



△ Purifier® Delta® Series Class II Biological Safety Cabinets

OVERVIEW

Delta® Series Delivers Safety

The most compelling reason to choose a Purifier Delta Series Class II Cabinet is safety. You simply won't find another biohazard cabinet with a more comprehensive safety package.

Bright color signifies danger and key components are epoxy-coated orange to provide a visual reminder to work safely in these areas. One such area is the exclusive sash pocket. Located behind the front panel, the sash pocket encases the sash as it is raised, shielding the user and environment from exposure to any potential contamination on the interior side of the sash. The pocket provides an added dimension of safety to other measures such as 99.99% efficient HEPA-filtered laminar flow and negative pressure plenum design.

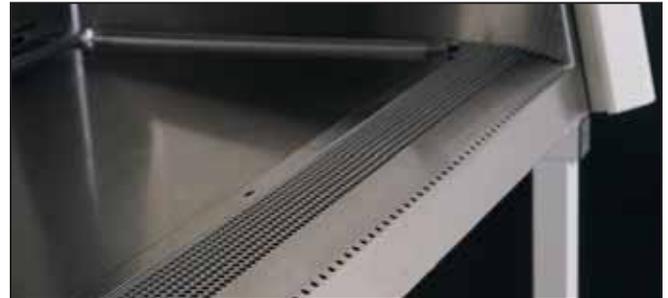
Unseen, but remarkable, is the unitized, stainless steel frame. The substructure provides a more stable and accurate foundation than multi-piece designs so the potential for leaks is minimized. Other safety features, such as the sash, just can't be missed. The sash provides tactile feedback to the operator to not lift it beyond its working height while the cabinet is in use. Raising the sash beyond this point triggers an audible/visual alarm. The sash may also be fully closed to prevent contaminants from entering or leaving the cabinet during UV disinfection or non-use.

Safety Features

- Fully closing tempered safety glass sash with audible/visual alarm indicator
- △ Patented* sash pocket keeps potential contamination contained
- △ Patented* curved air foil
- △ Tactile indication when sash is raised to its optimum operating level
- Interlocked UV light only operates when blower and fluorescent light are off and sash is closed
- △ Patented* Minihelic** II pressure gauge mounted inside the work area so that any leaks from the gauge or tubing are forced through a HEPA filter before exhausting to the environment
- Electrical duplex receptacles with ground fault interruption
- △ Safety color-coded towel catch, sash pocket and exhaust cap
- △ Safety color-coded air foil available
- 99.99% efficient HEPA filters
- Unitized 16 gauge stainless steel structure
- Intrinsically-safe negative pressure design
- 115 volt, 60 Hz models are NSF International Listed



The patented* towel catch prevents wipes and other lightweight items from being drawn into the cabinet's internal cavity where they could damage components and alter airflow.



The patented* curved air foil prevents the potentially dangerous practice of placing materials in this area.



The angled sash may be completely closed when not in use, providing a physical barrier.



The patented* sash pocket shields the sash as it is raised so that potential contamination is not spread to upper cabinet areas.

▽ Purifier Delta Series Class II, Type A2 Safety Cabinet 3620404 on Manual Hydraulic Lift Stand 3780200 with Caster Kit 3784000 and Ergonomic Chair 3744000.

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

** Minihelic® II is a registered trademark of Dwyer Instruments Incorporated.

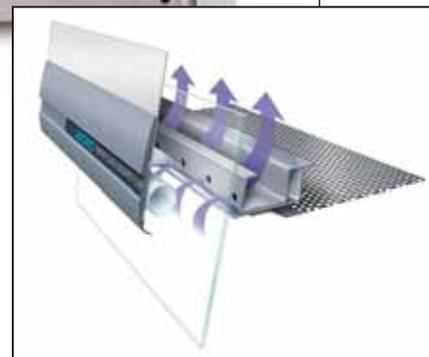
△ Exclusive feature

Purifier® Delta® Series Class II Biological Safety Cabinets

OVERVIEW



The patented * Air-Wave™ Entry System, featuring aerodynamic angles surrounding the access opening, provides less airflow resistance for better containment.



Patented* Contain-Air™ Negative Pressure Channel draws air in, preventing loss of containment at the top of the sash.

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

△ Purifier® Delta® Series Class II Biological Safety Cabinets

O V E R V I E W

Delta® Series Delivers Performance

Every component of the Purifier Delta Series Cabinet has been optimized for peak performance. The Air-Wave™ Entry System, consisting of the curved design of the side posts, air foil and sash handle, ensures smoother airflow into the work area minimizing turbulence and enhancing containment. Internally, we've designed a ramped steel plenum that captures the recirculated air, stabilizes it, and then distributes it evenly across the HEPA filters and the work area. Laminar airflow is idealized and *true*, not zoned. The Air-Wave Entry System and plenum work together to provide superior airflow that protects the operator and prevents cross contamination.

The exclusive Contain-Air™ Negative Pressure Channel, located behind the sash, maximizes containment at the air gap between the top of the sash opening and the cabinet wall. Any hazardous aerosol created in the work area that may travel upward toward the top of the sash is drawn into the channel by negative pressure and then forced through a HEPA filter. Unreliable seals and gaskets, which could degrade or drag on the contaminated glass, are not used.

Performance Features

- △ Patented* Air-Wave™ Entry System
- △ Patented* ramped steel plenum for *true* laminar airflow
 - 105 fpm nominal face velocity
- △ Sure-Start™ voltage-compensating speed control with 40 amp capacity and electronic adjustability
 - Counterweighted sliding sash with anti-racking mechanism
- △ Contain-Air™ Negative Pressure Channel at the top of the access opening
- △ Patented* Reserve-Air™ Secondary Airflow Slots
 - Low clearance design requires only 6" clearance from ceiling
 - ISO Class 5 air (formerly Class 100) in the work area



The sash is counterweighted for balance, greater reliability and durability. The anti-racking mechanism ensures easy raising and lowering from all areas of the sash handle.



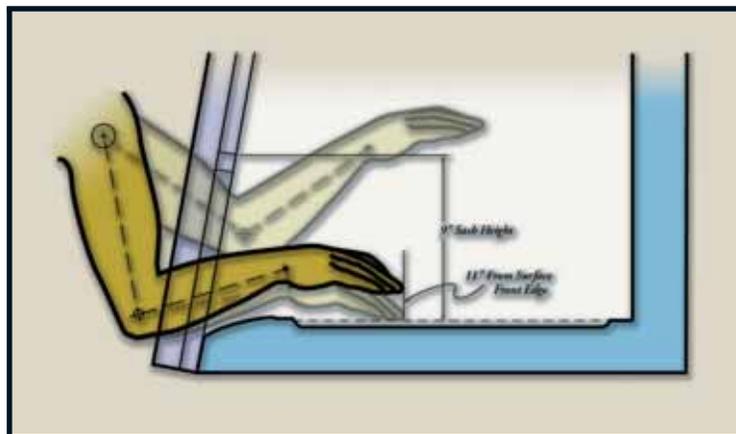
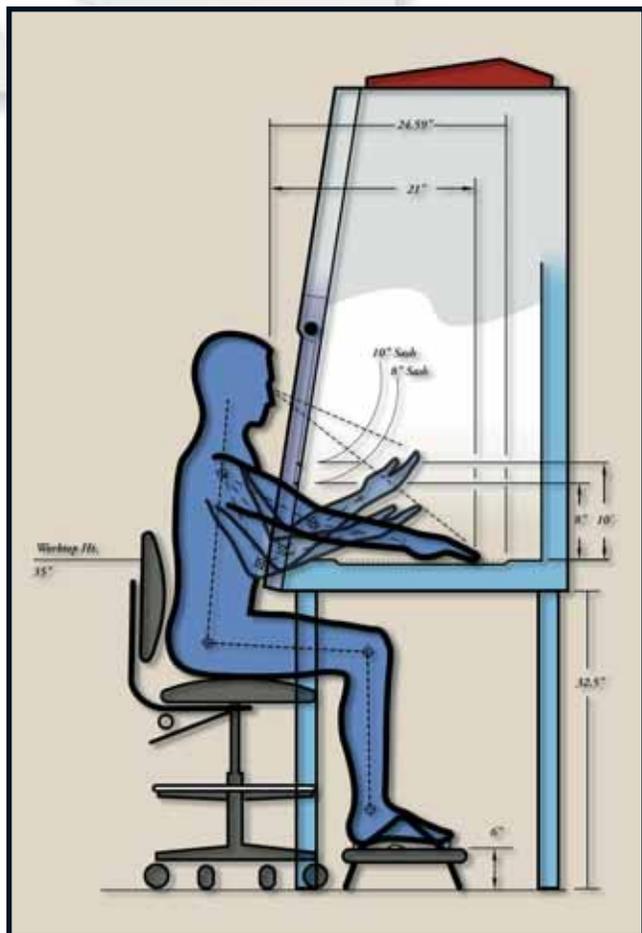
Reserve-Air™ Secondary Airflow Slots, located in front of the air foil's inflow grille, draw air into the Purifier should the operator inadvertently block the grille area. Safe airflow is always maintained.

