

REDISHIP Biosafety Cabinets and Fume Hoods



Made in the USA.

 **avantor**
ScienceCentral™

ORDER ON
avantorsciences.com

LABCONCO®

Select the Right Laboratory Ventilation Product

Fume hoods, biological safety cabinets and ventilation enclosures protect you from exposure to airborne contaminants. Selecting the right enclosure depends on your safety requirements for your applications today and in the future. Size requirements help determine the right enclosure and accessories. Consider the following criteria before selecting a fume hood, ventilation enclosure or biological safety cabinet.

1. What contaminants does your application generate?

Chemical fumes and vapors

If your work primarily involves hazardous fumes and vapors, select a Protector® Premier® Laboratory Hood or Protector® XStream® Laboratory Hood. For introductory chemistry, select a Protector® XVS Ventilation Station.

Biohazards or pharmaceutical powders

If your work involves hazardous airborne particulates, select a Logic® Biosafety Cabinet. These cabinets may also be used with minute quantities of volatile chemicals if ducted to the outside. If your work involves weighing hazardous powders, select an XPert® Balance Enclosure or XPert® Filtered Balance System.

2. How much space do you need?

Laboratory space

Space, ceiling height and location in your lab may limit your size selection. The enclosure should be located so that exit from the lab would not be impeded in the event of an emergency. It should be

located away from high pedestrian traffic lanes and supply air vents to avoid airflow cross currents.

Work space

Select the width of your enclosure based on the space required to accommodate the person(s) and apparatus needed to conduct the procedures. OSHA 29 CFR-1910 recommends laboratories provide an average of 2.5 linear feet of hood space per person. Multi-step experiments may require more space.

3. What options and accessories are required?

Once you have narrowed your selection to the type of enclosure and size needed, select the options and accessories required to complete your ventilation system. Optional accessories may include service fixtures, electrical receptacles and airflow monitors. Required accessories are listed below.

The Selection Guide below provides an at-a-glance summary of the biological safety cabinets, fume hoods and ventilation enclosures presented in this brochure.



Logic Biosafety Cabinet



Protector Premier Fume Hood

	Airborne Contaminant Protection	Liner	Nominal Widths	Required Accessories	Pages
Logic Biosafety Cabinets	Biohazardous samples, microorganisms, genetic material, carcinogens	Stainless steel	3', 4', 5', 6'	Supporting base stand only if base stand option is not selected	3-5
Protector Premier Laboratory Fume Hoods	Chemical fumes, vapors	One-piece molded fiberglass	4', 5', 6', 8'	Work Surface, Base Cabinet/Stand, Remote Blower, Ductwork	6-8
Protector XStream Laboratory Fume Hoods	Chemical fumes, vapors	Fiberglass-reinforced composite panels	4', 5', 6', 8'	Work Surface, Base Cabinet/Stand, Remote Blower/Ductwork	9-12

Logic® Class II, Type A2 Biosafety Cabinets

Features & Benefits

The Logic Class II Biosafety Cabinet is designed to handle all types of biological hazards. These Type A2 cabinets provide product, personnel, and environmental protection. The interior of the cabinet provides unidirectional ISO 5 (Grade A) airflow across the work area. Logic cabinets feature 10" sash opening and have a nominal inflow velocity of 105 feet per minute. All Rediship models include a UV lamp, one right-side service fixture, and a Vacu-Pass Cord & Cable Portal. Logic Class II, Type A2 Biosafety Cabinets can be canopy ducted to the outside when minute quantities of chemicals or radionuclides are used. (Canopy kits are sold separately) **To place an order, call VWR at 1-888-624-2432 or visit vwr.com.**

Class II Airflow

Provides Personnel, Product, and Environmental protection from hazardous pathogens and particles.

Type A2

- Approximately 70% Recirculated, 30% Exhausted
- Recirculating or Canopy Ducted

NSF 49 Listed

Each Labconco Class II BSC exceeds globally recognized performance and construction requirements.

Unitized Construction

A welded 304 stainless steel cabinet hull, dished work surface, and solid steel plenum are built to last.

Long-Life HEPA Filters

Dual filters are 99.99+% efficient (at 0.3 microns), providing ISO Class 5 or better air.

Sustainable Design

Each cabinet is constructed with more than 70% recycled materials. An ECM motor and LED lighting consume as little as 150 watts.



Non-Welded Telescoping Base Stand included is constructed of durable 1.75" optic white powder-coated steel. Height of base stands is adjustable from 27.5" to 34.5"

in 1" increments, to provide a working height from 30" to 37". Base stands are ADA* compliant. Some assembly is required.

Inclination Technology

A sloped sash, curved airfoil that functions as armrest, large working area, and eye-level display maximize comfort.

Logic OS

Conveniently displays cabinet information on line-of-sight screen.

ECM Blower

Uses minimal energy, is quieter, and provides constant airflow with CAP™.

Constant Airflow Profile™

Continuously monitors and maintains inflow and downflow to protect users and samples.

Mag-Zone™

Area for easy use of stainless steel Mag-Zone accessories. Easy access to pipettes, pipette aid or biohazardous waste.

Effortless Disinfection

304 stainless steel interior withstands routine disinfection. Coved corners and dished work surface are easily cleanable.

Six year warranty



Contact VWR at 1-888-624-2432 for technical information.

*Americans with Disabilities Act

Logic® Class II, Type A2 Biosafety Cabinets

Features & Benefits

Performance

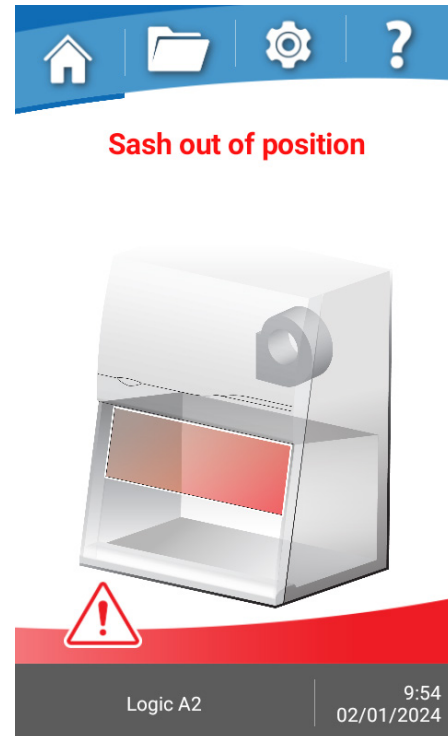
Unique to the **Logic Biosafety Cabinet** is its built-in intelligence to accurately maintain proper airflow, even as the HEPA filters load. Accuracy is achieved with an **Electronically Commutated Motor (ECM)** coupled with Labconco's exclusive **Constant Airflow Profile™ (CAP) Technology**. The result is **increased energy efficiency, quiet operation, and longer filter life**.



