



PROTECTOR[®] *Demonstration Hoods*






Protector® Demonstration Hoods



Protector Demonstration Hood System 3945001.

- Tempered safety glass front sash, sides, rear baffle and top offer excellent 360° visibility, ambient light and protection. Glass provides better fire, scratch and corrosion resistance than acrylic.
- 8" high sash opening limits exhaust demand, conserves costly tempered room air and requires a smaller remote blower than most fume hoods. Tall models, 32.0" high, have a 10" high sash opening.

 Ergonomic angled sash allows a closer view, reduces glare and provides a more comfortable operating position than vertical sashes. Models, 22.8" high, have a 20° angle; models, 32.0" high, have a 14° angle. The hinged sash pivots upward and locks to a loading height of 20.0" or 29.3" depending on the model.

- Lower exhaust tissue screen.
- Two utility ports with iris openings allow passage of tubing, electrical cords and interface cables from inside to back exterior for connection to services.
- Flexible exhaust options. 2" x 10" rectangular exhaust collars on the top and bottom allow the Protector Demonstration Hood to be connected to ductwork for exhausting to the outside or to a FilterMate™ Portable Exhauster for filtered removal of fumes and/or particulates. Using the bottom exhaust collar keeps ductwork hidden, maximizing room visibility.

All models conform to the following regulations and standards:

- SEFA 1-2002
- Modified ASHRAE 110-1995
- ANSI Z9.5-1993
- UL 3101-1/61010-1 (115 volt models)
- CAN/CSA C22.2 No. 1010.1 (115 volt models)
- CE Conformity Marking (230 volt models)

System Models 3945000, 3945001, 3945020 & 3545021 also include:

- Cart of glacier white epoxy-coated tubular steel with black 1" thick solid epoxy dished work surface, handle bar, bottom shelf and 4" diameter toe-locking casters.
- FilterMate Portable Exhauster designed for use with two Carbon Filters or one Carbon Filter and one HEPA Filters (Filters are not included. See back for ordering information.) Includes 8 feet of 5" ID flexible gray polypropylene hose, two clamps, a 4.88" OD Lower Transition Adapter for connection to the bottom of the Protector Demonstration Hood, and an IEC 3-wire electrical cord with plug.

Models 3944300 & 3944301 require:

- **Connection to a remote blower, house exhaust or FilterMate Portable Exhauster.** See back page for Remote Blowers. Contact Labconco for ordering information on ductwork, hoses and FilterMate Portable Exhausters.
- **Work surface and supporting base.** See back page for Work Surface and Cart. Contact Labconco for ordering information on Telescoping Base Stands and Storage Cabinets.

Accessories include (see back):






- Guardian™ 1000 Digital or Guardian™ Jr. Airflow Monitor with low voltage electrical cord, power pack and plug.
- Fluorescent Lights for installation atop the Enclosure for enhanced illumination of the interior. Include auxiliary electrical receptacle with switch.
- Transition Adapters for connecting ductwork routed either up or down.
- Exhaust Dampers to allow adjustment to the airflow.

 Exclusive feature

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

Protector Demonstration Hoods are low profile, light-duty fume hoods designed to provide close observation of procedures during educational demonstrations.

All models feature:

-  Deep 23" interior easily accommodates a variety of apparatus.
-  Patented* Clean-Sweep™ air foil allows air to sweep the work surface for maximum containment. Airflow openings pull inflow air from under the air foil so that clean air continually flows through the air foil creating a constant barrier of protection from contaminants.
-  Upper containment sash foil bleeds air into the enclosure to direct concentrations of contaminants away from the operator's breathing zone.
-  Upper dilution air supply introduces room air at the top of the sash to dilute concentrations in the upper chamber and bathes the back of the sash with clean air.
- Clear rear baffle directs air streams to the back of the interior for removal through the exhaust connection. The baffle may be pivoted downward for cleaning.
-  Side-entry air foils allow air to sweep across the interior glass surfaces to enhance containment.
- Sturdy glacier white and gray, dry powder epoxy-coated aluminum frame.

Nominal Width	Overall Height	Sash Opening Height	Total Exhaust CFM and Static Pressure					
			100 fpm	S.P.	80 fpm	S.P.	60 fpm	S.P.
3 Feet	22.8"	8"	185	.10"	145	.06"	110	.04"
3 Feet	32.0"	10"	230**	.15"	185	.10"	140	.06"

