing accumulation of fumes in the work zone

	Chemical Fume Containment	Filter Efficiency	Electrical Safety
Standards Compliance	ANSI/ASHRAE 110-1995, USA BS 7258, UK AFNOR NF X 15-203, France EN14175.3, Europ	BS 7989-2001, UK AFNOR NF X 15-211, France	UL-C-61010-1, USA CAN/CSA-22.2, No.61010-1 EN-61010-1, Europe IEC61010-1, Worldwide



Cabinet Filtration System

- The inflow moves from the ambient environment into the work zone through the hood front opening with an average velocity of 0.4 m/s or 80 fpm
- Negative pressure is maintained within the main chamber of the hood to ensure that no chemical fumes or vapors escape the work zone
- Air is taken through the pre-filter and activated carbon mounted in the interior of the hood. The carbon filter removes all fumes from the exhaust air stream and filtered clean air is exhausted directly back to the room.

Carbon-filtered air

Unfiltered/potentially contaminated air

Room air/Inflow air

Please contact us for a chemical assessment of your application and to ensure the right product and filter selection for your purpose.

Chemical Filters

Hood Model	Filter Quantity Needed	Filter Model Code	Chemical Isolated
ADC-3B2	2	CFA-1	Standard Filter
		CFB-1	Acid Filter
		CFC-1	Mercury Filter
		CFD-1	Sulphur Filter
		CFE-1	Halogen Filter
		CFF-1	Aldehyde Filter
		CFG-1	Ammonia/Amine Filter
		CFH-1	Ethers/Chloroforms Filter
ADC-4B2	2	CFA-2	Standard Filter
		CFB-2	Acid Filter
		CFC-2	Mercury Filter
		CFD-2	Sulphur Filter
		CFE-2	Halogen Filter
		CFF-2	Aldehyde Filter
		CFG-2	Ammonia/Amine Filter
		CFH-2	Ethers/Chloroforms Filter
ADC-6B2	3	CFA-2	Standard Filter
		CFB-2	Acid Filter
		CFC-2	Mercury Filter
		CFD-2	Sulphur Filter
		CFE-2	Halogen Filter
		CFF-2	Aldehyde Filter
		CFG-2	Ammonia/Amine Filter
		CFH-2	Ethers/Chloroforms Filter

Model		ADC-3B2	ADC-4B2	ADC-6B2
Nominal Size		3' (.9 m)	4' (1.2 m)	6' (1.8 m)
External Dimensions (W x D x H)		40.7" x 29" x 57.3" (1035 x 736 x 1455mm)	52.8" x 29" x 57.3" (1340 x 736 x 1455 mm)	76.8" x 29" x 57.3" (1950 x 736 x 1455 mm)
Internal Work Area (W x D x H)		38" x 23.5" x 30.1" (965 x 596 x 765 mm)	50" x 23.5" x 30.1" (1268 x 596 x 765 mm)	74" x 23.5" x 30.1" (1880 x 596 x 765 mm)
Standard Filtration Element	Pre-Filter	Disposable, non-washable polyester fiber, 85% arrestance, EU3 rated		
	Main filter*	Activated carbon with granular media bed (8 different filter types available, codes A and H)		
Total Weight of Carbon Filter		2 x 22.7 lbs each (2 x 10.3 kg each)	2 x 30.6 lbs each (2 x 13.9 kg each)	3 x 30.6 lbs each (3 x 13.9 kg each)
Control System		Esco Sentinel™ Silver Microprocessor Controller		
VOC Sensor		Optional		
Airflow Alarm		Standard		
AutoPurge Slots		Standard		
Inflow Air Velocity		Initial set point: 80 fpm (.4 m/s)		
Sound Emission		55 dBA	57 dBA	58 dBA
Fluorescent Light Intensity		> 93 foot candles (> 1000 lux)		
Hood Construction	Main Body	.05" (1.2 mm) 18 gauge electro-galvanized steel with white oven-baked epoxy-polyester Isocide™ antimicrobial powder coated finish		
	Back Walls	.05" (1.2 mm) 18 gauge electro-galvanized steel with white oven-baked epoxy-polyester Isocide™ antimicrobial powder coated finish (B Series)		
		Tempered Glass - (D Series)		
	Side Walls	Tempered Glass		
	Work Top	.06" (1.5mm) 16 gauge stainless steel, type 304, with 4B finish		
Sash	Sloped Front	3 Degrees		
	Sash Type	Vertical Sliding		
Net Weight		386 lbs (175 kg)	496 lbs (225 kg)	646 lbs (293 kg)
Shipping Weight		452 lbs (205 kg)	575 lbs (261 kg)	838 lbs (380 kg)
Shipping Dimensions, Max. (W x D x H)		44.5" x 33" x 68.9" (1130 x 840 x 1750 mm)	55.5" x 33" x 68.9" (1410 x 840 x 1750 mm)	80.7" x 33" x 68.9" (2050 x 840 x 1750 mm)
Shipping Volume, Max.		58.6 cu. ft. (1.66 m^3)	73.1 cu. ft. (2.07 m^3)	106.3 cu. ft. (3.01 m^3)
		Stands		
Support Stand, Adjustable with Leveling Glides		SAL-3A0	SAL-4A0	SAL-6A0

Electrical

110-120 VAC, 60 Hz	ADC-3B2	ADC-4B2	ADC-6B2
Cabinet Full Load Amps (FLA)	3.5 A	3.5 A	4 A
Optional Outlets (FLA)	5A		
Cabinet Nominal Power	238 W	275 W	345 W
Cabinet BTU/Hr	812	938	1177

INSTOCK Quick Delivery Program

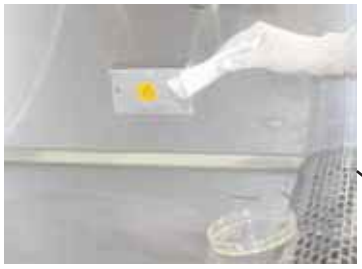
Microprocessor Controller

- Easy to understand and set up
- Displays all safety information on one screen
- Centered and angled down for easy reach and viewing
- Selectable Quickstart mode for fast operation

RS 232 and Zero Volt Relay Contact Interface

Air Flow Sensor

- Monitors real-time airflow for safety
- Alerts the user if airflow is insufficient



Single-Piece Work Tray

- Recessed to contain spillage
- Curved grill to prevent block-age

Single-Piece Wall and Pan Construction

- Large radius for easy cleaning
- Side-mounted electrical outlets and staggered service fixtures for easy reach

Raised Arm Rest

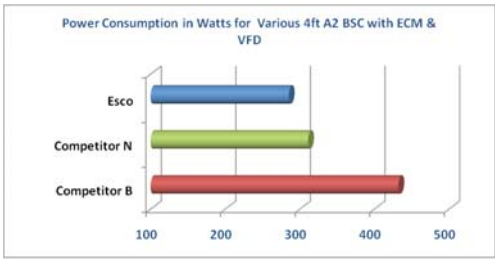
- Helps prevent grill blocking
- Comfortable working posture

Angled Drain Pan

- Easy to clean
- Does not harbor contaminants

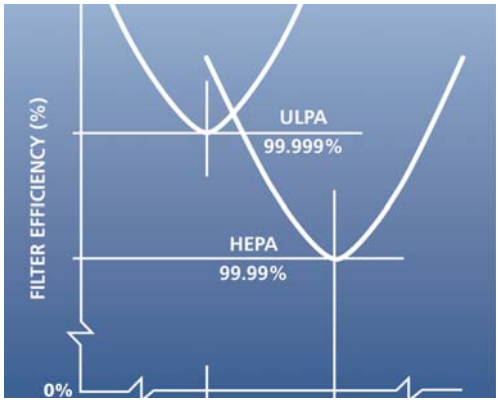
The Most Certified Biological Safety Cabinet in the World				
	Biosafety Cabinets	Air Quality	Filtration	Electrical Safety
Standards Compliance	NSF/ANSI 49	ISO 14644.1, Class 3, Worldwide US Fed Std 209E Class 1, USA	IEST-RP-CC001.3, USA IEST-RP-CC007, USA IEST-RP-CC034.1, USA	UL-C-61010A-1, USA IEC61010-1, Worldwide

Energy Efficient



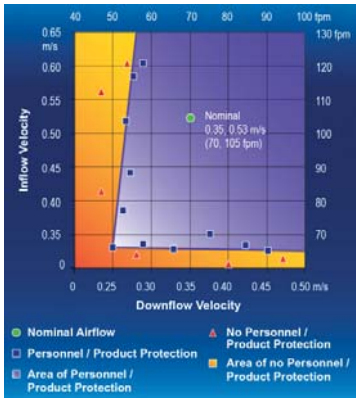
- Powered by latest generation ECM motor
- 70% energy savings compared to AC motors
- Stable airflow, despite building voltage fluctuations & filter loading
- Night setback mode reduces power by 60%

ULPA Filtration



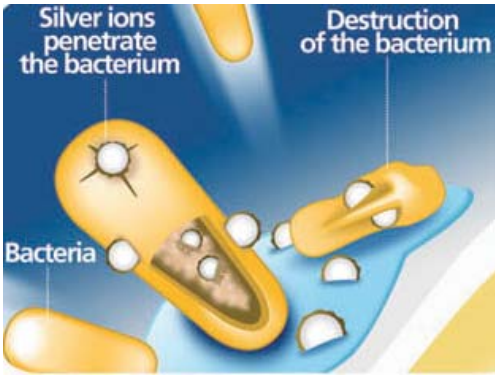
- 10x filtration efficiency of HEPA filter
- Creates ISO Class 3 work zone exceeding the ISO Class 5 industry standard

Large Performance Envelope



- Provides wide margin of operator and product protection in the event of imbalanced loading of exhaust and downflow filters

Anti-microbial Coating on Exterior of Unit

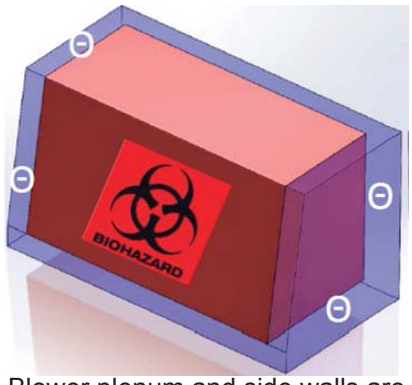


- The silver ions in the coating kill this contaminant.
- Protection lasts through the lifetime of the cabinet
- Reduces bio-burden, product and lab contamination

Durable Metal Plenum

- Resist punctures and leaks, unlike BSCs with plastic bag plenum
- Provided with anti-microbial coating to reduce bio-burden inside the BSC

Double Layer Side Wall



- Blower plenum and side walls are surrounded by negative pressure
- Prevents hazardous pathogens from escaping into lab by pulling them into the plenum to be captured

Raised Arm Rest

- Provides comfortable place to put arms and prevents hazardous grill blocking
- Made from 304 stainless steel

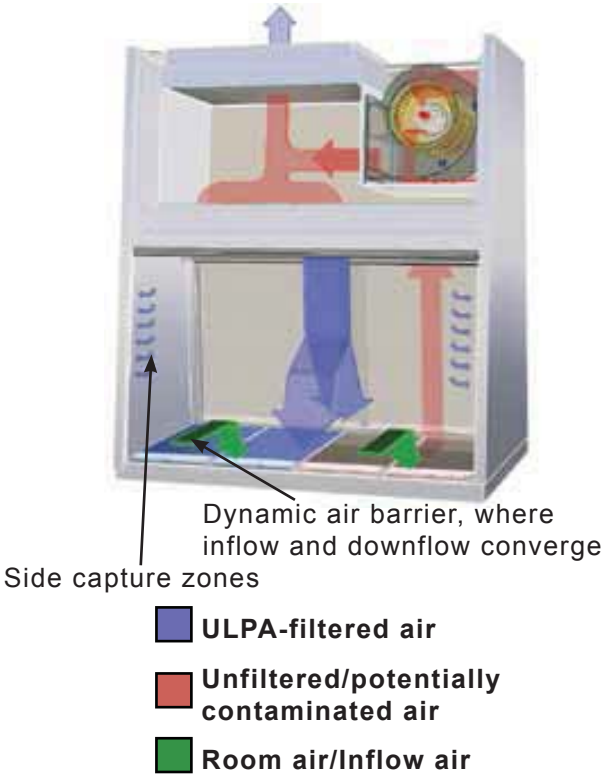
Easy to Clean

- Single piece 304 stainless steel interior wall with large corner radius and angled drain pan
- Polished seams and accessible drain corners for ease of cleaning

Advanced Controller

- Enables user to easily see and operate the BSC from stationary sitting position

Labculture Class II Type A2 Biological Safety Cabinet

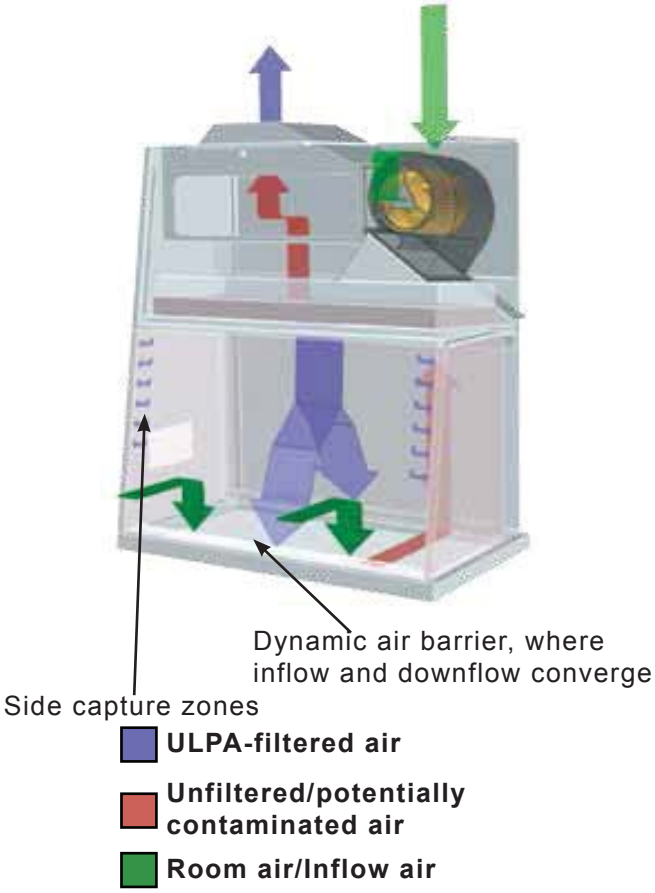


The Class II Type A2 biological safety cabinet is the most common Class II cabinet. It is also the most common safety cabinet of all the different types available. It has a common plenum from which 30% of air is exhausted and 70% is re-circulated to the work area as the downflow.

If trace amount of toxic chemicals are employed as an adjunct to microbiological processes, Type A2 cabinets should be exhaust ducted. Exhaust HEPA filtration only removes airborne aerosols including biohazards but not chemical fumes. If larger amounts of vaporizing toxic chemicals are used, a Type B2 cabinets should be used instead.

Per the newly released NSF/ANSI 47:2010 standards, Class II Type A2 BSCs must have the positively pressurized contaminated plenum to be surrounded by a zone of negative pressurization. This is in case there is a leakage on the positive plenum. The leaking aerosol will be pulled by the negative pressure back into the positive plenum, to insure capture and containment. In the A2 cabinet, about 70% of air from the positive plenum is recirculated as downflow and the remaining 30% is discharged to the lab through the exhaust filter.

Labculture Class II Type B2 Biological Safety Cabinet



The main difference between Type A2 and Type B2 cabinet is that Type B2 cabinets must be operated with an external blower which exhausts air to the external environment via a dedicated ductwork system. This cabinet is not self-balancing. Its own blower can only create down flow and the cabinet relies on an external blower to create flow in the discharge stream.

In the Class II Type B2 cabinet all inflow and downflow air is exhausted after HEPA filtration to the external environment without recirculation within the cabinet. Type B2 cabinets are suitable for work with toxic chemicals employed as an adjunct to microbiological processes. Under all circumstances since no recirculation occurs. In theory, Type B2 cabinets may be considered the safest of all Class II biological safety cabinets since the total exhaust feature acts as a fail-safe in the event that the down flow and/or exhaust HEPA filtration systems cease to function normally. However, Class II Type B2 cabinets are, in practice, more difficult to install, balance and maintain.

Class II Type A2

Labculture Class II Type A2		LA2-3A2-E	LA2-4A2-E	LA2-5A2-E	LA2-6A2-E
Nominal Size		3' (0.9 meter)	4' (1.2 meter)	5' (1.5 meter)	6' (1.8 meter)
External Dimensions* (W x D x H)		44" x 33.5" x 60.6" (1115 x 852 x 1540 mm)	56" x 33.5" x 60.6" (1420 x 852 x 1540 mm)	68" x 33.5" x 60.6" (1725 x 852 x 1540 mm)	80" x 33.5" x 60.6" (2030 x 852 x 1540 mm)
Internal Dimensions (W x D x H)		38.2" x 24.5" x 26.4" (970 x 623 x 670 mm)	50" x 24.5" x 26.4" (1270 x 623 x 670 mm)	61.8" x 24.5" x 26.4" (1570 x 623 x 670 mm)	73.6" x 24.5" x 26.4" (1870 x 623 x 670 mm)
Usable Work Area		4.8 sq. ft. (0.45 m^2)	6.5 sq. ft. (0.6 m^2)	8.1 sq. ft. (0.75 m^2)	9.7 sq. ft. (0.9 m^2)
Tested Opening		9" (229 mm)	9" (229 mm)	9" (229 mm)	8" (203 mm)
Working Opening		10.8" (274 mm)	10.8" (274 mm)	10.8" (274 mm)	9.8" (248 mm)
Average Airflow Velocity	Inflow	105 fpm (0.53 m/s)			
	Downflow	70 fpm (0.35 m/s)	70 fpm (0.35 m/s)	70 fpm (0.35 m/s)	65 fpm (0.33 m/s)
Airflow Volume	Inflow	251 cfm (424 m^3/h)	328 cfm (555 m^3/h)	406 cfm (686m^3/h)	426 cfm (724 m^3/h)
	Downflow	363 cfm (628 m^3/h)	476 cfm (822 m^3/h)	588 cfm (1016 m^3/h)	700 cfm (1210 m^3/h)
	Exhaust	251 cfm (424 m^3/h)	328 cfm (555m^3/h)	406 cfm (686 m^3/h)	426 cfm (724 m^3/h)
	Required Exhaust when used with Optional Thimble Exhaust Collar	311 cfm (529 m^3/h)	450 cfm (764 m^3/h)	657 cfm (1116 m^3/h)	685 cfm (1164 m^3/h)
	Static Pressure for Optional Thimble Exhaust Collar	0.12 in H_20 / 32 Pa	0.19 in H_20 / 49 Pa	0.24 in H_20 / 62 Pa	0.31 in H_20 / 79 Pa
ULPA Filter Typical Efficiency		> 99.999% for particle size between 0.1 to 0.3 microns per IEST-RP-CC001.3/H14 per EN 1822			
Sound Emission**	NSF/ANSI 49	62.5 dBA	63 dBA	63.5 dBA	64 dBA
Fluorescent Lamp Intensity		> 114 foot-candles (> 1230 lux)	> 130 foot-candles (> 1400 lux)	> 100 foot-candles (> 1070 lux)	> 114 foot-candles (> 1230 lux)
Cabinet Construction	Main Body	Electro-galvanized steel with white oven-baked epoxy-polyester Isocide antimicrobial powder-coated finish, .06" (1.5mm)/ 16 gauge thick)			
	Work Zone	Stainless steel Type 304 with No. 4 finish, .06" (1.5 mm)/ 16 gauge thick			
Electrical	Full Load Amps 115 V	9 A	11 A	11.5 A	12 A
	Heat Load	853 BTU/Hr	972 BTU/Hr	1177 BTU/Hr	1297 BTU/Hr
Nominal Power Consumption		250 W	285 W	345 W	380 W
Net Weight***		536 lbs (243 Kg)	624 lbs (283 Kg)	772 lbs (350 Kg)	939 lbs (426 Kg)
Shipping Weight***		644 lbs (292 Kg)	761 lbs (345 Kg)	904 lbs (410 Kg)	1072 lbs (486 Kg)
Shipping Dimensions Maximum (W x D x H)***		47.2" x 37.4" x 74.8" (1200 x 850 x 1900 mm)	61" x 37.4" x 74.8" (1550 x 950 x 1900 mm)	76.8" x 37.4" x 74.8" (1950 x 950 x 1900 mm)	84.6" x 37.4" x 74.8" (2150 x 950 x 1900 mm)
Shipping Volume Maximum***		77 cu. ft. (2.17 m^3)	99 cu. ft. (2.8 m^3)	124 cu. ft. (3.52 m^3)	137 cu. ft. (3.88 m^3)

*Depth includes the removable arm rest and front cover. When they are removed, depth is 31.1" (790mm)
**Noise reading in open field condition/anechoic chamber. Noise reading in normal room varies by room size, layout, and background noise, but may reach roughly 3-4 dBA above these values
***Cabinet only, excludes optional stand.

Class II Type B2

Labculture Class II Type B2		LB2-3B2-E	LB2-4B2-E	LB2-5B2-E	LB2-6B2-E
Nominal Size		3' (0.9 meter)	4' (1.2 meter)	5' (1.5 meter)	6' (1.8 meter)
External Dimensions* (W x D x H)		44" x 33.5" x 63.3" (1115 x 852 x 1610 mm)	56" x 33.5" x 63.3" (1420 x 852 x 1610 mm)	63" x 33.5" x 63.3" (1725 x 852 x 1610 mm)	80" x 33.5" x 63.3" (2030 x 852 x 1610 mm)
Internal Dimensions (W x D x H)		38.2" x 24.5" x 28.1" (970 x 623 x 715 mm)	50" x 24.5" x 28.1" (1270 x 623 x 715 mm)	61.8" x 24.5" x 28.1" (1570 x 623 x 715 mm)	73.6" x 24.5" x 28.1" (1870 x 623 x 715 mm)
Usable Work Area		4.8 sq. ft. (0.45m^2)	6.5 sq. ft. (0.6m^2)	8.1 sq. ft. (0.75m^2)	9.7 sq. ft. (0.9m^2)
Tested Opening		8" (203 mm)	8" (203 mm)	8" (203 mm)	8" (203 mm)
Working Opening		10.8" (274 mm)	10.8" (274 mm)	10.8" (274 mm)	9.8" (248 mm)
Average Airflow Velocity	Inflow	105 fpm (0.53 m/s)			
	Downflow	60 fpm (0.31 m/s)			
Airflow Volume	Inflow	223 cfm (376 m^3/h)	292 cfm (492 m^3/h)	361 cfm (608 m^3/h)	429 cfm (724 m^3/h)
	Downflow	363 cfm (628 m^3/h)	476 cfm (822 m^3/h)	588 cfm (1016 m^3/h)	700 cfm (1210 m^3/h)
	CBV Exhaust Air Volume **	658 cfm (1127 m^3/h)	862 cfm (1476 m^3/h)	1065 cfm (1824 m^3/h)	1269 cfm (2173 m^3/h)
	Min Exhaust Static Pressure	1.6 in H_20 / 400 Pa	1.5 in H_20 / 375 Pa	1.5 in H_20 / 375 Pa	1.6 in H_20 / 400 Pa
	CBV Exhaust Static Pressure **	2.3 in H_20 / 575 Pa	2.2 in H_20 / 550 Pa	2.2 in H_20 / 550 Pa	2.3 in H_20 / 575 Pa
Supply ULPA Filter Typical Efficiency		≥ 99.999% for particle size between 0.1 to 0.3 microns			
Exhaust HEPA Filter Typical Efficiency		≥ 99.99% at 0.3 microns			
Maximum Sash Opening		20" (508 mm)			
Sound Emission***	NSF/ANSI 49	57 dBA	58 dBA	59 dBA	60 dBA
Fluorescent Lamp Intensity at Zero Ambient		> 116 foot-candles (> 1250 lux)	> 130 foot-candles (> 1400 lux)	> 111 foot-candles (> 1200 lux)	> 111 foot-candles (> 1200 lux)
Cabinet Construction	Main Body	Electro-galvanized steel with white oven-baked epoxy-polyester Isocide™ antimicrobial powder-coated finish, 6" (1.5 mm)/16 gauge thick			
	Work Zone	Stainless steel Type 304 with No. 4 finish, 6" (1.5mm)/16 gauge thick			
Electrical	Full Load Amps 115 V	9 A	11 A	11.5 A	12 A
	Heat Load	566 BTU/Hr	645 BTU/Hr	781 BTU/Hr	860 BTU/Hr
Nominal Power Consumption		166 W	189 W	229 W	252 W
Net Weight****		615 lbs (279 Kg)	699 lbs (317 Kg)	791 lbs (359 Kg)	966 lbs (438 Kg)
Shipping Weight****		703 lbs (318 Kg)	814 lbs (370 Kg)	886 lbs (402 Kg)	1083 lbs (491 Kg)
Shipping Dimensions Maximum (W x D x H)****		47.6" x 37.4" x 76.8" (1210 x 950 x 1950 mm)	59.8" x 37.4" x 76.8" (1520 x 950 x 1950 mm)	74.8" x 37.4" x 76.8" (1900 x 950 x 1950 mm)	84.7" x 37.4" x 76.8" (2150 x 950 x 1950 mm)
Shipping Volume, Maximum****		79.1 cu. ft. (2.24 m^3)	99.6 cu. ft. (2.82m^3)	124.3 cu. ft. (3.52m^3)	140.6 cu. ft. (3.98m^3)

*Height includes exhaust collar, and depth includes the removable arm rest and front cover. When they are removed, depth is 31.1" (790 mm)
**This Concurrent Balance Value (CBV) Exhaust Volume (per Pitot Duct Traverse) and Static Pressure at cabinet exhaust connection should be used when sizing the HVAC exhaust and supply.
***Noise reading in open field condition/anechoic chamber. Noise reading in normal room varies by room size, layout, and background noise, but may reach roughly 3-4 dBA above these values
****Cabinet only, excludes optional stand.

Each cabinet comes standard with two GFIC outlets and one service fixture. Penetrations are provided for up to four service fixtures. A UV light is standard. Support stand must be ordered separately.