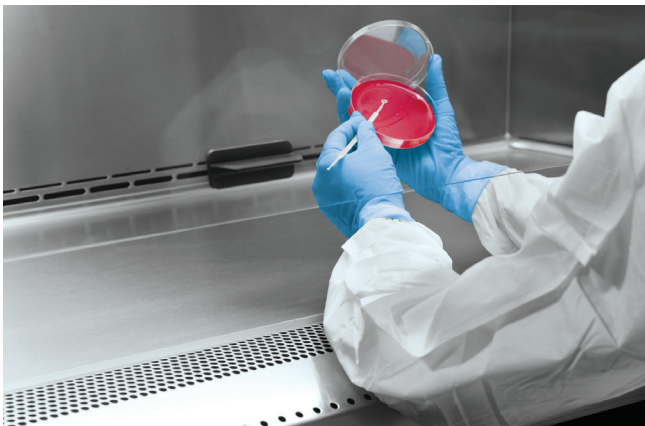
Logic OS tracks cabinet performance, filter life, alerts and alarms, and includes data logging for traceability. Numerous customizable features give users full control of the powerful information center.

Safety

A unique 5" touchscreen display with **Logic™ OS**, located at eye-level in the cabinet, is in constant communication with the cabinet motor and filters. It continuously monitors and displays the cabinet's performance for maximum safety. Mounted on the right interior of the side wall, the display is easy to read and provides user-friendly status updates, alerts and alarms.



Easy-to-understand notifications leave nothing to interpretation. Visual and audible alarms warn of cabinet errors and give intuitive steps for resolution.



Comfort

We have thoughtfully designed every feature to reinforce what humans are inclined to do. We ensured that form follows function and the shape of the human body. Features include an angled sash, which allows closer, more comfortable viewing without glare. Bright LED lighting illuminates the work surface.

Logic® Class II, Type A2 Biosafety Cabinets

Features & Ordering Information



Convenience

All Rediship Logic models come standard with the following features to support a wide variety of applications:

- UV Light
- Vacuum/Gas Service Fixture (One, Right-Side)
- Vacu-Pass™ Cord & Cable Portals (One Per Side)
- Easy-Clean Electrical Duplexes (One Per Side)
- Mag-Zone™ Area
- Telescoping Base Stand (Working Height: 30-37 inches)

Vacu-Pass Cord & Cable Portal



Easy-Clean Electrical Duplexes



Mag-Zone Area

Exclusive to Logic cabinets – this unique organizational area holds a variety of Labconco Mag-Zone accessories that improve storage of pipettes or biohazard waste in the cabinet. The unique magnet-compatible area allows for easy removal of each accessory for easy cleaning and disinfection.

Venting & Stand Accessories

Description	VWR Cat. No.
Ventus™ II Canopy, 3'	77574-560
Ventus II Canopy, 4'	77574-570
Ventus II Canopy, 5'	77574-580
Ventus II Canopy, 6'	77574-590
Caster Kit	77296-234
Seismic Restraint Kit	77296-236

Non-Rediship accessories.

Pipette Rack Mag-Zone accessory shown.

Ordering Information — Logic Rediship Type A2 BSC

Description (Base Stand Included)	Electrical Configuration*	Dimensions (w x d x h)	Shipping Weight	VWR Cat. No. with Base Stand
3' Cabinet with 10" Sash Opening	115V 60 Hz, 15A	42.4" x 32" x 61.9"	585 lbs.	77574-670
4' Cabinet with 10" Sash Opening	115V 60 Hz, 15A	54.4" x 32" x 61.9"	808 lbs.	77574-672
5' Cabinet with 10" Sash Opening	115V 60 Hz, 20A	66.4" x 32" x 61.9"	953 lbs.	77574-674
6' Cabinet with 10" Sash Opening	115V 60 Hz, 20A	78.4" x 32" x 61.9"	1091 lbs.	77574-676

*15A models use NEMA 5-15P plug. 20A models use 5-20P plug.

Protector® Premier® Laboratory Hoods

Features & Benefits

Protector Premier Laboratory Hoods have a sleek interior with a one-piece molded fiberglass liner to handle a broad range of chemical applications. Testing confirms the Protector Premier exceeds the SEFA 1 standard of a high performance fume hood and may be operated as low as 60 fpm. Dished work surfaces with

a left rear corner cutout and oval cupsink with cover fit VWR Contour or Labconco base cabinets and are sold separately. These hoods are for use with a remotely-located blower. See Blower Selection Guide on page 14. For 115V operation.

To place an order, call VWR at 1-888-624-2432 or visit vwr.com.

Front and side panels may be easily removed for lamp replacement and access to electrical supply connections.

By-pass design restricts airflow allowing the hood to operate as a constant air volume (CAV) or variable air volume (VAV) system with no modifications.

High 37.5" sightline from the work surface to the header panel.

LED lighting

illuminates the interior

Pre-wired LED lighting with vapor-proof design is rated for 50,000 hours.

Factory-prepared to accept external vacuum breaker.

Service access panels allow accessibility to plumbing and electrical wiring.

One-piece molded fiberglass reinforced polyester liner gives superior corrosion and chemical resistance, durability and light reflectivity.

Each hood is factory-prepared to accommodate up to 4 service fixtures on each side (sold separately).

Preset baffle requires no adjustment, ensuring safe and rapid fume removal and uniform face velocity.

Performance tested to ASHRAE Standard 110

Upper right fixture panel is factory-prepared to accommodate a Guardian™ Airflow Monitor. Monitor checks the hood's face velocity and alerts the operator to airflow that drops below a preset level. Sold separately. See page 17.



Vertical-rising tempered safety glass sash is anti-racking for smooth operation.

Factory-wired lights and blower switches speed hood installation. Switches are located within easy reach of the operator.

Two 115V, 20A duplex GFCI electrical receptacles, one on each side factory-wired to hood junction box. Hood accommodates up to four duplexes. Additional receptacles need to be wired to hood junction box.

❖ **Ergonomic Eco-Foil™ air foil, with Cord-Keeper™ slots on each side, has patented* Clean-Sweep™ airflow openings** that pull inflow air from under the air foil so that clean room air continually flows into the hood.

ETL-listed

Hoods carry the ETL mark signifying that they are certified to UL Standard 61010-1, UL-1805 and CAN/CSA C22.2 No. 61010.1.



Contact VWR at 1-888-624-2432 for technical information.

Requires work surface, base cabinet, blower and ductwork (sold separately). See pages 8, 15, 16, 26 and 27.