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

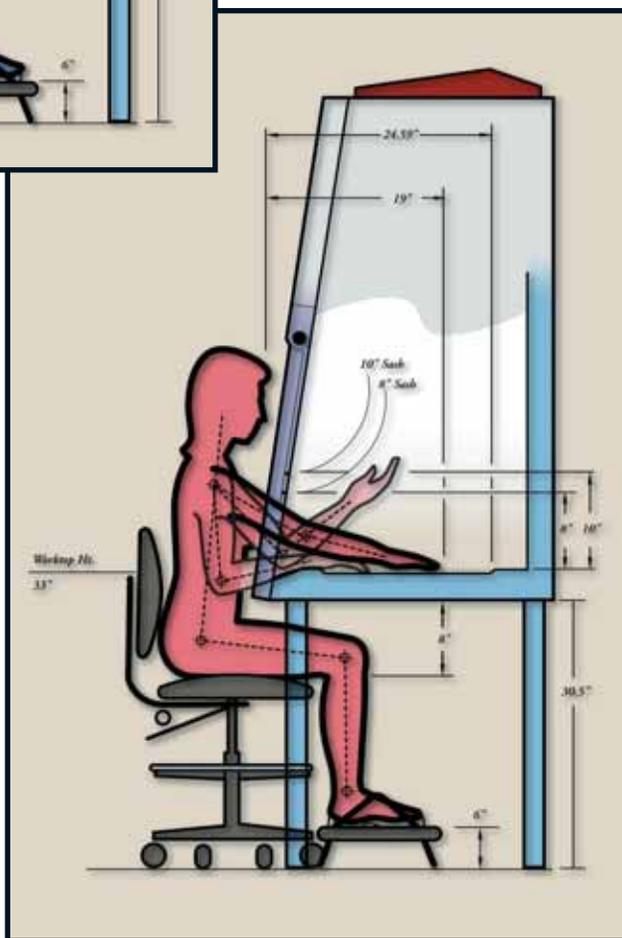
△ Exclusive feature

Purifier® Delta® Series Class II Biological Safety Cabinets

OVERVIEW



The radiused air foil provides a comfortable surface for forearms resting on it, reducing fatigue.



The Purifier Delta Series Safety Cabinet was designed to provide a safe and effective work area for both men and women. Ergonomic principles were applied to ensure that humans of all sizes maintain a healthy posture, and have good visibility and range of motion while safely using the cabinet. The illustrations at left show an adult male of an average height of 5' 9.1" and an adult female of an average height of 5' 3". The accessory base stand, chair and footrest work together to achieve the proper height for individuals using the cabinet.

△ Purifier® Delta® Series Class II Biological Safety Cabinets

OVERVIEW

Delta® Series Delivers Ergonomics

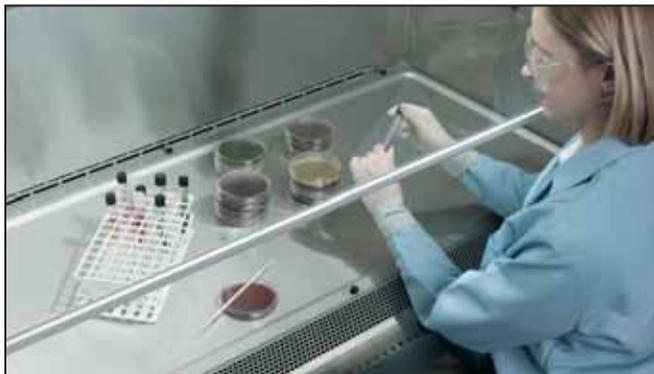
Because fatigue increases the risk of accidents and personal injury, we designed the Purifier Delta Series Cabinet to be comfortable and convenient to use. With assistance from human factors specialists, Labconco engineers created dimensions for the cabinet that fit people of all sizes. The monitors and controls are within easy sight and reach—exactly where they should be. The Minihelic II pressure gauge is located in the user's field of vision to allow continuous monitoring of safe operating parameters. The switches and alarm indicators are mounted low to meet ADA* requirements and to reduce eye strain. The curved air foil has no pronounced edges so arms may rest comfortably.

The inclined sash and front panel offer ergonomic benefits as well as an attractive exterior. The front panel above the sash is free of protrusions that could interfere with visibility or obstruct taller users. More importantly, the sash is angled for closer, more comfortable viewing without glare.

A spacious interior adds to the cabinet's functionality. The service fixtures are mounted 9" above the work surface to maximize usable surface space. They are mounted close to the front within easy reach of the user. The seamless one-piece dished work surface has smooth, radiused edges for easy cleaning.



The Minihelic II pressure gauge has a large dial for easy readability and is located in the user's direct field of vision.



Interior offers the most cubic feet of area in the industry.

Ergonomic Features

- △ Most spacious interior in the industry
- △ Eye-level Minihelic II pressure gauge
- △ ADA-compliant controls, switches and electrical receptacles
- △ Patented* curved air foil
 - Inclined, sliding sash
- △ Low profile front panel
 - Service fixtures mounted 9" above the work surface
 - Removable dished work surface is smooth and non-welded
 - ADA-compliant adjustable height accessory base stand
 - Accessory chair and footrest

△ Exclusive feature

*Americans with Disabilities Act



Service fixtures are mounted within reach of the operator but somewhat higher so that they are less likely to snag on clothing or bump the user's forearms.



Controls are mounted in the user's field of vision to limit neck movement and meet ADA requirements.

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



Purifier® Delta® Series Class II, Type A2 Safety Cabinets

INTRODUCTION

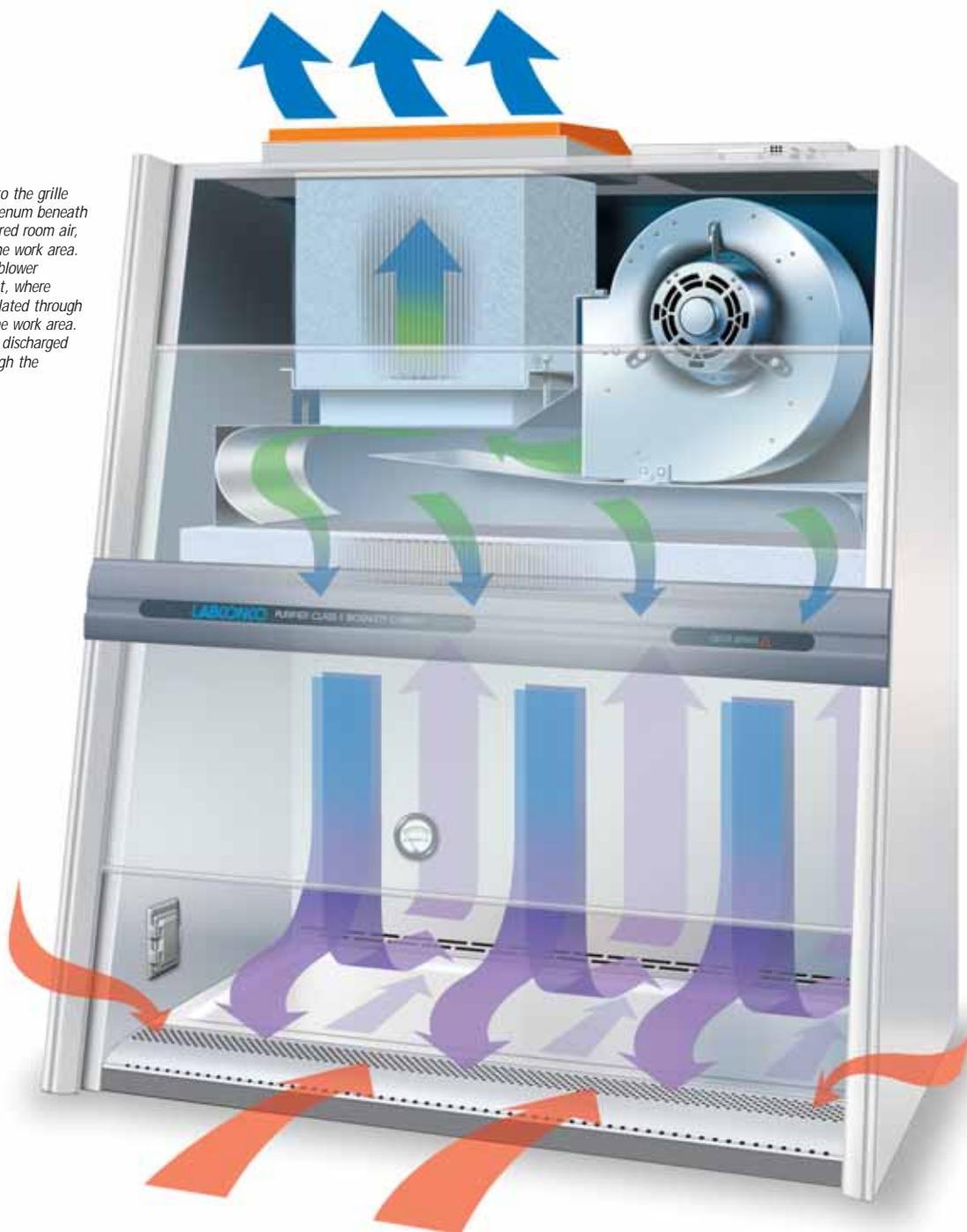
The patented* Purifier Delta Series Class II, Type A2 Safety Cabinet protects you, your work and your laboratory environment.

