

A X I O M<sup>®</sup>

*The World's First Type C1 Biosafety Cabinet*



*Only  
Axiom<sup>®</sup>  
serves up  
the best  
of both  
worlds.*

**VWR**  <sup>®</sup>  
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Protecting your  
laboratory environment

**LABCONCO**<sup>®</sup>



# PURIFIER® AXIOM™ CLASS II, TYPE C1 BIOSAFETY CABINETS

World's First TYPE C1 Biosafety Cabinet

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## It began with a question or two

**What if? Why not?** In 2012, Labconco engineers pondered these questions after a customer requested a Class II, Type B2 biological safety cabinet (BSC) with ultra low static pressure. The customer needed a Type B2 cabinet because their applications involved volatile chemical vapors, but they also wanted to achieve building efficiency by ganging several BSCs together. Could Labconco combine the chemical safety capabilities of a Type B BSC with the installation flexibility of a canopy-exhausted Type A BSC? At the time, no such BSC existed. We reluctantly told the customer, "no." But our interest was piqued and, internally, a challenge was issued and a goal set:

***"Design a direct exhaust BSC with installation flexibility"***

The invention of the Purifier Axiom Type C1 Biosafety Cabinet was coming.

## The Best of Both Worlds

In 2014, after extensive research and testing, Labconco engineers achieved their goal and introduced an entirely new type of biosafety cabinet that delivers both safety and flexibility. Until now, there had been two choices of biosafety cabinets, Type A and Type B.



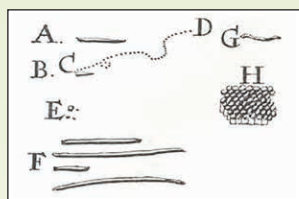
A Class II, Type A cabinet recirculates HEPA-filtered air into the room so is unable to protect you and your lab from gaseous chemical applications. When canopy connected, a Class II, Type A cabinet exhausts a percentage of the air through the canopy while the remainder of air is recirculated through the cabinet. Since not trapped by the cabinet's exhaust HEPA filter, the recirculated air would contain a concentration of hazardous gases within the cabinet, creating an unsafe condition. Furthermore, in the event of an exhaust failure, hazardous gases would recirculate back into the lab.

A Class II, Type B cabinet directly exhausts to the outside so can handle fumes and vapors, yet taxes your building's exhaust system of both air and energy. All Type As and Bs lack flexibility and cannot be converted into the other, leaving many labs without future options. The new Purifier Axiom Type C1 bridges the gap between Type A and Type B cabinets offering the best of both worlds. Only the Axiom is capable of handling every application.

## The evolution of the Labconco biological safety cabinet



The Black Death sweeps across Eurasia killing up to 200 million people.



Robert Koch receives the Nobel Prize for proving "germ theory of disease" while working with cholera, anthrax and tuberculosis.

4 Billion Years BCE

1348-1350 CE

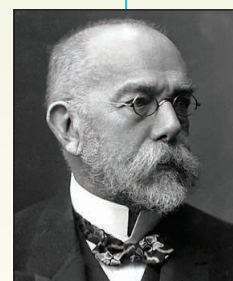
1676 CE

1905 CE

Archaea and bacteria appear on Earth. Modern man arrives another 4 million millennia later.



Bacteria first observed and illustrated by Dutch microscopist Antonie van Leeuwenhoek.





# PURIFIER<sup>®</sup> AXIOM<sup>™</sup> CLASS II, TYPE C1 BIOSAFETY CABINETS

World's First **TYPE C1** Biosafety Cabinet

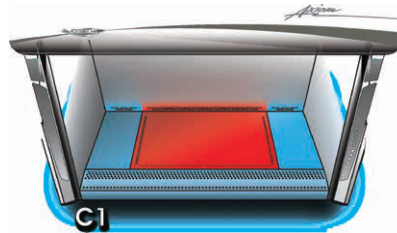


## Chem-Zone<sup>®</sup> Work Surface

Integral to the design of the Axiom is its unique work surface. The three-piece work surface with Chem-Zone dished center promotes the proper technique of organizing your workflow from clean to dirty. The ends of the work surface function as staging areas for procedures and a

place to keep supplies and equipment. The Chem-Zone, provides ample area for a single user to perform critical operations while containing spills.

In installations where the Axiom is operated in Type B mode (Figure 1, page 4), all chemical vapors and particulates from work performed over the Chem-Zone is ensured a direct path to the exhaust filter and ducted outside. Within this zone, there is no recirculation of air, guaranteeing operator and laboratory safety. Air outside the zone—down-flow air at the ends of the work surface and air taken in at the front grille—is recirculated to save energy in ducted applications. When the Axiom is operated in Type A mode (Figure 2, page 4), the air is simply recirculated back into the laboratory.



Shown in red, The Chem-Zone, dished and delineated by airflow slots, provides the primary working area for critical operator actions. The work surfaces on either side of the Chem-Zone serve as staging areas.

Table 1 below outlines the lifetime savings achieved by the Axiom Type C1 cabinet versus a Type B2 cabinet. The reduced airflow demand of the Chem-Zone area results in savings of more than 50%.

**Table 1**

15 Year Costs	Type A2	Type A2 with Canopy	Type B1	Type B2	Axiom Type C1	
					in A mode	in B mode
<b>Upfront installation</b>	\$300	\$400	\$5,150	\$5,150	\$300	\$400
<b>Lifetime maintenance</b>	\$4,500	\$4,500	\$4,500	\$4,500	\$4,500	\$4,500
<b>Lifetime operation</b>	N/A	\$40,500	\$40,500	\$87,000	N/A	\$42,000
<b>ESTIMATED TOTAL COST</b>	<b>\$4,800</b>	<b>\$45,400</b>	<b>\$50,150</b>	<b>\$96,650</b>	<b>\$4,800</b>	<b>\$46,900</b>

Upfront installation costs include labor, ductwork, blower (where applicable) and electrical hook up. Lifetime maintenance costs include HEPA filters and annual certification. Lifetime operation cost is cost of exhausted air of \$8/year/CFM for 15 years.