❖ Labconco exclusive feature

*U.S. Patent No. 6,461,233

Protector® Premier® Laboratory Hoods

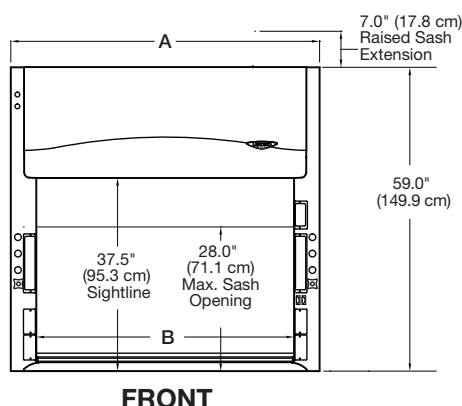
Ordering Information & Dimensional Data

Protector Premier Laboratory Hoods. Hood interior is molded, one-piece, fire-retardant polyester resin. Hood exterior is powder-coated cold-rolled steel. These hoods include a clear, counterbalanced vertical-rising sash, air foil, two GFCI electrical

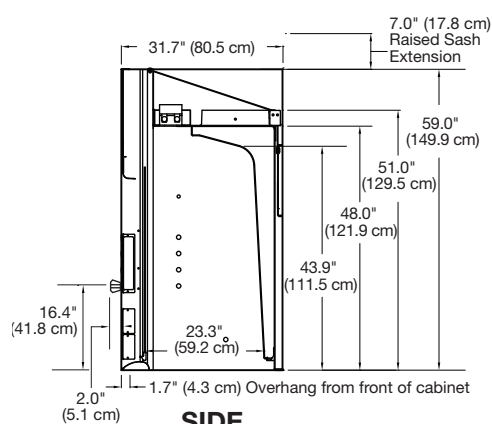
duplexes, vapor-proof LED lights, and light and blower switches. Hood has modified automatic air by-pass system and **requires a remote blower for operation** (see Blowers, pages 14 and 15). Color is glacier white. Hood is delivered fully assembled.

Description	Electrical Configuration	Dimensions (w x d x h)	Exhaust	Shipping Weight	VWR Cat. No.
4' Hood	115V 50/60 Hz, 10A	48.0" x 31.7" x 59.0"	12.8" Exhaust Connection	325 lbs.	89260-050
5' Hood	115V 50/60 Hz, 10A	60.0" x 31.7" x 59.0"	12.8" Exhaust Connection	410 lbs.	89260-052
6' Hood	115V 50/60 Hz, 10A	72.0" x 31.7" x 59.0"	12.8" Exhaust Connection	485 lbs.	89260-054
8' Hood	115V 50/60 Hz, 10A	96.0" x 31.7" x 59.0"	Two 12.8" Exhaust Connections	650 lbs.	89260-056

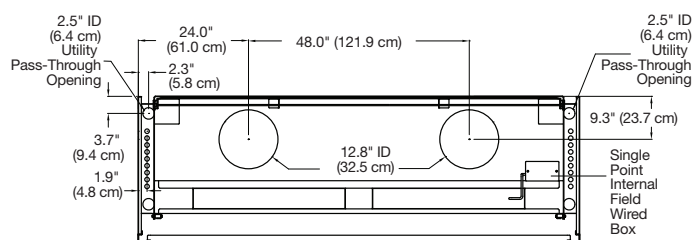
See supporting Base Cabinets on pages 26 and 27.



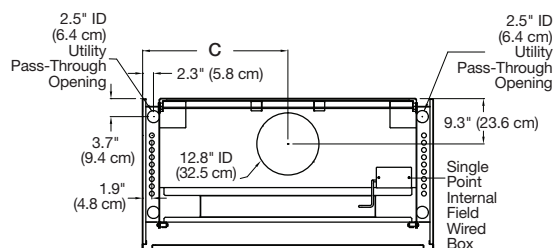
FRONT



SIDE



TOP
(8' Models)



TOP
(4', 5' & 6' Models)

Description	A	B	C
4' Hood	48.0" (121.9 cm)	38.1" (96.8 cm)	24.0" (61.0 cm)
5' Hood	60.0" (152.4 cm)	50.1" (127.3 cm)	30.0" (76.2 cm)
6' Hood	72.0" (182.9 cm)	62.1" (157.7 cm)	36.0" (91.4 cm)
8' Hood	96.0" (243.8 cm)	86.1" (218.7 cm)	—

Protector® Premier® Laboratory Hoods

Airflow Data & Work Surfaces

ASHRAE 110 tests show a 0.00 ppm average leak rate when tested at 4.0 lpm with OSHA-approved 60, 80 and 100 fpm face velocities and sash positions of 18" and 28". To ensure performance at 60 fpm, Labconco engineers challenged the

Protector Premier Hood at less than ideal conditions such as modified ASHRAE test procedures with chest testing at 60 fpm and average face velocities of 50 fpm (not recommended for operation). Contact Labconco for specific ASHRAE test data.

Total Exhaust CFM and Static Pressure @ 18" Sash Opening (62.5% Open)

Nominal Width	100 fpm	SP	80 fpm	SP	60 fpm	SP
4 Feet	450	0.09"	365	0.06"	270	0.03"
5 Feet	595	0.12"	480	0.08"	360	0.04"
6 Feet	735	0.16"	590	0.10"	440	0.06"
8 Feet	1025	0.11"	820	0.07"	615	0.04"

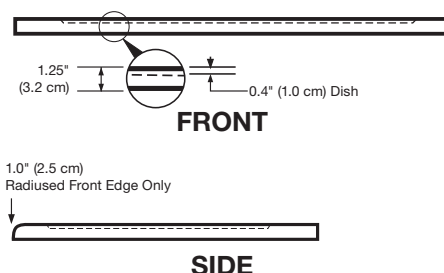
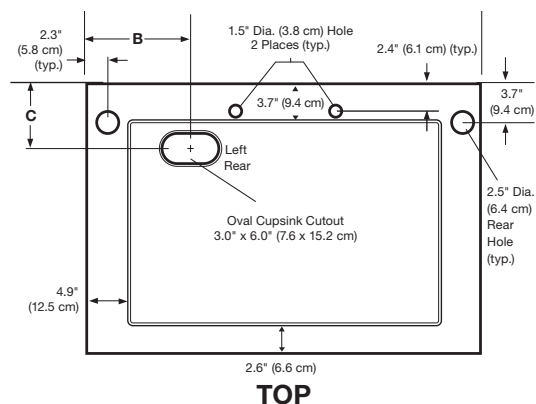
Total Exhaust CFM and Static Pressure @ 28" Sash Opening (100% Open)

Nominal Width	100 fpm	SP	80 fpm	SP	60 fpm	SP
4 Feet	725	0.22"	580	0.14"	435	0.08"
5 Feet	955	0.31"	765	0.20"	575	0.11"
6 Feet	1180	0.41"	945	0.26"	710	0.15"
8 Feet	1640	0.28"	1310	0.18"	985	0.10"

SpillStopper™ Work Surfaces. One-piece work surface molded of a special formulation of epoxy resins that has excellent chemical corrosion resistance. Dished and contoured to conform to the interior liner of the Protector Premier Laboratory Hood to contain

spills. Radiused front edge enhances containment. Includes a 6" x 3" oval cupsink cutout in the left rear corner, cupsink (**requires installation**) and cupsink cover. Fit VWR Contour or Labconco base cabinets.