	Nominal 36”	Nominal 48”	Nominal 60”	Nominal 72”
BSC Type A2	LA2-3A2-E	LA2-4A2-E	LA2-5A2-E	LA2-6A2-E
BSC Type B2	LB2-3B2-E	LB2-4B2-E	LB2-5B2-E	LB2-6B2-E
Stands and Accessories				
Adjustable Height with Leveling feet	STL-3A0	STL-4A0	STL-5A0	STL-6A0
Adjustable Height with Casters	STC-3A0	STC-4A0	STC-5A0	STC-6A0
Exhaust Transition for Type A2	ECO-A-AC2-3	ECO-A-AC2-4	ECO-A-AC2-5	ECO-A-AC2-6

Adjustable stand with Leveling Feet

Adjustable stand with casters

Class II Type A2

INSTOCK Quick Delivery Program

Microprocessor Controller

- Easy to understand and set up
- Displays all safety information on one screen
- Centered and angled down for easy reach and viewing
- Selectable Quickstart mode for fast operation

RS 232 and Zero Volt Relay Contact Interface

Air Flow Sensor

- Monitors real-time airflow for safety
- Alerts the user if airflow is insufficient

Single-Piece Work Tray

- Recessed to contain spillage
- Curved grill to prevent block-age

Removable Paper Catch

Raised Arm Rest

- Helps prevent grill blocking
- Comfortable working posture

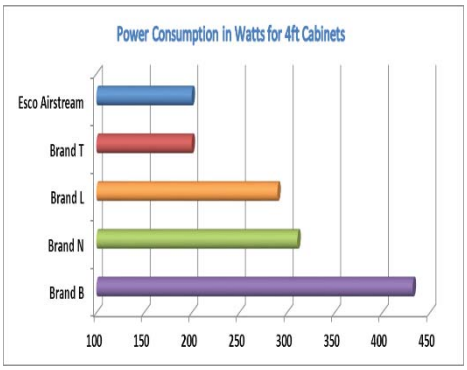
Angled Drain Pan

- Easy to clean stainless steel
- Does not harbor contaminants

Standards Compliance	Biosafety Cabinets	Air Quality	Filtration	Electrical Safety
	NSF/ANSI 49	ISO 14644.1, Class 3, Worldwide US Fed Std 209E Class 1, USA	IEST-RP-CC001.3, USA IEST-RP-CC007, USA IEST-RP-CC034.1, USA	UL-C-61010A-1, USA IEC61010-1, Worldwide

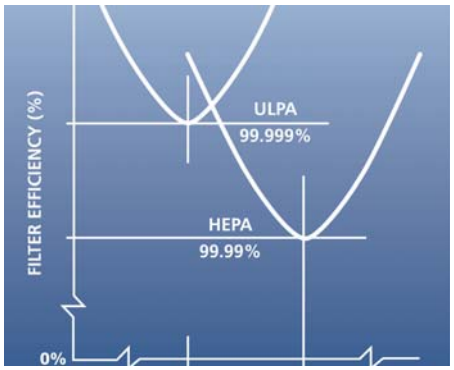
Esco Airstream - series BSC are compact-sized, low height, low energy, low noise biosafety cabinets, condensing the advanced safety and ergonomic features into a small footprint that includes:

Energy Efficient



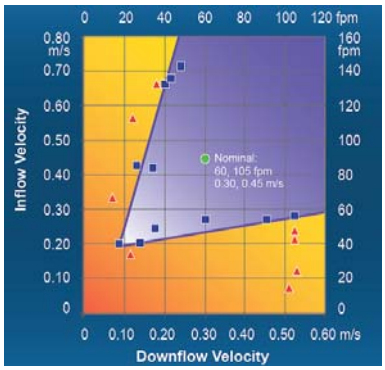
- Powered by latest generation ECM motor
- Stable airflow, despite building voltage fluctuations & filter loading
- Night setback mode reduces power by 60%

ULPA Filtration



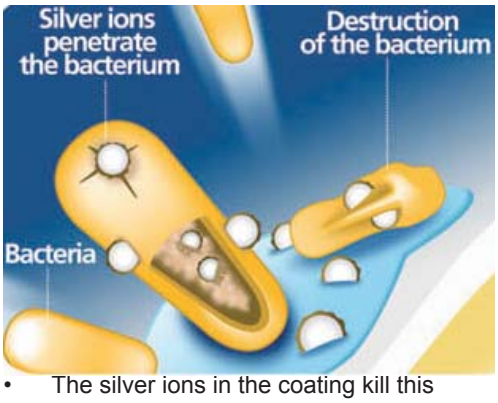
- 10x filtration efficiency of HEPA filter
- Creates ISO Class 3 work zone exceeding the ISO Class 5 industry standard

Large Performance Envelope



- Provides wide margin of operator and product protection in the event of imbalanced loading of exhaust and downflow filters

Anti-microbial Coating

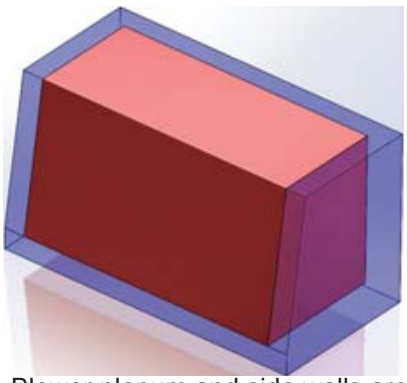


- The silver ions in the coating kill this contaminant.
- Protection lasts through the lifetime of the cabinet
- Reduces bio-burden, product and lab contamination

Durable Metal Plenum

- Resist punctures and leaks, unlike BSCs with plastic bag plenum
- Provided with anti-microbial coating to reduce bio-burden inside the BSC

Double Layer Side Wall



- Blower plenum and side walls are surrounded by negative pressure
- Prevents hazardous pathogens from escaping into lab by pulling them into the plenum to be captured

Raised Arm Rest

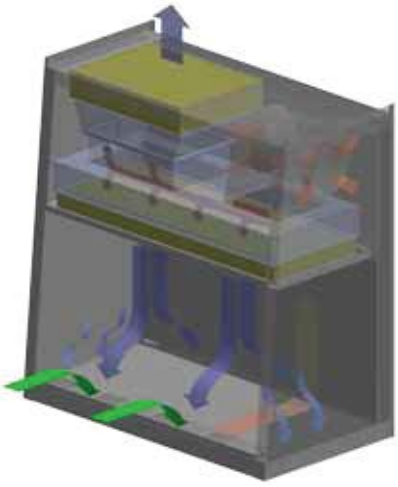
- Provides comfortable place to place arms and prevents the hazardous grill blocking of the grill by the operator arms
- Made from durable stainless steel to resist wear

Easy to Clean

- Single piece 304 stainless steel interior wall with large corner radius and angled drain pan
- Polished seams and accessible drain corners for ease of cleaning

Advanced Controller

- Enables user to easily see and operate the BSC from stationary sitting position



ULPA-filtered air

Unfiltered/potentially contaminated air

Room air/Inflow air

Ambient air is pulled through face opening to create inflow. This inflow is joined by half of the unit downflow, to create a front air curtain that is fine-tuned to provide a large performance envelope. The combined air stream travels through the back of the unit a creates an air column towards the blower.

Approximately 1/3 of the air in the common plenum is exhausted through the ULPA filter to the room. The remaining 2/3 of the air is passed through the downflow ULPA filter and into the work area as a vertical laminar flow air to create an ISO Class 3 work zone and to prevent cross contamination

Near the work surface, the downflow splits. About half goes to the front grill and half goes to the rear grille. A small portion enters the side capture zones to prevent dead air spaces in the corners.

This design is optimized to give large performance envelope, that provides operator and product protection at wide inflow and downflow variation.

	Nominal 36”	Nominal 48”	Nominal 72”
Airstream Class II Type A2	AC2-3S9-NS	AC2-4S9-NS	AC2-6S9-NS
Stands			
Adjustable Height with Leveling feet	STL-3A0	STL-4A0	STL-6A0
Adjustable Height with Casters	STC-3A0	STC-4A0	STC-6A0

Adjustable stand with Leveling Feet

Adjustable stand with casters

Class II Type A2

Model		AC2-3S9-NS	AC2-4S9-NS	AC2-6S9-NS
External Dimensions (W x D x H)		40.7" x 29.6" x 55.1" (1035 x 753 x 1400 mm)	52.8" x 29.6" x 55.1" (1340 x 753 x 1400 mm)	76.8" x 29.6" x 55.1" (1950 x 753 x 1400 mm)
Gross Internal Dimensions (W x D x H)		36" x 22.8" x 26" (915 x 580 x 660 mm)	48" x 22.8" x 26" (1220 x 580 x 660 mm)	72" x 22.8" x 26" (1830 x 580 x 660 mm)
Usable Work Area		4.5 ft^2 (0.42 m^2)	6 ft^2 (0.56 m^2)	9.3 ft^2 (0.86 m^2)
Test Opening		8" (203 mm)		
Average Inflow Velocity		105 fpm (0.53 m/s)		
Average Downflow Velocity		60 fpm (0.30 m/s)		
Airflow Volume	Inflow	208 cfm (354 cmh)	278 cfm (473 cmh)	417 cfm (709 cmh)
	Downflow	325 cfm (553 cmh)	434 cfm (738 cmh)	652 cfm (1107 cmh)
	Exhaust	208 cfm (354 cmh)	278 cfm (473 cmh)	417 cfm (709 cmh)
	Required Exhaust when used with Optional Thimble Exhaust Collar	313 cfm (531 cmh)	418 cfm (710 cmh)	626 cfm (1064 cmh)
	Static Pressure for Optional Thimble Exhaust Collar	0.12 in H_20 / 32 Pa	0.18 in H_20 / 45 Pa	0.27 in H_20 / 68 Pa
ULPA Filter Typical Efficiency		>99.999% at 0.1 to 0.3 micron, ULPA as per IEST-RP-CC001.3 USA >99.999% at MPPS, H14 as per EN 1822 EU		
Sound Emission per NSF/ANSI 49		57.5 dBA		60.5 dBA
Fluorescent Lamp Intensity		184 foot candle (1983 lux)	158 foot candle (1700 lux)	153 foot candle (1647 lux)
Cabinet Construction	Main Body	.5" (1.2mm) / 18 gauge EG steel with Isocide™ Oven-Baked Epoxy-Polyester Powder Coating		
	Work Zone	.06" (1.5mm)/ 16 gauge, SS 304, 4B finish		
	Side Walls	.06" (1.5mm)/ 16 gauge, SS 304, 4B finish		
Electrical 110-130 VAC 50/60Hz	Cabinet Full Load Amps (FLA)	11	11.5	15
	Heat Load (BTU/Hr)	503	628	999
	Nominal Power Consumption (W)	160	200	318
Net Weight		414 lbs (188 kg)	507 lbs (230 kg)	763 lbs (346 kg)
Shipping Weight		476 lbs (216 kg)	628 lbs (285 kg)	944 lbs (428 kg)
Shipping Dimensions, Max (W x D x H)		44" x 32" x 69" (1120 x 820 x 1760 mm)	57" x 32" x 69" (1450 x 820 x 1760 mm)	80" x 32" x 69" (2050 x 820 x 1760 mm)
Shipping Volume, Max		74 ft^3 (2.09 m^3)	74 ft^3 (2.09 m^3)	105 ft^3 (2.96 m^3)

Powdermax

Laboratory operations involving weighing, mixing and dispensing hazardous or nuisance powders can now be performed safely and economically with the Esco Powdermax Powder Weighing Balance Enclosure. The enclosure's unique design maintains balance stability to 4 decimal places without compromising containment.

Designed specifically for powder containment applications, the Powdermax Enclosure employs carefully directed inward airflow at the face of the enclosure to protect the operator from exposure to hazardous powders or potent pharmaceutical compounds. The aerodynamically designed enclosure reduces airflow turbulence for maximum containment while minimizing the effect that air drafts may have on sensitive weighing balances. The enclosure design exceeds the containment requirements of ANSI/ASHRAE 110 as proven by independent testing. All exhaust air is HEPA-filtered, removing virtually all particulate matter, before recirculation to the laboratory.

Designed for Enhanced Usability and Efficiency

The Powdermax balance enclosure is designed specifically to provide the operator with a high level of usability, comfort and visibility.

- A 13-degree sloped front allows easy access to the work zone, eliminating operator fatigue and increasing productivity
- Transparent .2" (6 mm) frameless acrylic front and sides enhance visibility and operator comfort during longer periods of operation. The self-supporting pertensioned hinges on the front window provide easy access during loading and start-up
- Ergonomically designed apertures for hands simultaneously provide maximum movement within the work zone while protecting the operator. The curved front edge minimizes airflow turbulence and improves user comfort.
- Two electrical pass through on the back wall of the unit provide convenient access to power sources for equipment
- The spacious interior dimensions will easily accommodate large analytical balances.
- 110 V operation

Enhanced Filtration System

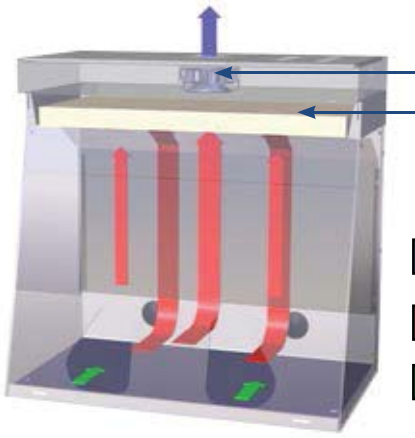
The enclosure's unique filtration system ensures the highest level of protection for the operator

- The Powdermax Balance Enclosure provides enhanced safety to the laboratory personnel by drawing air across the front opening in the hood at a controlled rate, preventing the escape of powders and particulate matters into the general laboratory environment
- The Powdermax Balance Enclosure is equipped with a generously sized HEPA filter system, rated at >99.99% efficiency for 0.3 micron sized particles.
- The user-friendly Esco Sentinel™ micro-processor based control system is fully configurable according to operator's requirements and comes equipped with a number of enhanced features to promote cabinet usability.

Designed and Built to Exceed Safety

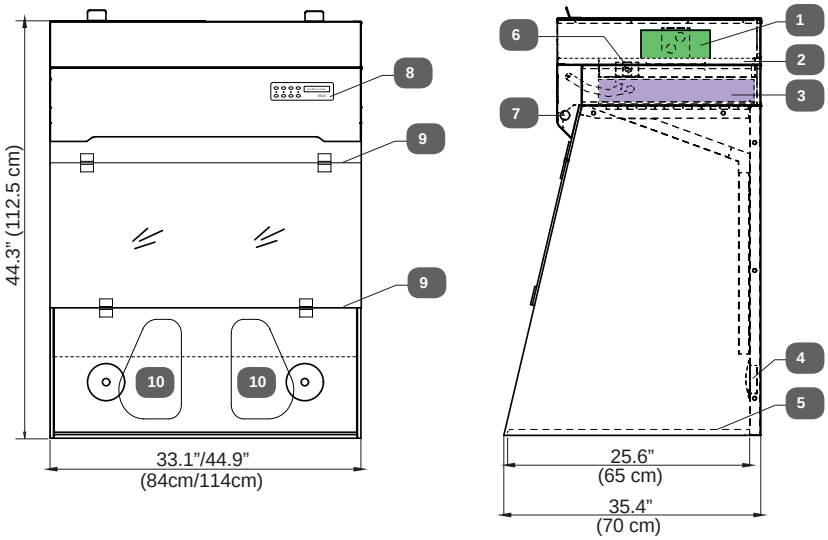
All components used in Esco products meet or exceed all the applicable safety requirements and are UL listed/recognized. The Powdermax is compliant with International Standards. The cabinet is designed to meet the general safety requirements of EN 61010-1, EN 61326 Class B.

	Containment	Electrical Safety
Standards Compliance	ANSI/ASHRAE 110-1995, USA	UL-61010-1, USA CAN/CSA-C22-2 No.61010-1 EN-61010-1, Europe IEC61010-1, Worldwide



- Room air is drawn in across the front of the cabinet with an average velocity of 100 fpm (0.5 m/s)
- Air is drawn up through the cabinet's work zone and forced through the HEPA filter (>99.99% typical efficiency for 0.3 micron sized particles)
- The state-of-the-art baffle system ensures airflow uniformity throughout the cabinets main chamber
- The HEPA filtered air then returns to the laboratory stripped of all airborne contaminants or is vented through the optional exhaust collar to exhaust ducting for enhanced safety.

Nominal Size		3' (0.9 m)	4' (1.2 m)
Part Number		PW1-3A2	PW1-4A2
External Dimensions (W x D x H)		33.1" x 27.6" x 44.3" (840 x 700 x 1125 mm)	44.9" x 27.6" x 44.3" (1140 x 700 x 1125 mm)
Internal Work Area Dimensions (W x D x H)		32.3" x 25.6" x 32.6" (820 x 650 x 829 mm)	44.1" x 25.6" x 33.4" (1120 x 650 x 848 mm)
Standard Filtration Elements	Main Filter	HEPA filter, typical efficiency of >99.99% at 0.3 microns, removes particles and aerosols	
Control System		Sentinel™ Silver Microprocessor Controller	
Inflow Air Velocity		Initial setpoint: average of 100 fpm (0.5 m/s)	
Sound Emission		<55 dBA at initial blower speed setting measured at typical operator work position	
Cabinet Construction	Main Body	0.05" (1.2 mm) 18 gauge electrogalvanized steel with white oven-baked epoxy-polyester Isocide™ antimicrobial powder coated finish	
	Back Wall		
	Front Window	0.2" (6 mm) Acrylic	
	Side Walls		
	Work Top	Phenolic Resin	
Sash Specification	Sloped Front	13°	
	Sash Type	Hinged	
Net Weight		242.5 lbs (110 kg)	352.7 lbs (160 kg)



1. Blower
2. Electrical Panel
3. HEPA filter
4. Service fixture hole cover
5. Phenolic work top
6. Sensor box
7. Fluorescent light
8. Sentinel microprocessor control
9. Hinged access at 2 points for enclosure loading
10. Arm ports for access to balance or equipment

Contained Vented Enclosures

Flow Sciences' Contained Vented Enclosure (CVE) / Laminar Flow Powder Hood series comes with a built-in exhaust system that is also compatible with house systems to suit various benchtop / scale-up operations and nanotechnology applications. CVE enclosures use airfoils and plenums to create a laminar airflow across the work surface, reducing eddies and turbulence in order to ensure reproducibility, accuracy and containment below 1µg/m^3. Each unit comes with a face velocity alarm; acrylic walls for added visibility; and a chemically resistant, dished phenolic base to maintain spills and protect the work surface from harmful chemicals.

Lead time is 8-9 weeks.

Exhaust Port
6" Thimble connects to house system or can be recirculated back into the lab

Face Velocity Alarm
FS1650 face velocity alarm alerts the operator when airflow is compromised

Bag-In / Bag-out HEPA
HEPA change out system that allows for safe removal and replacement of the primary 4" HEPA filter

LED Light
LED light to illuminate the work surface

Top and Rear Plenums
Top and rear plenums are used to direct airflow and maintain containment at the face opening. These also prevent particles from possibly falling back onto the work surface if the fan is turned off.

Front Lift Doors
Hinged front doors that lift for easy loading and unloading of equipment.

Airfoils
Airfoils staged around the perimeter of the face opening stabilize the airflow, improve laminar airflow and improve containment along the leading edge.

Dished Base
Dished phenolic base captures accidental liquid and powder spills

Accessory Shelf & Waste Chute

Standards Compliance	• ASHRAE 110-206 • USP 795 • USP 800	• ANSI Z 95 • ISO 9001-2008

FLOW SCIENCES, INC.

Flow Sciences Contained Vented Enclosures (CVE) Specifications					
Model		**ETA363024AAD**	**ETA363024ABD**	**ETA483024AAD**	**ETA483024ABD**
Rendering Image					
Nominal Size		3’ (0.9 meter)	3’ (0.9 meter)	4’ (1.2 meter)	4’ (1.2 meter)
External Dimensions (W x D x H)		35.75” x 30” x 42.48” (90.8 x 76.2 x 107.9 cm)	35.75” x 30” x 51.56” (90.8 x 76.2 x 130.9 cm)	47.75” x 30” x 44.31” (121.3 x 76.2 x 112.5 cm)	47.75” x 30” x 53.31” (121.3 x 76.2 x 135.4 cm)
Internal Dimensions (W x D x H)		31.79” x 26.55” x 24.25” (80.7 x 67.4 x 61.6 cm)	31.79” x 26.55” x 24.25” (80.7 x 67.4 x 61.6 cm)	43.79” x 26.55” x 24.32” (111.2 x 67.4 x 61.8 cm)	43.79” x 24.82” x 24.25” (111.2 x 63 x 61.6 cm)
Nominal Usable Work Area		5 ft^2 (1.5 m^2)	5 ft^2 (1.5 m^2)	7 ft^2 (2.1 m^2)	7 ft^2 (2.1 m^2)
Face Opening Height		9.5” (24.1 cm)	9.5” (24.1 cm)	9.5” (24.1 cm)	9.5” (24.1 cm)
Approximate Weight		155 lb (70 kg)	202 lb (91 kg)	193 lb (88 kg)	248 lb (112 kg)
Materials of Construction	Acrylic	Transparent 0.375” clear Acrylic Front, Side Panels and Curved Airfoil			
	Polypropylene	White 0.375” Polypropylene Baffle, Back and Top Panels			
	Phenolic	Black 0.5” Phenolic Resin Base, Routed to Fit Sidewalls for Containment			
Fan Performance	Volts	110-120 AC	110-120 AC	110-120 AC	110-120 AC
	Watts	75 W	75 W	275 W	275 W
	Amps	0.65 A	0.65 A	2.25 A	2.25 A
	CFM Required w/ Thimble Connection	194 CFM @ 75 LFPM Face Velocity	194 CFM @ 75 LFPM Face Velocity	262 CFM @ 75 LFPM Face Velocity	262 CFM @ 75 LFPM Face Velocity
	Sound Emission	50-55 dB at 3’	50-55 dB at 3’	50-55 dB at 3’	50-55 dB at 3’
Filter Specifications	Filter Type	99.99% Efficient 4” Pleated HEPA Filter			
	Filter Size	18” x 30”	18” x 30”	18” x 36”	18” x 36”
	Filter Count	Single HEPA	Dual HEPA	Single HEPA	Dual HEPA
LED Light	Lifetime	About 50,000 Hours			
	Input Power	575ma at 12 Volts DC			
	Lumens	Max of 675 Lumens			
	Beam Angle	120 Degree Beam Angle			
Velocity Alarm		Integrated Go/No-Go Velocity Alarm - 0.2 Amps			
Factory Testing	ASHRAE	ASHRAE 110-2016 Containment of $\leq$0.050 PPM			
	HAM	Human as Mannequin Test of $\leq$0.050 PPM			
Accessory Shelf		Included as shelf for Printer or Other Accessory			
Waste Chute		Included for Safe Disposal of Waste Inside Enclosure			

Single HEPA Filter - Bag Out Series

Flow Sciences' Single HEPA Series Contained Vented Enclosures are designed for maximum containment with the use of airfoils and plenums, creating a laminar airflow across the work surface, which reduces eddies and turbulence. The ETA Series features a front door lift that allows for easy loading and unloading of equipment. The single 4" thick HEPA filter and fan is ideal for bench top/scale up and nanotechnology applications and has been proven by an independent test organization to contain loss to below 1 µg/m^3 based on process and quality. The top-mounted exhaust system can recirculate air into the lab or send it directly to the house exhaust without transferring vibration from the fan unit to the work surface. As an additional safety measure, FSI's Contained Vented Enclosures feature a face velocity alarm that visually and audibly alerts the operator when airflow is compromised. These features allow for reproducibility and accuracy of weighing. In case of an accident, the dished phenolic base is chemically resistant and designed to contain spills. The ETA Series is available in 3' or 4' standard width units and features LED lights and waste ports to safely transfer contaminants from the enclosure.

Dual HEPA Filters - Bag In / Bag Out Series

Flow Sciences' Dual HEPA BIBO Series of Contained Vented Enclosures are designed to prevent loss of containment with the use of airfoils and plenums, creating a laminar airflow across the work surface, which reduces eddies and turbulence. The ETA Series features a front door lift that allows for easy loading and unloading of equipment. The single 4" thick HEPA filter with fan is ideal for benchtop/scale up and nanotechnology applications and has been proven by an independent test organization to contain loss to below 1 µg/m^3 based on process and quality. FSI's state-of-the-art BIBO feature allows the operator to safely remove and replace the main filter while maintaining maximum containment from toxic fumes and particles. The top-mounted exhaust system can recirculate air into the lab or send it directly to the house exhaust without transferring vibration from the fan unit to the work surface. As an additional safety measure, FSI's Contained Vented Enclosures feature a face velocity alarm that visually and audibly alerts the operator when airflow is compromised. These features allow for reproducibility and accuracy of weighing. In case of an accident, the dished phenolic base is chemically resistant and designed to contain spills. The ETA Series is available in 3' or 4' standard width units and features LED lights and waste ports to safely transfer contaminants from the enclosure.

No Detectable Vibration

The Flow Sciences Contained Vented Enclosure Series eliminates vibration. Through engineering controls and intuitive design, the vibration of the fan does not transfer to the work surface, allowing for accuracy in weighing and other sensitive applications.

NANOSAFE INC.

Flow Sciences Dual HEPA Filter Units are NANO-SAFE Tested

Overview

NanoSafe evaluated the containment of aerosolized nanoparticles by a Flow Sciences, Inc. Process Workstation with Bag-In/Bag-Out, Dual HEPA filtration (Fig. 1). Testing was adapted from ASHRAE 110-1995 and involved traverse-testing of the workstations ash and HEPA exhaust during aerosolation of SiO2 nanoparticles with a geometric mean diameter of 26 nm (Fig. 2). The test provides a useful measure of an enclosure's ability to contain aerosolized nanomaterials.

Results

Internal concentrations of aerosolized SiO2 nanoparticles ranged from 10,000 to 30,000 particles / cm^3 (Fig. 3). Comparing measurements inside the enclosure and around the enclosure sash opening, containment of aerosolized SiO2 nanoparticles was greater than 99.99% (Table 1). Sampling at the HEPA exhaust flow showed essentially zero particles and with the sensitivity of the test, the results indicate no leakage of particles past or through the HEPA filter. Containment of aerosolized SiO2 nanoparticles by the HEPA exhaust unit was greater than 99.999%.

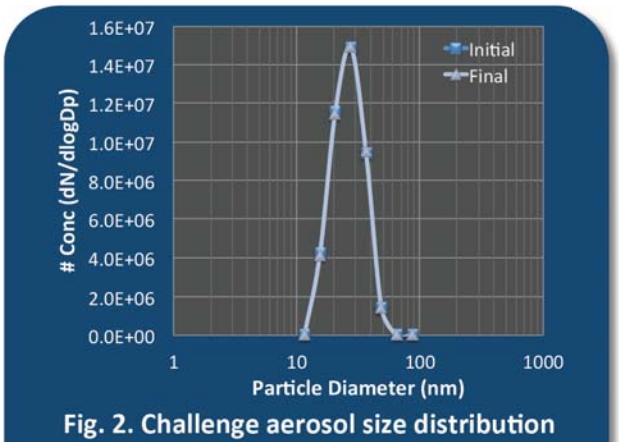


Fig. 2. Challenge aerosol size distribution

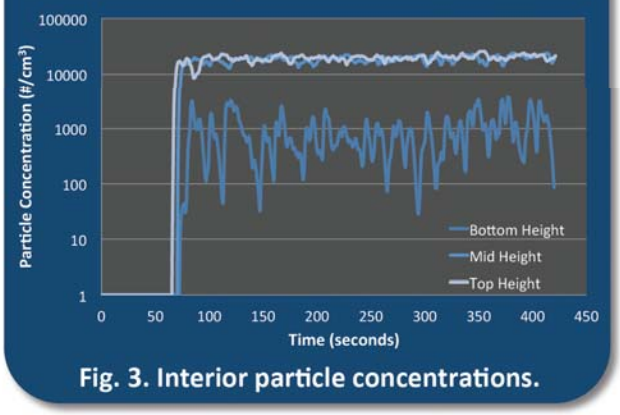


Fig. 3. Interior particle concentrations.

Table 1. Summary of enclosure performance.

Description	Nanoparticle Challenge (particles/cm^3)
Challenge concentration at 4 LPM	1.0×10^7
Mid to top-height in-enclosure particle concentration	10,000 – 30,000
Max. concentration observed during all exterior traverses	1.20
Avg. maximum from aerosol challenge exterior traverse tests	0.64
Max. concentration observed between dual-HEPA filters	0.08
Max. concentration observed at final HEPA exhaust	0.00
Estimate of particle containment (**Sash Opening**) – Avg. Max concentration from exterior traverse tests (0.64) / challenge concentration (10,000)	> 99.99%
Estimate of particle containment (**HEPA Exhaust**) – Avg. Max. concentration from exterior traverse tests (0.00) / challenge concentration (10,000)	> 99.999%

The Flow Sciences Advantage
Price vs. Cost of Ownership

When considering a contained vented enclosure (CVE) for your lab, we understand there are many factors to consider. One of the most important factors is cost of ownership. Unfortunately, the price tag of equipment does not tell the entire story when it comes to the significant investment that is being made. Flow Sciences is trusted by companies across the world and is the exclusive provider of containment enclosures for many of the top 25 big pharma companies. The intuitive design, engineering controls and quality of construction materials in Flow Sciences enclosures make these CVEs the most cost effective option. Here are some reasons why Flow Science units have a lower cost of ownership.

Years of Proven Results
While some companies are scrambling to design and manufacture a CVE that meets the industry standards and provides adequate containment, Flow Sciences enclosures have been in the field across the world for over 25 years.

Safety
The Flow Sciences CVE provides personnel protection for toxic or potent applications. The engineering controls prevent loss of containment, providing a safe lab environment.

Factory Testing
To ensure safety and reproducibility, FSI has a testing lab and lab managers that validate each enclosure meets ANSI Z 95, USP 795, USP 800, ASHRAE 110 and ISPE standards and regulations. FSI has also been third party tested in the lab and in the field. Test reports are available upon request.