1925 CE

Laboratory Construction Company is founded in Kansas City following a chance meeting at a garage. A decade later Labconco, as it came to be known, releases the first commercially available fume hood, starting an enduring tradition of ventilation safety expertise.

"Communicable Disease Center" (CDC) organized in Atlanta, GA, U.S.A. on July 1.

World Health Organization (WHO) is formally adopted and formed by the United Nations.

1946-1948 CE



1950 CE

First Biological Safety Cabinets (BSCs) become commercially available.

NSF/ANSI Standard 49 writes and sets operational parameters to be met by Class II BSCs and defines Type A & Type B BSCs. Labconco manufactures its first Laminar Flow Biohazard Cabinets based on the first NSF 49 Standard.

1976 CE





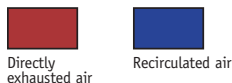
# Axiom

## PURIFIER® AXIOM™ CLASS II, TYPE C1 BIOSAFETY CABINETS

World's First TYPE C1 Biosafety Cabinet

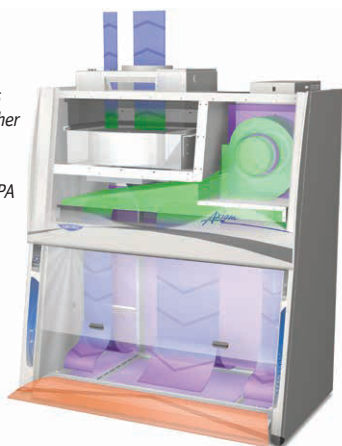
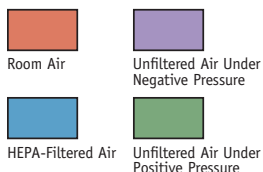
### Figure 1 - Type B mode

When operated in Type B mode, 100% of the air passing over the Chem-Zone is directed through the exhaust HEPA filter and delivered to the ductwork where house exhaust can take over. Air passing over the areas on either side of the Chem-Zone is recirculated through the cabinet.



### Figure 2 - Type A mode

When operated in Type A mode, room air is drawn into the inlet grille and directed below the plenum of the work surface where it mixes with air that has passed over the areas on either side of the Chem-Zone. This contaminated air mixture is drawn through the back plenum where it is recirculated through the supply HEPA filter and back over the work area. Air passing over the Chem-Zone is directed through the exhaust HEPA filter and returned to the room.



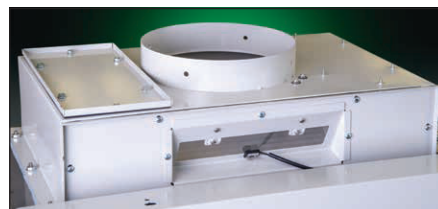
### Omni-Flex™ Design

Operational needs change, and until now, biosafety cabinets could not. The Axiom's Omni-Flex design allows the cabinet to be installed in a recirculating Type A mode when no chemical hazards are present or in a ducted Type B mode for use with hazardous vapors. If your application changes over time, simply connect or disconnect the Axiom from exhaust. In addition, the Type C1 has the added benefit of being programmable to an 8" or 10" sash opening height.

Furthermore, the Axiom can be tied into almost any existing appropriate building exhaust system (with sufficient CFM reserve). Unlike traditional Type B BSCs, no costly dedicated remote blower and ductwork are required. A Type B's dedicated roof-mounted blower is required to pull the air through its exhaust HEPA filter. The blower must be large because, over time, the pressure of the loading HEPA filter increases to 4.0" H<sub>2</sub>O or greater. Since the total exhaust area of the Axiom is limited to the Chem-Zone, exhaust air volume is reduced to approximately 40% of a comparable Type B2 BSC. In addition, a second built-in blower, located upstream of the exhaust HEPA filter, forces air through the exhaust HEPA filter and delivers it to ductwork where house exhaust takes over.

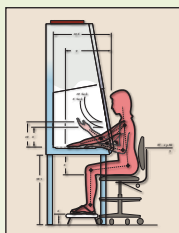
Table 1 on page 3 shows the significantly lower upfront installation costs compared to a Type B1 or Type B2.

Switching modes is easy. When switching from Type B to Type A, disconnect the cabinet from the ductwork and move the plate from the left side of the exhaust collar to the right. Follow the steps on the LCD information center to program the cabinet for Type A mode. To switch from Type A to Type B, connect the cabinet to ductwork, move the plate from the right side to the left side, and set the programming.



## The evolution of the Labconco biological safety cabinet

Labconco Purifier® is the first Class II BSC with an angle sloped safety glass sash to improve user comfort. Meanwhile, the American Biological Safety Association (ABSA) is established to promote biosafety as a scientific discipline.



Labconco and GE develop Constant Airflow Profile (CAP) programming for use in Class II BSCs, which Labconco incorporates in the Purifier® Logic® BSC. The results of NSF tests show that the Purifier Logic has the most accurate and precise airflow in the industry, making it the safest Class II BSC.

1984 CE

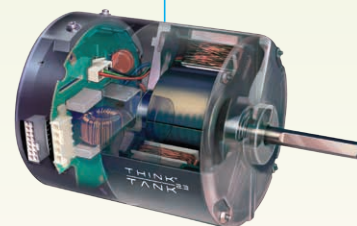


2000 CE

Human factors experts and microbiologists consult on the design of the Purifier® Delta® Series Class II BSC, making this Labconco BSC the first to be truly ADA\*-compliant.