Description	Dimensions (w x d x h)	Shipping Weight	VWR Cat. No.
4' Work Surface	48.0" x 30.0" x 1.25"	110 lbs.	89260-066
5' Work Surface	60.0" x 30.0" x 1.25"	150 lbs.	89260-068
6' Work Surface	72.0" x 30.0" x 1.25"	205 lbs.	89260-070
8' Work Surface	96.0" x 30.0" x 1.25"	240 lbs.	89260-072



Hood Model	Work Surface Depth	B	C
Premier	30.0" (76.2 cm)	9.5" (24.1 cm)	4.6" (11.7 cm)
XStream	36.0" (91.4 cm)	12.5" (31.8 cm)	10.3" (26.2 cm)

Contact VWR at 1-888-624-2432 for technical information.

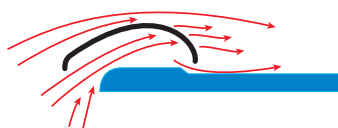
Protector® XStream® Laboratory Hoods

Introduction

With its unsurpassed containment and substantial energy savings potential, the patented* **Protector XStream Fume Hood** delivers high performance that is unmatched in the industry. Features such as the upper dilution air supply, containment-enhancing sash handle, rear downflow dual baffle system and Eco-Foil™ work together to decrease turbulence and enhance containment. In fact, XStream Fume Hoods *exceed* the SEFA 1 definition of a high performance hood. When operated at OSHA-approved 60 fpm face velocity, Protector XStream Laboratory Hoods provide an excellent economic payback when compared to traditional hoods running at 80 or 100 fpm.

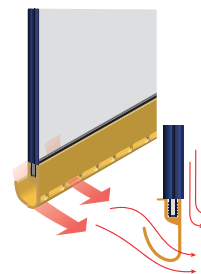
Eco-Foil™ air foil

Reduces energy consumption by 7-10% compared to flat air foils. Its aerodynamic curve allows air to sweep the work surface for maximum containment. Clean-Sweep™ openings pull inflow air from under the air foil forcing air into non-turbulent air streams.

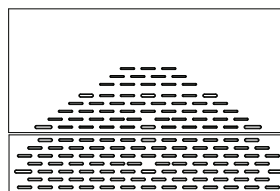


Clean-Sweep™ sash handle

Sash handle includes Clean-Sweep slots to bleed air into the hood chamber and direct chemical fume concentrations away from the user's breathing zone. Slim-line radiused sash handle sweeps airflow into the hood with minimal turbulence.



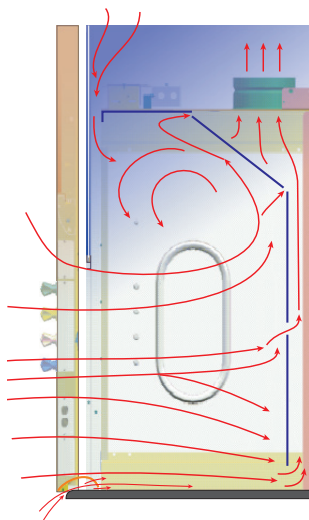
Opti-Zone™ baffle



Decreases the typical face velocity variations found with other baffles. Unique slot pattern and sizes increase velocities in the middle and at the work surface of the hood where it is needed while slowing velocities at the corners.

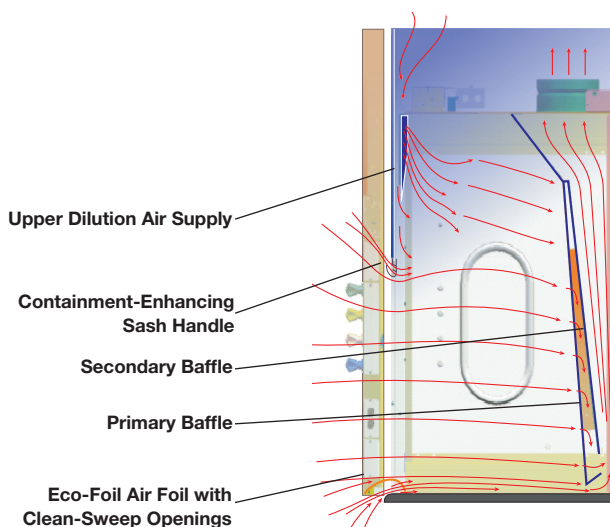
Traditional By-Pass Hood Design

Smoke tests on traditional hoods show the tendency for contaminants generated in the interior to roll forward producing high concentrations of contaminants behind the sash in close proximity to the user's breathing zone.



Protector XStream Hood Design

In contrast, smoke tests on Protector XStream Hoods show contaminants removed in a single pass and a remarkable lack of turbulence. Horizontal air flowing toward the baffle forces contaminants to the rear interior, away from the user. Upper dilution air supply prevents contaminants from concentrating behind the sash.



*U.S. Patent No. 6,461,233

Protector® XStream® Laboratory Hoods

Features & Benefits

Protector XStream Laboratory Hoods offer unsurpassed safety. Testing confirms the Protector XStream exceeds the SEFA 1 standard of a high performance fume hood and may be operated as low as 60 fpm. Dished work surfaces with a left rear corner cutout and oval cupsink with cover fit VWR Contour or Labconco

base cabinets and are sold separately. Fiberglass and Coated Steel Blowers in sizes matched to most installation requirements are also available. See Blower Selection Guide on pages 14 and 15. For 115V operation.

To place an order, call VWR at 1-888-624-2432 or visit vwr.com.

Front and side panels may be easily removed for lamp replacement and access to electrical supply connections.

LED lighting illuminates the interior
Pre-wired LED lighting with vapor-proof design is rated for 50,000 hours.

Factory-prepared to accept external vacuum breaker.

Durable and attractive exterior is glacier white powder-coated steel.

Vertical-rising tempered safety glass sash is anti-racking for smooth operation.

Chemical-resistant fiberglass-reinforced composite panel liner surpasses all national codes for fire retarding abilities and has a bright white surface for excellent light reflectivity. Flame spread less than 25 per ASTM E84.

Service access panels allow accessibility to plumbing from the front and inside of the hood. Panels are factory prepared for up to 4 service fixtures per side (sold separately).

High 37.5" sightline from the work surface to the header panel.

By-pass design restricts airflow allowing the hood to operate as a constant air volume system or a variable air volume (CAV) system with no modifications.

Performance tested to ASHRAE Standard 110

Pre-wired electrical components
LED lights and switches are factory-wired to the hood's single point field wired box.

❖ **Ergonomic Eco-Foil™ air foil, with Cord-Keeper™ slots on each side, has patented* Clean-Sweep™ airflow openings** that pull inflow air from under the air foil so that clean air continually flows into the hood.

Sash stop located at 18" working height maximizes energy conservation by preventing the sash from being raised higher unless manually released.

Two 115V, 20A duplex GFCI electrical receptacles, one on each side factory-wired to hood junction box. Hood accommodates up to four duplexes. Additional receptacles need to be wired to hood junction box.

ETL-listed
Hoods carry the ETL mark signifying that they are certified to UL Standard 61010-1, UL-1805 and CAN/CSA C22.2 No. 61010-1.



Upper right fixture panel is factory-prepared to accommodate a Guardian™ Airflow Monitor. Monitor checks the hood's face velocity and alerts the operator to airflow that drops below a preset level. Sold separately. See page 17 for ordering information.

Contact VWR at 1-888-624-2432 for technical information.