Typical applications include work with agents that require Biosafety Level 1, 2 or 3 containment, and antineoplastic drug preparation.

The cabinet may discharge HEPA-filtered exhaust air directly into the laboratory, or into an exhaust system through the optional Canopy Connection. When canopy-connected, the Purifier Delta Series Cabinet may be used for applications involving minute quantities of volatile toxic chemicals and tracer amounts of radionuclides required as an adjunct to microbiological research.

During operation, room air is drawn into the grille located in the air foil. The air in the plenum beneath the work surface is a mixture of unfiltered room air, and air that has just passed through the work area. This contaminated air is drawn by the blower through the back plenum of the cabinet, where approximately 70% of the air is recirculated through the supply HEPA filter and back over the work area. The balance of the contaminated air is discharged to the environment after passing through the exhaust HEPA filter.

-  Room Air
-  HEPA-Filtered Air
-  Unfiltered Air under Negative Pressure
-  Unfiltered Air under Positive Pressure



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

 Purifier Delta Series Class II, Type A2 Safety Cabinet
3620804 on Telescoping Base Stand 3730400 with
Ergonomic Chair 3744000, Adjustable Footrest
3746000 and Delta Cart 8022000.

△ Purifier® Delta® Series Class II, Type A2 Safety Cabinets

FEATURES & BENEFITS

99.99% efficient HEPA filters.

Optional 254 nm UV lamp.

Leak-tight Type 304 stainless steel liner.

△ ADA-compliant sash position alarm.

Glare-free fluorescent lighting.

Fully-closing clear 0.25" tempered safety glass sash.

△ ADA-compliant fluorescent light and blower switches.

△ ADA-compliant, eye-level Minihelic II pressure gauge.*

Type 304 stainless steel, removable, stamped, one-piece dished work surface.

Optional ADA-compliant service fixtures.

Two ADA-compliant electrical duplex receptacles.



△ Safety color-coded towel catch.*

△ Reserve-Air™ Secondary Airflow Slots.*

△ Curved air foil.*

Accessory Telescoping Base Stand. See pages 60 and 61 for ordering information.



Accessory Hydraulic Lift Base Stand. See pages 62 and 63 for ordering information.



Optional audible/visual low velocity alarm indicator.



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

△ Exclusive feature

△ Purifier® Delta® Series Class II, Type A2 Safety Cabinets

FEATURES & BENEFITS

△ **ADA-compliant, eye-level Minihelic II pressure gauge*** is mounted inside the cabinet instead of externally so that should a leak develop from the gauge or tubing, contaminants would be HEPA filtered instead of being released into the laboratory.

△ **Safety color-coded towel catch,*** located beneath the work surface, prevents wipes from being drawn into the blower where they could damage components and alter airflow.

99.99% efficient HEPA filters are industry standard sizes for economical replacement.



△ **Curved stainless steel air foil*** gently supports the user's forearms without the need for a separate armrest. The radiused edge prevents the potentially dangerous practice of placing materials in this area. Contact Labconco at 800-821-5525 or 816-333-8811 for ordering information on an optional bold orange epoxy coating to caution operators to avoid storing or placing materials near the air foil.

△ **Reserve-Air™ Secondary Airflow Slots*** draw air into the cabinet should the operator inadvertently block the air foil's grille area. Safe airflow is always maintained.

△ **ADA-compliant fluorescent light and blower switches.**

△ **ADA-compliant sash position alarm** is activated when the sash is raised above its 8" or 10" operating height. The alarm system may be easily muted or reset from the control panel switch.

Two ADA-compliant electrical duplex receptacles, located one on each side, with ground fault interruption and splash covers.

Unitized, 16 gauge stainless steel frame provides a more stable and accurate foundation than multi-piece designs so the potential for leaks is minimized.

Variable speed blower with solid state control is sized for low power consumption.

Intrinsically-safe negative pressure design. All contaminated ducts are under negative pressure. The negative pressure plenums capture any contamination, and force the air through the HEPA filter, preventing its escape into the laboratory.

Fully-closing, clear 1/4" tempered safety glass sash with anti-racking mechanism is sloped at 10° for less glare and closer, more comfortable viewing than vertical sashes offer. For easy loading and cleaning, the sash may be raised to a maximum height of 18".

△ **Tactile indication when sash is raised to optimum operating level.** A sash position indicator decal provides a visual verification of the proper working height.

Leak-tight Type 304 stainless steel liner and removable stamped, one-piece dished work surface.

△ **Air-Wave™ Entry System,*** consisting of the curved design of the side posts, air foil and sash handle, ensures smooth airflow into the interior minimizing turbulence and enhancing containment.

△ **Contain-Air™ Negative Pressure Channel*** draws air in, preventing loss of containment at the top of the sash. Unreliable seals and gaskets, which could degrade or drag on the contaminated glass creating aerosols, are not used.

△ **Low profile front panel** is free of protrusions that could interfere with visibility or obstruct taller users.

Glare-free fluorescent lighting, located outside the work area, remains uncontaminated and is easily replaced.

Full three year warranty on parts and service.

NSF International and ETL listed. All 115 volt, 60 Hz, Purifier Delta Series Safety Cabinets carry the NSF International and ETL marks, signifying that the Purifier meets or exceeds all minimum requirements of the NSF Standard 49 for Biohazard Cabinetry, conforms to UL Standard 3101-1/61010-1 in the U.S., and is certified to CAN/CSA C22.2 No. 1010.1-92 in Canada.

CE mark. All 230 volt, 50 Hz Purifiers conform to the following CE (European Community) requirements as tested by the Inchcape Testing Services (UK) LTD: Electrical Safety Standard: IEC 1010-1 and Electromagnetic Compatibility Directive: 89/336/EEC.

Optional 254 nm UV lamp for secondary decontamination while the cabinet is not in use. Interlocked switch permits the UV light to operate only when the fluorescent light and blower are off and the sash is completely closed.

Optional ADA-compliant service fixtures are mounted 9" above the work surface to maximize usable surface area. Service fixtures are available factory-installed or may be ordered separately.

Optional audible/visual low velocity alarm indicator continuously monitors the volume of air exhausted from the cabinet. Should the exhaust (inflow) volume drop below the setpoint, the red warning light is activated. Contact Labconco at 800-821-5525, 816-333-8811 or labconco@labconco.com for more information.

Accessory Base Stands. Purifier Delta Series Safety Cabinets are benchtop design for use on existing casework or NSF-Listed Labconco Telescoping, Hydraulic Lift, Solo, Unassembled and Seismic Base Stands.