\*Americans with Disabilities Act

2007 CE







# PURIFIER® AXIOM™ CLASS II, TYPE C1 BIOSAFETY CABINETS

World's First TYPE C1 Biosafety Cabinet

## Active Protection Protocol

Utilizing Labconco's own Constant Airflow Profile™ (CAP) to maintain accurate and precise airflow, the Axiom's dual ECM blowers actively maintain airflow **even during building exhaust failure!** With containment programmable from 0-300 seconds, this exclusive fail-safe design provides optimal airflow, allowing you to confidently shut down work and close the sash.

As depicted in Figure C, the Axiom's CAP determines that remote blower failure has occurred by detecting increasing exhaust system resistance (static pressure). When detected, Active Protection Protocol is activated to maintain operationally-safe Average Inflow Velocity of 105 fpm. The operator is afforded up to 5 minutes to complete emergency shut down and evacuation without risking exposure.

Active Protection Protocol is able to overcome considerable static pressure as shown in Table 2. The 4' Axiom was tested and found to maintain safe airflow when static pressure in the exhaust ductwork exceeded 1.5" w.c., which equates to 2,100 or more of equivalent feet of straight duct. The 6' Axiom can handle up to 1.0" w.c., which equates to 650 or more of equivalent feet of straight duct.

## You CAN have it all

A combination of flexibility and safety in a biosafety cabinet delivers the right mode of operation for your current and future applications. Add energy savings into the mix and your best choice is Axiom.

Figure C

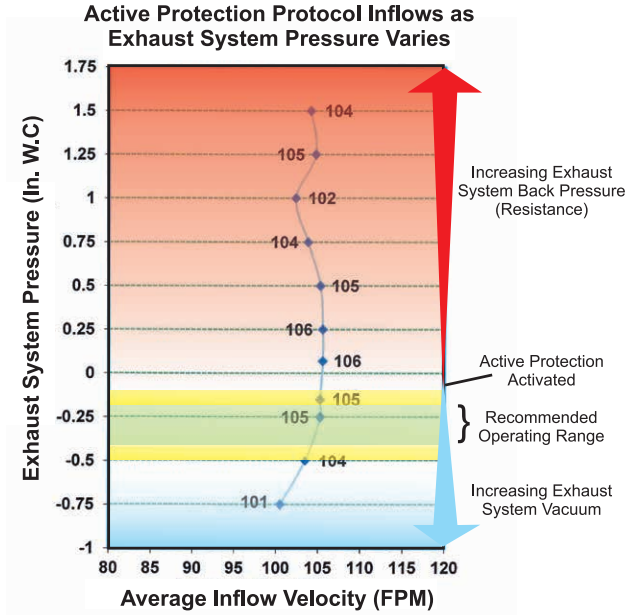


Table 2

10" Dia. Duct	4' Axiom		6' Axiom	
	Exhaust CFM	Equiv. Ft. of Duct	Exhaust CFM	Equiv. Ft. of Duct
8" Sash Opening	283	3,250	423	1000
10" Sash Opening	354	2,100	529	650



Labconco begins research and development of a new Class II type of cabinet that bridges the gap between Type A and Type B.

2009 CE

Labconco introduces a line of biosafety cabinets with features to address the needs of cell research. The Purifier® Cell Logic® allows the user to integrate a microscope into the cabinet.



Labconco introduces the Purifier® Axiom™, the world's first Class II, Type C1 BSC. Built with the same Human Factors features of the Logic+, the Axiom is capable of operating as a Type A or a Type B cabinet, the best of both worlds.

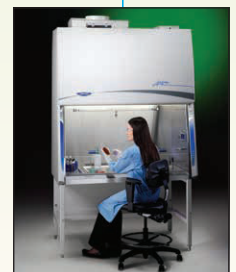
2012 CE

**THE GOAL**  
"Design a direct exhaust BSC with installation flexibility"

2013 CE

Labconco introduces the Purifier® Logic+ Class II, Type A2 and B2 BSCs, with Human Factors design. The Ventus™ Canopy installed on a Purifier Logic+ BSC is the safest ducted Type A in existence.

2014 CE





# PURIFIER® AXIOM™ CLASS II, TYPE C1 BIOSAFETY CABINETS

## Specifications

### Performance Features

- Omni-Flex™ two operation mode design: Type A mode for standard microbiological use and Type B mode for connection to exhaust system when handling hazardous chemical vapors or radionuclides
- Dual Electronically Commutated Motors (ECM)
- Constant Airflow Profile™ (CAP) Technology airflow monitoring system that provides constant and precise volume of air as required and automatically adjusts as filters load without relying on airflow or pressure sensors
  - Low static pressure and volumetric rate exhaust requirements when in Type B mode. No dedicated exhaust system per BSC required as compared to contemporary Class II, Type B biosafety cabinets.
- Air-Wave™ Entry System\*
- Contain-Air™ Negative Pressure Channel\*
  - MyLogic™ Operating System that controls Smart-Start™ System for allowing the user to program start up and shut down operations and Night-Smart™ System for idling the blower when the sash is fully closed (Night-Smart operational in Type A mode only)
  - Built-in interval or elapsed timer for experiment monitoring, fluorescent light or UV light control (on models with UV light)
  - Digital clock
  - Bright, 90-150 footcandle, glare-free fluorescent lighting located outside the contaminated work area
  - Five year limited warranty

### Safety Features

- LCD information center with "Filter Life Remaining" bar graph for each HEPA filter, status line for alarm conditions and alerts to warn when filter life diminishes to 20% and 0%
- Active Protection Protocol that operates the exhaust blower for 10 seconds longer than the supply blower and maintains negative pressure during normal shut down, or in the event of exhaust system failure, preventing the flow of air into the laboratory\*\*
- Fully scannable exhaust and supply HEPA filters
  - Electronic security lock (optional activation) that requires code to operate the cabinet
  - Two electrical duplex receptacles, (single outlets on 230 volt models), located one on each side (GFCI on 115 volt models only)
  - Intrinsically safe negative pressure design
  - Fully-closing, clear 1/4" tempered safety glass sash
  - Stainless steel inlet grille with Reserve-Air™ Secondary Airflow Slots\*
  - Supply and exhaust 99.99+% efficient HEPA filters. Contact VWR for optional 99.999% efficient ULPA filters.
  - Leak-tight stainless steel interior