Requires work surface, base cabinet, blower and ductwork (sold separately). See pages 12, 15, 16, 26 and 27.

❖ Labconco exclusive feature

*U.S. Patent No. 6,461,233

Protector® XStream® Laboratory Hoods

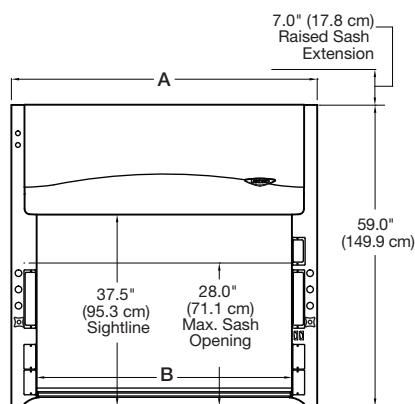
Ordering Information & Dimensional Data

Protector XStream Laboratory Hoods. Hood interior is chemical-resistant, fiberglass-reinforced composite panels. Hood exterior is powder-coated steel. Include a clear, counterbalanced vertical-rising sash, air foil, two GFCI electrical duplexes, two vapor-proof

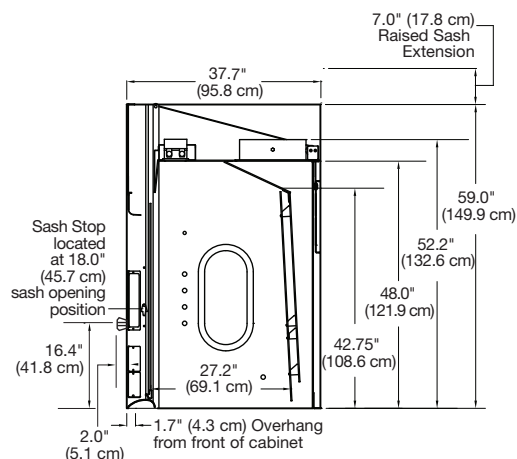
LED lights, and light and blower switches. Hood has upper dilution air supply and **requires a remote blower for operation** (see Blowers, pages 14 and 15). Color is glacier white. Hood is delivered fully assembled.

Description	Electrical Configuration	Dimensions (w x d x h)	Exhaust	Shipping Weight	VWR Cat. No.
4' Hood	115V 50/60 Hz, 10A	48.0" x 37.7" x 59.0"	12.8" Exhaust Connection	440 lbs.	89260-058
5' Hood	115V 50/60 Hz, 10A	60.0" x 37.7" x 59.0"	12.8" Exhaust Connection	525 lbs.	89260-060
6' Hood	115V 50/60 Hz, 10A	72.0" x 37.7" x 59.0"	12.8" Exhaust Connection	600 lbs.	89260-062
8' Hood	115V 50/60 Hz, 10A	96.0" x 37.7" x 59.0"	Two 12.8" Exhaust Connections	770 lbs.	89260-064

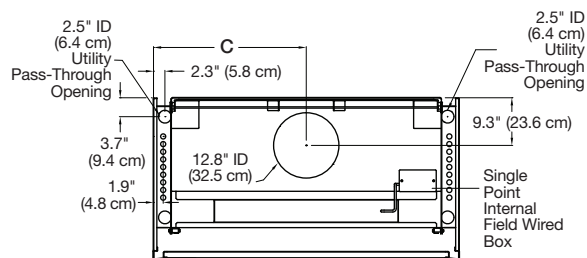
See supporting Base Cabinets on pages 26 and 27.



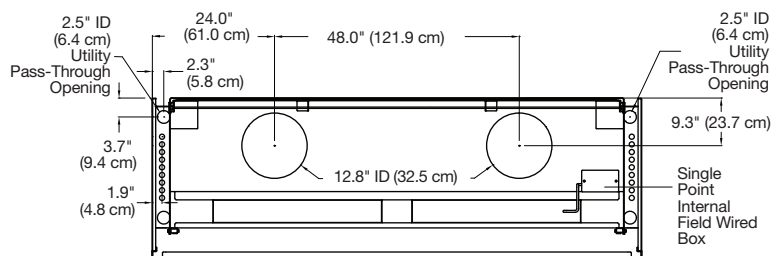
FRONT



SIDE



TOP
(4', 5' & 6' Models)



TOP
(8' Models)

Description	A	B	C
4' Hood	48.0" (121.9 cm)	38.1" (96.8 cm)	24.0" (61.0 cm)
5' Hood	60.0" (152.4 cm)	50.1" (127.3 cm)	30.0" (76.2 cm)
6' Hood	72.0" (182.9 cm)	62.1" (157.7 cm)	36.0" (91.4 cm)
8' Hood	96.0" (243.8 cm)	86.1" (218.7 cm)	—

Protector® XStream® Laboratory Hoods

Airflow Data & Work Surfaces

ASHRAE 110 tests show a 0.00 ppm average leak rate when tested at 4.0 lpm with OSHA-approved 60, 80 and 100 fpm face velocities and sash positions of 18" and 28". To ensure performance at 60 fpm, Labconco engineers challenged the Protector XStream Hood

at less than ideal conditions such as 50 fpm cross drafts, chest testing at 50 fpm, modified ASHRAE and National Institutes of Health (NIH) test procedures and average face velocities of 40 fpm. Contact Labconco for specific ASHRAE test data.

Total Exhaust CFM and Static Pressure @ 18" Sash Opening (62.5% Open)

Nominal Width	100 fpm	SP	80 fpm	SP	60 fpm	SP	CFM Savings at 60 fpm vs. a typical hood at 100 fpm	Total Average Annual Dollar Savings at 60 fpm vs. 100 fpm*
4 Feet	440	0.10"	350	0.06"	265	0.04"	220	\$1,760
5 Feet	580	0.12"	465	0.08"	350	0.05"	310	\$2,480
6 Feet	720	0.16"	575	0.10"	430	0.06"	355	\$2,840
8 Feet	1000	0.11"	800	0.07"	600	0.04"	480	\$3,840

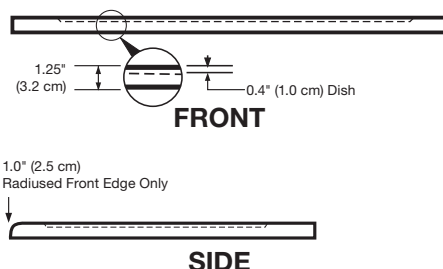
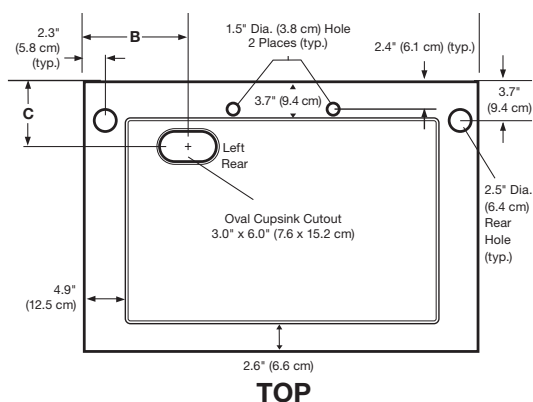
Total Exhaust CFM and Static Pressure @ 28" Sash Opening (100% Open)