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

△ Exclusive feature

Purifier® Delta® Series Class II, Type A2 Safety Cabinets

ORDERING INFORMATION

Standard Features

- U.S. Patent No. 6,368,206
- Nominal inflow velocity of 105 feet per minute (fpm)
- Nominal downflow velocity of 55 fpm
- Approximately 70% air recirculation
- Intrinsically-safe negative pressure design
- Two 99.99% efficient HEPA filters
- Unitized 16 gauge stainless steel substructure
- Crevice-free, type 304 stainless steel interior and removable, seamless, dished work surface
- Glacier white epoxy-coated exterior
- △ Safety color-coded and epoxy-coated steel towel catch, sash pocket and perforated exhaust filter cap
- △ 10° angled, sliding, fully-closing, 1/4" tempered safety glass sash with anti-racking mechanism, tactile position indicator and 18" maximum loading height
- △ Air-Wave™ Entry System
- △ Stainless steel air foil with Reserve-Air™ Secondary Airflow Slots
- △ Contain-Air™ Negative Pressure Channel
- △ ADA-compliant, eye-level, inside-mounted pressure gauge
 - ADA-compliant fluorescent light and blower switches
- △ ADA-compliant audible/visual alarm indicator with mute switch
- △ Two ADA-compliant electrical duplex receptacles with ground fault interrupters and splash covers
 - 10' power cord
 - Sure-Start™ voltage-compensating speed control with 40 amp capacity
- Thermally-protected permanent split capacitor motor/blower(s)
- Class 5 conditions per ISO 14644-1 and 2 (formerly Class 100)
- NSF and ETL Listed, UL 3101-1/61010-1 and CAN/CSA C22.2 No. 1010.1 conformity (115 volt models)
- CE conformity marking (230 volt models)
- EN 12469 approved (Models 3620930 and 3620934)
- Three year warranty on parts and service

Standard Option Package

- 254 nm UV lamp with interlocking safety switch allowing operation only when blower and fluorescent light are off and sash is fully closed
- Chrome-plated forged brass service fixture(s) with quarter turn handle, factory installed 9" above work surface

Required Accessory

- Supporting base. Place on existing casework or see pages 60-65.

See page 26 for dimensional drawings.

△ Exclusive feature



Purifier Delta Series Class II, Type A2 Safety Cabinet 3620004 on SoLo Hydraulic Lift Base Stand 3780312.

Installation Requirements

Location. Locate the cabinet away from traffic patterns, doors, fans, ventilation registers and other air handling devices.

Electrical. The cabinet requires a dedicated electrical receptacle and circuit breaker with current capacity equal to or greater than the electrical requirements provided in the ordering information.

Services. All service lines must be 1/4" OD metal tubing and equipped with an easily accessible shut-off valve located outside the cabinet. Line pressure should not exceed 40 psi.

Space. Clearance of at least 6 inches on the sides and rear of the cabinet is recommended.

Overhead Clearance. Class II, Type A2 cabinets should have at least 6 inches clearance between the top of the exhaust cover and the ceiling.

Certification. Prior to initial use, the cabinet must be certified by a qualified certifier. Under normal operating conditions, the cabinet should be recertified at least annually, and when moved or serviced.

Purifier® Delta® Series Class II, Type A2 Safety Cabinets

ORDERING INFORMATION

Catalog #	Nominal Width	Sash Opening	Exhaust Volume	Electrical Requirements	Power Cord & Plug	Light(s)	Service Fixture(s)	Shipping Weight
3620400	3 feet	10"	253-279 CFM	115 volts, 60 Hz, 12 amps	115 volts, 15 amps	Fluorescent	—	505 lbs. (229 kg)
3620404	3 feet	10"	253-279 CFM	115 volts, 60 Hz, 12 amps	115 volts, 15 amps	Fluorescent Ultraviolet	1	505 lbs. (229 kg)
3620500	3 feet	8"	203-223 CFM	115 volts, 60 Hz, 12 amps	115 volts, 15 amps	Fluorescent	—	505 lbs. (229 kg)
3620504	3 feet	8"	203-223 CFM	115 volts, 60 Hz, 12 amps	115 volts, 15 amps	Fluorescent Ultraviolet	1	505 lbs. (229 kg)
3620510*	3 feet	8"	203-223 CFM	100 volts, 50/60 Hz, 12 amps	115 volts, 15 amps	Fluorescent	—	505 lbs. (229 kg)
3620514*	3 feet	8"	203-223 CFM	100 volts, 50/60 Hz, 12 amps	115 volts, 15 amps	Fluorescent Ultraviolet	1	505 lbs. (229 kg)
3620520*	3 feet	8"	203-223 CFM	230 volts, 50 Hz, 7 amps	230 volts, 10 amps, no plug	Fluorescent	—	505 lbs. (229 kg)
3620524*	3 feet	8"	203-223 CFM	230 volts, 50 Hz, 7 amps	230 volts, 10 amps, no plug	Fluorescent Ultraviolet	1	505 lbs. (229 kg)
3620800	4 feet	10"	339-370 CFM	115 volts, 60 Hz, 12 amps	115 volts, 15 amps	Fluorescent	—	606 lbs. (275 kg)
3620804	4 feet	10"	339-370 CFM	115 volts, 60 Hz, 12 amps	115 volts, 15 amps	Fluorescent Ultraviolet	1	606 lbs. (275 kg)
3620900	4 feet	8"	269-296 CFM	115 volts, 60 Hz, 12 amps	115 volts, 15 amps	Fluorescent	—	606 lbs. (275 kg)
3620904	4 feet	8"	269-296 CFM	115 volts, 60 Hz, 12 amps	115 volts, 15 amps	Fluorescent Ultraviolet	1	606 lbs. (275 kg)
3620910*	4 feet	8"	269-296 CFM	100 volts, 50/60 Hz, 12 amps	115 volts, 15 amps	Fluorescent	—	606 lbs. (275 kg)
3620914*	4 feet	8"	269-296 CFM	100 volts, 50/60 Hz, 12 amps	115 volts, 15 amps	Fluorescent Ultraviolet	1	606 lbs. (275 kg)
3620920*	4 feet	8"	269-296 CFM	230 volts, 50 Hz, 7 amps	230 volts, 10 amps, no plug	Fluorescent	—	606 lbs. (275 kg)
3620924*	4 feet	8"	269-296 CFM	230 volts, 50 Hz, 7 amps	230 volts, 10 amps, no plug	Fluorescent Ultraviolet	1	606 lbs. (275 kg)
3620930*†	4 feet	8"	269-296 CFM	230 volts, 50 Hz, 7 amps	230 volts, 10 amps, no plug	Fluorescent	—	606 lbs. (275 kg)
3620934*†	4 feet	8"	269-296 CFM	230 volts, 50 Hz, 7 amps	230 volts, 10 amps, no plug	Fluorescent Ultraviolet	1	606 lbs. (275 kg)
3620000	5 feet	10"	420-462 CFM	115 volts, 60 Hz, 12 amps	115 volts, 15 amps	Fluorescent	—	725 lbs. (329 kg)
3620004	5 feet	10"	420-462 CFM	115 volts, 60 Hz, 12 amps	115 volts, 15 amps	Fluorescent Ultraviolet	1	725 lbs. (329 kg)
3620100	5 feet	8"	336-370 CFM	115 volts, 60 Hz, 12 amps	115 volts, 15 amps	Fluorescent	—	725 lbs. (329 kg)
3620104	5 feet	8"	336-370 CFM	115 volts, 60 Hz, 12 amps	115 volts, 15 amps	Fluorescent Ultraviolet	1	725 lbs. (329 kg)
3620110*	5 feet	8"	336-370 CFM	100 volts, 50/60 Hz, 12 amps	115 volts, 15 amps	Fluorescent	—	725 lbs. (329 kg)
3620114*	5 feet	8"	336-370 CFM	100 volts, 50/60 Hz, 12 amps	115 volts, 15 amps	Fluorescent Ultraviolet	1	725 lbs. (329 kg)
3620120*	5 feet	8"	336-370 CFM	230 volts, 50 Hz, 7 amps	230 volts, 10 amps, no plug	Fluorescent	—	725 lbs. (329 kg)
3620124*	5 feet	8"	336-370 CFM	230 volts, 50 Hz, 7 amps	230 volts, 10 amps, no plug	Fluorescent Ultraviolet	1	725 lbs. (329 kg)
3621200	6 feet	10"	503-554 CFM	115 volts, 60 Hz, 16 amps	115 volts, 20 amps	Fluorescent	—	843 lbs. (382 kg)
3621204	6 feet	10"	503-554 CFM	115 volts, 60 Hz, 16 amps	115 volts, 20 amps	Fluorescent Ultraviolet	2	843 lbs. (382 kg)
3621300	6 feet	8"	403-443 CFM	115 volts, 60 Hz, 16 amps	115 volts, 20 amps	Fluorescent	—	843 lbs. (382 kg)
3621304	6 feet	8"	403-443 CFM	115 volts, 60 Hz, 16 amps	115 volts, 20 amps	Fluorescent Ultraviolet	2	843 lbs. (382 kg)
3621310*	6 feet	8"	403-443 CFM	100 volts, 50/60 Hz, 16 amps	115 volts, 20 amps	Fluorescent	—	843 lbs. (382 kg)
3621314*	6 feet	8"	403-443 CFM	100 volts, 50/60 Hz, 16 amps	115 volts, 20 amps	Fluorescent Ultraviolet	2	843 lbs. (382 kg)
3621320*	6 feet	8"	403-443 CFM	230 volts, 50 Hz, 8 amps	230 volts, 10 amps, no plug	Fluorescent	—	843 lbs. (382 kg)
3621324*	6 feet	8"	403-443 CFM	230 volts, 50 Hz, 8 amps	230 volts, 10 amps, no plug	Fluorescent Ultraviolet	2	843 lbs. (382 kg)

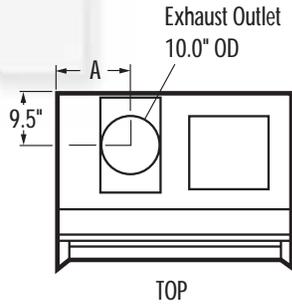
* International electrical configuration

† Includes audible/visual low velocity indicator and on/off power lock with key.