### Comfort Features

- Interior-mounted, line-of-sight, full color LCD information center with easy-to-understand MyLogic™ programming
- 22.6" (58 cm) maximum sash opening height and 27.0" (69 cm) viewing height

- Waterfall design curved inlet grille forearm support\*
- Removable, type 304 stainless steel 3-piece work surface (including 2 flat sides and 1 dished center) with lift out knobs and clearly delineated working area (when handling chemicals)\*\*
- Latch to hold center dished Chem-Zone™ work surface in upright position for easy cleaning of catch pan and sump area
  - 10° angled sash with counterbalanced, anti-racking mechanism for ease of lifting and lowering
- ADA-compliant touchpad control on right-hand side post for manual activation of blower, light(s), timer, electrical receptacles, audible alarm mute and menu selection
- Flush-mounted stainless steel electrical receptacle covers with dampened hinges
- Two operational ADA-compliant sash heights. BSC can be programmed on location to have either 8" or 10" sash height.\*\*

### Specifications

- Chem-Zone™ work area with dedicated direct exhaust for use with hazardous vapors or radionuclides\*\*
  - Nominal inflow velocity of 105 feet per minute (fpm) (0.53 m/sec)
  - Nominal downflow velocity of 65 fpm (0.33 m/sec) for 4' models and 55 fpm (0.28 m/sec) for 6' models
- Powder-coated steel exterior
- NSF International-Listed and modified ASHRAE 110 compliant
- ETL listed
- CE conformity marking (230 volt models)
- Class 5 conditions per ISO 14644-1 and -2 (formerly Class 100)

### Options

- Unassembled, NSF-Approved, powder-coated steel telescoping base stand with fixed feet
- Accessory Package: 254 nm UV lamp, ADA-compliant service fixture(s) with ball-type valve(s), and NSF-Approved Vacu-Pass™ Cord & Cable Portal
- 10" diameter stainless steel air-tight manual damper (recommended if connected to exhaust in Type B mode)
- Bag-In/Bag-Out Exhaust Filter for use with radionuclides or harmful pharmaceutical compounding ingredients

### Required Accessory

- Supporting base if unassembled stand option is not selected

\*U.S. Patent No. 6,368,206

\*\*Patent pending

 Exclusive Labconco feature

 Complies with Americans with Disabilities Act Standard for height of controls and receptacles





# PURIFIER<sup>®</sup> AXIOM<sup>™</sup> CLASS II, TYPE C1 BIOSAFETY CABINETS

## Catalog Number Configurator

Use this key to configure the **nine digit catalog number** to order your Purifier Axiom Class II Biosafety Cabinet. For example, a 304411100 (VWR number 10148-126) is a 4' Purifier Axiom Class II Biosafety Cabinet with 10" sash opening, service fixture, UV lamp, Vacu-Pass Portal, unassembled base stand and North America, 115 volt electrical receptacle and plug.

**STEP 1:** Select the **width** of your cabinet. This number is the fourth digit of your catalog number.

- 4 = 4' (Actual width = 54.3"/138 cm)
- 6 = 6' (Actual width = 78.3"/199 cm)

**STEP 2:** Select the **sash opening height**. This number is the fifth digit of your catalog number.

- 1 = 10" (25.4 cm)
- 8 = 8" (20.3 cm)



**3 0 4**

**STEP 3:** Select the **Accessory Package option: service fixture(s), UV lamp and Vacu-Pass<sup>™</sup> Cord & Cable Portal**. This number is the sixth digit of your catalog number.

- 0 = None
- 1 = Includes a right-side mounted factory-installed service fixture (two on 6' models, one on each side), UV lamp with timer, and right-side wall Vacu-Pass Portal.

**STEP 4:** Select **non-welded telescoping base stand option**. This number is the seventh digit of your catalog number.

- 0 = None
- 1 = Includes a non-welded telescoping base stand shipped with the cabinet.

**STEP 5:** Select the **electrical receptacle and plug type**. These numbers are the eighth and ninth digits of your catalog number.

- 00 = North America, 115 volts, 20 amps
- 10 = North America, 230 volts
- 20 = Japan, 100 volts, 20 amps
- 30 = Schuko, 230 volts
- 40 = China/Australia, 230 volts
- 50 = British (UK), 230 volts
- 70 = India, 230 volts

### Technical Specifications

Actual Width	54.2" (138 cm)	78.2" (199 cm)
Depth	32.7" (83 cm)	32.7" (83 cm)
Overall Height	64.2" (163 cm)	64.2" (163 cm)
Shipping Weight (Cabinet only)	750 lbs. (340 kg)	1075 lbs. (488 kg)
Shipping Weight (Cabinet with Base Stand)	835 lbs. (379 kg)	1175 lbs. (533 kg)
Power Consumption	200 watts	325 watts
Exhaust Volume, 10" Sash Opening*	480 CFM @ 0.2" s.p.	684 CFM @ 0.2" s.p.
Exhaust Volume, 8" Sash Opening*	387 CFM @ 0.2" s.p.	556 CFM @ 0.2" s.p.