Nominal Width	100 fpm	SP	80 fpm	SP	60 fpm	SP	CFM Savings at 60 fpm vs. a typical hood at 100 fpm	Total Average Annual Dollar Savings at 60 fpm vs. 100 fpm*
4 Feet	705	0.26"	565	0.17"	425	0.09"	335	\$2,680
5 Feet	930	0.32"	745	0.20"	560	0.12"	440	\$3,520
6 Feet	1150	0.41"	920	0.26"	690	0.15"	560	\$4,480
8 Feet	1600	0.29"	1280	0.19"	960	0.10"	750	\$6,000

SpillStopper™ Work Surfaces. One-piece work surface is molded of a special formulation of epoxy resins that withstand chemicals. Dished and contoured to conform to the interior liner of the Protector XStream Laboratory Hood to contain spills. Radiused

front edge enhances containment. Include a 6" x 3" oval cupsink cutout in the left rear corner, cupsink (**requires installation**) and cupsink cover. Fit VWR Contour or Labconco base cabinets.

Description	Dimensions (w x d x h)	Shipping Weight	VWR Cat. No.
4' Work Surface	48.0" x 36.0" x 1.25"	120 lbs.	89260-074
5' Work Surface	60.0" x 36.0" x 1.25"	160 lbs.	89260-076
6' Work Surface	72.0" x 36.0" x 1.25"	220 lbs.	89260-078
8' Work Surface	96.0" x 36.0" x 1.25"	250 lbs.	89260-080



Hood Model	Work Surface Depth	B	C
Premier	30.0" (76.2 cm)	9.5" (24.1 cm)	4.6" (11.7 cm)
XStream	36.0" (91.4 cm)	12.5" (31.8 cm)	10.3" (26.2 cm)

*Based on average annual dollars per CFM usage of \$8.00; fume hood operating 24 hours a day and 5 days per week (6240 hours per year).

Protector® Premier® & XStream® Laboratory Hoods

Blowers

Blower Selection Guide

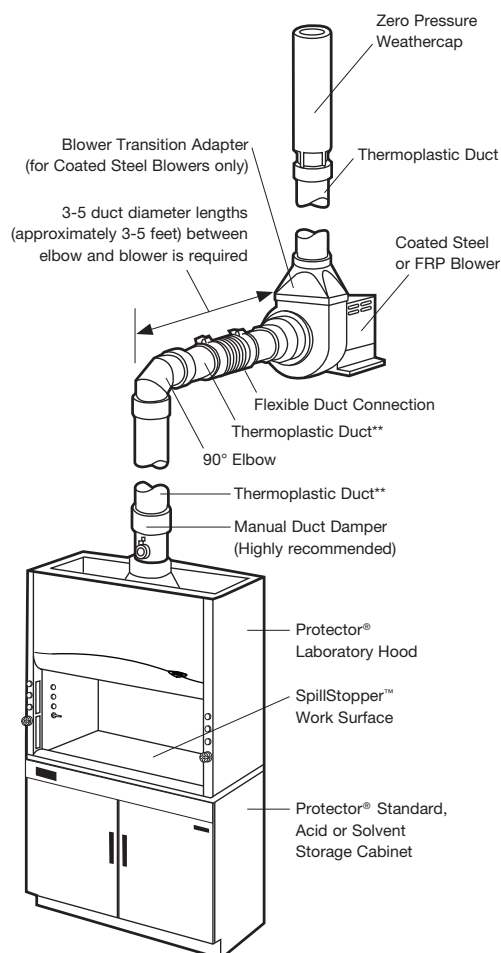
The following chart lists the required airflow for various operating conditions for 4', 5', 6' and 8' Protector Premier and Protector XStream fume hoods. Each of these volumetric rates is correlated to a Spectrum Blower horsepower that is required to provide that

airflow. For more information on Spectrum blower material selection and ordering information, see pages 14 and 15. Contact your VWR Sales Representative for blower recommendations and sizing assistance.

Hood Model VWR Cat. No.	Hood Size	Sash Opening	Face Velocity	Airflow Volume	Required Spectrum Blower Horsepower
Premier 89260-050	4'	100%	100 fpm	725 cfm	1 HP
XStream 89260-058	4'	100%	60 fpm	425 cfm	1 HP
XStream 89260-058	4'	62.5%	60 fpm	265 cfm	1 HP
Premier 89260-052	5'	100%	100 fpm	955 cfm	1 HP
XStream 89260-060	5'	100%	60 fpm	560 cfm	1 HP
XStream 89260-060	5'	62.5%	60 fpm	350 cfm	1 HP
Premier 89260-054	6'	100%	100 fpm	1180 cfm	1 HP
XStream 89260-062	6'	100%	60 fpm	690 cfm	1 HP
XStream 89260-062	6'	62.5%	60 fpm	430 cfm	1 HP
Premier 89260-056	8'	100%	100 fpm	1640 cfm	2 HP

Typical Fume Removal System

This diagram details the many components that are needed to complete a typical fume removal system.



**Minimum of 5 to 15 feet of duct in both locations is recommended for noise reduction.

Spectrum® Exhaust Blowers

Feature Highlights

All models allow for expanded performance capabilities that cover the full spectrum of fume hood exhaust requirements.

1 horsepower models feature an energy efficient Electrically Commutated Motor (ECM). UL Listed.

2 horsepower models feature an energy efficient Variable Frequency Drive (VFD) motor. UL Listed.

FRP models designed with spark resistant construction (AMCA 99 Type A) perfect for applications serving electrically classified hazardous spaces.

Suitable for both new buildings and for replacing existing fans of varying types.

Simple on/off input for switched remote control.



AC Select Switch on 1 horsepower model allows for a single blower to be installed on a 115V or 230V single phase system that also operates on either 50 or 60 Hz.

Blower information output available via RS232 or RS485 signal.

Coated steel models suitable for applications serving Class II Type A2, B2 or C1 Biological Safety Cabinets.

Conforms to ANSI/ASSP Z9.5 for exhaust fans ventilating hazardous materials.

On-board control panel allows 3 input options for RPM selection. A potentiometer for at-blower control, 0-10V or 4-20 mA signal for control via building management system.

On-board screen displays blower status, alarm, RPM, temperature, and input selection indicators for at-a-glance status verification.

Materials of construction Fiberglass Reinforced Polyester (FRP) and Coated steel construction available for a wide range of applications.

Blower on/off dry contact for remote blower status notification.