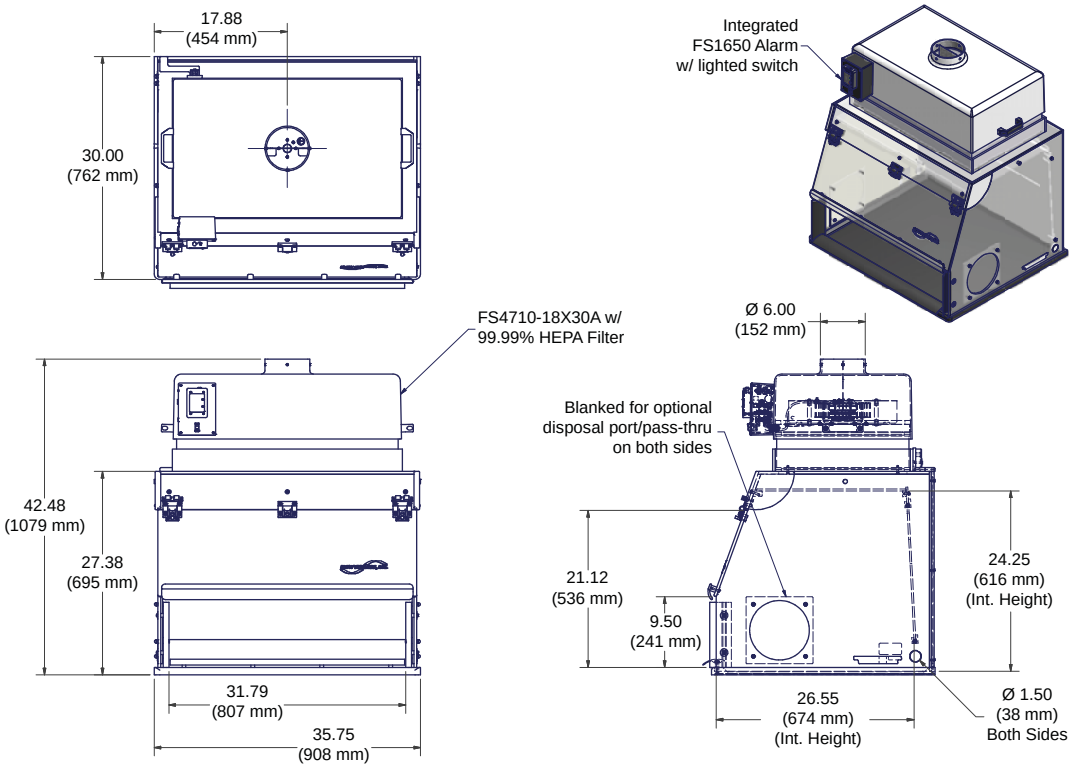
Air Foils / Laminar Air
Other companies may try, but Flow Sciences was the first to add air foils to all four sides of the face opening to reduce sheer and promote laminar air flow across the work surface. Taking the turbulent air outside of the enclosure and directing it into smooth air across the work surface greatly improved balance stability. This means less time spent waiting for balance stabilization.

4” HEPA Filters
With 4” pleated HEPA filters standard in all Flow Sciences CVEs, the need to replace your primary filter becomes a 4-5 year task. The size and life of these filters means that less money has to be spent on replacement filters, re-certification and down time of your process activities.

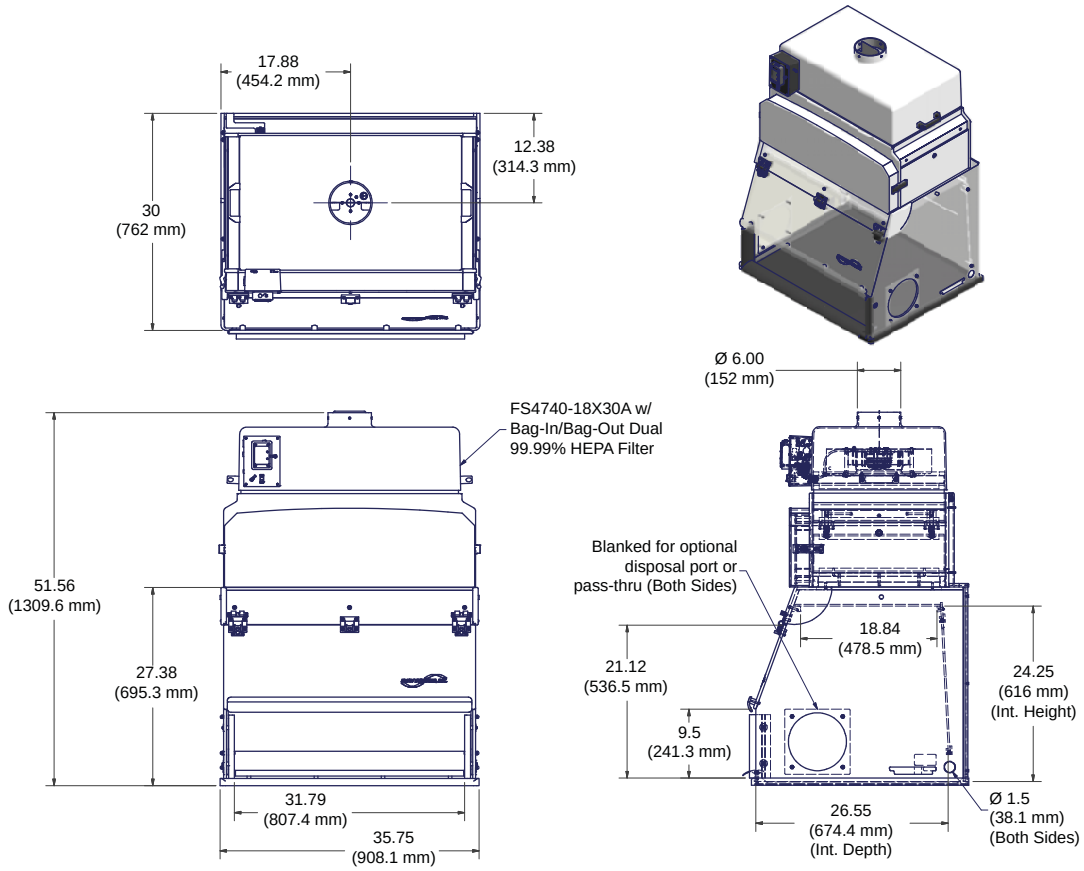
Task Specific Enclosures
Flow Sciences’ safety experts have been providing solutions to the most challenging applications in the industry for over 25 years. These enclosures are task specific and engineered to meet the needs of your laboratory.

Bag-In / Bag-Our (BIBO) Dual 4” Pleated HEPA Filtration
The Flow Sciences Bag-In / Bag-Out (BIBO) series features 2 pleated 4” HEPA filters. The bottom filter (primary) is designed to be replaced by a certified technician safely without contaminating the lab space using the BIBO system. The top (redundant) filter protects the room from contamination during the filter change procedure and is a secondary protection filter during processes. This results in less down time for your lab.

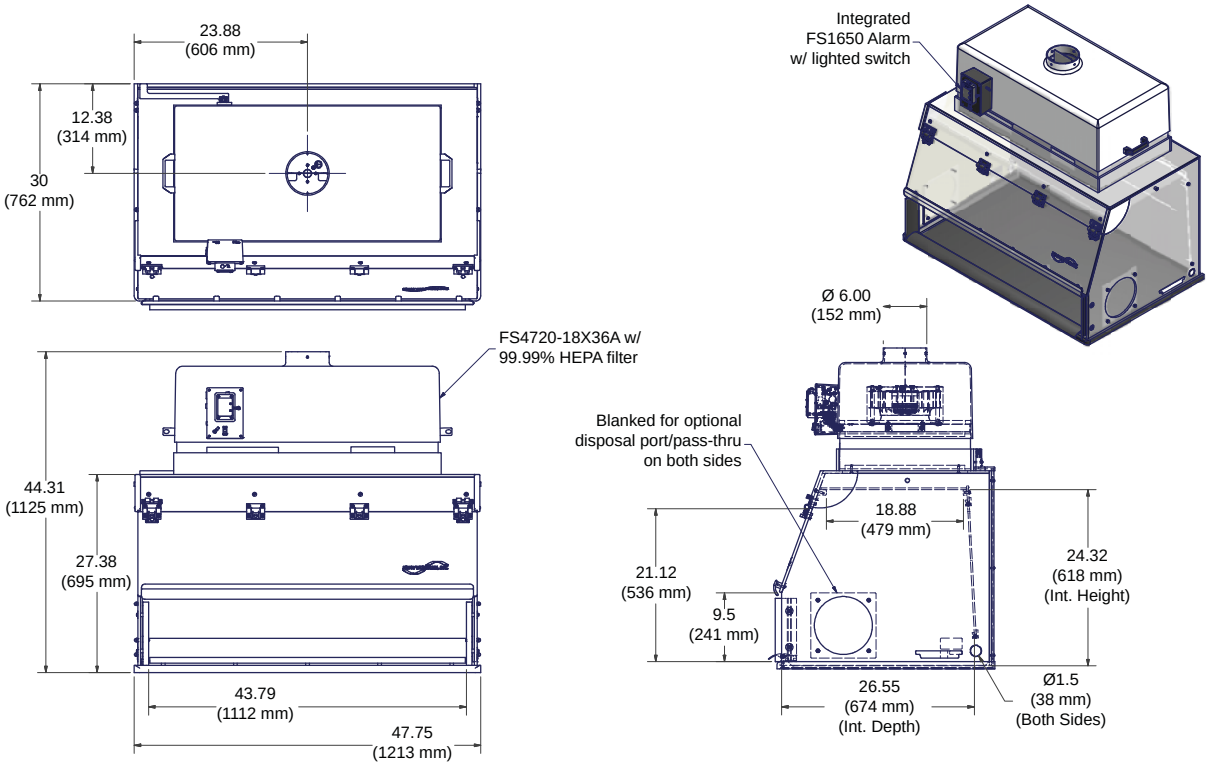
3’ Single HEPA - ETA363024AAD



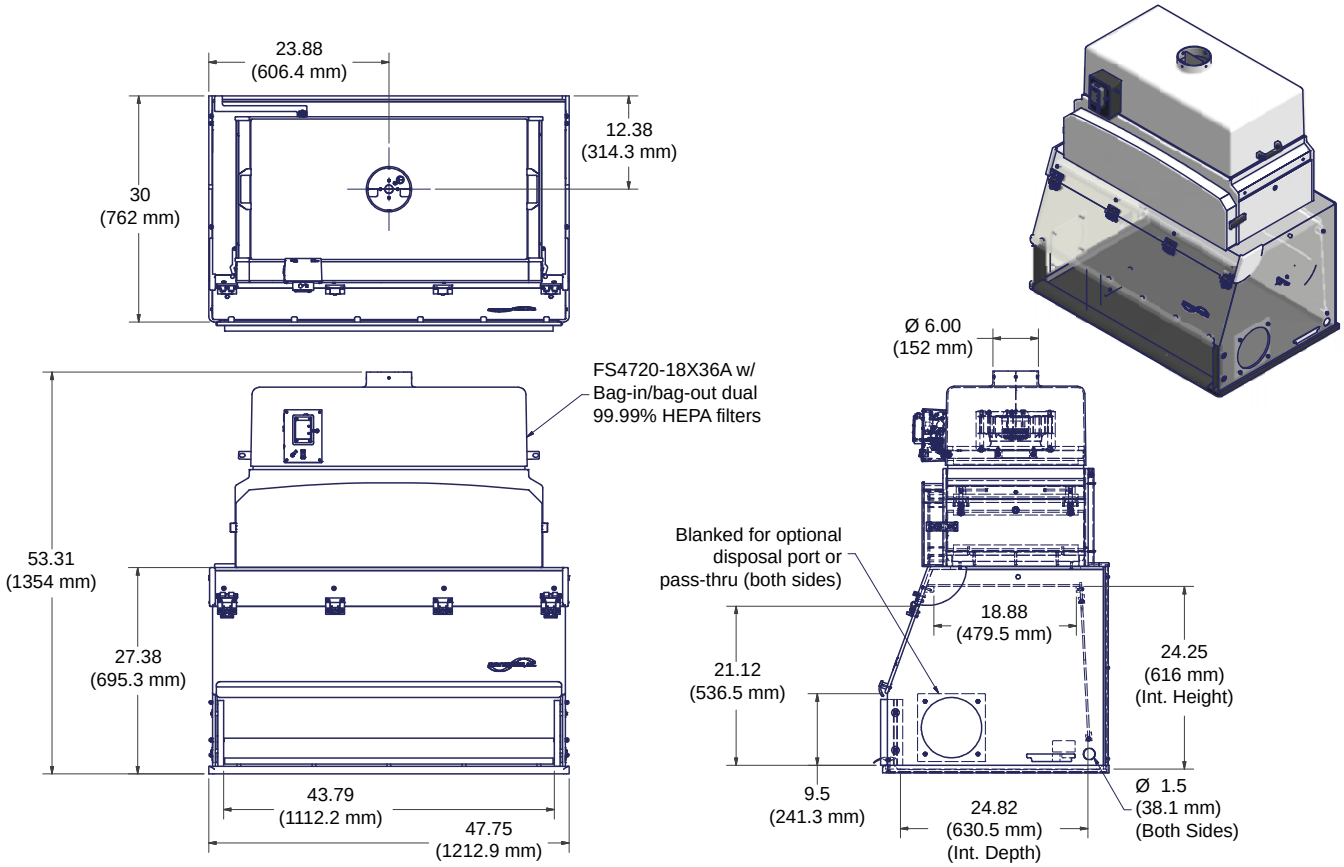
3’ DUAL HEPA - ETA363024ABD



4’ Single HEPA - ETA483024AAD



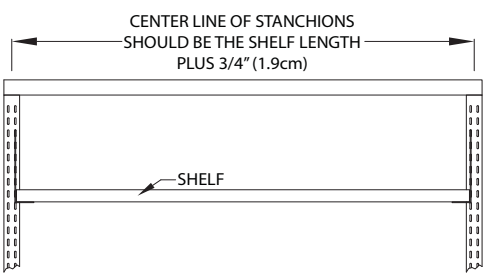
4’ DUAL HEPA - ETA483024ABD

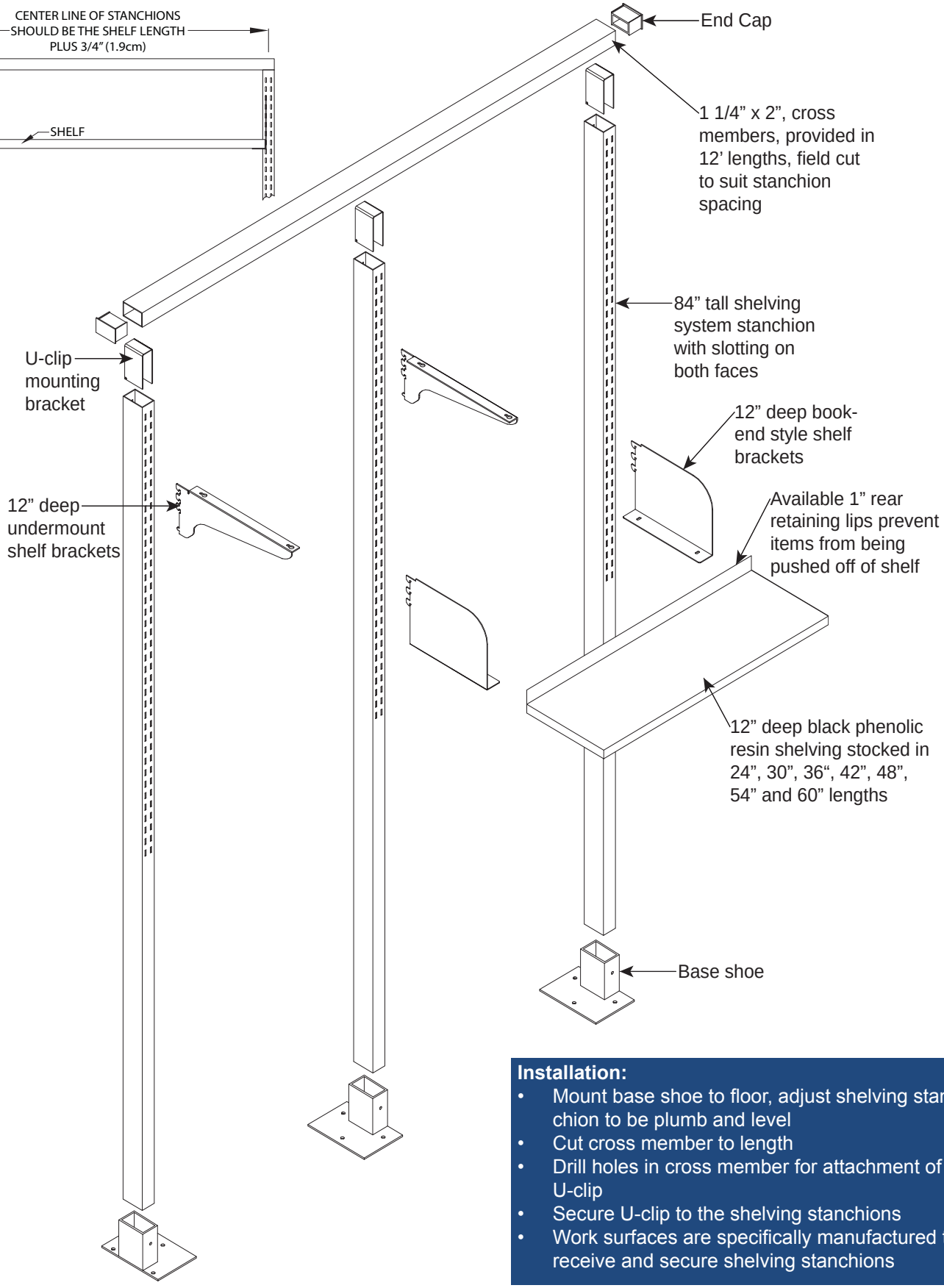


Bench and Wall Shelving

A place for everything and everything in its place

Stanchion Spacing



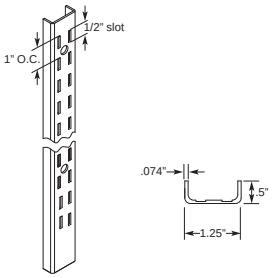


Installation:

- Mount base shoe to floor, adjust shelving stanchion to be plumb and level
- Cut cross member to length
- Drill holes in cross member for attachment of U-clip
- Secure U-clip to the shelving stanchions
- Work surfaces are specifically manufactured to receive and secure shelving stanchions

All steel components come in a distinctive brushed zinc finish that resembles stainless steel.

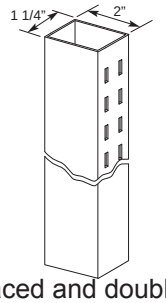
Wall Standard



- General purpose shelving and hang rod
- .074” thick steel
- On center dimension from counter-sunk screw hole to counter-sunk screw hole is 6”

44-3	36” L (91.4 cm)

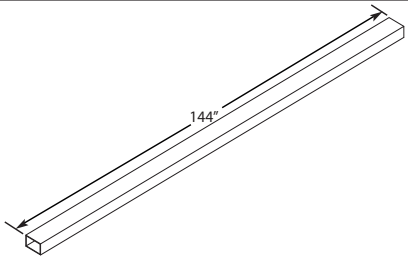
Peninsula/Island Stanchion



- Double faced and double slotted
- This shelving system is for use between back to back cabinets
- Work surfaces are to be specifically bored to receive and secure stanchions
- 16 ga. steel

80-7-SZ	84” L (213.4 cm)

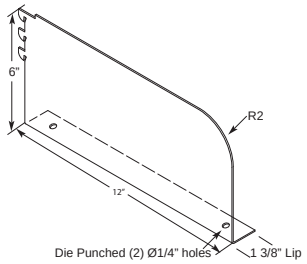
Cross Member



- 16 ga. construction
- Cut to fit stanchion spacing

80-12-NS-SZ	144” L (365.8 cm)

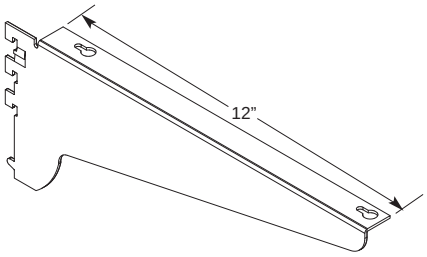
Bookend Shelf Bracket



- 14 ga. steel
- (2) die punched 1/4” diameter holes
- Works with wall mount standard or stanchion

6X12-L-SZ	Left Hand	12” D (30.5 cm)
6X12-R-SZ	Right Hand	12” D (30.5 cm)

Undermount Shelf Bracket



- 14 ga. tempered steel with stabilizer tab
- Keyhole slots for shelf mounting
- Works with wall mount standard or stanchion

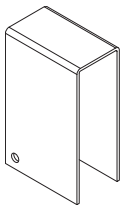
81-L-12	Left Hand	12” D (30.5 cm)
81-R-12	Right Hand	12” D (30.5 cm)

Cross Member Splice

- 16 ga. construction
- Use to connect two cross members for systems for longer than 144”

78	12” (30.5 cm)

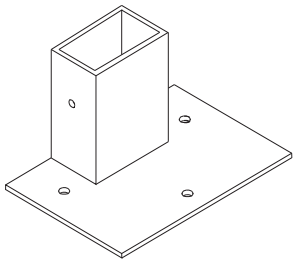
U-Clip Mounting Bracket



- Fits inside stanchion for the secure attachment to cross member

55000060

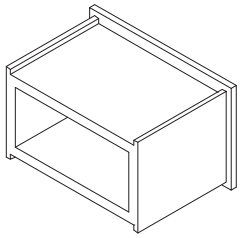
Base Shoe



- For use as an anchoring plate with peninsula/island upright assembly
- 16 ga. construction

MNT/PLT-14GA

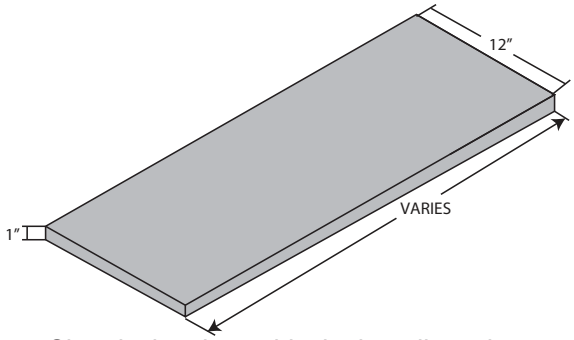
End Cap



- Inserted at each exposed end of cross member
- Black plastic

13

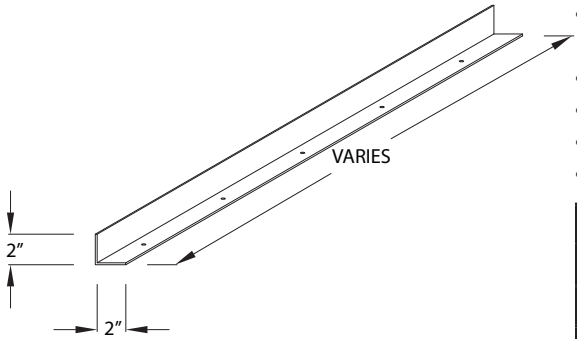
Phenolic Shelving



8” Deep	12” Deep	16” Deep	Width
PS0824	PS1224	PS1624	24” W (61 cm)
PS0830	PS1230	PS1630	30” W (76.2 cm)
PS0836	PS1236	PS1636	36” W (91.4 cm)
PS0842	PS1242	PS1642	42” W (106.7 cm)
PS0848	PS1248	PS1648	48” W (121.9 cm)
PS0854	PS1254	PS1654	54” W (137.2 cm)
PS0860	PS1260	PS1660	60” W (152.4 cm)

- Chemical resistant black phenolic resin
- 1” thick
- Front edge finished
- **Contact us for custom sizes that can ship in 6 days**

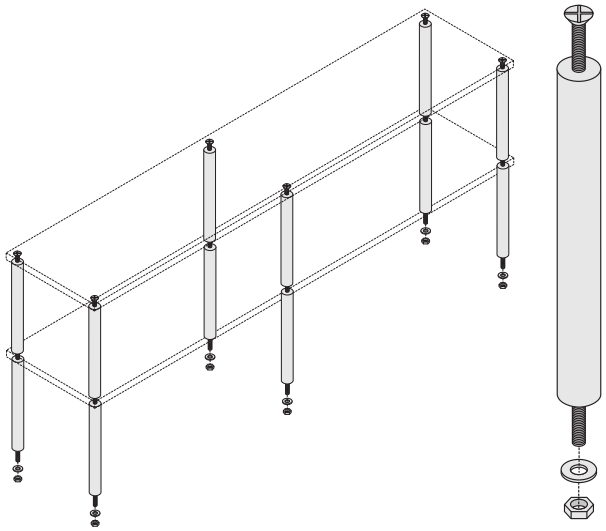
Rear Retaining Lips



- Provides 1” rear lip for island or peninsula shelving when used with 1” thick shelves
- Attaches to the bottom of shelf
- Holes for attachment spaced at 6” intervals
- Sized to fit shelf
- 16 ga. construction

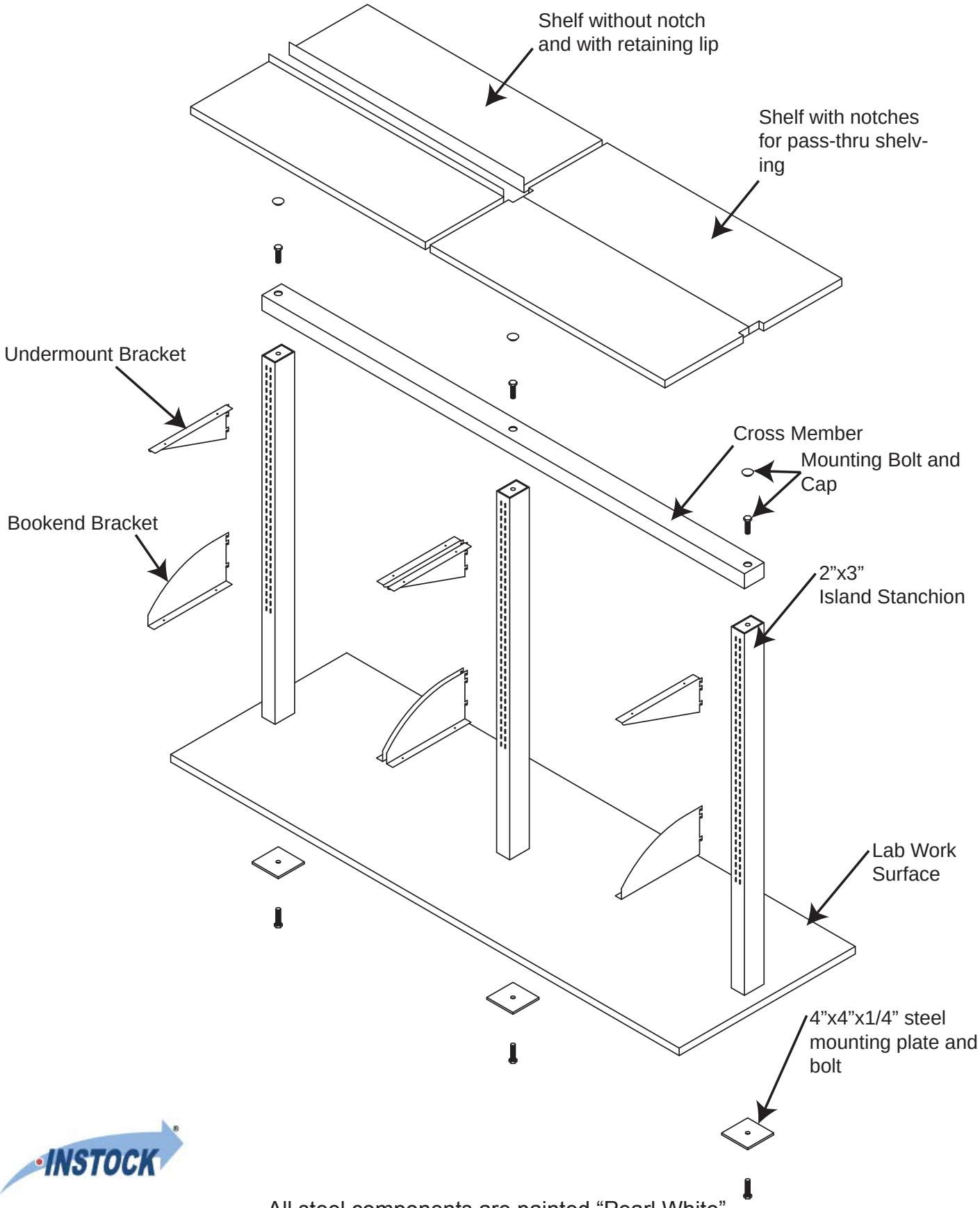
Brushed Zinc	Painted Steel	Length
SLA24	PSLA24	24” L (61 cm)
SLA30	PSLA30	30” L (76.2 cm)
SLA36	PSLA36	36” L (91.4 cm)
SLA42	PSLA42	42” L (106.7 cm)
SLA48	PSLA48	48” L (121.9 cm)
SLA54	PSLA54	54” L (137.2 cm)
SLA60	PSLA60	60” L (152.4 cm)
SLA144	PSLA144	144” L (365.8 cm)

Bench Mounted Reagent Poles - Painted



- 1” diameter painted steel pole is threaded at both ends
- Bolts through the work surface for secure mounting
- Poles can stack to create tiered shelves in the center of a bench
- Shelving is custom made within a week
- Fastener on the reagent shelf surfaces is recessed
- Hardware is included for each installation
- Paint finish is "Pearl White"

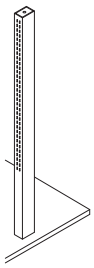
RP-12	12” L (30.5 cm)
RP-15	15” L (38.1 cm)
RP-18	18” L (45.7 cm)
RP-24	24” L (61 cm)



All steel components are painted “Pearl White”

All steel components are painted “Pearl White”