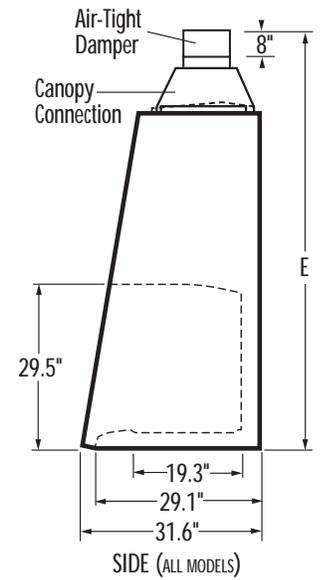
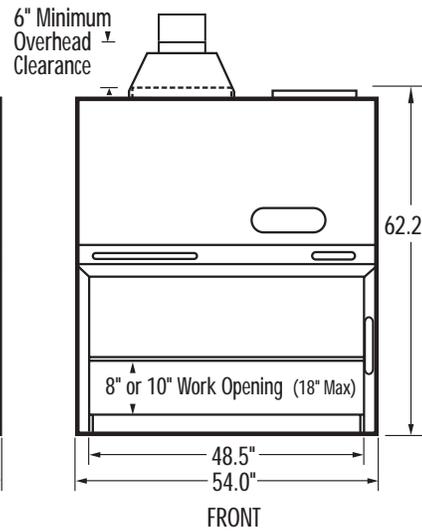
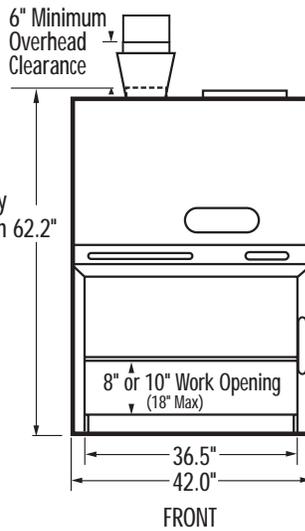
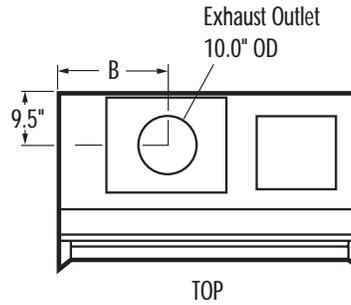
Purifier® Delta® Series Class II, Type A2 Safety Cabinets

DIMENSIONS

36204 and 36205 Series



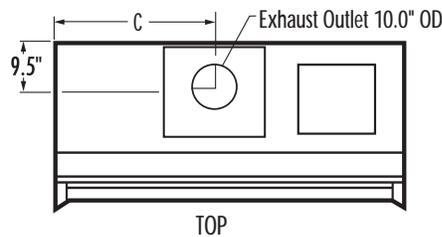
36208 and 36209 Series



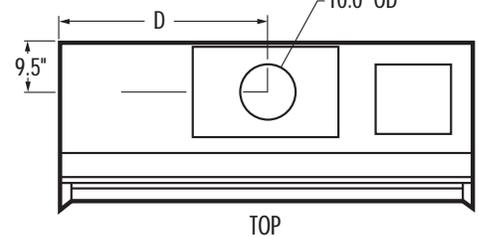
Without Canopy Connection 62.2"

	w/Canopy Connection and Air-Tight Damper	w/Canopy Connection Only
A	13.1"	13.1"
B	19.1"	19.1"
C	22.0"	22.0"
D	39.0"	39.0"
E	78.7"	70.7"

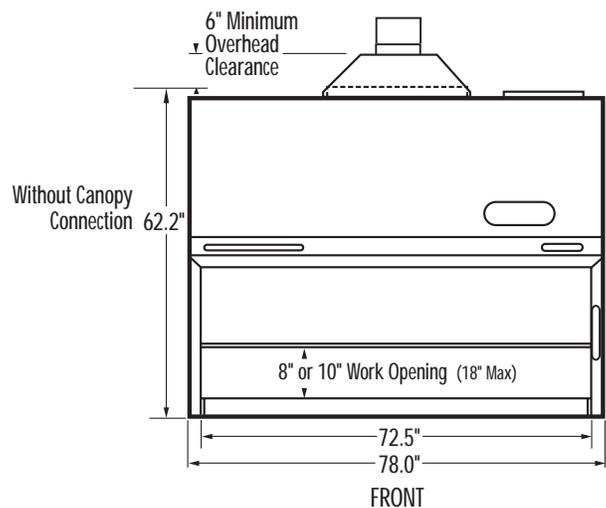
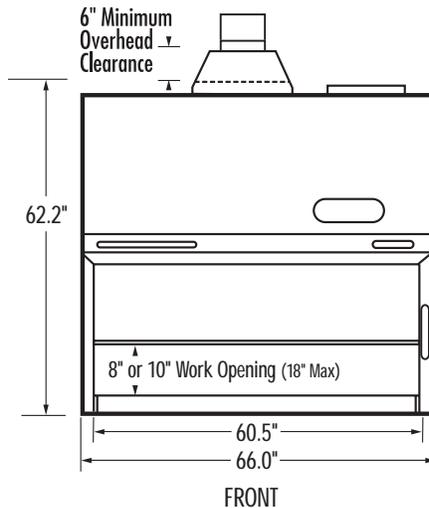
36200 and 36201 Series



36212 and 36213 Series



Dotted line represents exhaust air diffuser, used when cabinet is not thimble-ducted to the outside.



Without Canopy Connection 62.2"

Air-Tight Damper and Canopy Connection are not included with the Purifier Delta Series Cabinet

Purifier® Delta® Series Class II, Type A2 Safety Cabinets

ACCESSORIES



Safety Orange Air Foil

Bold orange color cautions the operator to avoid storing or placing materials in this area where air-flow is critical. The air foil is epoxy-coated stainless steel and may be factory installed or retrofitted on site. Contact Labconco at 800-821-5525, 816-333-8811 or labconco@labconco.com for ordering information.



Base Stands

Epoxy-coated steel. Meet NSF Standard for stability and construction. Telescoping Base Stands adjust in 1" increments to provide a working height from 30" to 36" and are available with fixed feet or casters. Electric and Manual Hydraulic Lift Base Stands

have infinite height adjustment using a push button or hand crank. SoLo Hydraulic Lift Base Stands are mobile stands with electric hydraulic adjustment that allows the safety cabinet to be lowered for transport through standard doorways. Unassembled Base Stands are available in two heights and come unassembled for economical shipment. Seismic Base Stands secure to the floor for earthquake-prone regions. See pages 60-65 for more information.



3747500 Service Fixture Kit

Includes serrated hose tip valve with quarter turn control handle, hardware and instructions for plumbing to services. Mounts on left or right side interior. Cabinets are factory-prepared to accommodate up to four fixtures. **Installation is required.** Shipping weight 4.0 lbs. (1.8 kg)

Ultraviolet Lamp Kits

254 nm UV lamp. Kit 3745000 also includes a ballast. **Installation is required.**

Catalog #	For use with	Shipping Weight
3745000	3-Ft, 4-Ft & 5-Ft Purifier Delta Series	5.0 lbs. (2.3 kg)
3745001	6-Ft Purifier Delta Series	3.0 lbs. (1.4 kg)



IV Bar Kits

Bar supports intravenous solution bottles and bags. Kits include IV bar, mounting hardware and four hangers. **Installation is required.**

Catalog #	For use with	Shipping Weight
3745500	3-Ft Purifier Delta Series	3.0 lbs. (1.4 kg)
3745501	4-Ft Purifier Delta Series	4.0 lbs. (1.8 kg)
3745503	5-Ft Purifier Delta Series	5.0 lbs. (2.3 kg)
3745502	6-Ft Purifier Delta Series	6.0 lbs. (2.7 kg)



Canopy Connections for Thimble Ducting Purifier Delta Series Cabinets to Outside

Epoxy-coated steel exhaust transition adapter. Remote Blower 3668000 or 3668001 is recommended (not included). See page 67 for more information.