Rediship Spectrum Exhaust Blower Part Numbers

VWR Part Number	Labconco Part Number	Horsepower	Duct Size	Materials of Construction
77296-332	17725010010814	1	12"	Coated Steel
77296-330	17705110010814	1	10"	Fiberglass Reinforced Polyester
77296-334	17725110010814	1	12"	Fiberglass Reinforced Polyester
77296-336	17725120010814	2	12"	Fiberglass Reinforced Polyester

Spectrum® Exhaust Blowers

Feature Highlights

Spectrum Exhaust Blower



Connectivity

The Spectrum blower features an on-board control panel to streamline the setup process. RPM can be set by selecting one of three inputs. An installer can simply use the potentiometer right on the board, or a signal can be sent from the building management system (BMS) via 0-10V or 4-20 mA. In addition to receiving a signal, the Spectrum can output data to a BMS via RS232 or RS485 for seamless integration.

Alarm Output

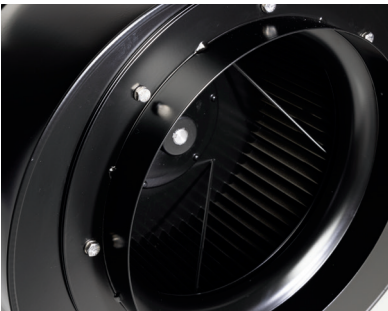
The Spectrum blower features a status indicator in the on-board display. Whether it is functioning perfectly or is experiencing an error, the display will relay this information via an indicator code. Troubleshooting these exhaust fans becomes simple as the various error codes help identify potential causes to get your lab up and running in a timely manner. This code can also be communicated to your BMS so remote monitoring is a breeze.

Dual-Voltage Readiness

The 1 horsepower Spectrum blower comes prepared to operate on either 115V or 230V (single phase) systems for ease of selection. The blower comes factory set to 230V and can change to 115V by a flip of the AC Select switch featured on the blower interior. 2 horsepower Spectrum blowers come in 230V Single or Three phase and feature an efficient VFD motor.

Materials of Construction

Redship blowers are available in the listed materials of construction. Use the chart below to verify that the material is appropriate for the application. The material of the fume hood liner is a good indicator for compatible blower material.



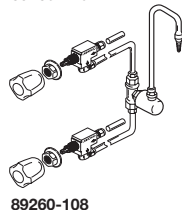
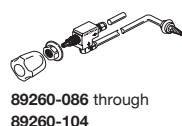
	Coated Steel	Fiberglass Reinforced Polyester
Corrosive Chemical Resistance	Mildly Resistant	Highly Resistant
Solvent Resistance	Resistant	Highly Resistant
Impeller Material	Phenolic Coated	Polypropylene
Spark Resistant Construction	No	Standard

Protector® Premier® & XStream® Laboratory Hoods

Accessories

Service Fixture Kits, Electrical Receptacle Kits and Guardian Airflow Monitor Kits are available in REDISHIP inventory for your convenience in customizing a hood to fit your specific needs.

Service Fixture Kits for Protector Premier and XStream Laboratory Hoods



Description	Knob Color	Valve	Tubing	Shipping Weight	VWR Cat. No.
Cold Water Service Fixture Kit (CW)	Green	1/4" Brass	Copper	4.0 lbs.	89260-086
Vacuum Service Fixture Kit (VAC)	Yellow	1/4" Brass	Copper	4.0 lbs.	89260-090
Air Service Fixture Kit (AIR)	Orange	1/4" Brass	Copper	4.0 lbs.	89260-088
Nitrogen Service Fixture Kit (NIT)	Brown	1/4" Brass	Copper	4.0 lbs.	89260-102
Steam Service Fixture Kit (STM)	Black	1/4" Brass	Copper	4.0 lbs.	89260-100
Hot Water Service Fixture Kit (HW)	Red	1/4" Brass	Copper	4.0 lbs.	89260-096
Argon Service Fixture Kit (ARG)	Gray	1/4" Brass	Copper	4.0 lbs.	89260-094
Gas Service Fixture Kit (GAS)	Blue	1/4" Brass	Brass	4.0 lbs.	89260-092
Deionized/Distilled Water Service Fixture Kit (DW)	White	1/4" Stainless	Stainless	4.0 lbs.	89260-098
Oxygen Service Fixture Kit (OXY)	Light Green	1/4" Brass	Copper	4.0 lbs.	89260-104
Cold Water Gooseneck Faucet Kit with green powder-coated brass rigid/swivel gooseneck (CW)	Green	3/8" Brass	Copper	10 lbs.	89260-106
Cold Water Gooseneck Faucet Kit with gray PVC rigid gooseneck (CW)	Green	3/8" Brass	Copper	10 lbs.	89260-112
Deionized/Distilled Water Faucet Kit with gray PVC rigid gooseneck (DW)	White	1/4" Stainless	Stainless	10 lbs.	89260-110
Hot/Cold Mixing Gooseneck Faucet Kit with white powder-coated brass rigid/swivel gooseneck	Red/Green	2 each, 1/4" Brass	Copper	11 lbs.	89260-108

Electrical Receptacle Kits for Protector Premier and XStream Laboratory Hoods



Description	Volts	Hz	Amps	Shipping Weight	VWR Cat. No.
Duplex Receptacle Kit (includes wires)	115	60	20	4.0 lbs.	89260-114
GFCI Duplex Receptacle Kit (includes wires)	115	60	20	4.0 lbs.	89260-116
Duplex Receptacle Kit (includes wires)	230	60	20	4.0 lbs.	89260-118

Guardian™ Airflow Monitor Kits for Protector Premier and XStream Laboratory Hoods

Airflow monitors include face plate with circuit board, electrical power pack, probe, vinyl tubing and wiring connections. For 115V, 50/60 Hz operation. **Installation is required.**



Description	Shipping Weight	VWR Cat. No.
Guardian Airflow Monitor Kit , monitors and alerts operator to low airflow conditions	6.0 lbs.	89260-082
Guardian Digital Airflow Monitor Kit , provides digital display of face velocity, audible alarm	6.0 lbs.	89260-084

NOTE: Airflow monitors for Protector XVS Stations are also available. See page 25.

Protector® Storage Cabinets

Standard and Acid Cabinet Specifications

Supporting Base Cabinets for Protector Premier and XStream Laboratory Hoods

See information about Protector Acid, Solvent and Standard Storage Cabinets on pages 26 and 27.

Protector Storage Cabinets support laboratory hoods, ventilation stations and balance enclosures. These durable steel cabinets have attractive glacier white exteriors, which complement laboratory casework. All cabinets can support loads up to 800 pounds and include four leveling feet and one 8" filler panel to

increase cabinet depth from 22" to 30". Two 30" cabinets are needed for a 5' wide hood, two 36" cabinets are needed for a 6' wide hood and two 48" cabinets are needed for an 8' wide hood. **To place an order, call VWR at 1-888-624-2432 or visit vwr.com.**



Protector Standard Storage Cabinet 46610-478



Protector Acid Storage Cabinet 46610-464

Protector Standard Storage Cabinets. May be used for storage of small laboratory instruments and supplies. Versatile and support all Labconco benchtop fume hoods. **A work surface is required (not included).**

All REDISHIP models feature:

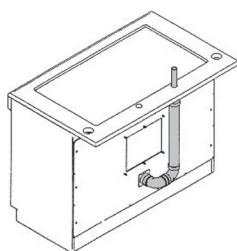
- Durable powder-coated steel construction
- Dual manual-closing, non-locking doors
- Work surface and interior shelf kits are sold separately through VWR