Island Stanchion



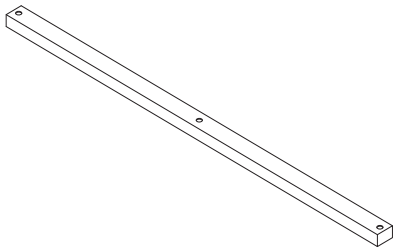
- 48" Tall
- 11 ga.
- All hardware is included

FT-23-4B-48.00A	48” L (121.9 cm)

Wall Standard

FC-1.5X1-2B-36.00	36” L (91.4 cm)
FC-1.5X1-2B-48.00	48” L (121.1 cm)
FC-1.5X1-2B-60.00	60” L (152.4 cm)
FC-1.5X1-2B-72.00	72” L (182.9 cm)

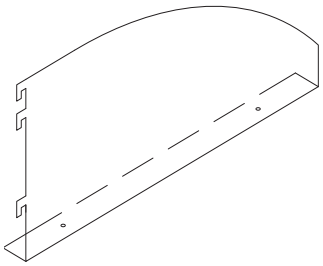
Cross Member



- Cross members are custom made for each project
- Priced in 12” increments
- Welded and caps
- All hardware is included
- Contact us for full details

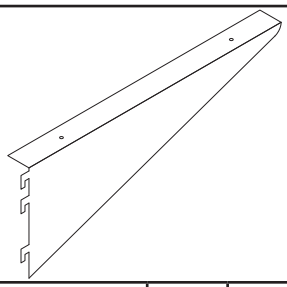
TUB2X3X24-H	24” W (61 cm)
TUB2X3X36-H	36” W (91.4 cm)
TUB2X3X48-H	48” W (121.9 cm)
TUB2X3X60-H	60” W (152.4 cm)
TUB2X3X72-H	72” W (182.9 cm)
TUB2X3X84-H	84” W (213.4 cm)
TUB2X3X96-H	96” W (243.8 cm)
TUB2X3X108-H	108” W (274.3 cm)
TUB2X3X120-H	120” W (304.8 cm)
TUB2X3X132-H	132” W (335.3 cm)
TUB2X3X144-H	144” W (365.8 cm)

Bookend Shelf Bracket



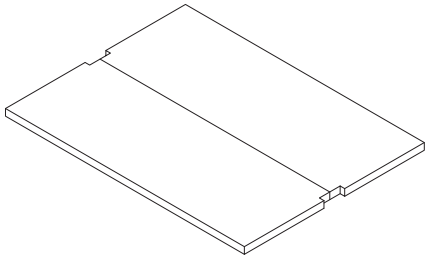
FTB-14GA-8L-E	Left	8” D (20.3 cm)
FTB-14GA-12L-E	Left	12” D (30.5 cm)
FTB-14GA-16L-E	Left	16” D (40.6 cm)
FTB-14GA-8R-E	Right	8” D (20.3 cm)
FTB-14GA-12R-E	Right	12” D (30.5 cm)
FTB-14GA-16R-E	Right	16” D (40.6 cm)

Undermount Bracket



FTBL-14GA-8L-E	Left	8” D (20.3 cm)
FTBL-14GA-12L-E	Left	12” D (30.5 cm)
FTBL-14GA-16L-E	Left	16” D (40.6 cm)
FTBL-14GA-8R-E	Right	8” D (20.3 cm)
FTBL-14GA-12R-E	Right	12” D (30.5 cm)
FTBL-14GA-16R-E	Right	16” D (40.6 cm)

Notched Shelving for Island Stanchions



8” Deep	12” Deep	16” Deep	Width
PSN0824	PSN1224	PSN1624	24” W (61 cm)
PSN0830	PSN1230	PSN1630	30” W (76.2 cm)
PSN0836	PSN1236	PSN1636	36” W (91.4 cm)
PSN0842	PSN1242	PSN1642	42” W (106.7 cm)
PSN0848	PSN1248	PSN1648	48” W (121.9 cm)
PSN0854	PSN1254	PSN1654	54” W (137.2 cm)
PSN0860	PSN1260	PSN1660	60” W (152.4 cm)

- Chemical resistant black phenolic resin
- 1” thick
- Front edge finished
- Notched around standards to create a pass-thru shelf
- Contact us for retaining lips

Stationary Wire Shelving

Furnished in chrome plated carbon steel or stainless steel

Mobile Wire Shelving

Chrome	Stainless Steel	Dimensions D x W x H
J1836-74C	SS1836	18” x 36” x 74” (45.7 x 91.4 x 187.9 cm)
J1848-74C	SS1848	18” x 48” x 74” (45.7 x 121.9 x 187.9 cm)
J1860-74C	SS1860	18” x 60” x 74” (45.7 x 152.4 x 187.9 cm)
J1872-74C	SS1872	18” x 72” x 74” (45.7 x 182.9 x 187.9 cm)
J2436-74C	SS2436	24” x 36” x 74” (60.9 x 91.4 x 187.9 cm)
J2448-74C	SS2448	24” x 48” x 74” (60.9 x 121.9 x 187.9 cm)
J2460-74C	SS2460	24” x 60” x 74” (60.9 x 152.4 x 187.9 cm)
J2472-74C	SS2472	24” x 72” x 74” (60.9 x 182.9 x 187.9 cm)

Chrome	Stainless Steel	Dimensions D x W x H
MJ1836-74C	MSS1836	18” x 36” x 79” (45.7 x 91.4 x 200.7 cm)
MJ1848-74C	MSS1848	18” x 48” x 79” (45.7 x 121.9 x 200.7 cm)
MJ1860-74C	MSS1860	18” x 60” x 79” (45.7 x 152.4 x 200.7 cm)
MJ1872-74C	MSS1872	18” x 72” x 79” (45.7 x 182.9 x 200.7 cm)
MJ2436-74C	MSS2436	24” x 36” x 79” (60.9 x 91.4 x 200.7 cm)
MJ2448-74C	MSS2448	24” x 48” x 79” (60.9 x 121.9 x 200.7 cm)
MJ2460-74C	MSS2460	24” x 60” x 79” (60.9 x 152.4 x 200.7 cm)
MJ2472-74C	MSS2472	24” x 72” x 79” (60.9 x 182.9 x 200.7 cm)

Shelving Features:

- Chrome wire shelving is made of carbon-steel
- Stainless Steel Units are made of Type 304 Polished Stainless Steel
- Each unit includes: 4 posts, 4 shelves and split-sleeves to attach shelves to posts
- Open wire design minimizes dust accumulation and allows circulation for air
- Shelves can be adjusted at 1” intervals along entire height of the post
- 36"-54" long shelves have a maximum capacity of 800 lbs./each
- 60"-72" long shelves have a maximum capacity of 600 lbs./each
- Each mobile unit has a maximum capacity of 900 lbs., with uniformly distributed load
- Each stationary unit has a maximum capacity of 2,000 lbs., with uniformly distributed load
- Casters: Rubber casters with Poly housing, 5" Swivel, 2 with brake.

Wire Shelf Dividers

- Keep shelf contents orderly with these 8" high, pressure-fit dividers

Chrome	Stainless Steel	Dimensions L x H
JDD18C	DD18S	18" x 8" (45.7 x 20.3 cm)
JDD24C	DD24S	24" x 8" (61 x 20.3 cm)

Wire Shelf Ledges

- For stationary or mobile installations
- Ledges prevent items from protruding or falling from shelves

Chrome	Stainless Steel	Dimensions L x H
JL18N-4C	L18N-4S	18" x 4" (45.7x 10.2 cm)
JL24N-4C	L24N-4S	24" x 4" (61 x 10.2 cm)
JL36N-4C	L36N-4S	36" x 4" (91.4 x 10.2 cm)
JL48N-4C	L48N-4S	48" x 4" (121.9 x 10.2 cm)
JL60N-4C	L60N-4S	60" x 4" (152.4 x 10.2 cm)
JL72N-4C	L72N-4S	72" x 4" (182.9 x 10.2 cm)

Wire Super Slide

- Finish is nickel-chrome wire with clean protective coating
- Only for 24" deep units

Part Number	Dimensions H x W x L
SS2NC	10 1/4" x 20 3/8 x 21 5/8" (26 x 52.3 x 54.9 cm)
Metro Totes	
MTB93030W	3" x 17 1/2" x 22 1/2" (7.6 x 44.5 x 57.2 cm)
MTB93060W	6" x 17 1/2" x 22 1/2" (15.2 x 44.5 x 57.2 cm)
MTB93080W	8" x 17 1/2" x 22 1/2" (20.3 x 44.5 x 57.2 cm)

Clear Label Holders

- Clear plastic label
- Holds most commercial 1 1/4" labels

Part Number	Fits Shelf Length	Dimensions W x H
9990CL	All	3" x 1 1/4" (7.6 x 3.2 cm)
9990CL1	18"	13" x 1 1/4" (33 x 3.2 cm)
9990CL2	24"	19" x 1 1/4" (48.3 x 3.2 cm)
9990CL30	30"	25" x 1 1/4" (63.5 x 3.2 cm)
9990CL3	36"	31" x 1 1/4" (78.7 x 3.2 cm)
9990CL4	48"	43" x 1 1/4" (109.2 x 3.2 cm)
9990CL5	60"	55" x 1 1/4" (139.7 x 3.2 cm)

Epoxy Coated Stationary Wire Shelving

Furnished in Metroseal 3 epoxy. Corrosion resistant finish for wet or high humidity environments.

Epoxy Coated Mobile Wire Shelving

J1836-74K	18” x 36” x 74” (45.7 cm x 91.4 cm x 187.9 cm)
J1848-74K	18” x 48” x 74” (45.7 cm x 121.9 cm x 187.9 cm)
J1860-74K	18” x 60” x 74” (45.7 cm x 152.4 cm x 187.9 cm)
J1872-74K	18” x 72” x 74” (45.7 cm x 182.9 cm x 187.9 cm)
J2436-74K	24” x 36” x 74” (60.9 cm x 91.4 cm x 187.9 cm)
J2448-74K	24” x 48” x 74” (60.9 cm x 121.9 cm x 187.9 cm)
J2460-74K	24” x 60” x 74” (60.9 cm x 152.4 cm x 187.9 cm)
J2472-74K	24” x 72” x 74” (60.9 cm x 182.9 cm x 187.9 cm)

MJ1836-74K	18” x 36” x 74” (45.7 cm x 91.4 cm x 187.9 cm)
MJ1848-74K	18” x 48” x 74” (45.7 cm x 121.9 cm x 187.9 cm)
MJ1860-74K	18” x 60” x 74” (45.7 cm x 152.4 cm x 187.9 cm)
MJ1872-74K	18” x 72” x 74” (45.7 cm x 182.9 cm x 187.9 cm)
MJ2436-74K	24” x 36” x 74” (60.9 cm x 91.4 cm x 187.9 cm)
MJ2448-74K	24” x 48” x 74” (60.9 cm x 121.9 cm x 187.9 cm)
MJ2460-74K	24” x 60” x 74” (60.9 cm x 152.4 cm x 187.9 cm)
MJ2472-74K	24” x 72” x 74” (60.9 cm x 182.9 cm x 187.9 cm)

Epoxy Coated Shelving Features:

- Each unit includes 4 posts, 4 shelves and split-sleeves to attach shelves to posts
- Open wire design minimizes dust accumulation and allows free circulation for air
- Shelves can be adjusted at 1” intervals along entire height of the post
- 36"-54" long shelves have a maximum capacity of 800 lbs./each
- 60"-72" long shelves have a maximum capacity of 600 lbs./each
- Each mobile unit has a maximum capacity of 900 lbs., with uniformly distributed load
- Each stationary unit has a maximum capacity of 2,000 lbs., with uniformly distributed load
- 7 year limited warranty against rust and corrosion
- Unit Casters: Rubber casters with Poly housing, 5" Swivel, 2 with brake.

Garment Racks - Stainless Steel

Upright

Wall Mount

- Electro-polished, Type 304 Stainless Steel hangers are included. Hangers are spaced 3” (7.6 cm) intervals
- Open wire construction promotes laminar air flow
- Unique hanger capture mechanism provides theft deterrence
- Easy to assemble
- Adjustable stainless steel triangular foot plates provided for floor mounting
- Upright unit is non-conductive.

Wall Mount	Upright	Dimensions	Number of Hangers
GRW2436S	GRU2436S	24” x 36” (61cm x 91.4cm)	11
GRW2448S	GRU2448S	24” x 48” (61cm x 121.9cm)	15

Gowning Bench - Stainless Steel

- Heavy-duty, solid top bench provides a sturdy and comfortable gowning fixture. All benches are 18” (45.7cm) tall
- Top is manufactured from 14 gauge, Type 304 stainless steel
- Adjustable stainless steel foot plates provide for floor mounting
- Unit is non-conductive

Part Number	Dimensions
GB1636S	16” x 36” (40.6cm x 91.4cm)
GB1648S	16” x 48” (40.6cm x 121.9cm)
GB1660S	16” x 60” (40.6cm x 152.4cm)
GB1672S	16” x 72” (40.6cm x 182.5cm)

Security Units

- Durable chrome finish will not chip or flake
- Double doors each open 270 degrees and can be secured along the sides of the unit
- Mobile units (4) 5” polyurethane swivel casters with bumpers
- Unit comes with top and bottom shelves and 2 internal wire shelves.
- Stationary Units are 67" tall. Mobile units are 68" tall.

Stationary Unit

Part Number	Dimensions
JSEC53	24” x 36” x 67" (61 x 91.4 x 170.2cm)
JSEC55	24” x 48” x 67" (61 x 121.9 x 170.2 cm)
JSEC56	24” x 60” x 67" (61 x 152.4 x 170.2 cm)

Mobile Unit

Part Number	Dimensions
MJSEC53	24” x 36” x 68" (61 x 91.4 x 172.7cm)
MJSEC55	24” x 48” x 68" (61 x 121.9 x 172.7 cm)
MJSEC56	24” x 60” x 68" (61 x 152.4 x 172.7 cm)

MetroMax Utility Cart

Three Shelf Model

- Corrosion proof shelves, posts and Type 304 stainless steel handle
- 5” (12.7cm) swivel casters, polyurethane wheels, poly housing and stainless steel axles
- Donut bumpers included with casters
- Furnished complete as a 2 shelf or 3 shelf unit

Part Number	Description	Dimensions W x D x H
MXUC1830-25	2 Shelves	18” x 30” x 39” (45.7cm x 76.2cm x 99.1cm)
MXUC2436-25	2 Shelves	24” x 36” x 39” (61cm x 91.4cm x 99.1cm)
MXUC1830-35	3 Shelves	18” x 30” x 39” (45.7cm x 76.2cm x 99.1cm)
MXUC2436-35	3 Shelves	24” x 36” x 39” (61cm x 91.4cm x 99.1cm)

Polymer Utility Cart

- Each cart comes with two labels for easy identification
- All-polymer shelves will never corrode
- Impact resistant shelves are designed to with stand daily abuse
- 7/16” (1.1cm) shelf's edge retains small spills and prevents items from sliding off during transport
- Blue units have built-in Microban antimicrobial product protection

Part Number	Descriptions	Dimensions W x L x H
MY1627-24G	Grey - 2 Shelves	18 5/16” x 31 1/2” x 35 1/2” (46.5cm x 80cm x 90.2cm)
MY1627-24BL	Black - 2 Shelves	
MY1627-24BU	Blue - 2 Shelves	
MY1627-34G	Grey - 3 Shelves	18 5/16” x 31 1/2” x 35 1/2” (46.5cm x 80cm x 90.2cm)
MY1627-34BL	Black - 3 Shelves	
MY1627-34BU	Blue - 3 Shelves	
MY2030-24G	Grey - 2 Shelves	23 7/16” x 34 3/8” x 35 1/2” (59.5cm x 87.3cm x 90.2cm)
MY2030-24BL	Black - 2 Shelves	
MY2030-24BU	Blue - 2 Shelves	
MY2030-34G	Grey - 3 Shelves	23 7/16” x 34 3/8” x 35 1/2” (59.5cm x 87.3cm x 90.2cm)
MY2030-34BL	Black - 3 Shelves	
MY2030-34BU	Blue - 3 Shelves	
MY2636-25G	Grey - 2 Shelves	27 11/16” x 40 1/4” x 36 7/8” (70.3cm x 102.2cm x 93.7cm)
MY2636-25BL	Black - 2 Shelves	
MY2636-25BU	Blue - 2 Shelves	
MY2636-35G	Grey - 3 Shelves	27 11/16” x 40 1/4” x 36 7/8” (70.3cm x 102.2cm x 939.7cm)
MY2636-35BL	Black - 3 Shelves	
MY2636-35BU	Blue - 3 Shelves	

Deep Ledge Polymer Utility Cart

- Specially designed with a 2 3/4" deep ledge to contain product and spills
- Polymer shelves are easy to clean and corrosion proof
- On units with 3 shelves the center shelf adjusts at 1" increments
- Weight capacity is 400 lbs
- Blue units have built-in Microban antimicrobial product protection

Part Number	Descriptions	Dimensions W x L x H
BC2030-2DG	Grey - 2 Shelves	21 1/2" x 33 3/4" x 33 1/4" (54.6 x 85.7 x 84.5 cm)
BC2030-2DBL	Black - 2 Shelves	
BC2030-2DMB	Blue - 2 Shelves	
BC2030-3DG	Grey - 3 Shelves	21 1/2" x 33 3/4" x 33 1/4" (54.6 x 85.7 x 84.5 cm)
BC2030-3DBL	Black - 3 Shelves	
BC2030-3DMB	Blue - 3 Shelves	
BC2636-2DG	Grey - 2 Shelves	27" x 39 1/2" x 33 1/4" (68.5 x 100.3 x 84.5 cm)
BC2636-2DBL	Black - 2 Shelves	
BC2636-2DMB	Blue - 2 Shelves	
BC2636-3DG	Grey - 3 Shelves	27" x 39 1/2" x 33 1/4" (68.5 x 100.3 x 84.5 cm)
BC2636-3DBL	Black - 3 Shelves	
BC2636-3DMB	Blue - 3 Shelves	

MetroMax Mobile Shelving

Grid Shelves

Solid Shelves

- Corrosion proof shelves and posts; removable polymer mats
- Standard units consist of 4 shelves, 63” tall posts, wedge connectors and polyurethane casters
- 4 swivel casters, 2 with brakes
- Weight capacity of cart: 900 lbs.

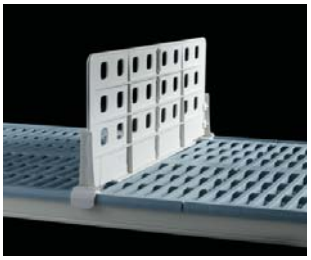
Part Number (Grid Shelves)	Part Number (Solid Shelves)	Dimensions D x W x H
X336EGX3	X336EFX3	18” x 36” x 67 5/16” (45.7cm x 91.4cm x 171cm)
X356EGX3	X356EFX3	18” x 48” x 67 5/16” (45.7cm x 122cm x 171cm)
X366EGX3	X366EFX3	18” x 60” x 67 5/16” (45.7cm x 152.4cm x 171cm)
X536EGX3	X536EFX3	24” x 36” x 67 5/16” (61cm x 91.4cm x 171cm)
X556EGX3	X556EFX3	24” x 48” x 67 5/16” (61cm x 122cm x 171cm)
X566EGX3	X566EFX3	24” x 60” x 67 5/16” (61cm x 152.4cm x 171cm)

MetroMax Microban Mobile Shelving

- Built in Microban antimicrobial product protection
- Standard units consist of 5 shelves (4 open and 1 solid). 63” posts, wedge connectors and polyurethane casters, 2 with brakes
- Weight Capacity of cart: 900 lbs

Part Number (Grid Shelves)	Dimensions D x W x H
5X337EGX3	18” x 36” x 67 5/16” (45.7cm x 91.4cm x 201.5cm)
5X357EGX3	18” x 48” x 67 5/16” (45.7cm x 122cm x 201.5cm)
5X367EGX3	18” x 60” x 67 5/16” (45.7cm x 152.4cm x 201.5cm)
5X537EGX3	24” x 36” x 67 5/16” (61cm x 91.4cm x 201.5cm)
5X557EGX3	24” x 48” x 67 5/16” (61cm x 122cm x 201.5cm)
5X567EGX3	24” x 60” x 67 5/16” (61cm x 152.4cm x 201.5cm)

MetroMax Shelf Dividers



- Use to create organized compartments or to simply separate shelf contents
- Easily repositioned on grid and solid shelves
- Corrosion proof: Polymer (High-Density Polypropylene)

Part Number	Dimensions L x H
MXD18-8	18" x 8" (45.7 x 20.3 cm)
MXD24-8	24" x 8" (60.9 x 20.3 cm)

MetroMax Shelf Ledges

- Solid design helps contain small items
- Clear plastic allows light penetration and visible access to supplies
- Corrosion proof

Part Number	Type	Dimensions L x H
MXLS18-4P	Side	18" x 4" (45.7 x 10.2 cm)
MXLS24-4P	Side	24" x 4" (60.9 x 10.2 cm)
MXL24-4P	Back	24" x 4" (60.9 x 10.2 cm)
MXL36-4P	Back	36" x 4" (91.4 x 10.2 cm)
MXL48-4P	Back	48" x 4" (121.9 x 10.2 cm)
MXL60-4P	Back	60" x 4" (152.4 x 10.2 cm)

MetroMax Label Holder

- Designed to accept label cards or adhesive labels
- Slot measures approx. 1-1/4" (3.2 cm)

Part Number	Fits Shelf Length	Actual Length
9989PX	All	4 1/2" (11.4 cm)
9989X1	24"	11 9/32" (28.7 cm)
9989X3	36"	23 9/32" (59.1 cm)
9989X5	48"	35 9/32" (89.6 cm)

MetroMax Super Slide

- Designed to fit a 24" wide shelf
- Easily attaches to the shelf frame (under the mats) and is sized to hold 3", 5" , 6" and 8" tall totes (sold separately)
- Corrosion resistant taupe epoxy finish with Microban antimicrobial product protection
- Totes are white

Part Number	Dimensions W x L x H
MXSS2E	20 3/8" x 21 5/8" x 10 1/4" (52.3 x 54.9 x 26 cm)
Totes - White	
MTB93030W	3" x 17 1/2" x 22 1/2" (7.6 x 44.5 x 57.2 cm)
MTB93060W	6" x 17 1/2" x 22 1/2" (15.2 x 44.5 x 57.2 cm)
MTB93080W	8" x 17 1/2" x 22 1/2" (20.3 x 44.5 x 57.2 cm)

High Performance Liquid Chromatography (HPLC) Carts

- HPLC carts contribute to greater benchtop productivity and lab efficiency
- Mobilize and stack HPLC equipment on carts to maximize valuable lab space
- Avoid crowding valuable bench top space with High Performance Liquid Chromatography or other analytical equipment

Part Number	Number of Shelves	Dimensions W x L x H
HPLC1X3	4 Shelves Single Experiment Cart (Casters Included)	24” x 30” x 80” (61cm x 76.2cm x 205.7cm)
HPLC2X3	4 Shelves Double Experiment Cart (Casters Included)	24” x 48” x 80” (61cm x 121.9cm x 205.7cm)

Slide-Out Keyboard Shelf

- Epoxy coated, corrosion resistant
- Designed to fit both 24" wide HPLC cart.
- Shelf load should not exceed 10 lbs.

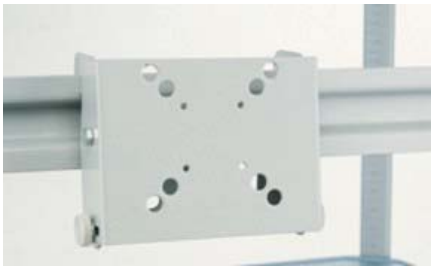
KBX

Power Strip

- Six outlet power strip
- Mounts flush to shelf frame
- Power strip is UL approved
- Comes with 6' long power cord

PSX

Flat Monitor Mounting Kit



- Mounting bracket and cross-bar design permits flat monitor to be mounting on units
- Flat monitor can be mounted between two posts either in back or front of unit.
- Mounting bracket loading should not exceed 30 lbs.
- VESA mounting plates included with bracket

Part Number	Description	Dimensions W x L x H
FM30X3	Bracket and Cross Bar Use with 30" unit	2 1/8" x 30" x 3" (5.4 x 76.2 x 7.6 cm)
FM48X3	Bracket and Cross Bar Use with 48" unit	2 1/8" x 48" x 3" (5.4 x 121.9 x 7.6 cm)
FMBX	Mounting Bracket Only	3 7/16" x 8 13/16 x 5 3/4" (8.7 x 22.4 x 14.6 cm)

Glassware Carts

- Two-basket and four-basket capacity glassware solutions are offered in space-saving 18"x36" footprint
- The bottom shelf provides spill retention and can be removed from shelf frame for easy cleaning
- Corrosion resistant
- Casters included

Part Number	Description	Dimensions W x L x H
GWBX3-1C	2-Basket Unit	18" x 36" x 40" (45.7 x 91.4 x 101.6 cm)
GWBX3-2C	4-Basket Unit	18" x 36" x 60" (45.7 x 91.4 x 152.4 cm)
GWTX3-1C	2-Solid Shelf Unit	18" x 36" x 40" (45.7 x 91.4 x 101.6 cm)
GWTX3-2C	4-Solid Shelf Unit	18" x 36" x 60" (45.7 x 91.4 x 152.4 cm)

Shown GWBX3-1C with optional totes.