Catalog #	For use with	Duct Diameter	Shipping Weight
3794400	3-Ft Purifier Delta Series	10"	13.0 lbs. (5.9 kg)
3794500	4-Ft Purifier Delta Series	10"	13.0 lbs. (5.9 kg)
3794600	5-Ft & 6-Ft Purifier Delta Series	10"	13.0 lbs. (5.9 kg)



3776800 Air-Tight Damper

Mounts atop the Canopy Connection Kit to adjust exhaust airflow and closes for decontamination procedures. Shipping weight 13.0 lbs. (5.9 kg). See page 67 for more information.



Remote Blowers

Belt drive with adjustable sheave and integral damper. Inlet accepts 10" nominal diameter duct. Outlet accepts 8" nominal diameter duct. See page 67 for more information.

Catalog #	For use with	Shipping Weight
3668000	3-Ft & 4-Ft Purifier Delta Series	93 lbs. (42 kg)
3668001	5-Ft & 6-Ft Purifier Delta Series	99 lbs. (45 kg)



3744000 Ergonomic Chair with Armrests

Chair has 6-way articulating seat and back control for personalized adjustment. Pneumatic mechanism adjusts seat height from 18.25" to 25.75". Shipping weight 35.0 lbs. (15.9 kg). See page 66 for more information.



3746000 Adjustable Footrest

Elevates feet and permits angle repositioning while in use. 18.5" w x 11.5" d x 8" high. Shipping weight 6.0 lbs. (2.7 kg)



8022000 Delta Cart

Provides convenient storage of supplies. Shipping weight 50 lbs. (23 kg). See page 66 for more information.



Requires
Ductwork
and
Blower



Purifier® Delta® Series Total Exhaust Safety Cabinets

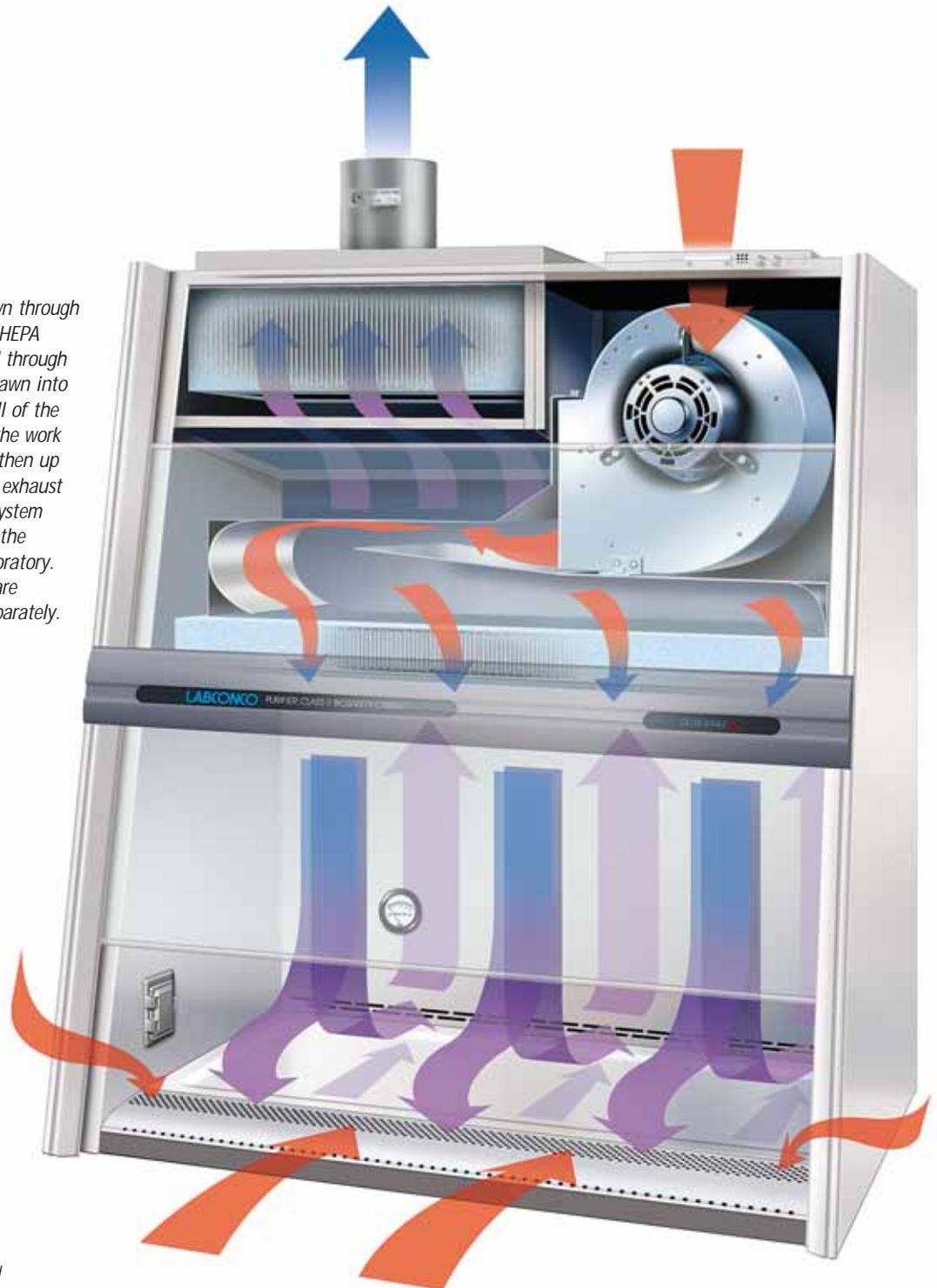
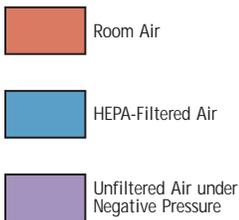
INTRODUCTION

Like the Class II, Type A2 Cabinet, the patented* Purifier Delta Series Total Exhaust (Class II, Type B2) Safety Cabinet protects you, your work and your laboratory environment. **It is suitable for work with agents that require Biosafety Level 1, 2 or 3 containment.** One hundred percent of the air that moves through it is exhausted to the outside. Because none of the air in the cabinet is recirculated, the Purifier Delta Series Total Exhaust Cabinet may be used for work with

agents treated with volatile toxic chemicals and radionuclides when required as an adjunct to microbiological research.

This cabinet is equipped with an interlocking alarm system that constantly monitors the volume of air exhausted. If the exhaust air volume drops below an acceptable level, an audible alarm sounds, the alarm light glows red, and the cabinet blowers stop. This added measure of safety protects you from inadvertent exposure to aerosols.

During operation, room air is drawn through the top of the cabinet. This air is HEPA filtered, and then flows downward through the work area. Room air is also drawn into the grille located in the air foil. All of the contaminated air is drawn under the work surface or through the rear grille, then up the rear plenum, and through the exhaust HEPA filter. A dedicated exhaust system and remote blower draw 100% of the filtered exhaust air out of the laboratory. The ductwork and remote blower are required for operation and sold separately.



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

□ Purifier Delta Series Total Exhaust Safety Cabinet 3621404 on Telescoping Base Stand 3730600 with Ergonomic Chair 3744000.

Purifier® Delta® Series Total Exhaust Safety Cabinets

FEATURES & BENEFITS

99.99% efficient HEPA filters.

Air-tight stainless steel damper.

Leak-tight Type 304 stainless steel liner.

Glare-free fluorescent lighting.

△ ADA-compliant exhaust/sash position alarm system.

Optional 254 nm UV lamp.

△ ADA-compliant fluorescent light and blower switches.

Fully closing, clear 0.25" tempered safety sash.

Two ADA-compliant electrical duplex receptacles.

Eye-level Minihelic II pressure gauge.*

Type 304 stainless steel, removable, stamped, one-piece dished work surface.

△ Curved air foil.*

Accessory Telescoping Base Stand. See pages 60 and 61 for ordering information.

△ Reserve-Air™ Secondary Airflow Slots.*



△ Safety color-coded towel catch.*



Optional ADA-compliant service fixtures.



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

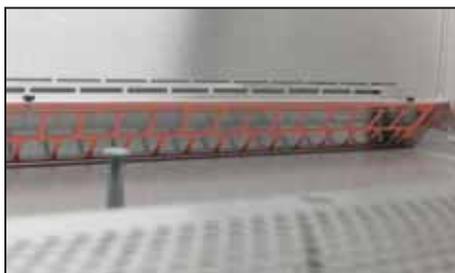
△ Exclusive feature

Purifier® Delta® Series Total Exhaust Safety Cabinets

FEATURES & BENEFITS

△ **ADA-compliant, eye-level Minihelic II pressure gauge*** is mounted inside the cabinet instead of externally so that should a leak develop from the gauge or tubing, contaminants would be HEPA filtered instead of being released into the laboratory.