Protector Acid Storage Cabinets. Safely store and vent acids and other corrosive liquids. Versatile and support all Labconco benchtop fume hoods. **A work surface is required (not included).**

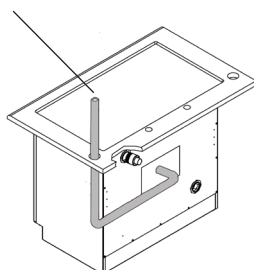
All REDISHIP models feature:

- Durable powder-coated steel construction
- Vacuum-formed PVC liner tray
- Two rear vent connection cutouts included for venting the cabinet to a fume hood (Vent Kit 15202-504 sold separately)
- Corrosion-resistant polyethylene-lined interior
- Dual manual-closing, non-locking doors
- Work surface and interior shelf kits are sold separately through VWR

Must connect to negatively pressured duct



Vent Kit for Acid Storage Cabinet 15202-504*



Vent Kit for Solvent Cabinet 89033-090*

Contact VWR at 1-888-624-2432 for additional sizes and models.

*Vent Kits are for use with fume hood SpillStopper Work Surfaces only.

*Not available in Canada.

Protector® Storage Cabinets

Solvent Cabinet Specifications & Ordering Information



Protector Solvent Storage Cabinet 46610-458

Protector Solvent Storage Cabinets. Safely store and vent solvents and other flammable liquids. These cabinets are available with dual manual-closing, non-locking doors or automatic, self-closing doors. Versatile and support all Labconco benchtop fume hoods. **A work surface is required (not included).**

All REDISHIP models feature:

- Durable powder-coated steel construction
- Dual-wall construction with 1.5" air gap
- Two rear vent connection cutouts with flame arrestors and closure plugs
- Dual doors
- Key lock included. Doors are manual-closing or self-closing/self-latching with sequencing mechanism. Self-closing doors close automatically in case of fire when temperature reaches 165° F (74° C)
- Work surface is sold separately through VWR

Protector Storage Cabinets

Description	Dimensions (w x d x h)	Shipping Weight	VWR Cat. No.
30" Standard Storage Cabinet with manual-closing doors	30.0" x 22.0" x 35.5" to 36.75"	130 lbs.	46610-462
36" Standard Storage Cabinet with manual-closing doors	36.0" x 22.0" x 35.5" to 36.75"	135 lbs.	46610-470
48" Standard Storage Cabinet with manual-closing doors	48.0" x 22.0" x 35.5" to 36.75"	150 lbs.	46610-478
30" Acid Storage Cabinet with manual-closing doors	30.0" x 22.0" x 35.5" to 36.75"	145 lbs.	46610-456
36" Acid Storage Cabinet with manual-closing doors	36.0" x 22.0" x 35.5" to 36.75"	155 lbs.	46610-464
48" Acid Storage Cabinet with manual-closing doors	48.0" x 22.0" x 35.5" to 36.75"	170 lbs.	46610-472
30" Solvent Storage Cabinet with manual-closing doors	30.0" x 22.0" x 35.5" to 36.75"	195 lbs.	46610-458*
36" Solvent Storage Cabinet with manual-closing doors	36.0" x 22.0" x 35.5" to 36.75"	205 lbs.	46610-466*
48" Solvent Storage Cabinet with manual-closing doors	48.0" x 22.0" x 35.5" to 36.75"	250 lbs.	46610-474*
30" Solvent Storage Cabinet with self-closing doors	30.0" x 22.0" x 35.5" to 36.75"	215 lbs.	46610-460*
36" Solvent Storage Cabinet with self-closing doors	36.0" x 22.0" x 35.5" to 36.75"	225 lbs.	46610-468*
48" Solvent Storage Cabinet with self-closing doors	48.0" x 22.0" x 35.5" to 36.75"	280 lbs.	46610-476*
Vent Kit , for use with Acid Storage Cabinets		5.0 lbs.	15202-504
Vent Kit , for use with Solvent Storage Cabinets		5.0 lbs.	89033-090**
Filler Panel , 8" deep	8.0" d x 35.1" h	10 lbs.	89238-200
Filler Panel , 14" deep	14.0" d x 35.1" h	13 lbs.	89238-198

Contact VWR at 1-888-624-2432 for additional sizes and models.

*Factory Mutual Approved

**Not available in Canada.

Notes

VWR Furniture

Designed. Delivered. Installed.

About VWR Furniture

Building a new lab? Renovating an existing one? The VWR Furniture team can support you before, during and after your installation by offering:

- Comprehensive lab planning assistance
- Complete project supervision from proposal through final installation
- Choice offerings of quality lab furniture and components

Our commitment begins with our team of experienced sales and support staff. This group of professionals is dedicated to supplying original, innovative solutions — on time and within budget.

VWR Furniture Specialists

Working in coordination with your VWR sales representative, these factory-trained specialists select the most functional and cost-effective solutions for your lab, and oversee the design-to-install process. Call 1-888-624-2432 to identify your VWR Furniture Specialist.

VWR Furniture Project Estimators

Members of this professionally trained team are available to assist you in identifying your laboratory furniture requirements. Estimators will guide you with value-engineering your project to meet your budget needs. From designed to delivered to installed, they can estimate your cost.

VWR Furniture Design Specialists

Using the latest Computer Aided Design (CAD) software, VWR's Laboratory Designers create lab plans to your specifications that maximize space usage and comply with all established safety guidelines.

VWR Furniture Project Coordinators

They will oversee every detail of your job from start to finish. Once your lab is planned, one of the Project Coordinators will manage the ordering, shipping and final installation, handling all project details to your complete satisfaction.

VWR Furniture Installers

Professional, factory-trained installers deliver quality installations on time. Their thorough knowledge of our furniture components and extensive experience assure a fast, trouble-free finish to your project.

So whether you are renovating an existing lab or planning a new one, the VWR Furniture team can help. Call your VWR Furniture Specialist or the VWR Furniture team (1-888-624-2432) today to get started.

VWR Contour Steel Laboratory Furniture is a fresh, clean look for the laboratory.

Aesthetically pleasing and extremely durable, Contour features a full-radius integral pull design on the door and drawer fronts. All the components necessary to build a lab are available through VWR.



 **avantor**
ScienceCentral™

avantorsciences.com

Any prices, product, and/or services details are current when published and subject to change. Offers subject to product availability. Void where prohibited by law or company policy. Any claims concerning products manufactured by third parties are the sole claims of the manufacturer and not those of Avantor or its affiliates. All products are subject to the terms and conditions of sale of Avantor or its affiliates, including the applicable limitations of liability contained therein. The information herein should not be considered a warranty of any kind. Please carefully review any product information sheets and safety information for the product. Trademarks are owned by Avantor, Inc. or its affiliates, unless otherwise noted. | Visit vwr.com avantorsciences.com to view our privacy policy and additional disclaimers. © 2025 Avantor, Inc. All rights reserved.



0225 Lit. No. 120103WREV