Jumbo Lug Racks

- Constructed from square aluminum tube with radius corners
- All welded, heavy duty cart
- Gusseted legs for added strength
- Heavy duty 5" swivel Poly caster

Part Number	Dimensions W x L x H
JL2 (2 Bin Rack)	16" x 28 1/2" x 34 1/2" (40.6 x 72.4 x 87.6 cm)
JL4 (4 Bin Rack)	19" x 26" x 51"' (48.3 x 66 x 129.5 cm)
JL6 (6 Bin Rack)	19" x 26" x 71" (48.3 x 66 x 180.3 cm)
JL10 (10 Bin Rack)	37" x 26" x 61 1/2" (94 x 66 x 156.2 cm)

Jumbo Lugs

Part Number	Color	Dimensions L x W x D
JL2516096800000	White	25” x 16” x 8.5” (63.5cm x 40.6cm x 21.6cm)
JL2516096801000	Light Gray	25” x 16” x 8.5” (63.5cm x 40.6cm x 21.6cm)

Stainless Steel Worktables with Bottom Shelf

- Seamless 14-gauge Type 304 stainless steel work surface and support structure
- Stationary work tables are 34" tall with stationary posts and leveling feet

Part Number	Dimensions W x L x H
WT305FS	30" x 48" x 34" (76.2 x 121.9 x 76 cm)
WT306FS	30" x 60" x 34" (76.2 x 152.4 x 76 cm)
WT307FS	30" x 72" x 34" (76.2 x 182.9 x 76 cm)
WT309FS	30" x 96" x 34" (76.2 x 243.8 x 76 cm)
WT366FS	36" x 60" x 34" (91.4 x 152.4 x 76 cm)
WT367FS	36" x 72" x 34" (91.4 x 182.9 x 76 cm)
WT369FS	36" x 96" x 34" (91.4 x 243.8 x 76 cm)
WT446FS	44" x 60" x 34" (111.8 x 152.4 x 76 cm)
WT447FS	44" x 72" x 34" (111.8 x 182.9 x 76 cm)
WT449FS	44" x 96" x 34" (111.8 x 243.8 x 76 cm)

Stainless Steel Worktables with 3-sided Frame

- Seamless 14-gauge Type 304 stainless steel work surface and support structure
- Stationary work tables are 34" tall with stationary posts and leveling feet

Part Number	Dimensions W x L x H
WT305US	30" x 48" x 34" (76.2 x 121.9 x 76 cm)
WT306US	30" x 60" x 34" (76.2 x 152.4 x 76 cm)
WT307US	30" x 72" x 34" (76.2 x 182.9 x 76 cm)
WT309US	30" x 96" x 34" (76.2 x 243.8 x 76 cm)
WT366US	36" x 60" x 34" (91.4 x 152.4 x 76 cm)
WT367US	36" x 72" x 34" (91.4 x 182.9 x 76 cm)
WT369US	36" x 96" x 34" (91.4 x 243.8 x 76 cm)
WT446US	44" x 60" x 34" (111.8 x 152.4 x 76 cm)
WT447US	44" x 72" x 34" (111.8 x 182.9 x 76 cm)
WT449US	44" x 96" x 34" (111.8 x 243.8 x 76 cm)

Mobile Stainless Steel Worktables

- Seamless 14-gauge Type 304 stainless steel work surface and support structure
- Mobile work tables are 34" tall with special posts and 4 poly casters (2 swivel/2 brake)

Part Number	Dimensions W x L x H
MWT305US	30" x 48" x 34" (76.2 x 121.9 x 76 cm)
MWT306US	30" x 60" x 34" (76.2 x 152.4 x 76 cm)
MWT307US	30" x 72" x 34" (76.2 x 182.9 x 76 cm)
MWT309US	30" x 96" x 34" (76.2 x 243.8 x 76 cm)

High Density Storage Systems - Floor Track

- High-Density qwikTRAK can increase the storage capacity of a given space by 50%
- Floor tracks compensate for rough or choppy floors and provide a smooth, level surface to guide the mobile units in a straight line
- Mobile units roll easily along the track, even when moving heavy loads
- All units can hold up to 2,000 lbs per unit

Part Number (Chrome)	Part Number (Microban)	Description	Depth x Overall Length
QTC3M18	QTK3M18	3 Mobile Carts, 4 Tier	18” x 135” (45.7cm x 343cm)
QTC3M24	QTK3M24	3 Mobile Carts, 4 Tier	24” x 165” (61cm x 419.1cm)
QTC5M18	QTK5M18	5 Mobile Carts, 4 Tier	18” x 177” (45.7cm x 450cm)
QTC5M24	QTK5M24	5 Mobile Carts, 4 Tier	24” x 219” (61cm x 556.3cm)

High Density Storage Systems - Top Track

- Top-Track can increase the storage capacity of a given area by 30%-40%
- The overhead track system guides the mobile units and opens an access aisle between any two units, whenever it is needed
- This efficient utilization of space addresses the storage needs of new or growing operations

Part Number (Chrome)	Part Number (Microban)	Description	Depth x Overall Length
TTC3M18	TTK3M18	3 Mobile Carts, 4 Tier	18” x 134” (45.7cm x 340.4cm)
TTC3M24	TTK3M24	3 Mobile Carts, 4 Tier	24” x 164” (61cm x 416.6cm)
TTC5M18	TTK5M18	5 Mobile Carts, 4 Tier	18” x 176” (45.7cm x 447cm)
TTC5M24	TTK5M24	5 Mobile Carts, 4 Tier	24” x 218” (61cm x 553.7cm)

Contact us for configurations other than that seen here

Leveling Glide, Fixed Height

HD-4824-FE HD-4824-FP	48” W x 24” D x 37” H (121.9cm x 61cm x 94cm)
HD-6024-FE HD-6024-FP	60” W x 24” D x 37” H (152.4cm x 61cm x 94cm)
HD-7224-FE HD-7224-FP	72” W x 24” D x 37” H (182.9cm x 61cm x 94cm)
HD-8424-FE HD-8424-FP	84” W x 24” D x 37” H (213.4cm x 61cm x 94cm)
HD-9624-FE HD-9624-FP	96” W x 24” D x 37” H (243.8cm x 61cm x 94cm)
HD-4830-FE HD-4830-FP	48” W x 30” D x 37” H (121.9cm x 76.2cm x 94cm)
HD-6030-FE HD-6030-FP	60” W x 30” D x 37” H (152.4cm x 76.2cm x 94cm)
HD-7230-FE HD-7230-FP	72” W x 30” D x 37” H (182.9cm x 76.2cm x 94cm)
HD-8430-FE HD-8430-FP	84” W x 30” D x 37” H (213.4cm x 76.2cm x 94cm)
HD-9630-FE HD-9630-FP	96” W x 30” D x 37” H (243.8cm x 76.2cm x 94cm)
HD-4836-FE HD-4836-FP	48” W x 36” D x 37” H (121.9cm x 91.4cm x 94cm)
HD-6036-FE HD-6036-FP	60” W x 36” D x 37” H (152.4cm x 91.4cm x 94cm)
HD-7236-FE HD-7236-FP	72” W x 36” D x 37” H (182.9cm x 91.4cm x 94cm)
HD-8436-FE HD-8436-FP	84” W x 36” D x 37” H (213.4cm x 91.4cm x 94cm)
HD-9636-FE HD-9636-FP	96” W x 36” D x 37” H (243.8cm x 91.4cm x 94cm)

Casters, Fixed Height

HD-4824-CFE HD-4824-CFP	48” W x 24” D x 37” H (121.9cm x 61cm x 94cm)
HD-6024-CFE HD-6024-CFP	60” W x 24” D x 37” H (152.4cm x 61cm x 94cm)
HD-7224-CFE HD-7224-CFP	72” W x 24” D x 37” H (182.9cm x 61cm x 94cm)
HD-8424-CFE HD-8424-CFP	84” W x 24” D x 37” H (213.4cm x 61cm x 94cm)
HD-9624-CFE HD-9624-CFP	96” W x 24” D x 37” H (243.8cm x 61cm x 94cm)
HD-4830-CFE HD-4830-CFP	48” W x 30” D x 37” H (121.9cm x 76.2cm x 94cm)
HD-6030-CFE HD-6030-CFP	60” W x 30” D x 37” H (152.4cm x 76.2cm x 94cm)
HD-7230-CFE HD-7230-CFP	72” W x 30” D x 37” H (182.9cm x 76.2cm x 94cm)
HD-8430-CFE HD-8430-CFP	84” W x 30” D x 37” H (213.4cm x 76.2cm x 94cm)
HD-9630-CFE HD-9630-CFP	96” W x 30” D x 37” H (243.8cm x 76.2cm x 94cm)
HD-4836-CFE HD-4836-CFP	48” W x 36” D x 37” H (121.9cm x 91.4cm x 94cm)
HD-6036-CFE HD-6036-CFP	60” W x 36” D x 37” H (152.4cm x 91.4cm x 94cm)
HD-7236-CFE HD-7236-CFP	72” W x 36” D x 37” H (182.9cm x 91.4cm x 94cm)
HD-8436-CFE HD-8436-CFP	84” W x 36” D x 37” H (213.4cm x 91.4cm x 94cm)
HD-9636-CFE HD-9636-CFP	96” W x 36” D x 37” H (243.8cm x 91.4cm x 94cm)

Heavy Duty Casters, Fixed Height

HD-4824-HCFE HD-4824-HCFP	48” W x 24” D x 37” H (121.9cm x 61cm x 94cm)
HD-6024-HCFE HD-6024-HCFP	60” W x 24” D x 37” H (152.4cm x 61cm x 94cm)
HD-7224-HCFE HD-7224-HCFP	72” W x 24” D x 37” H (182.9cm x 61cm x 94cm)
HD-8424-HCFE HD-8424-HCFP	84” W x 24” D x 37” H (213.4cm x 61cm x 94cm)
HD-9624-HCFE HD-9624-HCFP	96” W x 24” D x 37” H (243.8cm x 61cm x 94cm)
HD-4830-HCFE HD-4830-HCFP	48” W x 30” D x 37” H (121.9cm x 76.2cm x 94cm)
HD-6030-HCFE HD-6030-HCFP	60” W x 30” D x 37” H (152.4cm x 76.2cm x 94cm)
HD-7230-HCFE HD-7230-HCFP	72” W x 30” D x 37” H (182.9cm x 76.2cm x 94cm)
HD-8430-HCFE HD-8430-HCFP	84” W x 30” D x 37” H (213.4cm x 76.2cm x 94cm)
HD-9630-HCFE HD-9630-HCFP	96” W x 30” D x 37” H (243.8cm x 76.2cm x 94cm)
HD-4836-HCFE HD-4836-HCFP	48” W x 36” D x 37” H (121.9cm x 91.4cm x 94cm)
HD-6036-HCFE HD-6036-HCFP	60” W x 36” D x 37” H (152.4cm x 91.4cm x 94cm)
HD-7236-HCFE HD-7236-HCFP	72” W x 36” D x 37” H (182.9cm x 91.4cm x 94cm)
HD-8436-HCFE HD-8436-HCFP	84” W x 36” D x 37” H (213.4cm x 91.4cm x 94cm)
HD-9636-HCFE HD-9636-HCFP	96” W x 36” D x 37” H (243.8cm x 91.4cm x 94cm)

Leveling Glide

- 1/2” glide with a 1/2” stem thread
- All tables with leveling glides are rated for 2000 lbs.

Work Surface Key

Work Surface is 1” Thick

Epoxy Work Surface
Phenolic Work Surface

Caster

- Locking swiveling casters
- Tables with casters are rated for 960 lbs.

Leveling Glide, Adjustable Height

HD-4824-AE HD-4824-AP	48" W x 24" D x 30"-37" H (121.9cm x 61cm x 76.2-94cm)
HD-6024-AE HD-6024-AP	60" W x 24" D x 30"-37" H (152.4cm x 61cm x 76.2-94cm)
HD-7224-AE HD-7224-AP	72" W x 24" D x 30"-37" H (182.9cm x 61cm x 76.2-94cm)
HD-8424-AE HD-8424-AP	84" W x 24" D x 30"-37" H (213.4cm x 61cm x 76.2-94cm)
HD-9624-AE HD-9624-AP	96" W x 24" D x 30"-37" H (243.8cm x 61cm x 76.2-94cm)
HD-4830-AE HD-4830-AP	48" W x 30" D x 30"-37" H (121.9cm x 76.2cm x 76.2-94cm)
HD-6030-AE HD-6030-AP	60" W x 30" D x 30"-37" H (152.4cm x 76.2cm x 76.2-94cm)
HD-7230-AE HD-7230-AP	72" W x 30" D x 30"-37" H (182.9cm x 76.2cm x 76.2-94cm)
HD-8430-AE HD-8430-AP	84" W x 30" D x 30"-37" H (213.4cm x 76.2cm x 76.2-94cm)
HD-9630-AE HD-9630-AP	96" W x 30" D x 30"-37" H (243.8cm x 76.2cm x 76.2-94cm)
HD-4836-AE HD-4836-AP	48" W x 36" D x 30"-37" H (121.9cm x 91.4cm x 76.2-94cm)
HD-6036-AE HD-6036-AP	60" W x 36" D x 30"-37" H (152.4cm x 91.4cm x 76.2-94cm)
HD-7236-AE HD-7236-AP	72" W x 36" D x 30"-37" H (182.9cm x 91.4cm x 76.2-94cm)
HD-8436-AE HD-8436-AP	84" W x 36" D x 30"-37" H (213.4cm x 91.4cm x 76.2-94cm)
HD-9636-AE HD-9636-AP	96" W x 36" D x 30"-37" H (243.8cm x 91.4cm x 76.2-94cm)

Casters, Adjustable Height

HD-4824-CAE HD-4824-CAP	48" W x 24" D x 30"-37" H (121.9cm x 61cm x 76.2-94cm)
HD-6024-CAE HD-6024-CAP	60" W x 24" D x 30"-37" H (152.4cm x 61cm x 76.2-94cm)
HD-7224-CAE HD-7224-CAP	72" W x 24" D x 30"-37" H (182.9cm x 61cm x 76.2-94cm)
HD-8424-CAE HD-8424-CAP	84" W x 24" D x 30"-37" H (213.4cm x 61cm x 76.2-94cm)
HD-9624-CAE HD-9624-CAP	96" W x 24" D x 30"-37" H (243.8cm x 61cm x 76.2-94cm)
HD-4830-CAE HD-4830-CAP	48" W x 30" D x 30"-37" H (121.9cm x 76.2cm x 76.2-94cm)
HD-6030-CAE HD-6030-CAP	60" W x 30" D x 30"-37" H (152.4cm x 76.2cm x 76.2-94cm)
HD-7230-CAE HD-7230-CAP	72" W x 30" D x 30"-37" H (182.9cm x 76.2cm x 76.2-94cm)
HD-8430-CAE HD-8430-CAP	84" W x 30" D x 30"-37" H (213.4cm x 76.2cm x 76.2-94cm)
HD-9630-CAE HD-9630-CAP	96" W x 30" D x 30"-37" H (243.8cm x 76.2cm x 76.2-94cm)
HD-4836-CAE HD-4836-CAP	48" W x 36" D x 30"-37" H (121.9cm x 91.4cm x 76.2-94cm)
HD-6036-CAE HD-6036-CAP	60" W x 36" D x 30"-37" H (152.4cm x 91.4cm x 76.2-94cm)
HD-7236-CAE HD-7236-CAP	72" W x 36" D x 30"-37" H (182.9cm x 91.4cm x 76.2-94cm)
HD-8436-CAE HD-8436-CAP	84" W x 36" D x 30"-37" H (213.4cm x 91.4cm x 76.2-94cm)
HD-9636-CAE HD-9636-CAP	96" W x 36" D x 30"-37" H (243.8cm x 91.4cm x 76.2-94cm)

Heavy Duty Casters, Adjustable Height

HD-4824-HCAE HD-4824-HCAP	48" W x 24" D x 30"-37" H (121.9cm x 61cm x 76.2-94cm)
HD-6024-HCAE HD-6024-HCAP	60" W x 24" D x 30"-37" H (152.4cm x 61cm x 76.2-94cm)
HD-7224-HCAE HD-7224-HCAP	72" W x 24" D x 30"-37" H (182.9cm x 61cm x 76.2-94cm)
HD-8424-HCAE HD-8424-HCAP	84" W x 24" D x 30"-37" H (213.4cm x 61cm x 76.2-94cm)
HD-9624-HCAE HD-9624-HCAP	96" W x 24" D x 30"-37" H (243.8cm x 61cm x 76.2-94cm)
HD-4830-HCAE HD-4830-HCAP	48" W x 30" D x 30"-37" H (121.9cm x 76.2cm x 76.2-94cm)
HD-6030-HCAE HD-6030-HCAP	60" W x 30" D x 30"-37" H (152.4cm x 76.2cm x 76.2-94cm)
HD-7230-HCAE HD-7230-HCAP	72" W x 30" D x 30"-37" H (182.9cm x 76.2cm x 76.2-94cm)
HD-8430-HCAE HD-8430-HCAP	84" W x 30" D x 30"-37" H (213.4cm x 76.2cm x 76.2-94cm)
HD-9630-HCAE HD-9630-HCAP	96" W x 30" D x 30"-37" H (243.8cm x 76.2cm x 76.2-94cm)
HD-4836-HCAE HD-4836-HCAP	48" W x 36" D x 30"-37" H (121.9cm x 91.4cm x 76.2-94cm)
HD-6036-HCAE HD-6036-HCAP	60" W x 36" D x 30"-37" H (152.4cm x 91.4cm x 76.2-94cm)
HD-7236-HCAE HD-7236-HCAP	72" W x 36" D x 30"-37" H (182.9cm x 91.4cm x 76.2-94cm)
HD-8436-HCAE HD-8436-HCAP	84" W x 36" D x 30"-37" H (213.4cm x 91.4cm x 76.2-94cm)
HD-9636-HCAE HD-9636-HCAP	96" W x 36" D x 30"-37" H (243.8cm x 91.4cm x 76.2-94cm)

Heavy Duty Casters

- Extra heavy duty locking, swiveling casters
- Rated for 2000 lbs.
- Leveling foot pad provides vibration isolation

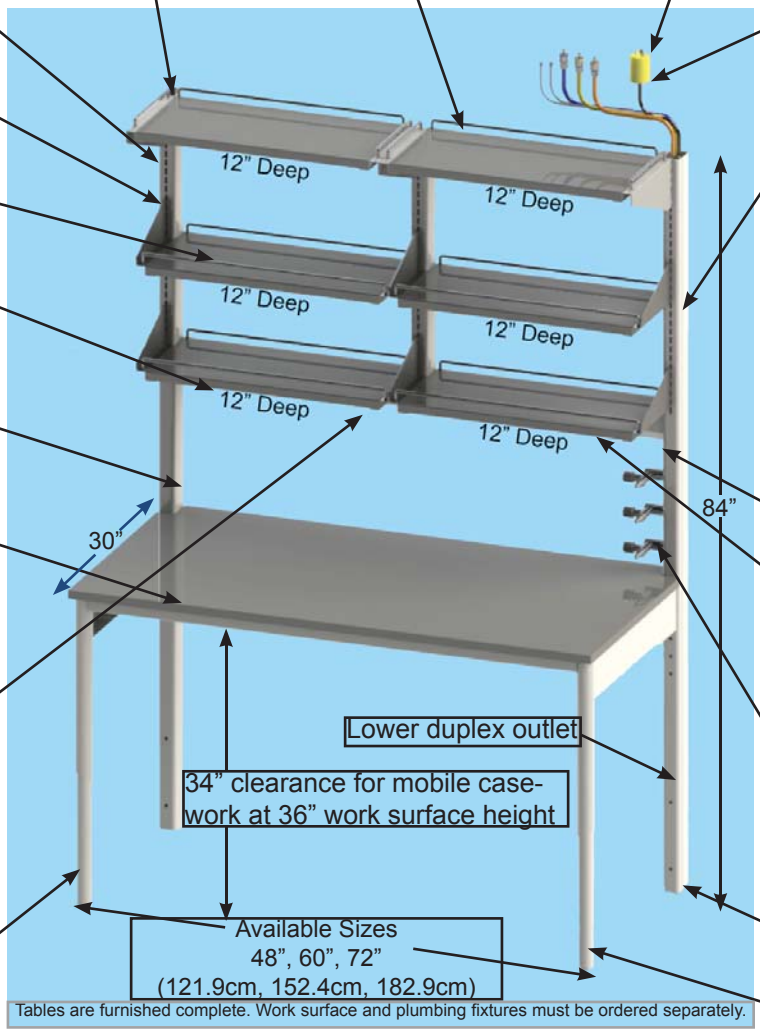
Work Surface Key

Work Surface is 1" Thick

Epoxy Work Surface
Phenolic Work Surface

Adjustable Height - Mechanical

- Bolt and snap pin system
- Snap pin is a 3/8" T6 bolt
- Adjustable in 1" increments



Envision Workstation Standard Features:

- UL 962 listed
- Available sizes: 48” (121.9 cm), 60” (152.4 cm), 72” (182.9 cm)
- Designed for back to back use for optimal lab layout flexibility
- Heavy duty powder coated steel construction
- Painted steel color is Pearl White
- Adjustable Height work surface frame: 30” - 36” (76.2 cm - 91.4 cm)
- Three tiers of 12” (30.5 cm) deep adjustable black phenolic resin shelving with rear retaining rods
- Table fully pre wired with GFCI protected power, data and LED lights
- The workstation is pre wired with one power circuit
- Plumbing & electrical services can be run to either side of workstation
- Each post is punched & capped to accept three plumbing services
- Built-in LED task light(s) with anti-glare shield
- Provided with 2 individual CAT6B data lines and 2 RJ45 ports
- All service connections are designed to reach 48” above workstation

Envision Workstation Optional Features:

- Choice of black epoxy or phenolic resin work surfaces
- Complete plumbing assemblies with quick-connect fittings
- Mobile cabinets
- Overhead service panels with quick-connect fittings

INSTOCK® Quick Delivery Program

Envision Workstations

Tables are furnished complete with shelving and electrical fixtures. Work surface and plumbing fixtures must be ordered separately.

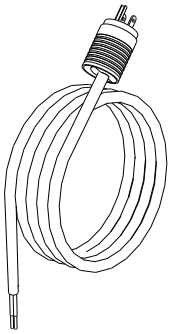
Envision Workstations

ENO-3048	48” W (121.9 cm)
ENO-3060	60” W (152.4 cm)
ENO-3072	72” W (182.9 cm)

Work Surfaces for Envision Workstations

1” Thick Black Epoxy	1” Thick Black Phenolic	
EWS-48	PWS-48	48” W (121.9 cm)
EWS-60	PWS-60	60” W (152.4 cm)
EWS-72	PWS-72	72” W (182.9 cm)

Standard Features



Each table is provided with one electrical cord to carry power from the overhead service panel to the top of the frame. Each cord has one 125 volt, 20 amp circuit and includes a twist lock NEMA L5-20P plug

Each table provided with 2 each RJ45 CAT6B data ports and separate service lines

48” tables are provided with one light fixture. 60” and 72” tables are provided with two light fixtures. All lights are prewired and include a switch. Each bulb includes 24 LEDs that generate 340 lumens.

Mobile Cabinets

- Heavy duty painted steel construction
- Cabinets are 22” deep and 27 13/16” tall (with casters) with a finished back
- Mobile cabinets include locking swivel casters
- Provided without locks
- Anti-tip design
- Work surface sold separately

JTP1018-18P	18” W (45.7 cm)
JTP1018-24P	24” W (61 cm)

- Heavy duty painted steel construction
- Cabinets are 22” deep and 27 13/16” tall (with casters) with a finished back
- Mobile cabinets include locking swivel casters
- Provided without locks
- Anti-tip design
- Work surface sold separately

JTP1021-18P	18” W (45.7 cm)
JTP1021-24P	24” W (61 cm)

Mobile Cabinet Work Surface

- 3/4" thick black phenolic resin with 1" overhang on the front and 1/2" overhang at the rear and sides
- Grip notch under front edge of work surface to help maneuver cabinet

	For use with
MWS-18	18” W (45.7 cm) cabinet
MWS-24	24” W (61 cm) cabinet

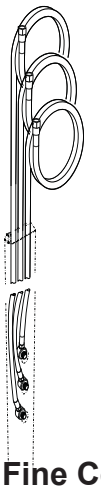
INSTOCK WaterSaver plumbing assemblies for the Envision table system are furnished complete and include all of the components shown on this page. Assemblies include a fine control needle valve service turret with shank, a service hose as well as a male quick disconnect fitting. These complete assemblies are designed specifically for use in the laboratory environment. All quick connects have 316 stainless steel internal components. Keyed quick connects will only couple with components of the same key with are identified by a color code. Assemblies consist of 2 major components and are shipped loose to be installed at the job site.

Complete Plumbing Assemblies

Includes male quick connect, system hose and service turret. Female panel mount fixture must be ordered separately.

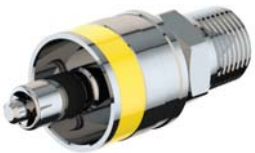
Service	Color	Left Side Assemblies	Right Side Assemblies
Helium	Black	EISV-H-L	EISV-H-R
Air	Orange	EISV-A-L	EISV-A-R
Vacuum	Yellow	EISV-V-L	EISV-V-R
Gas	Blue with stainless steel hose	EISV-G-L	EISV-G-R
Special Gas	White	EISV-SG-L	EISV-SG-R
Argon	Purple	EISV-AR-L	EISV-AR-R
Nitrogen	Brown	EISV-N-L	EISV-N-R

System Service Hoses



These hoses carry services from the overhead service panel,through the upright of the table and to the shank of the fixture. They consist of either a color coded reinforced PVC or a braided stainless steel, 3/8” hose. Stainless steel is used for gas service. They include two male 3/8” IPS outlet nipples and adapters to attached to the male quick disconnect as well as the shank of the service valve. Each hose extends 48” above the table frame.

Male Quick-Connect 3/8” Fitting/Plug



Double end shut off plugs have an internal valve the shuts off flow when un-coupled and are included with gas service assemblies. Single end shut off plugs do not have an internal valve and are included for all other services.

Fine Control Needle Valve Service Turret

Each unit consists of a 135 degree turret with one polished chrome valve with a brass floating cone and integral brass seat. They provide metering control of laboratory gases at pressures up to 60 PSI. The shank is bored for the connection of the service hose.

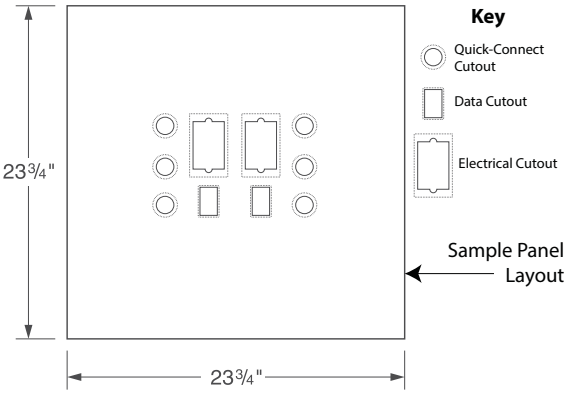
Female Quick-Connect Fittings

These female quick disconnect fittings mount within the overhead service panel and connect the quick disconnect fittings from the table system to the building services. All fittings include 3/8” stems and hardware to attach to the overhead service panel. All fitting types are “keyed” to ensure that they couple only with one of the same service.

Service	Color	Part Number
Helium	Black	QCFL-B-3M-K1
Air	Orange	QCFL-B-3M-K2
Vacuum	Yellow	QCFL-B-3M-K4
Gas	Blue	QCFL-B-3M-K5
Special Gas	White	QCFL-B-3M-K6
Argon	Purple	QCFL-B-3M-K7
Nitrogen	Brown	QCFL-B-3M-K8

Overhead Service Panels - Made to Order

These panels are designed to fit into a 24” x 24” ceiling grid. They are made to order based upon services required. See example below. Made to order panels can be shipped in 10 days.



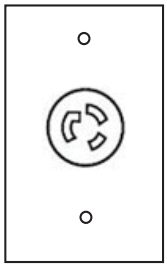
Number of Service Cutouts	Part Number
1-10	ENOSP-10
11-20	ENOSP-20
21+	ENOSP-30

Quick Connect
- Cutout: 1 1/4” Diameter
- Escutcheon: 1 3/4” Diameter

Data
- Cutout: 1 1/4” x 2”
- Escutcheon: 1 1/2” x 2 1/4”

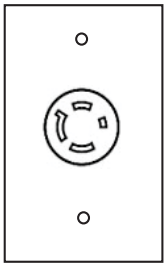
Electrical
- Cutout: 2 1/4” x 3 3/8”
- Faceplate: 2 3/4” x 4 1/2”

Each part number includes an electrical box, the receptacle and a stainless steel cover plate.



120 V 20 AMP
One circuit
NEMA Configuration:
L5-20R

EN-LEV5-20R



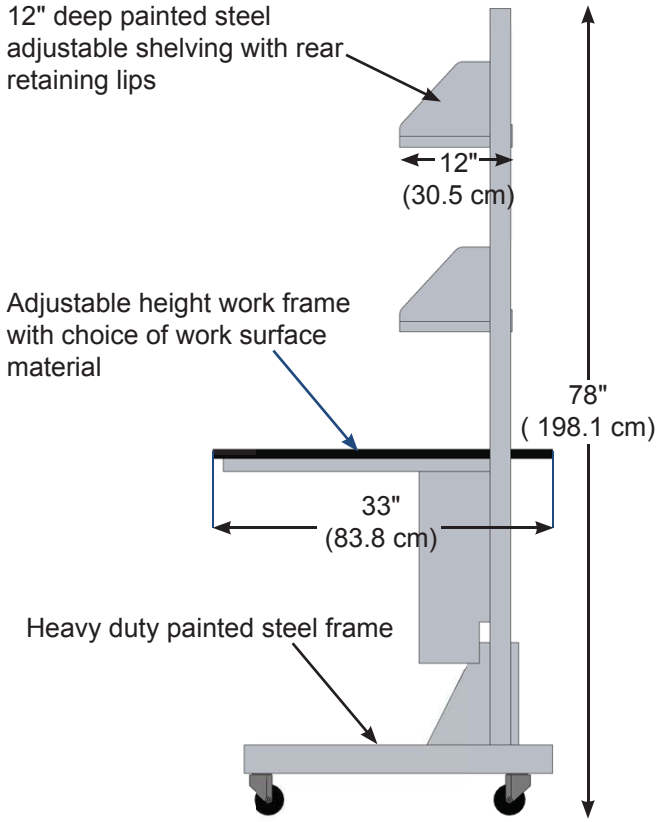
120 V 20 AMP
Two circuit
NEMA Configuration:
L14-20R

EN-LEV14-20R

These Flex Lab workstations/instrument carts make an excellent choice for labs needing flexible & versatile lab work space. They can be positioned along the perimeter of a lab or be placed back-to-back in an island configuration. They are furnished as complete assemblies that include work surfaces & shelving as shown. The steel shelving includes book end style brackets and a rear retaining lip. The units can be ordered with either a black epoxy resin or black phenolic work surface. The shelves and work frames are adjustable on 1" increments. The workstations are furnished with 3" casters. Two are locking/swivel and two are swivel. The total weight capacity, uniformly distributed load, of these Flex Lab workstations is 900 lbs.

The default color for the workstations is Pearl White.

We have a wide range of standard & custom laboratory workstations. If you don't see what you need here, please contact your Furniture Specialist for assistance.