△ **Safety color-coded sash pocket*** encases the sash as it is raised, shielding the user and environment from exposure to potential contamination on the interior side of the sash.



△ **Safety color-coded towel catch*** prevents wipes from being drawn into the exhaust filter where damage can occur and airflow can be altered.

99.99% efficient HEPA filters are industry standard sizes for economical replacement.



△ **Curved stainless steel air foil*** gently supports the user's forearms without the need for a separate armrest. The radiused edge prevents the potentially dangerous practice of placing materials in this area. Contact Labconco at 800-821-5525 or 816-333-8811 for ordering information on an optional bold orange epoxy coating to caution operators to avoid storing or placing materials near the air foil.

△ **Reserve-Air™ Secondary Airflow Slots*** draw air into the cabinet should the operator inadvertently block the air foil's grille area. Safe airflow is always maintained.

△ **ADA-compliant single switch fluorescent light and blower start up.**

△ **ADA-compliant exhaust/sash position alarm system** is activated when insufficient exhaust air volume is detected and/or the sash is raised above its operating height. The cabinet blowers are automatically deactivated in the event of insufficient exhaust air volume. The alarm system may be easily muted or reset from the control panel switch.

Two ADA-compliant electrical duplex receptacles with ground fault interruption and splash covers.

Unitized, 16 gauge stainless steel frame provides a more stable and accurate foundation than multi-piece designs so the potential for leaks is minimized.

Variable speed blower with solid state control is sized for low power consumption. **An additional remote blower is required for operation.** See page 68 for ordering information.

Intrinsically-safe negative pressure design. All contaminated ducts are under negative pressure. The negative pressure plenums capture any contamination, and force the air through the exhaust HEPA filter, preventing its escape into the laboratory.

Fully-closing, clear 1/4" tempered safety glass sash with anti-racking mechanism is sloped at 10° for less glare and closer, more comfortable viewing than vertical sashes offer. For easy loading and cleaning, the sash may be raised to a maximum height of 18".

△ **Tactile indication when sash is raised to optimum operating level.** A sash position indicator decal provides a visual verification of the proper working height.

Air-tight Type 304 stainless steel liner, removable stamped, one-piece dished work surface and damper.

△ **Air-Wave™ Entry System,*** consisting of the curved design of the side posts, air foil and sash handle, ensures smooth airflow into the interior minimizing turbulence and enhancing containment.

△ **Contain-Air™ Negative Pressure Channel*** draws air in, preventing loss of containment at the top of the sash. Unreliable seals and gaskets, which could degrade or drag on the contaminated glass causing aerosolization, are not used.

△ **Low profile front panel** is free of protrusions that could interfere with visibility or obstruct taller users.

Glare-free fluorescent lighting, located outside the work area, remains uncontaminated and is easily replaced.

Full three year warranty on parts and service.

NSF International and ETL listed. All 115 volt, 60 Hz, Purifier Delta Series Safety Cabinets carry the NSF International and ETL marks, signifying that the Purifier meets or exceeds all minimum requirements of the NSF Standard Number 49 for Biohazard Cabinetry, conforms to UL Standard 3101-1/61010-1 in the U.S., and is certified to CAN/CSA C22.2 No. 1010.1-92 in Canada.

CE mark. All 230 volt, 50 Hz Purifiers conform to the following CE (European Community) requirements as tested by the Inchcape Testing Services (UK) LTD: Electrical Safety Standard: IEC 1010-1 and Electromagnetic Compatibility Directive: 89/336/EEC.

Optional 254 nm UV lamp for secondary decontamination while the cabinet is not in use. Interlocked switch permits the UV light to operate only when the fluorescent light and blower are off and the sash is completely closed.

Optional ADA-compliant service fixtures are mounted 9" above the work surface to maximize usable surface area. Service fixtures are available factory-installed or separately.

Accessory Stands. Purifier Delta Series Safety Cabinets are benchtop design for use on existing casework or on Labconco Telescoping, Unassembled and Seismic Base Stands.

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

△ Exclusive feature

Purifier® Delta® Series Total Exhaust Safety Cabinets

ORDERING INFORMATION

Standard Features

- U.S. Patent No. 6,368,206
- Nominal inflow velocity of 105 feet per minute (fpm)
- Nominal downflow velocity of 55 fpm
- 0% air recirculation
- Intrinsically-safe negative pressure design
- Two 99.99% efficient HEPA filters
- Unitized 16 gauge stainless steel substructure
- Crevice-free, type 304 stainless steel interior and removable, seamless, dished work surface
- Glacier white epoxy-coated exterior
- △ Safety color-coded epoxy-coated steel towel catch and sash pocket
- △ 10° angled, sliding, fully-closing, 1/4" tempered safety glass sash with anti-racking mechanism and tactile position indicator
- △ Air-Wave™ Entry System
- △ Stainless steel air foil with Reserve-Air™ Secondary Airflow Slots
- △ Contain-Air™ Negative Pressure Channel
- △ ADA-compliant, eye-level, inside-mounted Minihelic II pressure gauge
- △ ADA-compliant fluorescent light and blower switches
- △ ADA-compliant audible/visual, exhaust/sash position alarm indicator and mute switch
- Two ADA-compliant electrical duplex receptacles with ground fault interrupters and splash covers
- △ Sure-Start™ voltage-compensating speed control with 40 amp capacity
- Thermally-protected, permanent-split capacitor, 1/3 hp motor/blower
- Air-tight Type 304 stainless steel damper
- Class 5 conditions per ISO 14644-1 and 2 (formerly Class 100)
- NSF and ETL listings, UL 3101-1/61010-1 and CAN/CSA C22.2 No. 1010.1 conformity (115 volt models)
- CE Conformity Marking (230 volt models)
- Three year warranty on parts and service



Purifier Delta Series Total Exhaust Safety Cabinet 3621404 on Telescoping Base Stand 3730600.

Standard Option Package

- 254 nm UV lamp with interlocking safety switch allowing operation when blower and fluorescent light are off and sash is fully closed
- Chrome-plated forged brass service fixture(s) with quarter turn handle, factory installed 9" above work surface

Required Accessories

- Supporting base. Place on existing casework or see pages 60-61 and 65.
- Remote blower. See page 68.
- Ductwork. See page 35.

See page 24 for Installation Requirements. See page 33 for dimensional drawings.

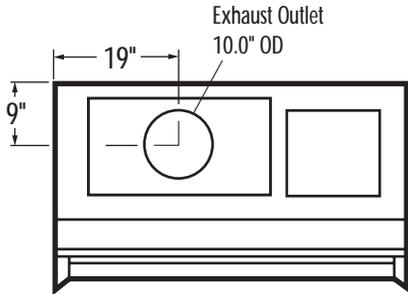
Catalog #	Nominal Width	Sash Opening	Exhaust Volume	Electrical Requirements	Power Cord & Plug	Light(s)	Service Fixture(s)	Shipping Weight
3621000	4 feet	8"	743-771 CFM	115 volts, 60 Hz, 12 amps	115 volts, 15 amps	Fluorescent	—	736 lbs. (334 kg)
3621004	4 feet	8"	743-771 CFM	115 volts, 60 Hz, 12 amps	115 volts, 15 amps	Fluorescent Ultraviolet	1	736 lbs. (334 kg)
3621010*	4 feet	8"	743-771 CFM	100 volts, 50/60 Hz, 12 amps	115 volts, 15 amps	Fluorescent	—	736 lbs. (334 kg)
3621014*	4 feet	8"	743-771 CFM	100 volts, 50/60 Hz, 12 amps	115 volts, 15 amps	Fluorescent Ultraviolet	1	736 lbs. (334 kg)
3621020*	4 feet	8"	743-771 CFM	230 volts, 50 Hz, 7 amps	230 volts, 10 amps no plug	Fluorescent	—	736 lbs. (334 kg)
3621024*	4 feet	8"	743-771 CFM	230 volts, 50 Hz, 7 amps	230 volts, 10 amps no plug	Fluorescent Ultraviolet	1	736 lbs. (334 kg)
3621400	6 feet	8"	1111-1151 CFM	115 volts, 60 Hz, 12 amps	115 volts, 15 amps	Fluorescent	—	875 lbs. (397 kg)
3621404	6 feet	8"	1111-1151 CFM	115 volts, 60 Hz, 12 amps	115 volts, 15 amps	Fluorescent Ultraviolet	2	875 lbs. (397 kg)
3621410*	6 feet	8"	1111-1151 CFM	100 volts, 50/60 Hz, 12 amps	115 volts, 15 amps	Fluorescent	—	875 lbs. (397 kg)
3621414*	6 feet	8"	1111-1151 CFM	100 volts, 50/60 Hz, 12 amps	115 volts, 15 amps	Fluorescent Ultraviolet	2	875 lbs. (397 kg)