\*Concurrent balance values

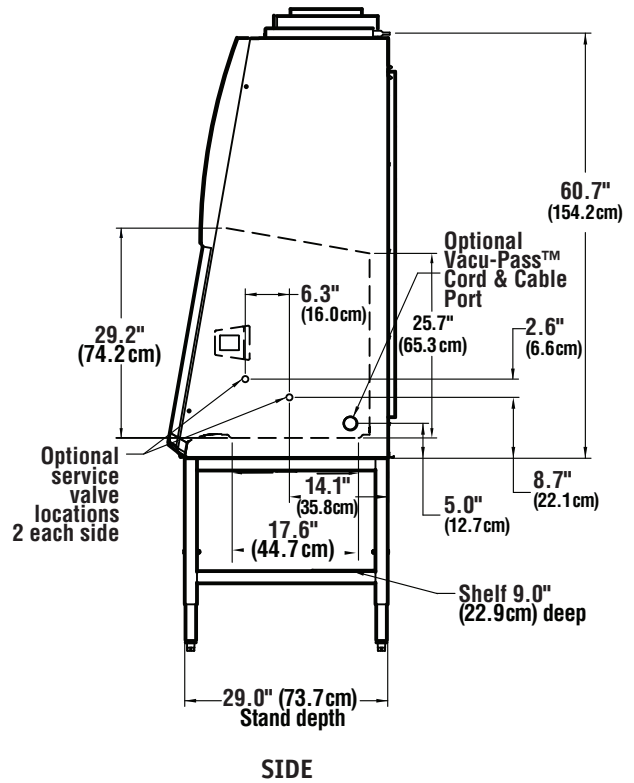
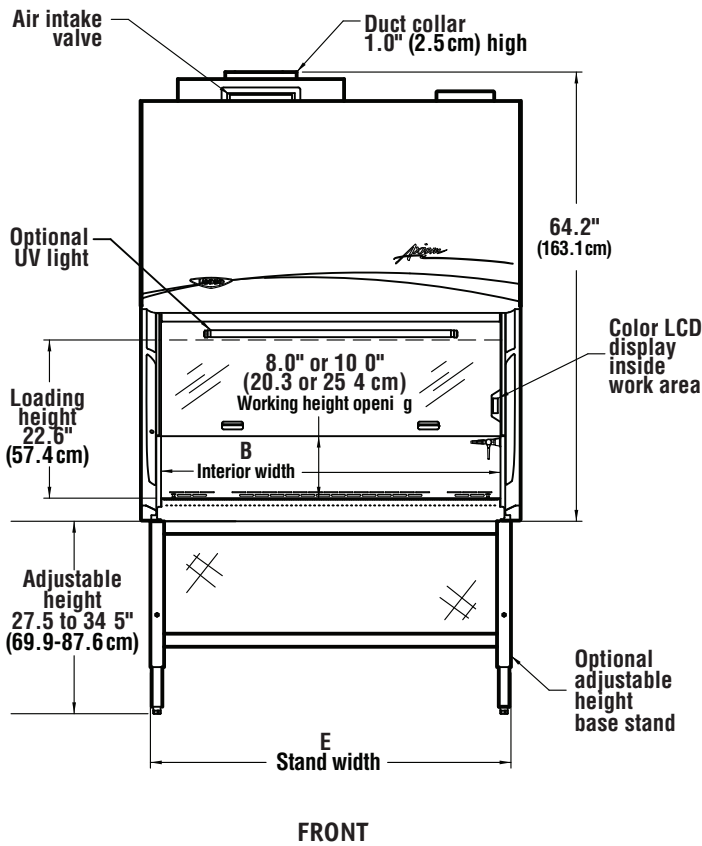
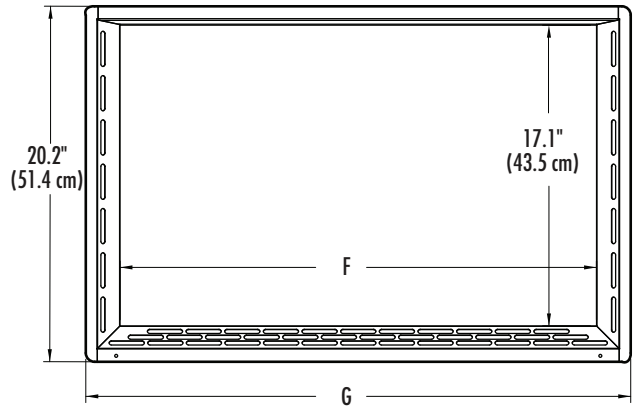
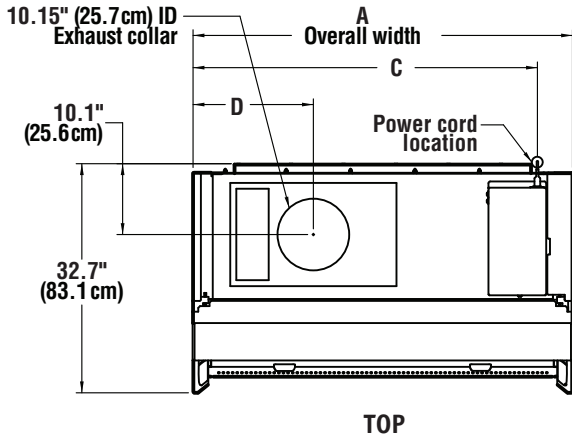
Contact your VWR representative for ordering information on Purifier Axiom Biosafety Cabinets with bag-in/bag-out option.





# PURIFIER® AXIOM™ CLASS II, TYPE C1 BIOSAFETY CABINETS

## Dimensional Data



Nominal Width	A Inches/cm	B Inches/cm	C Inches/cm	D Inches/cm	E Inches/cm	F Inches/cm	G Inches/cm
4'	54.2/137.7	49.5/125.7	49.2/125.0	17.2/43.7	51.5/130.8	27.1/68.9	31.0/78.8
6'	78.2/198.6	72.5/184.2	73.2/185.9	28.2/71.6	75.5/191.8	42.1/107.0	46.0/116.9

# Axiom

## PURIFIER® AXIOM™ CLASS II, TYPE C1 BIOSAFETY CABINETS

### Accessories

#### 89422-828 Inflow and Downflow Sensor Kit

Allows display of inflow and downflow velocities on the LCD information center. Includes sensor, wiring harness and hardware. **Installation and certifier calibration are required.** Contact VWR about factory-installed sensors. Shipping weight 3 lbs. (1 kg)