Section View of Flex Lab Workstation

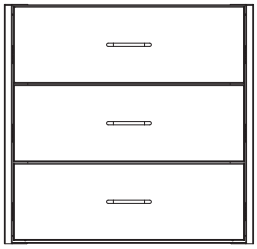
Single Bay Workstation

Width	Epoxy Work Surface	Phenolic Work Surface
36" (91.4 cm)	FC-36E	FC-36P
48" (121.9 cm)	FC-48E	FC-48P

Double Bay Workstation

Width	Epoxy Work Surface	Phenolic Work Surface
60" (152.4 cm)	FC-60E	FC-60P
72" (182.9 cm)	FC-72E	FC-72P

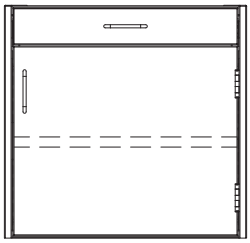
Suspended Drawer Cabinet



- 24.5" Tall
- Pearl white color
- Includes attachment hardware

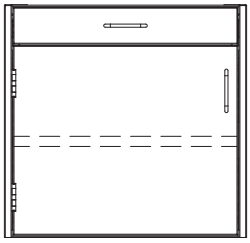
Part Number	Width
JTP818-18P	18" W (45.7 cm)
JTP818-24P	24" W (61 cm)

Suspended One Door, One Drawer Cabinets



- 24.5" Tall
- Pearl white color
- Includes attachment hardware

Part Number	Width
JTP805-18P	18" W (45.7 cm)
JTP805-24P	24" W (61 cm)



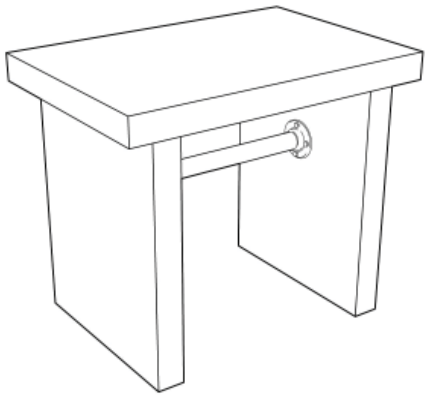
- 24.5" Tall
- Pearl white color
- Includes attachment hardware

Part Number	Width
JTP806-18P	18" W (45.7 cm)
JTP806-24P	24" W (61 cm)

Other Accessories include:

- Wire raceways can be found on page 111
- Task lighting can be found on page 111

Balance Table



- Balance tables provide a stable and vibration resistant workspace for sensitive procedures
- Work top is 2” thick
- Top, sides and middle supports are all constructed from epoxy black resin material

	Dimensions
BT3624	36” W x 24” D x 30” T (91.4cm x 61cm x 76.2cm)
BT4824	48” W x 24” D x 30” T (121.9cm x 61cm x 76.2cm)

Available in a wide variety of bench styles

- Choose from 3 adjustable height frame styles: 4-leg, light duty motor driven table, or heavy duty C-Frame
- All frames furnished in a light grey powder-coated ESD paint finish
- Large Selection of accessories available
  - Casters, shelves, lighting, power bars, suspended drawer, cabinets and more!
- Ready to ship in just 5 days

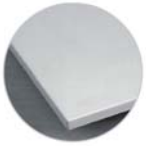
INSTOCK Quick Delivery Program

Many other bench styles and work surface types are available. Contact your Furniture Specialist for further details.

Shown here: Light duty motor driven table with single bay uprights, power bar, bin rail and monitor holder.

Standard 4-leg table - Mechanically Adjustable Height

Height Range:
25.6" - 35.4"
(65 - 90 cm)



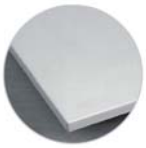
- 1” low pressure laminate
- Light grey
- Plastic edging

- Light grey, ESD laminate surface
- 180° rolled front edge
- 1 3/16” thick

Part Number	Dimensions W x D x H	Work Surface	Max. Load (U.D.L.)
US-TP3048TPK	48” x 30” x 25.6”-35.4” (121.9 x 76.2 x 65-90cm)	Laminate	660 lbs
US-TP3060TPK	60” x 30” x 25.6”-35.4” (150 x 76.2 x 65-90 cm)	Laminate	660 lbs
US-TP3072TPK	72” x 30” x 25.6”-35.4” (182.9 x 76.2 x 65-90 cm)	Laminate	660 lbs
US-TP3048TPKESD	48” x 30” x 25.6”-35.4” (121.9 x 76.2 x 65-90cm)	ESD Laminate	660 lbs
US-TP3060TPKESD	60” x 30” x 25.6”-35.4” (150 x 76.2 x 65-90 cm)	ESD Laminate	660 lbs
US-TP3072TPKESD	72” x 30” x 25.6”-35.4” (182.9 x 76.2 x 65-90 cm)	ESD Laminate	660 lbs

Light Duty Table - Motor Driven Height Adjustable

Height Range:
25.4" - 45.1"
(64.5 - 114.5 cm)



- 1” low pressure laminate
- Light grey
- Plastic edging
- Light grey, ESD laminate surface
- 180° rolled front edge
- 1 3/16” thick

Part Number	Dimensions W x D x H	Work Surface	Max. Load (U.D.L.)
854667-41	48” x 30” x 25.4”-45.1” (121.9 x 76.2 x 64.5-114.5 cm)	Laminate	330 lbs
854668-41	60” x 30” x 25.4”-45.1” (150 x 76.2 x 64.5-114.5 cm)	Laminate	330 lbs
854669-41	72” x 30” x 25.4”-45.1” (182.9 x 76.2 x 64.5-114.5 cm)	Laminate	330 lbs
854667-49	48” x 30” x 25.4”-45.1” (121.9 x 76.2 x 64.5-114.5 cm)	ESD Laminate	330 lbs
854668-49	60” x 30” x 25.4”-45.1” (150 x 76.2 x 64.5-114.5 cm)	ESD Laminate	330 lbs
854669-49	72” x 30” x 25.4”-45.1” (182.9 x 76.2 x 64.5-114.5 cm)	ESD Laminate	330 lbs

Heavy Duty C-Frame Table - Mechanically Adjustable Height

Height Range:
26.6" - 44.3"
(67.5 - 112.5 cm)

- Grey laminate surface
- Black molded “waterfall” edges
- 1 3/16” thick
- Light grey, ESD laminate surface
- 180° rolled front edge
- 1 3/16” thick

Part Number	Dimensions W x D x H	Work Surface	Max. Load (U.D.L.)
US-10049560P	48” x 30” x 26.6”-44.3” (121.9 x 76.2 x 67.5-112.5 cm)	Laminate	1100 lbs.
US-10049562P	60” x 30” x 26.6”-44.3” (150 x 76.2 x 67.5-112.5 cm)	Laminate	1100 lbs.
US-10049564P	72” x 30” x 26.6”-44.3” (182.9 x 76.2 x 67.5-112.5 cm)	Laminate	1100 lbs.
US-10049561P	48” x 30” x 26.6”-44.3” (121.9 x 76.2 x 67.5-112.5 cm)	ESD Laminate	1100 lbs.
US-10049563P	60” x 30” x 26.6”-44.3” (150 x 76.2 x 67.5-112.5 cm)	ESD Laminate	1100 lbs.
US-10049565P	72” x 30” x 26.6”-44.3” (182.9 x 76.2 x 67.5-112.5 cm)	ESD Laminate	1100 lbs.

Preconfigured Workstations with Uprights - Single Bay

Height Range:
4-Leg
25.6" - 35.4"
(65 - 90 cm)

- Shelves and other accessories must be ordered separately

Part Number	Dimensions W x D x Work Surface Height	Work Surface
Standard 4-leg Table		
14-CTP910-41	48” x 30” x 25.6”-35.4” (121.9 x 76.2 x 65-90 cm)	Laminate
14-CTP911-41	60” x 30” x 25.6”-35.4” (152.4 x 76.2 x 65-90 cm)	Laminate
14-CTP912-41	72” x 30” x 25.6”-35.4” (182.9 x 76.2 x 65-90 cm)	Laminate
14-CTP910-49	48” x 30” x 25.6”-35.4” (121.9 x 76.2 x 65-90 cm)	ESD Laminate
14CTP911-49	60” x 30” x 25.6”-35.4” (152.4 x 76.2 x 65-90 cm)	ESD Laminate
14CTP912-49	72” x 30” x 25.6”-35.4” (182.9 x 76.2 x 65-90 cm)	ESD Laminate
Light Duty Table		
14-C85441316	48” x 30” x 25.4"-45.1" (121.9 x 76.2 x 64.5-114.5 cm)	Laminate
14-C85441317	60” x 30” x 25.4"-45.1" (152.4 x 76.2 x 64.5-114.5 cm)	Laminate
14-C85441318	72” x 30” x 25.4"-45.1" (182.9 x 76.2 x 64.5-114.5 cm)	Laminate
14-C85449316	48” x 30” x 25.4"-45.1" (121.9 x 76.2 x 64.5-114.5 cm)	ESD Laminate
14-C85449317	60” x 30” x 25.4"-45.1" (152.4 x 76.2 x 64.5-114.5 cm)	ESD Laminate
14-C85449318	72” x 30” x 25.4"-45.1" (182.9 x 76.2 x 64.5-114.5 cm)	ESD Laminate
Heavy Duty C-Frame Table		
14-C10041396	48” x 30” x 26.6"-44.3" (121.9 x 76.2 x 67.5-112.5 cm)	Laminate
14-C10041397	60” x 30” x 26.6"-44.3" (152.4 x 76.2 x 67.5-112.5 cm)	Laminate
14-C10041398	72” x 30” x 26.6"-44.3" (182.9 x 76.2 x 67.5-112.5 cm)	Laminate
14-C10049396	48” x 30” x 26.6"-44.3" (121.9 x 76.2 x 67.5-112.5 cm)	ESD Laminate
14-C10049397	60” x 30” x 26.6"-44.3" (152.4 x 76.2 x 67.5-112.5 cm)	ESD Laminate
14-C10049398	72” x 30” x 26.6"-44.3" (182.9 x 76.2 x 67.5-112.5 cm)	ESD Laminate

Preconfigured Workstations with Uprights - Double Bay

Height Range:
C-Frame:
26.6" - 44.3"
(67.5 - 112.5 cm)

- Shelves and other accessories must be ordered separately

Part Number	Dimensions W x D x Work Surface Height	Work Surface
Standard 4-leg Table		
14-CTP915-41	60” x 30” x 25.6”-35.4” (152.4 x 76.2 x 65-90 cm)	Laminate
14-CTP916-41	72” x 30” x 25.6”-35.4” (182.9 x 76.2 x 65-90 cm)	Laminate
14-CTP915-49	60” x 30” x 25.6”-35.4” (152.4 x 76.2 x 65-90 cm)	ESD Laminate
14-CTP916-49	72” x 30” x 25.6”-35.4” (182.9 x 76.2 x 65-90 cm)	ESD Laminate
Heavy Duty C-Frame Table		
14-C10041434	60” x 30” x 26.6"-44.3" (152.4 x 76.2 x 67.5-112.5 cm)	Laminate
14-C10041435	72” x 30” x 26.6"-44.3" (182.9 x 76.2 x 67.5-112.5 cm)	Laminate
14-C10049434	60” x 30” x 26.6"-44.3" (152.4 x 76.2 x 67.5-112.5 cm)	ESD Laminate
14-C10049435	72” x 30” x 26.6"-44.3" (182.9 x 76.2 x 67.5-112.5 cm)	ESD Laminate

LED Lighting

- Power cord is 10 ft long
- Dual intensity LED

Part Number	Type
14-95035151	24” Balancer Rail
14-95035152	36” Balancer Rail
14-95035153	48” Balancer Rail
14-95035154	24” Magnetic
14-95035155	36” Magnetic
14-95035156	48”Magnetic

Steel Equipment Shelf

- Max load: 176 lbs per shelf

Part Number	W x D
US-854480-49	45.9” x 11.8” (116.5 x 30 cm)
US-854481-49	57.8” x 11.8” (146.8 x 30 cm)
US-854482-49	69.8” x 11.8” (177.3 x 30 cm)

Steel Shelf with Rear Lip

- 0° or 20° angle
- Max load: 110 lbs.

Part Number	W x D
US-836028-48	28.3” x 11.8” (71.9 x 30 cm)
US-852283-49	34.3” x 11.8” (87.1 x 30 cm)

Bin Rails

- Bins Sold Separately

Part Number	W x H
US-859151-49	29.2” x 3.5” (74.2 x 8.9 cm)
US-859152-49	35.2” x 3.5” (89.4 x 8.9 cm)
US-859157-49	47” x 3.5” (119.4 x 8.9 cm)
US-859154-49	58.9” x 3.5” (149.6 x 8.9 cm)
US-859155-49	70.7” x 3.5” (179.6 x 8.9cm)

Horizontal Power Bin/Rail

- 6 outlet power

Part Number	Length
14-9114905	30”
14-9114910	36”
14-9114915	48”
14-9114919	60”
14-9114923	72”

Vertical Power Rail

- 6 outlet power with clamp

Part Number
14-9114928

Monitor Arm

- Max Load: 33 lbs.

Part Number
US-93049002P

Footrests

Part Number	Type
JT2	Footrest with massage roller
JT2ESD	ESD Footrest with massage roller

Casters

- Set of 4 casters

Part Number	Dimensions
860429-00	Ø 3.93” non ESD (2 - locking, 2 - non-locking)
834734-00	Ø 3.93” ESD (2 - locking, 2 - non-locking)

One Drawer Hanging Unit

Part Number	Dimensions
859330-49	11.8" W x 17.9" D x 5.9" H (30 x 45.4 x 15 cm)

Two Drawer Hanging Unit

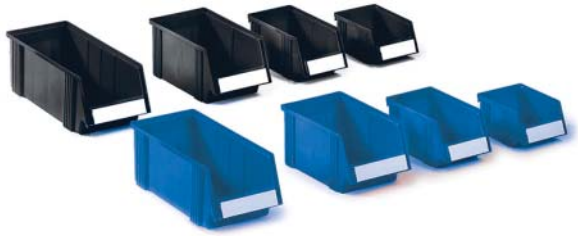
Part Number	Dimensions
859340-49	11.8" W x 17.9" D x 8.7" H (30 x 45.4 x 22 cm)

Drawer/Cupboard Hanging Unit

Part Number	Dimensions
860972-49	13.8" W x 18.5" D x 18.5" H (35 x 47 x 47 cm)

Stacking Bins

Our stacking bins have been designed for daily use in stores, production facilities and warehouses. These bins have been designed to fit all standard shelves, paternosters and industrial workstations. Bins of the same width stack securely, even if they are of different lengths. Straight sides ensure an efficient use of space.



Stacking Bins Sets

Part Number	Description	Dimensions
SBS4-1015-6	4 Stacking bins, blue	6.5” x 4.1” x 3” (16.5 x 10.4 x 7.6 cm)
SBS4-2	4 Stacking bins, blue	(2) 9.8” x 5.9” x 5.1” (24.9 x 15 x 13 cm) (2) 7.6” x 5.9” x 4.1” (19.3 x 15 x 10.4 cm)
SBS4-1015-4ESD	4 ESD Stacking bins, black	6.5” x 4.1” x 3” (16.5 x 10.4 x 7.6 cm)
SBS4-2ESD	4 ESD Stacking bins, black	(2) 9.8” x 5.9” x 5.1” (24.9 x 15 x 13 cm) (2) 7.6” x 5.9” x 4.1” (19.3 x 15 x 10.4 cm)

INSTOCK Safety cabinets keep your people and facility safe

Safety cabinets serve important functions:

- Keep dangerous liquids safely organized segregated
- Ensure safe evacuation time in the event of a fire
- Improve awareness - high-visibility cabinet color and prominent labeling identify potentially hazardous chemicals
- Provide compliance with federal OSHA regulations and the National Fire Protection Association
- Improve efficiency by locating materials near point-of-use
- Increase maximum allowable quantities of flammable and combustible liquids in control areas

Consider the following when selecting a safety cabinet:

- Federal, state and local compliance requirements
- Size and type of container being stored
- Capacity needed
- Type of chemical being stored
- Security and safety features such as lockable handles, self-latching systems, self closing doors with fusible links and warning labels

Look for cabinets that carry independent, third party certification from FM. This mark signifies the cabinet will perform as expected and support life safety measures and provide property loss prevention.

Compliance:

Each steel safety cabinet meets at least one or more of the following regulations:

- OSHA 1910.106
- NFPA Fire Code 1
- International Fire Code (IFC)
- UFC 79
- National Fire Code of Canada
- NFPA Hazardous materials Code 400

Most flammable cabinets are FM approved and all are backed by a one-year warranty.

Regulatory codes do not mandate the specific color for a safety cabinet. However, the industry has customarily observed certain colors for defined liquids:

Yellow for flammable liquids	Green for pesticides and insecticides
Red for paints, inks and other combustible liquids	Other colors for laboratory settings
Blue for corrosive liquids	White or gray for other uses such as hazardous waste

Regulations specify construction details and the type of floor style required.

Code	Flammable Safety Cabinet Door Styles
NFPA 30 and NFPA 1, 2012 ed	Permits either manual or self-close doors
IFC	Mandates use of self-close doors only
NFPA 400	Mandates use of self-close doors only
Contact your local jurisdiction for specific requirements.	

Chemical & Waste Assessment:
Know your chemicals. Know exactly what types of chemicals are in your facility and where they are being stored. Make sure all chemicals are in proper containers with proper labeling. Maintain corresponding Safety Data Sheet for every chemical in case of emergency.

Part 1 - Identification
Make a list of all chemicals used or stored in each area
Note any area that generates or accumulates waste materials
Note volume of each chemical or waste and type of container
Note the present method of storage (cabinet/counter/rack)
Note the state of the chemical or waste (liquid or solid)
Note any other pertinent information

Part II - Definition
Review MSDS, bill of lading, container label, hazardous I.D. label, numbered placard or other chemical reference material for each chemicals characteristics.
- Hazardous Characteristics
- Storage Requirements
- Compatibility Considerations
- Other Safety Concerns

All chemicals should be properly labeled and have secure lids, if not, contact an expert and dispose of properly.

Hazardous Characteristics of the Chemical:
Flammable or Combustible (flash point, boiling point)
Toxic
Corrosive
Light Sensitive
Oxidizer/Reducer
Poisonous/Pesticides
Require Special Handling

Storage Requirements or Parameters:
Temperature (Minimum/Maximum)
Ventilation of Vapors
Ignition Control
Segregation for Compatibility
Special Identification
Volume Limitation
Spill Containment

Compatibility Considerations - when incompatible materials come into contact, fire, explosion, violent reactions or toxic gases could result.
Do not store the following types of chemicals together:
Acids and Bases
Oxidizers and Organic Materials
Oxidizers and Reducing Agents
Other Incompatible Chemical Combinations

One Door Flammable Cabinets

Part Number	Capacity	Description	Dimensions W x D x H
BJ06	6 Gal.	Self-Closing	23" x 18" x 22" (58.4 x 45.7 x 55.9 cm)
BA06	6 Gal.	Manual Close	23" x 18" x 22" (58.4 x 45.7 x 55.9 cm)
BJ12	12 Gal.	Self-Closing, One Shelf	23" x 18" x 35" (58.4 x 45.7 x 88.9 cm)
BA12	12 Gal.	Manual Close, One Shelf	23" x 18" x 35" (58.4 x 45.7 x 88.9 cm)
BJ18	18 Gal.	Self Closing, Two Shelves	23" x 18" x 44" (58.4 x 45.7 x 111.8 cm)
BA18	18 Gal.	Manual Close, Two Shelves	23" x 18" x 44" (58.4 x 45.7 x 111.8 cm)
BJ24	24 Gal.	Self Closing, Three Shelves	23" x 18" x 65" (58.4 x 45.7 x 165.1 cm)
BA24	24 Gal.	Manual Close, Three Shelves	23" x 18" x 65" (58.4 x 45.7 x 165.1 cm)

Two Door Flammable Cabinets

Part Number	Capacity	Description	Dimensions W x D x H
BU15	15 Gal.	Self-Closing	43" x 18" x 22" (109.2 x 45.7 x 55.9 cm)
BY15	15 Gal.	Manual Close	43" x 18" x 22" (109.2 x 45.7 x 55.9 cm)
BK22	22 Gal.	Self-Closing, One Shelf	36" x 22" x 35" (91.4 x 55.9 x 88.9 cm)
BT22	22 Gal.	Manual Close, One Shelf	36" x 22" x 35" (91.4 x 55.9 x 88.9 cm)
BS30	30 Gal.	Self-Closing, One Shelf	43" x 18" x 44" (109.2 x 45.7 x 111.8 cm)
BM30	30 Gal.	Manual Close, One Shelf	43" x 18" x 44" (109.2 x 45.7 x 111.8 cm)
BS45	45 Gal.	Self-Closing, Two Shelves	43" x 18" x 65" (109.2 x 45.7 x 165.1cm)
BM45	45 Gal.	Manual Close, Two Shelves	43" x 18" x 65" (109.2 x 45.7 x 165.1cm)
BS60	60 Gal.	Self-Closing, Two Shelves	34" x 34" x 65" (86.4 x 86.4 x 165.1 cm)
BM60	60 Gal.	Manual Close, Two Shelves	34" x 34" x 65" (86.4 x 86.4 x 165.1 cm)
BS90	90 Gal.	Self-Closing, Two Shelves	43" x 34" x 65" (109.2 x 86.4 x 165.1 cm)
BM90	90 Gal.	Manual Close, Two Shelves	43" x 34" x 65" (109.2 x 86.4 x 165.1 cm)

Steel Safety Cabinet features include:

- All welded double wall 18 gauge construction with 1 1/2" insulating air space
- 2" leak proof sump to contain leaks
- Lockable flush mounted handle with 2 keys
- Doors have 3 point locking system and radius edges
- Doors are double walled, 14 gauge outside and 18 gauge inside
- 4" heavy duty weld hinges with 3/8" brass pins
- Twin 2" flame arrester vents
- Adjustable leveling feet and grounding connector
- Powder coated yellow finish
- Safety signage in large red letters
- Galvanized steel shelves adjust on 2 1/2" centers
- Meets OSHA, and NFPA code 30
- Door(s) open full 180°F
- Self closing door shuts and latches automatically as fusible link(s) melt under fire conditions at 165°F
- Exclusive concealed self closing mechanism on noted cabinets

One Door Acid/Corrosive Cabinets

Part Number	Capacity	Description	Dimensions W x D x H
CK06	6 Gal.	Self-Closing	23" x 18" x 22" (58.4 x 45.7 x 55.9 cm)
CL06	6 Gal.	Manual Close	23" x 18" x 22" (58.4 x 45.7 x 55.9 cm)
CK12	12 Gal.	Self-Closing, One Shelf	23" x 18" x 35" (58.4 x 45.7 x 88.9 cm)
CL12	12 Gal.	Manual Close, One Shelf	23" x 18" x 35" (58.4 x 45.7 x 88.9 cm)
CK18	18 Gal.	Self-Closing, Two Shelves	23" x 18" x 44" (58.4 x 45.7 x 111.8 cm)
CL18	18 Gal.	Manual Close, Two Shelves	23" x 18" x 44" (58.4 x 45.7 x 111.8 cm)
CK24	24 Gal.	Self-Closing, Three Shelves	23" x 18" x 65" (58.4 x 45.7 x 165.1 cm)
CL24	24 Gal.	Manual Close, Three Shelves	23" x 18" x 65" (58.4 x 45.7 x 165.1 cm)

Two Door Acid/Corrosive Cabinets

Part Number	Capacity	Description	Dimensions W x D x H
CK30	30 Gal.	Self-Closing, One Shelf	43" x 18" x 44" (109.2 x 45.7 x 111.8 cm)
CL30	30 Gal.	Manual Close, One Shelf	43" x 18" x 44" (109.2 x 45.7 x 111.8 cm)
CK45	45 Gal.	Self-Closing, Two Shelves	43" x 18" x 65" (109.2 x 45.7 x 165.1 cm)
CL45	45 Gal.	Manual Close, Two Shelves	43" x 18" x 65" (109.2 x 45.7 x 165.1 cm)
CK60	60 Gal.	Self-Closing, Two Shelves	34" x 34" x 65" (86.4 x 86.4 x 165.1 cm)
CL60	60 Gal.	Manual Close, Two Shelves	34" x 34" x 65" (86.4 x 86.4 x 165.1 cm)

Acid & corrosive safety cabinets include:

- All welded double wall 18 gauge construction with 1 1/2" insulating air space
- 2" leak proof sill to contain leaks
- Lockable flush mounted handle with 2 keys
- Doors have 3 point locking system and radius edges
- Doors are double walled, 14 gauge outside and 18 gauge inside
- 4" heavy duty weld hinges with 3/8" brass pins
- Twin 2" flame arrester vents
- Adjustable leveling feet
- Powder coated Blue
- Safety signage in large letters
- Galvanized steel shelves adjust on 2 1/2" centers
- Polyethylene tray liner for shelves and sill
- Grounding connector
- Meets OSHA and NFPA code 30 & UFC 79 standards
- Door(s) open full 180°F
- Self closing door shuts and latches automatically as fusible link(s) melt under fire conditions at 165°F
- Exclusive concealed self closing mechanism on noted cabinets

Choose the right lab work surface to complete your project
We offer many work surfaces options, from ***INSTOCK***® products to custom fabricated work surfaces. Our ***INSTOCK***® work surfaces include epoxy resin and phenolic resin tops. These materials can also be special ordered to meet specific size and space requirements. Other materials are available for custom fabrication, including chemically resistant plastic laminate, hardwood, and stainless steel.

Work surfaces can be ordered in different depths, with special edge details, with extra high backsplashes, or a variety of cutouts. One of our Furniture Specialists are on hand to assist you in selecting the correct work surface material and style to meet your particular needs.

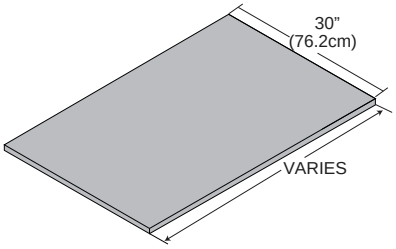
Most black epoxy and phenolic tops can be fabricated within 6 days after receipt of approved drawings. Complete specifications and samples of work surface materials are available from your Furniture Specialist. Delivery of stainless steel, laminate or hardwood tops is 7-8 weeks, after receipt of approved drawings.

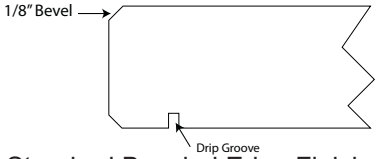
Material	Appearance and Color	Composition	Chemical Resistance	Applications
Phenolic Resin	Black or Grey, hard, smooth non-glare surface	1" thick cellulose fiber reinforced phenolic resin core with a polyurethane copolymer surface.	Good chemical resistance to wide range of acids, alkalies and solvents	Use wherever a high degree of chemical resistance is required.
Epoxy Resin	Black, smooth non-porous surface	1" thick molded epoxy resin	Good resistance to practically all acids, alkalies and solvents. Highly resistant to heat and normal physical abuse.	Use wherever a high degree of chemical resistance is required.
Stainless Steel	Silver No. 4 finish	1 1/2" thick Type 304 furnished as standard, but other types are available when specified.	Good chemical resistance to a wide range of reagents	Recommended for sterile and radiological laboratories
Hardwood, Oak or Maple	Natural varnish, or penetrating oil finish	2 1/4" thick solid edge grain Maple or Oak strips, glued together electronically, and finished with baked on clear synthetic varnish or penetrating oil.	Fair chemical resistance, but not recommended for use in chemical laboratories	Excellent top material for Physics tables, Electronic benches, and other areas where mechanical or physical work levels are prevalent
High-Pressure Laminates	Hard, smooth surface available in many colors	1 1/2" plastic laminated surface attached with water resistant adhesive to solid particle board. Available in choice of colors and patterns.	Fair chemical resistance to wide range of acids, alkalies and solvents	Recommended for light duty purposes

Custom Manufactured Work Surfaces

Please note that we offer custom laboratory work surfaces in both 1” (2.5 cm) thick black epoxy resin and phenolic resin. These custom work surfaces are available for shipment within 6 business days of approved drawings. They are designed and engineered to suit your needs.