** FilterMate Portable Exhauster with two filters provides 220 CFM and with single filter provides 270 CFM.



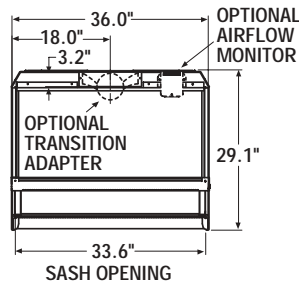
Ordering Information & Dimensional Data

Protector® Demonstration Hoods

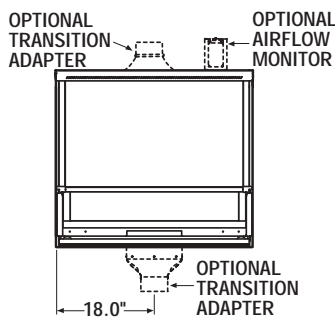
Nominal Width	Catalog Number	Electrical Requirements	Enclosure Height	Shipping Weight lbs./kg
Protector Demonstration Hoods				
3 Feet	3944300	not applicable	22.8"	75/34
3 Feet	3944301	not applicable	32.0"	85/39
Protector Demonstration Hood Systems - include Cart with Work Surface, Lower Transition Adapter and FilterMate Portable Exhauster for use with two Carbon Filters or one Carbon Filter and one HEPA Filter in any combination*				
3 Feet	3945000	115 volts, 60 Hz, 10 amps	22.8"	125/57
3 Feet	3945001	115 volts, 60 Hz, 10 amps	32.0"	135/61
3 Feet	3945020**	230 volts, 50/60 Hz, 5 amps	22.8"	125/57
3 Feet	3945021**	230 volts, 50/60 Hz, 5 amps	32.0"	135/61

* Filters are required but not included. See back page for ordering information.

** International electrical configuration

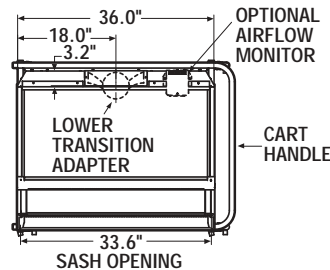


TOP
(3944300 & 3944301)

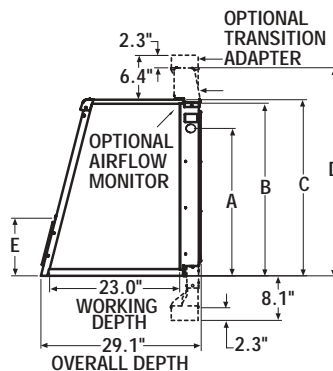


FRONT
(3944300 & 3944301)

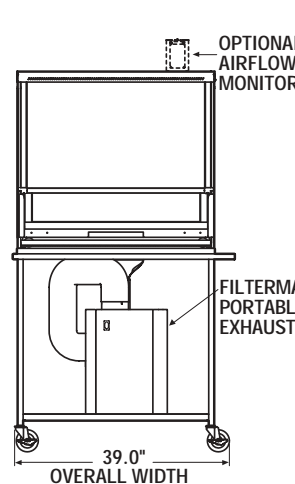
	3944300, 3945000 & 3945020	3944301, 3945001 & 3945021
A	20.0" LOADING HEIGHT	29.3" LOADING HEIGHT
B	22.3" INTERIOR HEIGHT	31.6" INTERIOR HEIGHT
C	22.8" ENCLOSURE HEIGHT	32.0" ENCLOSURE HEIGHT
D	28.6" HEIGHT W/ MONITOR	37.9" HEIGHT W/ MONITOR
E	8.0" SASH OPENING	10.0" SASH OPENING
F	58.8" HEIGHT W/ CART	68.0" HEIGHT W/ CART
G	64.6" HEIGHT W/ CART & MONITOR	73.9" HEIGHT W/ CART & MONITOR



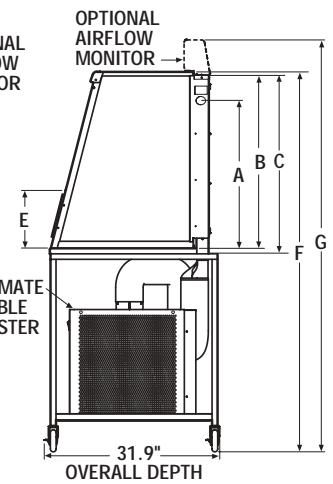
TOP
(3945000, 3945001,
3945020 & 3945021)



SIDE
(3944300 & 3944301)



FRONT
(3945000, 3945001,
3945020 & 3945021)



SIDE
(3945000, 3945001,
3945020 & 3945021)



Accessories

Protector® Demonstration Hoods

Remote Blowers

A remote blower or house exhaust is required for Protector Demonstration Hoods 3944300 and 3944301 (unless connected to the FilterMate Portable Exhauster). 1/4 hp direct drive motor. Corrosion-resistant phenolic-coated steel housing and wheel. Blower inlet is 5.94" OD. Outlet dimensions are 4.25" x 7.38" OD.