#### 89422-848 Vacu-Pass™ Cord & Cable Port Kit



Allows passage of a cable through the right-side interior wall to the exterior. With 4 closed-cell neoprene plugs with holes for cords/cables with diameters of 1/8", 1/4", 3/8" and 1/2", and blank plug. NSF-approved port does not disrupt airflow or cause leakage. **Installation is required.** Shipping weight 2 lbs. (1 kg)



#### 46610-764 Service Fixture Kit

Includes serrated hose tip valve with ball valve, quarter turn control handle and hardware. Mounts on left or right side interior. Cabinets are factory-prepared for up to four fixtures: two forward mounted 8.5" above

surface and two back mounted 10" above surface. **Installation is required.** Shipping weight 4 lbs. (2 kg)



#### Ergonomic Chair with Armrests\*

6-way articulating seat and back control for personalized adjustment. Pneumatic mechanism adjusts seat height from 18.25" to 25.75" (46 to 64 cm). Five-leg reinforced composite base with 2" (5 cm) diameter ball-bearing casters. Aluminum support ring. Removable armrests. Black vinyl upholstery. Shipping weight 35 lbs. (16 kg)



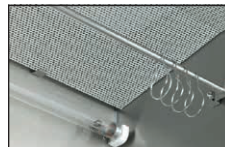
#### Adjustable Footrest\*

Elevates feet and permits angle repositioning while in use. 18.5" w x 11.5" d x 8.0" h (47 x 29 x 20 cm). Shipping weight 6 lbs. (3 kg)



#### 83009-284 Logic Cart

Drawer and compartments provide convenient storage. Top left side compartment with cut-outs and hinged panel that pivots down for loading. High density polyethylene and ABS construction. Overall dimensions: 25.0" w x 19.0" d x 27.0" h (64 x 48 x 69 cm). Shipping weight 50 lbs. (23 kg)



#### IV Bar Kits

Include IV bar, mounting hardware and four hangers. **Installation is required.**

Cat No.	For use with	Shipping Wt.
97007-034	4-Ft models	4 lbs. (2 kg)
97007-030	6-Ft models	6 lbs. (3 kg)

#### Ultraviolet Lamp Kits

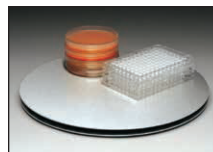
Include 254 nm UV lamp and ballast. **Installation is required.**

Cat. No.	For use with	Shipping Wt.
97007-036	115 Volt models	5 lbs. (2 kg)
97007-038	100 Volt models	5 lbs. (2 kg)
97007-040	230 Volt models	5 lbs. (2 kg)



#### 10127-516 Sash-Glider Kit

For cleaning both sides of the sash while it remains closed, to avoid contamination risks. Includes magnetic blades, 2 microfiber sheets and 10 disposable scrubbing strips. Shipping weight 5 lbs. (2 kg). Replacement strips, Catalog# **10127-518**, package of 25. Shipping weight 2 lbs. (1 kg)



#### 97006-950 Turntable

"Lazy Susan" rotates 360° to bring items within easy reach. Stainless steel surface and ball bearings. 12" (30 cm) diameter. Autoclavable. Shipping weight 5 lbs. (2 kg)



#### 97006-960 Cord Management System

Includes three stainless steel mounting hooks and three carabiners. The hooks mount to the rear grille and the carabiners secure power cords and tubing along the rear wall to keep them contained and away from the work area.

Shipping weight 3 lbs. (1 kg)



#### 97006-952 Interior Shelf

Stainless steel shelf, 8.0" x 5.0" (20 x 13 cm), mounts to rear grille. Weight capacity: 2.2 lbs. (1 kg). Shipping weight 3 lbs. (1 kg)

\*Contact your VWR representative for ordering information.



# PURIFIER® AXIOM™ CLASS II, TYPE C1 BIOSAFETY CABINETS

## Accessories



### Remote Blowers

Required for Type C1 cabinets operated in Type B mode unless house exhaust is used. Phenolic-coated impeller and housing, powder-coated steel base and weather cover, belt-drive motor with adjustable sheave and self-adjusting gravity belt tightener. Contact VWR for dimensions and blowers of other sizes and electrical configurations. Inlet: 10.9" (27.6 cm) ID. Outlet: 5.5" d x 10.0" w (14 x 25 cm). **Require Blower Transition Adapter 82006-958 for connection to 10" diameter duct.**

sions and blowers of other sizes and electrical configurations. Inlet: 10.9" (27.6 cm) ID. Outlet: 5.5" d x 10.0" w (14 x 25 cm). **Require Blower Transition Adapter 82006-958 for connection to 10" diameter duct.**

Cat. No.	For use with	Electrical Requirements	HP	Shipping Weight
82006-740	4-Ft Axiom Biosafety Cabinets	115 volts, 60 Hz, 1 phase, 4.0 amps	1/6	92 lbs. (42 kg)
82006-742	6-Ft Axiom Biosafety Cabinets	115 volts, 60 Hz, 1 phase, 4.4 amps	1/4	92 lbs. (42 kg)



### 82001-060 Air-Tight Damper

Recommended. Mounts atop the duct collar to adjust exhaust airflow and closes for decontamination procedures. Manually adjustable. Type 304 stainless steel. 10" (25.4 cm) high with 10" (25.4 cm) diameter OD inlet and outlet. Shipping weight 13 lbs. (6 kg)

### Flexible Hose Kits

For connection between the Air-Tight Damper (sold separately) and exhaust ductwork to limit vibration from the mechanical system. 10" nominal diameter. Include spiral flexible tubing and clamps.