Work Surfaces without Cutouts



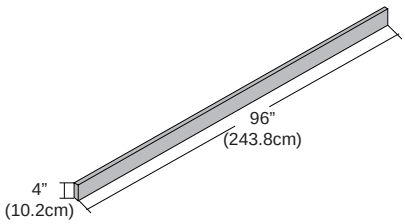


Standard Beveled Edge Finish

- Chemical resistant black epoxy or phenolic resin
- 1” (2.5 cm) thick
- Curb must be ordered separately
- Front edge finished, all other edges are square

Width	Depth	Epoxy Work Surface	Phenolic Work Surface	
			Black	Grey
36” (91.4 cm)	30” (76.2 cm)	LE3630-1	LP3630-1	LP3630-1G
48” (121.9 cm)	30” (76.2 cm)	LE4830-1	LP4830-1	LP4830-1G
60” (152.4 cm)	30” (76.2 cm)	LE6030-1	LP6030-1	LP6030-1G
72” (182.9 cm)	30” (76.2 cm)	LE7230-1	LP7230-1	LP7230-1G
96” W (243.8 cm)	30” (76.2 cm)	LE9630-1	LP9630-1	LP9630-1G

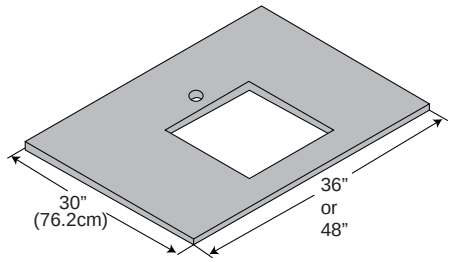
Work Surface Curb



- Cut to fit at job site

Width	Epoxy Work Surface	Phenolic Work Surface	
		Black	Grey
96” (243.8 cm)	LE9604-1	LP9604-1	LP9604-1G

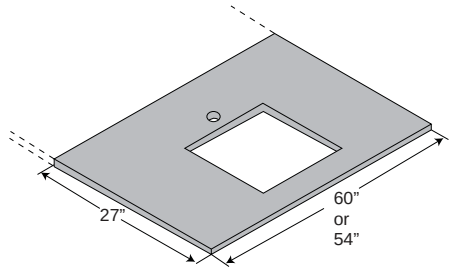
Work Surface with Sink Cutout



- Sink cutout 15" x 25" to receive a D55 drop in sink, fixture hole cutout diameter is 1 3/8"
- Sink and fixture hole are centered in width of top

Width	Epoxy Work Surface	Phenolic Work Surface	
		Black	Grey
36" (91.4 cm)	LE3630-D55	LP3630-D55	LP3630-D55G
48" (121.9 cm)	LE4830-D55	LP4830-D55	LP4830-D55G

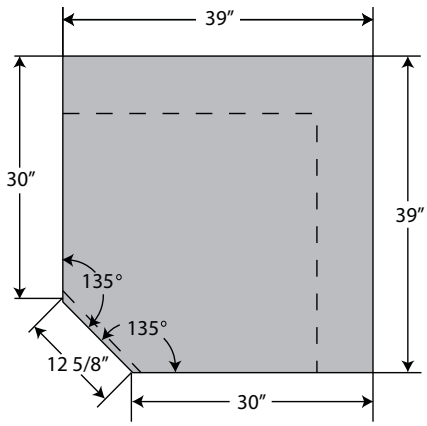
End Island Sink Work Surface



- Work Surface for end island sink cabinets
- Sink cutout 15" x 25" to receive a D55 drop in sink, fixture hole cutout diameter is 1 3/8"
- Sink and fixture hole are centered in width of top

Width	Epoxy Work Surface	Phenolic Work Surface	
		Black	Grey
54" (137.2 cm)	LE5427E-D55	LP5427E-D55	LP5427E-D55G
60" (152.4 cm)	LE6027E-D55	LP6027E-D55	LP6027E-D55G

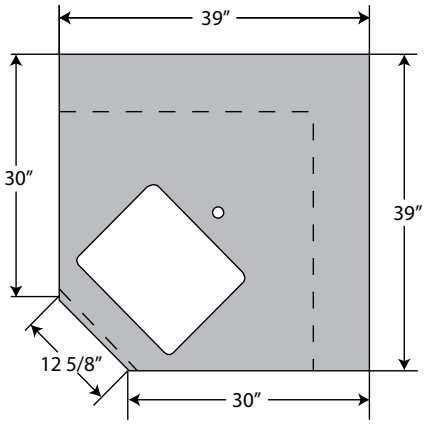
Corner Cabinet Work Surface



- Work surface for a corner cabinet
- Rear top over hang is 7"

Width	Epoxy Work Surface	Phenolic Work Surface	
		Black	Grey
39" (99.1 cm)	LE37CB-1	LP37CB-1	LP37CB-1G

Corner Cabinet Work Surface with Sink Cutout



- Work surface for a corner sink cabinet
- Sink cutout 15" x 18" to receive a D30 sink, fixture hole diameter is 1 3/8"
- Rear top over hang is 7"

Width	Epoxy Work Surface	Phenolic Work Surface	
		Black	Grey
39" (99.1 cm)	LE39CB-D30	LP39CB-D30	LP39CB-D30G

Mixing Faucets

L412-8VB

- Deck mounted, mixing faucet with vacuum breaker
- Chrome plated brass with 8" swivel gooseneck
- Valves are self-contained units with replaceable stain-less steel seats
- Four-arm handles

L412-8

- Deck mounted, mixing faucet
- Chrome plated brass with 8" swivel gooseneck
- Valves are self-contained units with replaceable stain-less steel seats
- Four-arm handles

L412-8VB-BH

- Deck mounted, mixing faucet with vacuum breaker
- Chrome plated brass with 8" swivel gooseneck
- Valves are self-contained units with replaceable stain-less steel seats
- Blade handles

L412-8-BH

- Deck mounted, mixing faucet
- Chrome plated brass with 8" swivel gooseneck
- Valves are self-contained units with replaceable stain-less steel seats
- Blade handles

Cold Water Faucets

L611-8VB

- Deck mounted, cold water faucet with vacuum breaker
- Chrome plated brass with 8" swivel gooseneck
- Valves are self-contained units with replaceable stain-less steel seats
- Four-arm handles

L611-8

- Deck mounted, cold water faucet
- Chrome plated brass with 8" swivel gooseneck
- Valves are self-contained units with replaceable stain-less steel seats
- Four-arm handles

L611-8VB-BH

- Deck mounted, cold water faucet with vacuum breaker
- Chrome plated brass with 8" swivel gooseneck
- Valves are self-contained units with replaceable stain-less steel seats
- Blade handles

L611-8-BH

- Deck mounted, cold water faucet
- Chrome plated brass with 8" swivel gooseneck
- Valves are self-contained units with replaceable stain-less steel seats
- Blade handles

Foot Operated Faucet

L084-8-3001-BH

- Deck mounted, mixing faucet with vacuum breaker
- Chrome plated brass with 8" swivel gooseneck
- Valves are self-closing valve unites with replaceable stain-less steel stems
- Floor mounted foot-operated valve

DI/RO Faucet

L7833MSC

- Deck mounted faucet for distilled, deionized or reverse osmosis water
- Exterior brass casing and interior lining of inert polypro-pylene
- Diaphragm-type valve
- Nylon toggle-style lever handle and combination manual/self-closing

Aerator

BO055

- 3/8" NPS male inlet
- Replaces serrated hose end on most WaterSaver faucets

Laboratory Ball Valves

- Deck mounted turret base with 1 turret
- Chrome plated brass
- Quarter-turn open/close
- Forged brass lever with color-coded index disc

Part Number	Service
L4200-131WSA-G	Gas
L4200-131WSA-A	Air
L4200-131WSA-N	Nitrogen
L4200-131WSA-V	Vacuum

- Deck mounted turret base with 2, 90 degree turrets
- Chrome plated brass
- Quarter-turn open/close
- Forged brass lever with color-coded index disc

Part Number	Service
L4200-132AWSA-G	Gas
L4200-132AWSA-A	Air
L4200-132AWSA-N	Nitrogen
L4200-132AWSA-V	Vacuum

- Deck mounted turret base with 2, 180 degree turrets
- Chrome plated brass
- Quarter-turn open/close
- Forged brass lever with color-coded index disc

Part Number	Service
L4200-132SWSA-G	Gas
L4200-132SWSA-A	Air
L4200-132SWSA-N	Nitrogen
L4200-132SWSA-V	Vacuum

- Deck mounted turret base with 4 turrets
- Chrome plated brass
- Quarter-turn open/close
- Forged brass lever with color-coded index disc

Part Number	Service
L4200-134WSA-G	Gas
L4200-134WSA-A	Air
L4200-134WSA-N	Nitrogen
L4200-134WSA-V	Vacuum

Laboratory Needle Valves

- Deck mounted turret base with 1 turret
- Straight patten forged brass
- Floating stainless steel needle and replaceable stainless steel seat
- Four-arm handle with color-coded index disc

Part Number	Service
L2880-131WSA-G	Gas
L2880-131WSA-A	Air
L2880-131WSA-N	Nitrogen
L2880-131WSA-V	Vacuum

- Deck mounted turret base with 2, 90 degree turrets
- Straight patten forged brass
- Floating stainless steel needle and replaceable stainless steel seat
- Four-arm handle with color-coded index disc

Part Number	Service
L2880-132AWSA-G	Gas
L2880-132AWSA-A	Air
L2880-132AWSA-N	Nitrogen
L2880-132AWSA-V	Vacuum

- Deck mounted turret base with 2, 180 degree turrets
- Straight patten forged brass
- Floating stainless steel needle and replaceable stainless steel seat
- Four-arm handle with color-coded index disc

Part Number	Service
L2880-132SWSA-G	Gas
L2880-132SWSA-A	Air
L2880-132SWSA-N	Nitrogen
L2880-132SWSA-V	Vacuum

- Deck mounted turret base with 4 turrets
- Straight patten forged brass
- Floating stainless steel needle and replaceable stainless steel seat
- Four-arm handle with color-coded index disc

Part Number	Service
L2880-134WSA-G	Gas
L2880-134WSA-A	Air
L2880-134WSA-N	Nitrogen
L2880-134WSA-V	Vacuum

Eyewash

- Eyewash for mounting on counter next to sink
- Swivels 90 degrees
- Water flow is activated by flag handle
- Each head has a flip dust cover
- Chrome plated brass

EW806	Right Hand Mounting
EW806LH	Left Hand Mounting

- Eyewash for mounting on counter next to sink
- Swivels 90 degrees
- Water flow is activated swinging the spray head over sink
- Each head has a flip dust cover
- Chrome plated brass

EW805	Right Hand Mounting
EW805LH	Left Hand Mounting

EW1022BP

- Dual purpose eyewash/drench hose for deck mounting
- Water flow is activated by stainless steel lever handle
- Back flow preventer is on the inlet of the hose

Drench Shower

SS909

- Free-standing drench shower made of orange ABS plastic
- Ball valve operated by a rigid pull-rod and easy grip handle
- Eye wash fixture with stainless steel bowl, four gentle spray heads and a “Push to Operate” ball valve
- Eye wash and shower operate independently
- Overall height 80”

SSBF909

- Free-standing drench shower made of orange ABS plastic
- Ball valve operated by a rigid pull rod and easy grip handle
- Eye wash fixture with stainless steel bowl, four gentle spray heads and a “Push to Operate” ball valve
- Eye wash and shower operate independently
- Overall height 80”
- ADA compliant

ES643

- Emergency shower head assembly
- Includes 10” diameter orange ABS plastic shower head
- Operated by a rigid pull-rod and easy to grip handle

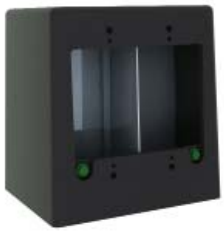
Electrical

E433WS

- Single gang, double face
- 120 V/20 Amp
- Supplied with black outlets and stainless steel cover plates
- Cast aluminum boxes are powder coated with a black wrinkle epoxy finish

E633WS

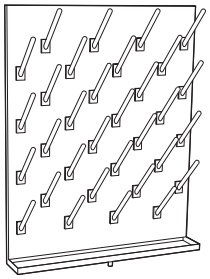
- Double gang, double face
- 120 V/20 Amp
- Supplied black with outlets and stainless steel cover plates
- Cast aluminum boxes are powder coated with a black wrinkle epoxy finish



E800WS

- This electrical pedestal can accommodate a variety of styles and configurations
- As many as 8 outlets can be installed
- It's chambered design minimizes RF interference when combining electrical and data outlets in this fixture
- Outlets and cover plates supplied separately
- Cast aluminum boxes are powder coated with a black wrinkle epoxy finish

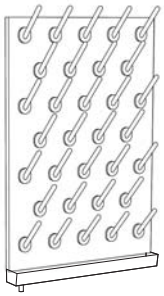
Stainless Steel Pegboard



- Type 304 stainless steel pegboard with 32 1/2” diameter, 6” long white polypropylene pegs.
- Furnished with 4” wide drip trough and clear plastic drain tube

V2430	24” W x 30” H (61 cm x 76.2 cm)
V3630	36” W x 30” H (91.4 cm x 76.2 cm)
With Finished Back	
V2430FB	24” W x 30” H (61 cm x 76.2 cm)
V3630FB	36” W x 30” H (91.4 cm x 76.2 cm)

Phenolic Resin Pegboard

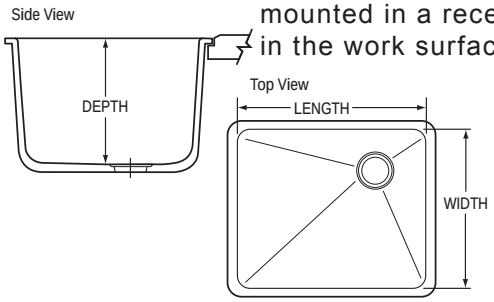


- Black phenolic pegboard with 6” long, white polypropylene pegs and finished back
- Furnished with stainless steel drip trough and clear plastic drain tube

PB-PR2430	24” W x 30” H (61 cm x 76.2 cm)
PB-PR3030	30” W x 30” H (76.2 cm x 76.2 cm)

Drop-In Epoxy Resin Sinks

Dimensions Key



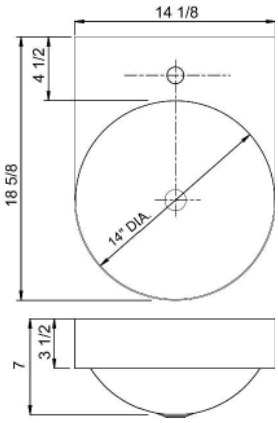
Drop in sinks are mounted in a recess in the work surface

- These durable black epoxy sinks are chemically resistant, come with coved corners and are pitched to the drain
- All tub sinks are furnished complete with a tail piece and strainer
- Drop in sinks can be converted to be undermount sinks, however cabinet sink supports will be required

Part Number	Length	Width	Depth	Outlet	Weight (lb)
D-30	18” (45.7 cm)	15” (38.1 cm)	11” (27.9 cm)	Corner	49
D-50	24” (61 cm)	16” (40.6 cm)	8” (20.3 cm)	Center	48
D-55	25” (63.5 cm)	15” (38.1 cm)	10” (25.4 cm)	Corner	60
D-59	28” (71.1 cm)	15” (38.1 cm)	11.8” (30 cm)	Corner	61
LB-U04 (Cup Style)	6” (15.2 cm)	3” (7.6 cm)	3.7” (9.4 cm)	Center	6
A-55 (ADA Sink)	25” (63.5 cm)	15” (38.1 cm)	4.8” (12.2 cm)	Corner	47

Wall-Hung Hand Wash Sink with Sensor Operation Package

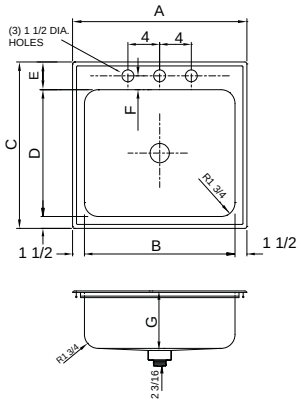
- 18 gauge, Type 304, stainless steel
- Seamless welded construction
- Underside insulated for sound and reduced condensation
- Integral stainless steel brackets and wall clip
- Sensor-operated deck mounted hand wash faucet with flow control
- Includes faucet, sensor assembly, slow closing solenoid valve
- Chrome plated drain with flat grid strainer 1-1/2" O.D. chrome plated tail piece, 4" long
- Anti-Scald mixing valve with bronze body with integral check valves and adjustment cap with locking feature
- Chrome plated cast brass 1-1/2" P-trap with clean out
- Commercial grade stainless steel soap dispenser is included



Part Number
WHL-14-S

Drop In Stainless Steel Single Bowl Sinks

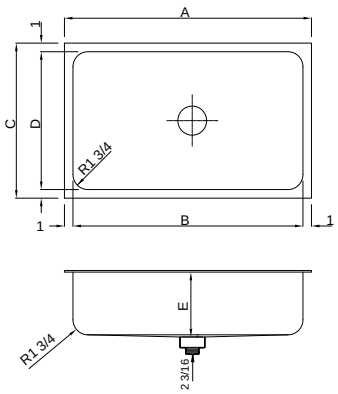
- Seamless die-drawn construction of 18 gauge type 304 stainless steel
- Interior surfaces polished to a non-porous finish
- Fully coated underside insulated for sound and reduced condensation
- Crumb strainer included
- Self-rimming top mount Grip-Rim Plus with stainless steel mounting channels



Part Number	A	B	C	D	E	F	G
SLN-1815-A-GR	15" (38.1 cm)	12" (30.5 cm)	18" (45.7 cm)	12" (30.5 cm)	4 1/2" (11.4 cm)	2" (5.1 cm)	7 1/2" (19.1 cm)
SLN-2119-A-GR	19" (48.3 cm)	16" (40.6 cm)	21" (53.3 cm)	16" (40.6 cm)	3 1/2" (8.9 cm)	1 3/4" (4.4 cm)	4 1/2" (11.4 cm)
SLN-2122-A-GR	22" (55.9 cm)	19" (48.3 cm)	21" (53.3 cm)	16" (40.6 cm)	3 1/2" (8.9 cm)	1 3/4" (4.4 cm)	7 1/2" (19.1 cm)
SLN-2233-A-GR	33" (83.8 cm)	28" (71.1 cm)	22" (55.9 cm)	16" (40.6 cm)	4 1/2" (11.4 cm)	2" (5.1 cm)	8" (20.3 cm)

Undermount Stainless Steel Single Bowl Sinks

- Seamless die-drawn construction of 18 gauge type 304 stainless steel
- Interior surfaces polished to a non-porous finish
- Fully coated underside insulated for sound and reduced condensation
- Crumb strainer included
- Sink supports will be required

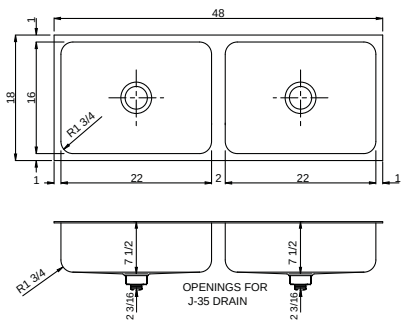


Part Number	A	B	C	D	E
USN-1414-A	14" (35.6 cm)	12" (30.5 cm)	14" (35.6 cm)	12" (30.5 cm)	7 1/2" (19 cm)
USN-ADA-1818-A	18" (45.7 cm)	16" (40.6 cm)	18" (45.7 cm)	16" (40.6 cm)	4 1/2" (11.4 cm)
USN-1821-A	21" (53.3 cm)	19" (48.3 cm)	18" (45.7 cm)	16" (40.6 cm)	7 1/2" (19 cm)
USN-1830-A	30" (76.2 cm)	28" (71.1 cm)	18" (45.7 cm)	16" (40.6 cm)	8" (20.3 cm)

Undermount Stainless Steel Double Bowl Sinks

- Seamless die-drawn construction of 18 gauge type 304 stainless steel
- Interior surfaces polished to a non-porous finish
- Fully coated underside insulated for sound and reduces condensation
- 2 Crumb strainers included
- Sink supports will be required

Part Number
UD-1848-A



MVMT Pro Series

- Designed for healthcare, laboratory and clean rooms including standing work applications
- Addresses task-specific range of motion; features weight activated control lockout for precision work and many other ergonomic functions
- 20”-27” and 24”-33.5” come standard with a footring
- Image shown in Blue Grade 2 Vinyl

Height Range	Chair with only armrests	Chair with footring and armrests
17”-21” (Medium Back) (Blue Grade 2 Vinyl)	MP-ML-P28-3D-AV106	-
17”-21” (Medium Back) (Black Grade 2 Vinyl)	MP-ML-P28-3D-AV126	-
17”-21” (Tall Back) (Blue Grade 2 Vinyl)	MP-TL-P28-3D-AV106	-
17”-21” (Tall Back) (Black Grade 2 Vinyl)	MP-TL-P28-3D-AV126	-
20”-27” (Medium Back) (Blue Grade 2 Vinyl)	-	MP-MM-P28-3D-AFP-AV106
20”-27” (Medium Back) (Black Grade 2 Vinyl)	-	MP-MM-P28-3D-AFP-AV126
20”-27” (Tall Back) (Blue Grade 2 Vinyl)	-	MP-TM-P28-3D-AFP-AV106
20”-27” (Tall Back) (Black Grade 2 Vinyl)	-	MP-TM-P28-3D-AFP-AV126
24”-33.5” (Medium Back) (Blue Grade 2 Vinyl)	-	MP-MH-P28-3D-AFP-AV106
24”-33.5” (Medium Back) (Black Grade 2 Vinyl)	-	MP-MH-P28-3D-AFP-AV126
24”-33.5” (Tall Back) (Blue Grade 2 Vinyl)	-	MP-TH-P28-3D-AFP-AV106
24”-33.5” (Tall Back) (Black Grade 2 Vinyl)	-	MP-TH-P28-3D-AFP-AV126

Vacuum-Formed FC Series

- Designed for physicians, directors, patient intake and other healthcare personnel applications
- Base is reinforced composite
- Dual-wheel, non-marring polyurethane casters resist movement when the seat is unoccupied
- 17”-22” height range does not come with a footring
- 19”-26” and 22”-32” come standard with a footring
- Image shown in Slate Blue Vinyl

Height Range	Standard Part Number	Chair with armrests	Chair with footring and armrests
17”-22” (Slate Blue Vinyl)	FCR-L-RC-VF-BLU	FCR-L-RC-VF-ARS-BLU	-
17”-22” (Black Vinyl)	FCR-L-RC-VF-BLK	FCR-L-RC-VF-ARS-BLK	-
19”-26” (Slate Blue Vinyl)	FCR-M-RC-VF-ATF-BLU	-	FCR-M-RC-VF-ATF-ARS-BLU
19”-26” (Black Vinyl)	FCR-M-RC-VF-ATF-BLK	-	FCR-M-RC-VF-ATF-ARS-BLK
22”-32” (Slate Blue Vinyl)	FCR-H-RC-VF-ATF-BLU	-	FCR-H-RC-VF-ATF-ARS-BLU
22”-32” (Black Vinyl)	FCR-H-RC-VF-ATF-BLK	-	FCR-H-RC-VF-ATF-ARS-BLK

Belize B Series

- Recommended for: industry, education, laboratory, clean room, healthcare and office
- Concave seats, contoured backrests with lumbar supports
- Base is reinforced composite
- Dual-wheel, non-marring polyurethane casters resist movement when the seat is unoccupied
- 17”-22” height range does not come with a footring
- 19”-26” and 22”-32” come standard with a footring
- Image shown in Blue Grade 2 Vinyl

Height Range	Standard Part Number	Chair with armrests	Chair with footring and armrests
17”-22” (Blue Grade 2 Vinyl)	BER-L-RC-AV106	BER-L-RC-ARS-AV106	-
17”-22” (Black Grade 2 Vinyl)	BER-L-RC-AV126	BER-L-RC-ARS-AV126	-
19”-26” (Blue Grade 2 Vinyl)	BER-M-RC-ATF-AV106	-	BER-M-RC-ATF-ARS-AV106
19”-26” (Black Grade 2 Vinyl)	BER-M-RC-ATF-AV126	-	BER-M-RC-ATF-ARS-AV126
22”-32” (Blue Grade 2 Vinyl)	BER-H-RC-ATF-AV106	-	BER-H-RC-ATF-ARS-AV106
22”-32” (Black Grade 2 Vinyl)	BER-H-RC-ATF-AV126	-	BER-H-RC-ATF-ARS-AV126

ArmorSeat G Series

- This chair is the multi-purpose seating solution for almost anywhere: schools, colleges, universities, pathology, clinical labs, industry, manufacturing and hospitals
- 16”-21” height range does not come with a footring
- 18”-25” and 21”-31” come standard with a footring
- **This style does not have an armrest option**
- **This style only comes in black self-skinned urethane**

Height Range	Standard Part Number
16”-21”	GGR-L-RC-B
18”-25”	GGR-M-RC-ATF-B
21”-31”	GGR-H-RC-ATF-B

Uniqueu U Series

- Recommended for: industry, education, laboratory, clean room and healthcare
- Molded self-skinned urethane seats and lumbar-supporting backrests are easy to wash down and resist damage from water, lubricants, chemicals, inks, paints, coatings and resins
- 16”-21” height range does not come with a footring
- 18”-25” and 21”-21” come standard with a footring
- **This style only comes in black self-skinned urethane**

Height Range	Standard Part Number	Chair with armrests	Chair with footring and armrests
16”-21”	UUR-L-RC-B	UUR-L-RC-ARS-B	-
18”-25”	UUR-M-RC-ATF-B	-	UUR-M-RC-ATF-ARS-B
21”-31”	UUR-H-RC-ATF-B	-	UUR-H-RC-ATF-ARS-B

Standing Work Seating S Series

- Recommended for: laboratories, healthcare, industry, education, retail and hospitality
- This chair features a wide, swiveling seat perched on a sturdy base inclined at 4 degrees
- Black self-skinned urethane seat

Height Range	Standard Part Number
24”-33”	FIN

Rexford Vacuum-Formed R Series

- Recommended for: healthcare applications, exam rooms, surgical suites and recovery
- Base is reinforced composite
- Dual-wheel, non-marring polyurethane casters resist movement when the seat is unoccupied
- 17”-22” height range does not come with a footring
- 19”-26” and 22”-32” come standard with a footring
- Image shown in Slate Blue Vinyl

Height Range	Standard Part Number
17”-22” (Slate Blue Vinyl)	RXR-L-RC-VF-BLU
17”-22” (Black Vinyl)	RXR-L-RC-VF-BLK
19”-26” (Slate Blue Vinyl)	RXR-M-RC-VF-ATF-BLU
19”-26” (Black Vinyl)	RXR-M-RC-VF-ATF-BLK
22”-32” (Slate Blue Vinyl)	RXR-H-RC-VF-ATF-BLU
22”-32” (Black Vinyl)	RXR-H-RC-VF-ATF-BLK

Regent Vacuum Formed Series

- The addition of the streamlined backrest to this ergonomic stool makes it a comfortable option for healthcare workers
- Vacuum formed upholstery process reduces opportunity for liquid and bacterial infiltration
- Control functions include seat height, seat tilt and backrest height adjustments
- 19”-26” and 22”-32” seat height ranges come standard with adjustable footring
- Image shown in Slate Blue Vinyl

Height Range	Standard Part Number
17”-22” (Slate Blue Vinyl)	RTR-L-RC-VF-BLU
17”-22” (Black Vinyl)	RTR-L-RC-VF-BLK
19”-26” (Slate Blue Vinyl)	RTR-M-RC-VF-ATF-BLU
19”-26” (Black Vinyl)	RTR-M-RC-VF-ATF-BLK
22”-32” (Slate Blue Vinyl)	RTR-H-RC-VF-ATF-BLU
22”-32” (Black Vinyl)	RTR-H-RC-VF-ATF-BLK

Pogo RT and RX Series

- Vertical-surface-mountable design with swing-arm provides seating option for tight spaces
- RT series model has a backrest that delivers added comfort for healthcare workers
- Vacuum formed upholstery process reduces opportunity for liquid and bacterial infiltration
- Comes standard with non-skid glide; stays put when in use, easily swings away when unoccupied
- Adjustable seat height range of 26.5”-31.75”
- Image shown in Slate Blue Vinyl

Pogo RT Series

Height Range	Standard Part Number
26.5”-31.75” (Slate Blue Vinyl)	RTY-VF-BLU
26.5”-31.75” (Black Vinyl)	RTY-VF-BLK

Pogo RX Series

Height Range	Standard Part Number
26.5”-31.75” (Slate Blue Vinyl)	RXY-VF-BLU
26.5”-31.75” (Black Vinyl)	RXY-VF-BLK

Zephyr FP Series

- Provides an executive experience for managers and administrative staff
- Features a roomy nylon mesh back with adjustable lumbar support and a contoured, generously proportioned seat
- An executive style control includes seat height and tilt adjustments, backrest tilt and more
- 19”-26” comes standard with footring
- Image shown in Jodhpurs

Height Range	Standard Part Number	Chair with armrests	Chair with footring and armrests
17”-22” (Jodhpurs)	FPW-L-RC-NH420	FPW-L-RC-ARS-NH420	-
17”-22” (Galaxy Blue)	FPW-L-RC-NH509	FPW-L-RC-ARS-NH509	-
19”-26” (Jodhpurs)	FPW-M-RC-ATF-NH420	-	FPW-M-RC-ATF-ARS-NH420
19”-26” (Galaxy Blue)	FPW-M-RC-ATF-NH509	-	FPW-M-RC-ATF-ARS-NH509

Trend Series

- Full ergonomic functionality and profile provides versatility for multiple healthcare workspaces
- 21”-28” and 23”-33” height ranges come standard with footring
- Footring unavailable on low seat height range models
- Black self-skinned urethane

Height Range	Standard Part Number
18”-23”	TRENDW-L-2000
21”-28”	TRENDW-M-ATF-2000
23”-33”	TRENDW-H-ATF-2000

Colors

Blue Grade 2 Vinyl
A106

Black Grade 2 Vinyl
A126

Slate Blue Vinyl
BLU

Black Vinyl
BLK

Jodhpurs (Cloth)
N420

Galaxy Blue (Cloth)
N509

Electrical Wire Raceways

- Prewired single channel aluminum wire raceway with 5-20R, 120V, 20amp, standard or GFCI outlets.
- Includes 8' black power cord with plug as noted below
- Option to upgrade to the twist-to-lock power plug

Raceway Length	Number of Outlets	GFCI Outlets with Straight Blade Plug	GFCI Outlets with Twist-to-Lock Plug	Standard Outlet with Straight Blade Plug	Standard Outlet with Twist-To-Lock Plug
48" (121.9 cm)	2 Duplex's	EWR48GFI-S	EWR48GFI-T	EWR48-S	EWR48-T
60" (152.4 cm)	3 Duplex's	EWR60GFI-S	EWR60GFI-T	EWR60-S	EWR60-T
72" (182.9 cm)	3 Duplex's	EWR72GFI-S	EWR72GFI-T	EWR72-S	EWR72-T
84" (213.4 cm)	4 Duplex's	EWR84GFI-S	EWR84GFI-T	EWR84-S	EWR84-T
96" (243.8 cm)	4 Duplex's	EWR96GFI-S	EWR96GFI-T	EWR96-S	EWR96-T

Task Lighting - LabLight

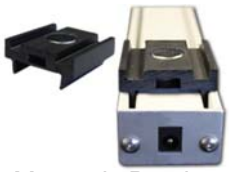
- The LabLight is a streamline LED task light perfect for laboratory workbenches.
- The non-yellowing polycarbonate lens directs up to 95% of the illumination from white LED lamps to the work surface.
- It is made with 90% recycled materials and lasts up to 50,000 hours
- 1 3/8" wide x 7/8" tall
- Add 1 5/8” to length for each power supply
- Power connections on both ends for “daisy chaining” up to 10’ of light
- When daisy chaining, at least one LabLight with a 6’ power cord is required

Length	Power Supply & Magnet Mounting Bracket	Power Supply & Screw-Mount Bracket	Daisy Chain & Magnetic Bracket	Daisy Chain & Screw-Mount Bracket
15 1/4" (37.7 cm)	LL15-PSMM	LL15-PSSM	LL15-DCMM	LL15-DCSM
27 1/4" (67.2 cm)	LL27-PSMM	LL27-PSSM	LL27-DCMM	LL27-DCSM
39 1/4" (99.7 cm)	LL39-PSMM	LL39-PSSM	LL39-DCMM	LL39-DCSM
51 1/4" (130.2 cm)	LL51-PSMM	LL51-PSSM	LL51-DCMM	LL51-DCSM
63 1/4" (160.7 cm)	LL63-PSMM	LL63-PSSM	LL63-DCMM	LL63-DCSM
75 1/4" (191.1 cm)	LL75-PSMM	LL75-PSSM	LL75-DCMM	LL75-DCSM
87 1/4" (221.6 cm)	LL87-PSMM	LL87-PSSM	LL87-DCMM	LL87-DCSM

LabLight Specifications	
Operating Voltage/Frequency	110 50/60 Hz
Efficiency	75 lumens/watts
Power Consumption	2 watts/foot
Light Output	40 foot candles min. @ 21 1/2" H 150 lumens/foot
Color Temperature	ANSI C3
Environment	Indoor, Dry Locations
Operating Temperature Range	32-104°F (0-40°C)
Expected Service Life	20 years @ 50 hours/week

Mounting Options

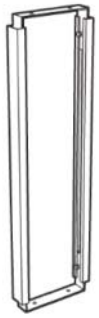
LabLights are easily attached to metal, plastic or wood furniture. For semi-permanent mounts, for metal applications, magnetic brackets are pre-installed. For permanent mounting, screw-mount brackets can be provided, which snap into the back of the LabLight.