CFM @ Static Pressure - Inches of H ₂ O						
S.P.	0.0"	0.125"	0.25"	0.50"	0.75"	0.87"
CFM	595	560	515	420	300	167

Catalog #	Description	Shipping Wt. lbs./kg
4863500	Remote Blower, 115 volts, 60 Hz, 4.4 amps	35/16
4863501*	Remote Blower, 115/230 volts, 50 Hz, 5.6/2.8 amps	35/16
7053501	Explosion-Proof Remote Blower, 115 volts, 60 Hz, 4.4 amps	40/18

FilterMate™ Filters and Accessories

Two Carbon Filters or one Carbon Filter and one HEPA Filter, in any combination, are required for the FilterMate Portable Exhauster included with Protector Demonstration Hood Systems. Determining if the FilterMate would be appropriate for your application requires consideration of factors such as the time-weighted exposure limits of your materials. Using Labconco's exclusive Chemical Assessment Program, our technical specialists can help determine if the Protector Demonstration Hood System is right for your application and, if so, estimate filter life. To begin the process, please complete the Chemical Usage Assessment Form available on our website at: www.labconco.com/chemical_usage.html.

Catalog #	Description	Shipping Wt. lbs./kg
3923400	Organic Carbon Filter, Type AC. Contains 12 pounds of granular activated carbon media suitable for organic solvents including acetone, ethyl acetate, toluene and xylene.	13/5.9
3923401	Formaldehyde Carbon Filter, Type CI. Contains 14 pounds of impregnated carbon media suitable for vapors from formaldehyde.	17/7.7
3923402	Ammonia Carbon Filter, Type CX. Contains 16 pounds of impregnated carbon media suitable for ammonia and low molecular weight amines.	21/9.5
3707900	HEPA Filter, 99.99% efficient on particles 0.3 micron in size. Not for use with biohazardous or volatile organic material.	17/7.7
3776002	HEPA Filter Bag-In/Bag-Out Bag	10/4.5
1968800	Orange Cinching Strap for Bag-In Bag-Out Bag	1/4.5
6924900	Syringe Kit for carbon saturation detection	1/4.5
6926000	Formaldehyde Detector Tubes, package of 3	1/4.5
6925700	Ammonia Detector Tubes, package of 3	1/4.5

3908401 Solid Epoxy Work Surface

Black, chemical-resistant. Dished to contain spills. 36" w x 26.7" d x 1" thick. Shipping weight 72 lbs. (33 kg)

8026000 Cart for Protector Demonstration Hoods

Glacier white epoxy-coated tubular steel with black 1" thick solid epoxy dished work surface, handle bar, bottom shelf and 4" diameter toe-locking casters. Supports loads up to 400 pounds. Cart is included with Protector Demonstration Hood Systems 3945000, 3945001, 3945020 and 3945021. 50 lbs. (23 kg)

Guardian™ 1000 Digital Airflow Monitors

See dimensional drawing on page 3 for mounting location. Include face plate with circuit board, electrical power pack, vinyl tubing, flow tube adapter and glacier white epoxy-coated steel casing. From the monitor's face plate, the user can easily select and calibrate a low flow setpoint between 30 and 250 fpm using a velocity meter. An LCD displays actual face velocity. Low flow audible/visual alarm.

Catalog #	Description	Shipping Wt. lbs./kg
3908802	For 115 volts, 60 Hz operation	10/4.5
3908803*	For 230 volts, 50 Hz operation	10/4.5

Guardian™ Jr. Airflow Monitors

See dimensional drawing on page 3 for mounting location. Include face plate with circuit board, electrical power pack, vinyl tubing, stem tube adapter and glacier white epoxy-coated steel casing. From the monitor's face plate, the user can easily select and calibrate a low flow setpoint using a velocity meter and a screwdriver. Low flow audible/visual alarm.

Catalog #	Description	Shipping Wt. lbs./kg
3908702	For 115 volts, 60 Hz operation	10/4.5
3908703*	For 230 volts, 50 Hz operation	10/4.5

Fluorescent Lights

Rest atop the enclosure to provide illumination of the interior. Include auxiliary electrical receptacle with switch.

Catalog #	Description	Shipping Wt. lbs./kg
3909200	For 115 volts, 60 Hz, 10 amp operation	15/6.8
3909201*	For 230 volts, 50 Hz, 10 amp operation	15/6.8

Exhaust Transition Adapters and Exhaust Dampers

Catalog #	Description	Shipping Wt. lbs./kg
3912400	Upper Transition Adapter for 5" ID hose	5/2.2
3912401	Upper Transition Adapter for 6" OD duct	5/2.2
3912402	Lower Transition Adapter for 5" ID hose	5/2.2
3912403	Lower Transition Adapter for 6" OD duct	5/2.2
3924000	Exhaust Damper, powder-coated steel, 6" dia.	1/4.5
4724200	Exhaust Damper, PVC, 6" dia.	1/4.5

* International electrical configuration



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