Cat. No.	Hose Length	Shipping Wt.
30182-500	1' (30.5 cm)	2 lbs. (1 kg)
89422-838	3' (91.4 cm)	5 lbs. (2 kg)
89422-840	6' (182.9 cm)	10 lbs. (5 kg)
89422-842	10' (304.8 cm)	20 lbs. (9 kg)

## TELESCOPING BASE STANDS



### Telescoping Base Stands (non-welded)

Some models of Purifier Axiom Biosafety Cabinets include a Telescoping Base Stand. NSF-Approved (meet NSF Standard for stability and construction).

Support loads up to 1,000 pounds. ADA-compliant. Durable 1.75" tubular, powder-coated steel frame with back panel support. Telescoping legs are adjustable to eight height positions at installation in 1" (2.5 cm) increments to provide a working height from 30" (76 cm) to 37" (94 cm).\* Include a 9" (23 cm) shelf and four fixed leveling feet. Unassembled. May be easily assembled with simple hand tools. The Ordering Information Chart below is provided when purchasing a base stand separately.

\*Height selection and adjustment are required **before** the enclosure is installed on the stand.

### Telescoping Base Stands (non-welded)

Nominal Width	Cat. No.	A	Shipping Weight
4-Ft	89422-852	50.5" (128.3 cm)	125 lbs. (57 kg)
6-Ft	89422-856	74.5" (189.2 cm)	149 lbs. (68 kg)

Comply with height and knee clearance guidelines outlined in ADA Standards for Accessible Design.



### 97010-022 Seismic Bracket Kit

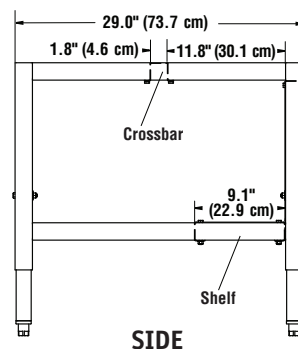
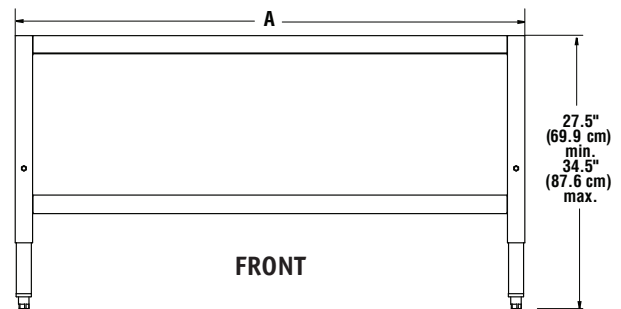
For securing the Telescoping Base Stand to the floor in earthquake-prone regions. Includes four stainless steel seismic brackets and hardware for attachment to the stand. **Hardware to attach to the floor and installation are required.** Shipping weight 10 lbs. (5 kg)



### 89203-038 Caster Kit

For converting Telescoping Base Stands with Fixed Feet to mobile stands. Kit includes four 5" diameter, non-marking polyurethane casters with toe locks. Load rating for each caster is 250 pounds. Casters have bearings for quiet operation. Casters replace the fixed feet included with Telescoping Base Stands. Casters add 11" (28 cm) to the overall depth of the base stand. **Installation is required.\*\*** Casters must be in the locked position when supporting Purifier Axiom Biosafety Cabinets installed in Type B mode. Shipping weight 10 lbs. (5 kg)

\*\* Enclosures supported by mobile Base Stands will require special modifications to incorporate flexible ducting, wiring and plumbing when applied.



Contact your VWR sales representative for ordering information on welded telescoping base stands.





# PURIFIER<sup>®</sup> AXIOM<sup>™</sup> CLASS II, TYPE C1 BIOSAFETY CABINETS

## Hydraulic Lift Stands

These stands have a built-in hydraulic lift so that height may be adjusted at any time. They allow the user to position the stand and the safety cabinet it supports to accommodate persons of different heights and wheelchair-bound users, to transport equipment through doorways, and for easier access to services.

### Standard Features

- Meet NSF Standard for stability and construction
- Support loads up to 1,000 pounds
- ADA-compliant
- Durable 1.75" (4.4 cm) tubular, powder-coated steel frame with rear crossbar supports. Sub-frame has 2.0" (5.1 cm) x 3.0" (7.6 cm) rectangular tubing
- Height is infinitely adjustable from 25.5" (64.8 cm) to 33.5" (85.1 cm) high
- Include four powder-coated, die-cast feet with levelers
- Include front-accessible up/down switch (Electric Lift models)
- Include front-accessible hand crank. Turning the crank clockwise raises the stand; counterclockwise lowers it. The handle may be disengaged and folded under, out of the way, when not in use. (Manual Lift models)
- Shipped fully assembled

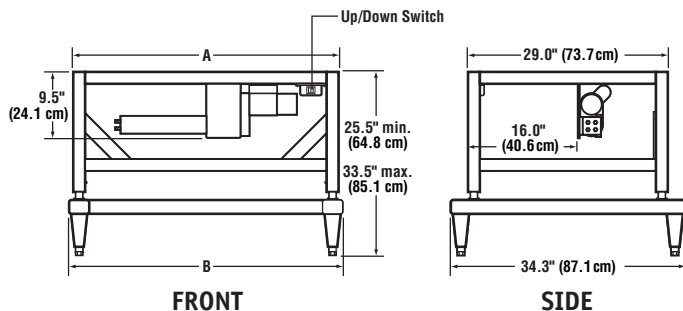


Hydraulic Lift Base Stand 82003-590.