Magnetic Bracket

Screw-Mount Bracket

Chase Support Assembly



- An adjustable height floor mounted, support assembly for work surfaces as well as drain line and piping in the plumbing chase

Part Number	Dimensions
CSA3108	27"-31" H x 8" D (68.6-78.7 x 20.3 cm)
CSA3708	33"-37" H x 8" D (83.8-94 x 20.3cm)

Cabinet Base Molding

- Base molding
- Black PVC Vinyl
- Self-Adhesive

Part Number	Dimensions
VBM48	4" H x 48" L (10.2 x 121.9 cm)

Wall Mounted Cylinder Restraints

- Cast aluminum, wall-mounted cylinder restraint
- Includes nylon strap and security chain
- Can be placed adjacent to each other to secure a group of cylinders

Part Number	Cylinder Diameter
CRWM	4"-14" (10.2 x 35.6 cm)

Free Standing Cylinder Restraints

- 2" x 2" tubular steel, fully welded gas cylinder rack to be utilized for proper securing of cylinders
- Includes security chains
- CRFM2x1 shown in image

Part Number	Number of Cylinders	Dimensions W x D x H
CRFM2x1 (2 Cylinders x 1 bay)	2	30" x 16" x 30" (76.2 x 40.6 x 76.2 cm)
CRFM2x2 (2 Cylinders x 2 bay)	4	30" x 32" x 30" (76.2 x 81.3 x 76.2 cm)
CRFM2x3 (2 Cylinders x 3 bay)	6	30" x 48" x 30" (76.2 x 121.9 x 76.2 cm
CRFM3x1 (3 Cylinders x 1 bay)	3	45" x 16" x 30" (114.3 x 40.6 x 76.2 cm)
CRFM3x2 (3 Cylinders x 2 bay)	6	45" x 32" x 30" (114.3 x 81.3 x 76.2 cm)
CRFM3x3 (3 Cylinders x 3 bay)	9	45" x 48" x 30" (114.3 x 121.9x 76.2 cm

Bio-Trapper

The Bio-Trapper is outstanding and unique for the airtight collection of a wide variety of waste or incontinence materials. The Bio-Trapper opens and closes by means of a foot pedal. Brakes are provided on 2 of the 4 swivel casters. The top of the waste collector is fitted with double hinged folding clasps that are designed for plastic waste bags noted below.

The Bio-Trapper's simple and sturdy operation mechanism ensures that the refuse bag remains hermetically sealed at all times.

Part Number	Dimensions
BIOT	23" x 19.3" x 38.6" (585 x 490 x 980 mm)

The rubberized clamp ring is fitted with clips and stays to keep the refuse bag securely in place. So, even when the clamp ring is open, the bag will never budge.

Replacement Bags

Part Number	Dimensions W x T	Waste Type (Bag Color)
15E456	33" x 44" (83.8 x 111.8 cm)	General (Clear)
31DK96	31" x 43" (78.7 x 109.2 cm)	Infectious Linen (Yellow)
31DK98	31" x 43" (78.7 c 109.2 cm)	Noncontagious Linen (Blue)
31DK97	31" x 43" (78.7 x 109.2 cm)	Infectious Waste (Red)

What's Important for Designing a Lab Space

Your project might involve the renovation of an old lab or building a new one. Our experienced team is ready and available to help lead you through the process. The pages that follow provide an overview of this process. We are looking to help build your information base and to make your interaction with our team more productive.

Part 1 - Understand the space being considered

Survey the area being considered for the laboratory. Think of the overall amount of space that will be required for the people, process and equipment that will occupy the lab. Be careful to ensure that all the necessary utility services and sanitary or chemical drains will be available. If you'll need a fume hood, make sure you review an exit route for ducting. Always consider the future needs of your facility.

Part 2 - Select a Casework Layout

Select a casework layout that best suits your space and complies with established safety guidelines. Please pull our team in as required to help generate some sample layouts.

Part 3 - Outfitting Your Lab

Make a list of all the components your lab will need. Remember to include cabinets, countertops, fixtures, fume hoods, biological safety cabinets, cold rooms, cleanrooms, water purification systems, bench top equipment, refrigerators, seating, etc. One of our Lab Furnishing Specialists will help you complete the project planning, prepare a pricing proposal and be the one point of contact for your project through the installation process.

Laboratory Layout & Design Considerations

Following is a basic set of considerations for general laboratory layout & design. It is not intended to be a comprehensive, but it will be helpful in the review of the needs & requirements for most laboratories. This information will form a sound foundation for the interaction with our lab design team on the layout of furnishings for your lab.

1. Determine the general purpose of each lab, support or work space
    - Number of people
    - Amount of bench required per person or per operation
    - Number of fume hoods or biological safety cabinets needed
2. Confirm the rough lab spaces & sizes needed and their locations within the building
    - Review service runs required
    - Confirm the floor to deck space in the labs
    - Inspect proposed mechanical distribution and passageways
3. Engage your Environmental Health & Safety person as well as Facilities Operations & Maintenance for input
4. Develop a lab equipment listing reflecting the sizes of each piece, service requirements and respective heat loss
    - Confirm if the equipment will fit on the bench or floor. Consider your future operations.
    - All equipment should be placed into a plan view drawing to confirm fit
    - Review overall voltages and total amperage needed for the project
    - Review venting requirements, data connections, and any ancillary equipment needed
5. Examine the proposed lab layout & workflow
    - Confirm that the lab will fit the process
6. Review the need for flexible, open, lab space in the lab layout, consider future needs
7. From a historical perspective, review what's working and not working in the current lab
8. Review specific needs within the lab for:
    - Radioactive or biological materials
    - Hazardous operations
    - ADA compliance
    - Access for rolling equipment
9. Confirm the need for ancillary lab space or other space that makes the rest of the lab work more efficiently:
    - Sample receiving
    - Work in process
    - Glass wash/prep areas
    - Equipment support space
    - Offices or desk spaces
10. Examine lab storage needs
    - Supplies
    - Glassware
    - Chemicals
    - Samples
    - Receiving
11. Review hood selection and distribution in the lab
    - They should be sized to safely fit the purpose
    - Provide access for people, equipment, & process
    - Positioned correctly within the lab
    - Confirm plumbed and wired service needs
    - Confirm the HVAC requirements and the need for both supply and exhaust air systems
12. Confirm the effective separation of lab areas:
    - Lab and Office
    - Higher and Lower areas of hazard or chemical use
    - Sinks & electronics
    - Safety showers & electronics
    - Centrifuges and balances
13. Review needed availability & service distribution in the lab
    - Deck mounted pedestals
    - Wall mounted fittings
    - Overhead service panels
14. Review lab lighting & orientation for effective illumination of the work spaces
15. For sinks, review location, size, purpose & services needed
16. Confirm locations for:
    - Coat racks
    - Safety Glasses
    - Gloves
    - Shoe covers
    - Tack mats
17. Review room air changes needed within the lab and storage spaces
18. Review aisle way clearances
    - Code considerations
    - Passage of equipment
    - Avoid back to back chair arrangements
19. Confirm the placement of all lab safety fixtures and equipment
    - Eye washes
    - Safety showers
    - Fire blankets
20. Review the need for controlled access to the lab and support spaces

Developing Project Goals

Your project timeline could be as little as a few weeks to as much as a few years. We are here to help minimize this process. We can help to formulate a clear understanding of the project goals and navigate normal project pitfalls.

A Project Team Needs to be Selected

The team will need a captain to ensure that the project will run smoothly. The team should consist of the people who understand all elements of the project, from the fundamental design to how it will suit current objectives and future requirements. The team will be responsible for establishing budgets and developing schedules.

The Team Should Include:

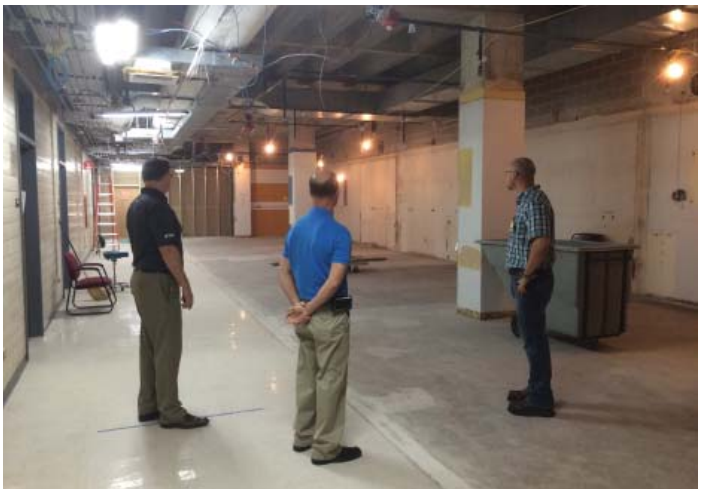
1. Facilities Operations and Management - These are the people to help determine if the design meets facility guidelines, maintenance requirements, and available utilities.
2. The Health and Safety Officer at the facility to ensure compliance with site, state and federal safety codes and guidelines
3. Laboratory Management for the lab space
4. Individuals that will be using the lab space
5. One of our Lab Furniture Specialists

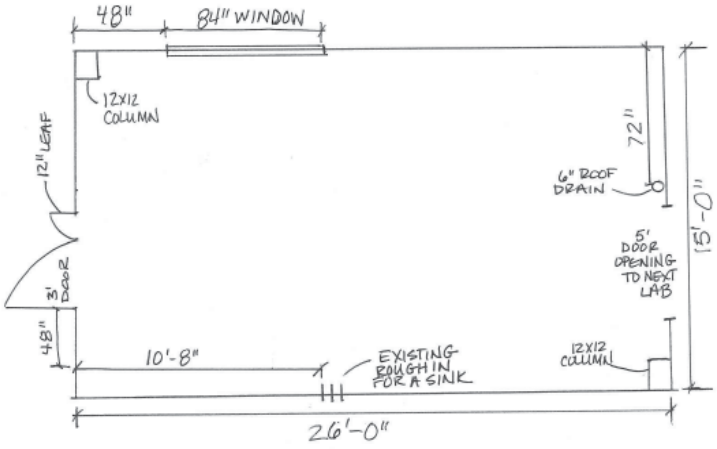
The team captain needs to organize the members and guide them on their contribution to the project. That person will document details, developments, changes, and keep the project on track.

What does your lab space look like?

Measure the room and make a rough drawing

Your lab project starts with an understanding of all room dimensions and details. We can help refine the rough initial details gathered and create an accurate drawing of the space. Pictures of the lab space can help communicate with the project team and keep a record of activity.

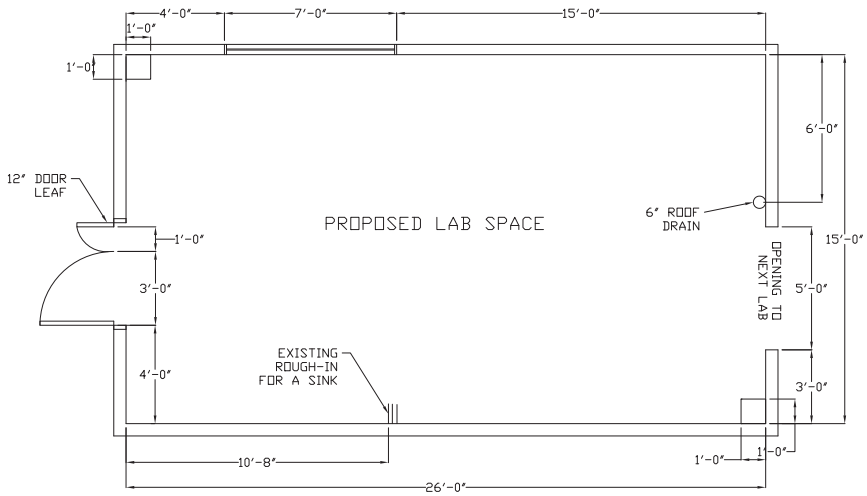




Steps

1. Measure all walls and confirm the ceiling height
2. Confirm the sizes and positions of all doors and windows. For the windows it's important to note their height off the floor
3. Measure and mark all:
   - Columns
   - Floor drains
   - Utility connections on the wall or floor
   - Other obstructions within the room

Remember, layers of information will need to be gathered on any project. A member of our CAD team can quickly take a hand sketch and create a scaled drawing for further comment or action.



This initial drawing can now be the basis for planning and further communication. Lab furniture, equipment, electrical, plumbing among other elements can be positioned within the drawing and reviewed by the project team and one of our Furniture Specialists.

801-970-1212

Elements of a Safe and Efficient Lab

One of our Lab Furniture Specialists is available to assist with the programming of your lab project.

Work Areas

- Provide adequate space at each bench for equipment to be placed and the process to be performed.
- Provide adequate space within the lab and between each bench for planned and future workflow and required egress and ingress.
- Consider all planned and future free standing lab equipment

Storage and Equipment Areas

- Storage and equipment areas should have appropriate ventilation and be sufficient in size
- All equipment should include a grounded plug. Review any older equipment to be used.

Chemical Storage Areas

- A chemical use assessment should be performed for the project
- Chemical storage should be secure but provide for safe and convenient retrieval
- Provide space adequate for the segregation and ventilation of chemicals
- Separate storage should be provided for flammables, acids, and corrosives

Safety Equipment

- Install eyewash stations within 10 seconds of unobstructed walking time from the location of a hazard
- Install safety showers within 10 seconds of unobstructed walking time from the location of a hazard

Services and Utilities

- A free standing and bench top equipment spreadsheet should be generated. Among other details, this spreadsheet should include information on all services required by equipment item number.
- Consideration should be given to electricity, plumbed and bottled gas, hot and cold water, and drainage required for equipment.
- Consider centralized safety and servicing shutoffs for all utilities
- Consider telephone, data and low voltage systems

Traffic Patterns and Spaces

- All rooms should have at least two forms of egress
- Minimum aisleway clearance is 42"
- Fume hoods should be located away from main traffic aisles or doorways
- Doors should be inset and open outward

Lab Ventilation

- Understand the use of all chemicals and biological elements for the lab space
- Chemical fume hoods require a supply air source and are vented to the exterior of the building
- Ventilation should be considered based upon the procedure or equipment being used
- The equipment listing mentioned in the Services and Utilities section should include the potential heat gain to the lab. This heat gain needs to be considered when sizing the HVAC system for the project
- Lab ventilation should be a minimum of 4 exchanges per hour
- Exhaust fans should be located outside and on the roof of the building

Lab Reference Sources

The references in print as well as the websites listed provide a wealth of detailed information. Whether you are building a new laboratory space or updating an old one, these references will help with developing good laboratory layouts that are safe and are compliant with regulations.

Printed Resources

American Chemical Society, Safety in Academic Chemistry Laboratories
American Chemical Society
This guide is available from the American Chemical Society's Office of Society Services by calling 800-227-5558. (Note: Available free from ACS)

Laboratory Design Handbook
By: E. Crawley Cooper
The Laboratory Design Handbook describes the process, motivation, constraints, challenges, opportunities, and specific design data related to the creation of a modern research laboratory. The information presented is based on a large pool of experience in the development of new and renovated laboratory buildings for universities, teaching hospitals, pharmaceutical companies, start-up biotechnology companies, and other types of industrial technology.
CRC Press, ISBN 9780849389962 - CAT# 8996

Prudent Practices in the Laboratory: Handling and Management of Chemical Hazards
Prudent Practices in the Laboratory has served for decades as the standard for chemical laboratory safety practice. Developed by experts from academia and industry, with specialties in such areas as chemical sciences, pollution prevention, and laboratory safety. It provides guidance on planning procedures for the handling, storage, and disposal of chemicals. Designed to promote safety and includes practical information on assessing hazards, managing chemicals, disposing of wastes.
National Academies Press, ISBN 0309138647, 9780309138642

Web Resources

Lab Planning
www.labplan.org
This website (the result of a planning study performed by the National Science Foundation) suggests a planning process and offers criteria and standards that can help determine what additional or improved facilities are needed for programs. This interactive website follows the structure of the planning process and provides the tools, guidelines, and data necessary to plan and design high school science, math, and technology education teaching spaces

Americans with Disabilities Act (ADA)
www.ada.gov
Information on the ADA including relevant publications, federal resources, ADA design standards, technical assistance program, enforcements, code certification, business connections, status reports, new and proposed regulations, and the ADA program.

Occupational Safety and Health Organization (OSHA)
www.osha.gov
Complete reference source for OSHA compliance including assistance, grants, cooperative programs, safety and health topics, statistics, US-EU cooperation, and service standards.

National Science Teacher's Association
www.nsta.org
Information provided focuses on the teaching environment, from elementary to college classrooms. Paid membership enables access to journals and books. NSTA recommendations, the latest news, conventions, supplier's guide, and discussion boards.

American National Standards Institute (ANSI)
www.ansi.org
This is a paid membership website that offers documents on laboratory ventilation (Z9.5) for both rooms and fume hoods as well as information on American National Standards including procedures, guides and forms, accreditation requirements, appeals requirements, audit requirements, and governance committees. The site also provides information on IEC programs, regional programs, ISO programs, the standards boards, and panels.

National Science Education Leadership Association
www.nsela.org
This official website of the NSELA is dedicated to providing national leadership in efforts to improve science education. The quarterly newsletter is posted along with operations manuals, by-laws, career postings, and publications.

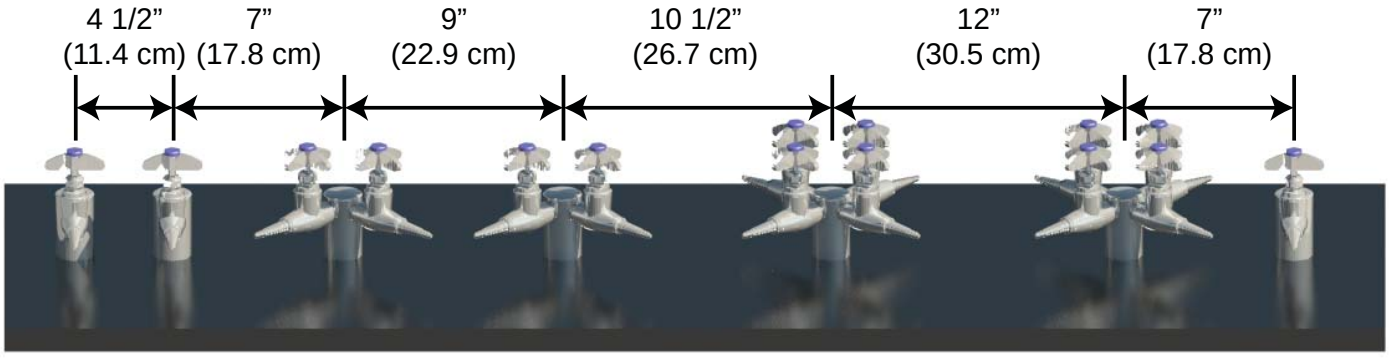
National Fire Protection Association (NFPA)
www.nfpa.org
Website dedicated to providing research information, public education, professional development as well as fire protection information, and flammable materials storage guidelines. This paid subscriber services offers many of the NFPA codes online.

Scientific Equipment and Furniture Association (SEFA)
www.sefalabs.com
This official website for SEFA gives paying members guidelines on construction and performance of laboratory equipment and furniture. Links to member companies offering laboratory products and laboratory design are provided.

General Plumbing Details

Minimum Spacing Between Fixtures

The drawing below show the allowable minimum spacing between service fittings on laboratory bench top.



Service and Rough-In Designations and Color Coding

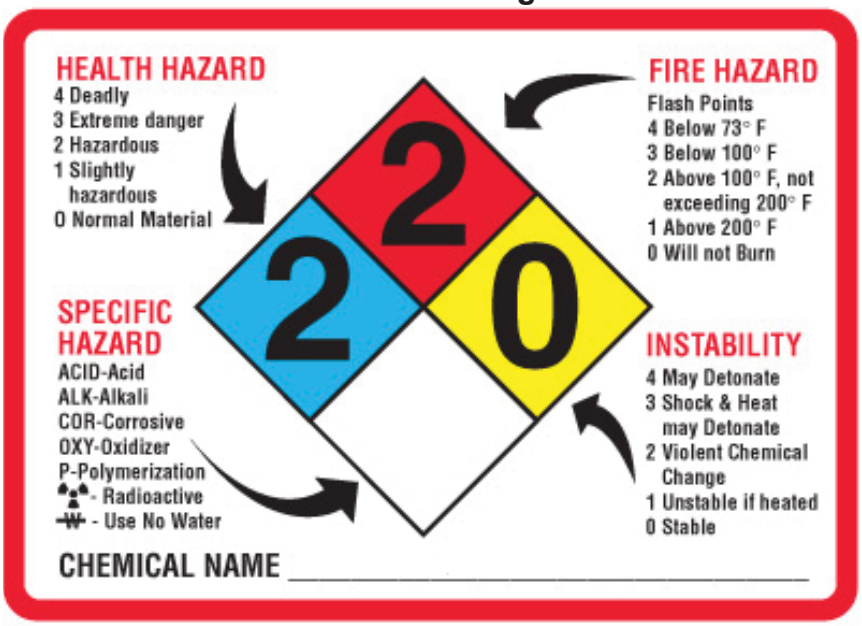
Designation	Service	Color
E	Electric (120 Volt AC)	-
DT	Data	-
A	Air	Orange
G	Gas	Dark Blue
V	Vacuum	Yellow
N	Nitrogen	Brown
O	Oxygen	Light Green
S	Steam	Black
CW	Cold Water	Green
HW	Hot Water	Red
DW	Distilled Water	White
W	Waste	-
WV	Waste Vent	-

Recommended Supply Line Pressures

Service	Pressure
Hot and Cold Water	Local Pressure
Gas	0.216 psi
Air (Ordinary)	15 psi
Air (Air Powered Stirrer Operation)	40 psi
Vacuum (Ordinary)	18-22" of Mercury
Vacuum (High)	28.5" of Mercury
Steam (Low Pressure)	0-15 psi as required
Steam (High Pressure	15-30 psi as required

NFPA Labeling and NEMA Details

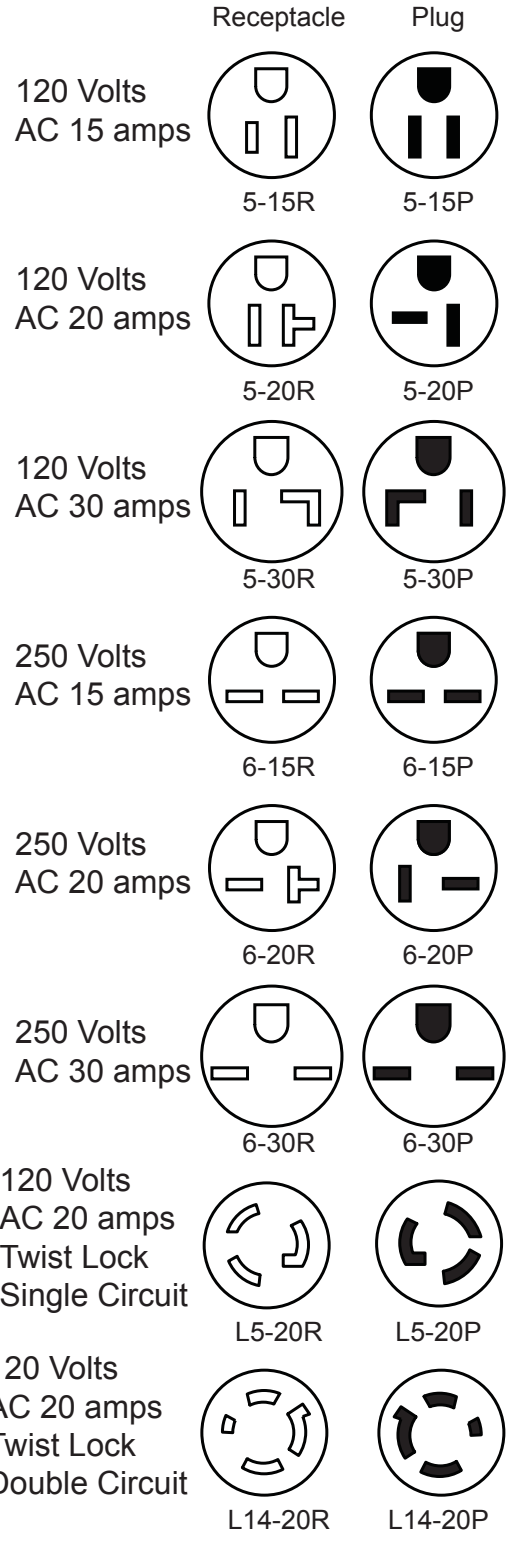
NFPA Chemical Container Labeling



Conversion Chart

To Convert From	To	Multiply By
Milliliters	Ounces	0.03381497
Millimeters	Inches	0.039370079
Ounces	Liters	0.029572702
Liters	Gallons	0.2641794
Pounds	Kilograms	0.45359237
Centimeters	Inches	0.39370079
Cubic Feet	Liters	28.31605
Cu. ft./min.	Liters/sec.	0.4719342
Cu. meters/min.	Liters/min.	999.972
Feet	Centimeters	30.48
Feet/minute	Meters/sec	0.00508
Gallons	Liters	3.785306
Gal./sec	Liters/min.	227.1183
Horsepower	Btu/hr	2547.16
Horsepower	Watts	746
Inches	Centimeters	2.54
Kilograms	Pounds	2.2046226
Kilowatts	Btu/hr	3414.43
Meters/sec	Feet/min.	196.85039
Watts	Btu/hr	3.41443

NEMA Electrical Information



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