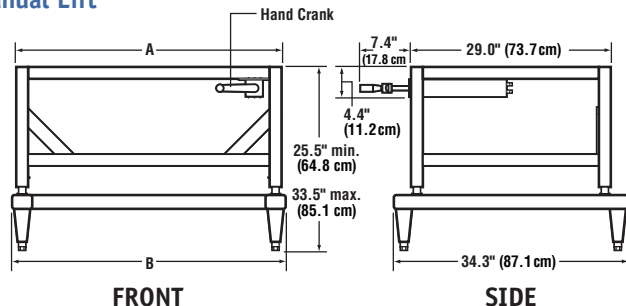
Nominal Width	Cat. No.	Description	Shipping Weight
4-Ft	82003-608	Electric. 115 volts, 60 Hz, 2.4 amps	185 lbs. (84 kg)
4-Ft	82003-614 <sup>†</sup>	Electric. 230 volts, 50/60 Hz, 0.8 amp	185 lbs. (84 kg)
4-Ft	82003-590	Manual	185 lbs. (84 kg)
6-Ft	82003-610	Electric. 115 volts, 60 Hz, 2.4 amps	225 lbs. (102 kg)
6-Ft	82003-616 <sup>†</sup>	Electric. 230 volts, 50/60 Hz, 0.8 amp	225 lbs. (102 kg)
6-Ft	82003-592	Manual	225 lbs. (102 kg)

Catalog Numbers	Nominal Width	A	B
82003-608, 82003-614, 82003-590	4-Ft	50.5"	51.7"
82003-610, 82003-616, 82003-592	6-Ft	74.5"	75.7"

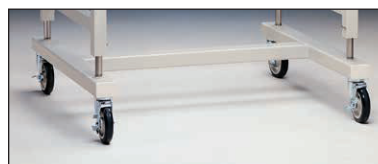
### Electric Lift



### Manual Lift



### Caster Kit 82003-630



For converting Hydraulic Lift Stands to mobile stands. Includes four 5" (13 cm) diameter, non-marking polyurethane casters with toe locks and bearings. Load

rating for each caster is 250 pounds. Casters replace the fixed feet and add 11" (28 cm) to the overall depth of the base stand. **Installation is required.** \*\* Casters must be in the locked position when supporting Purifier Axiom Biosafety Cabinets installed in Type B mode. Shipping weight 10 lbs. (5 kg)

### 97041-770 Support Shelf



Provides a work surface to support remote equipment. Powder-coated steel shelf mounts to left-side tubular frame of base stand. 12.0" w x 22.0" d (26 x 30 cm). **Installation is required.** Shipping weight 23 lbs. (10 kg)

\*\* Enclosures supported by mobile Base Stands will require special modifications to incorporate flexible ducting, wiring and plumbing when applied.

<sup>†</sup> International electrical configuration

Comply with height of controls and receptacles guidelines outlined in ADA Standards for Accessible Design.



# PURIFIER® AXIOM™ CLASS II, TYPE C1 BIOSAFETY CABINETS

## SoLo™ Hydraulic Lift Base Stands

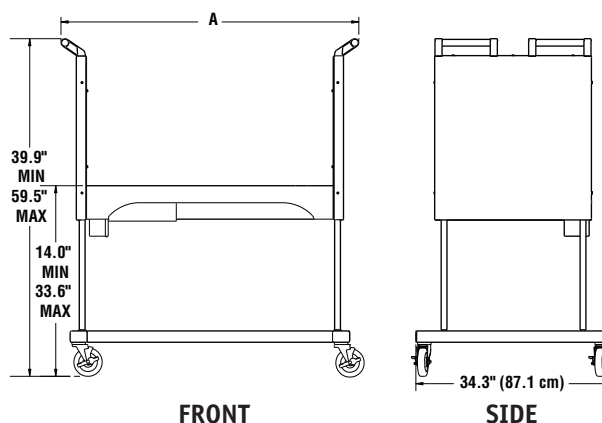
SoLo™ Hydraulic Lift Base Stands are specifically designed to support Purifier Axiom, Logic+ and Cell Logic+ Class II, Type A2 Biosafety Cabinets that are not hard-ducted. The hydraulic lift system permits the stand to be lowered allowing the safety cabinet to be rolled through standard doorways as low as 78" (198 cm) high. Casters provide mobility and lock in place for stability.

### Standard Features

- Meet NSF Standard for stability and construction
- Support any Purifier Axiom Safety Cabinet when installed in Type A mode
- ADA-compliant
- Durable powder-coated steel construction
- Support loads up to 1,300 pounds (590 kg)
- Built-in hydraulic lift is operated by a remote control with buttons for upward and downward movement. Height adjustment positions the enclosure for persons of different statures, wheel-chair bound users, transport through doorways, and easier service access to upper components.
- Infinitely adjustable height provides work surface heights from 17.2" (43.7 cm) to 36.8" (93.5 cm) and overall enclosure height as low as 76.2" (193.5 cm)
- 5" (13 cm) diameter, toe-locking, non-marking polyurethane casters with bearings for quiet operation
- Two handle bars on each side facilitate transport. Bars are durable PVC-coated steel tubes with polyamide brackets.
- Shipped fully assembled



SoLo Hydraulic Lift Base Stand 16-101-177.



Nominal Width	Actual Width (A)	Catalog #	Electrical Requirements	Plug Type	Additional Load Capacity*	Shipping Weight
4-Ft.	65.5"	<b>82013-194</b>	115 volts, 60 Hz, 2 amps	115 volts, 15 amps	600 lbs. (272 kg)	435 lbs. (197 kg)
4-Ft.	65.5"	<b>82013-196</b>	230 volts, 50/60 Hz, 3 amps	North America, 230 volts	600 lbs. (272 kg)	435 lbs. (197 kg)
6-Ft.	89.5"	<b>82013-202</b>	115 volts, 60 Hz, 2 amps	115 volts, 15 amps	350 lbs. (159 kg)	600 lbs. (272 kg)
6-Ft.	89.5"	<b>82013-204</b>	230 volts, 50/60 Hz, 3 amps	North America, 230 volts	350 lbs. (159 kg)	600 lbs. (272 kg)

\*Maximum weight of equipment loaded in safety cabinet or station, excluding weight of the safety cabinet or station.

Comply with height and knee clearance guidelines outlined in ADA Standards for Accessible Design.



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