△ Exclusive feature *International electrical configuration

Purifier® Delta® Series Total Exhaust Safety Cabinets

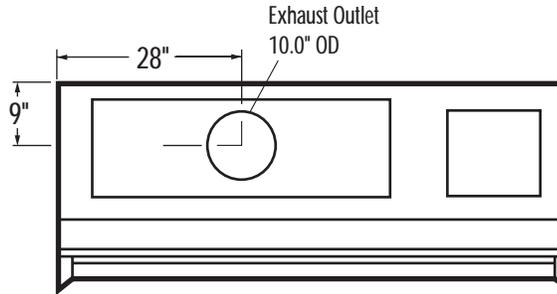
D I M E N S I O N S

36210 Series

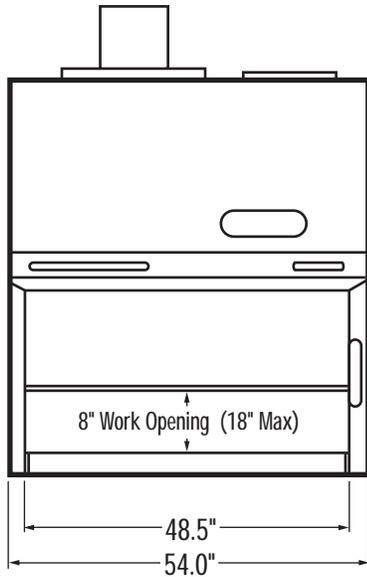


TOP

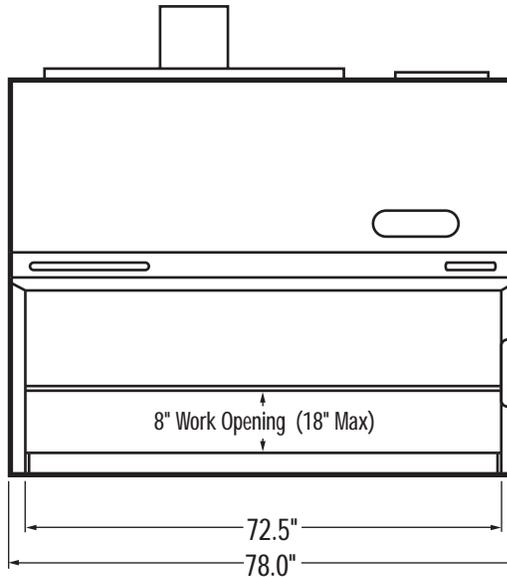
36214 Series



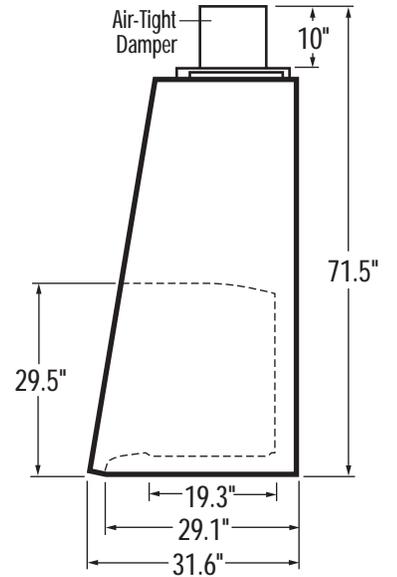
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FRONT



FRONT



SIDE

Purifier® Delta® Series Total Exhaust Safety Cabinets

ACCESSORIES



Safety Orange Air Foil

Bold orange color cautions the operator to avoid storing or placing materials in this area where airflow is critical. The air foil is epoxy-coated stainless steel and may be factory installed or retrofitted on site. Contact Labconco at

800-821-5525, 816-333-8811 or labconco@labconco.com for ordering information.

Bag-In/Bag-Out Exhaust Filter

Bag-In/Bag-Out feature allows a contaminated exhaust HEPA filter to be removed from the cabinet without directly contacting it. Contact Labconco at 800-821-5525, 816-333-8811 or labconco@labconco.com for ordering information.



Telescoping Base Stands

Epoxy-coated steel. Meet NSF Standard for stability and construction. Adjust in 1" increments to provide a working height from 30 to 36". Available with fixed feet or casters. See pages 60 and 61 for more information.



Unassembled Base Stands

Epoxy-coated steel. Meet NSF Standard for stability and construction. Shipped unassembled for economical transport and storage. Available in two fixed heights, 26.6" and 32.6". See page 65 for more information.



Seismic Base Stands

Epoxy-coated 2" tubular steel. Meet NSF Standard for stability and construction. Secure cabinets in earthquake-prone regions. Fixed height. See page 65 for more information.



3747500 Service Fixture Kit

Includes serrated hose tip valve with quarter-turn control handle, hardware and instructions for plumbing to services. Mounts on left or right side interior. Cabinets are factory-prepared to accommodate up to four fixtures.

Installation is required. Shipping weight 4.0 lbs. (1.8 kg)

Ultraviolet Lamp Kits

Include 254 nm UV lamp and installation instructions. Kit 3745000 also includes a ballast.

Catalog #	For use with	Shipping Weight
3745000	4-Ft Purifier Delta Series	5.0 lbs. (2.3 kg)
3745001	6-Ft Purifier Delta Series	3.0 lbs. (1.4 kg)



IV Bar Kits

Bar supports intravenous solution bottles and bags. Kits include IV bar, mounting hardware and four hangers. **Installation is required.**

Catalog #	For use with	Shipping Weight
3745501	4-Ft Purifier Delta Series	4.0 lbs. (1.8 kg)
3745502	6-Ft Purifier Delta Series	6.0 lbs. (2.7 kg)



3663500 Remote Blower

Belt drive with adjustable sheave and integral backdraft damper. Inlet and outlet accept 12" nominal diameter duct. Shipping weight 100 lbs. (45 kg). See page 68 for more information.



3744000 Ergonomic Chair with Armrests

Chair has 6-way articulating seat and back control for personalized adjustment. Pneumatic mechanism adjusts seat height from 18.25" to 25.75". Shipping weight 35.0 lbs. (15.9 kg). See page 66 for more information.



3746000 Adjustable Footrest

Elevates feet and permits angle repositioning while in use. 18.5" w x 11.5" d x 8" high. Shipping weight 6.0 lbs. (2.7 kg)



8022000 Delta Cart

Provides convenient storage of supplies. Shipping weight 50 lbs. (23 kg). See page 66 for more information.

Purifier® Delta® Series Class II, Type A2 & B2 Safety Cabinets

DUCTWORK

Thermoplastic Duct

PVC exhaust duct in 10' length. A Female Duct Coupling and solvent cement are required to join two sections.

Catalog #	7027200	5602000
Nominal Diameter	10"	12"
Actual OD	10.750"	12.750"
Actual ID	10.375"	12.375"
Shipping Weight	50 lbs. (23 kg)	65 lbs. (29 kg)

Female Duct Couplings

PVC coupling joins two sections of Thermoplastic Duct.

Catalog #	7027500	5602300
Nominal Diameter	10"	12"
Shipping Weight	5 lbs. (2 kg)	6 lbs. (3 kg)
Equivalent Resistance*	0	0

90° Elbows

PVC Elbow has belled end connections to receive Thermoplastic Duct or Male Duct Coupling directly.

Catalog #	7027300	5602100
Nominal Diameter	10"	12"
Shipping Weight	12 lbs. (5 kg)	14 lbs. (6 kg)
Equivalent Resistance*	20 ft.	25 ft.

Male Duct Couplings

PVC duct in 6" length. Facilitates connection between Remote Blowers #3668000, 3668001, or 3663500 and 90° Elbow.

Catalog #	7027800	7067300
Nominal Diameter	10"	12"
Actual OD	10.750"	12.750"
Actual ID	10.375"	12.375"
Shipping Weight	5 lbs. (2 kg)	6 lbs. (3 kg)

Flexible Duct Connections

Reduce vibration between the blower and PVC ductwork. Supplied with two clamps.

Catalog #	7034200	5621400
Nominal Diameter	11" for use with 10" fittings	13" for use with 12" fittings
Shipping Weight	5 lbs. (2 kg)	5 lbs. (2 kg)

Thermoplastic Duct Reducer

PVC coupling type reducer joins PVC duct of different diameters.

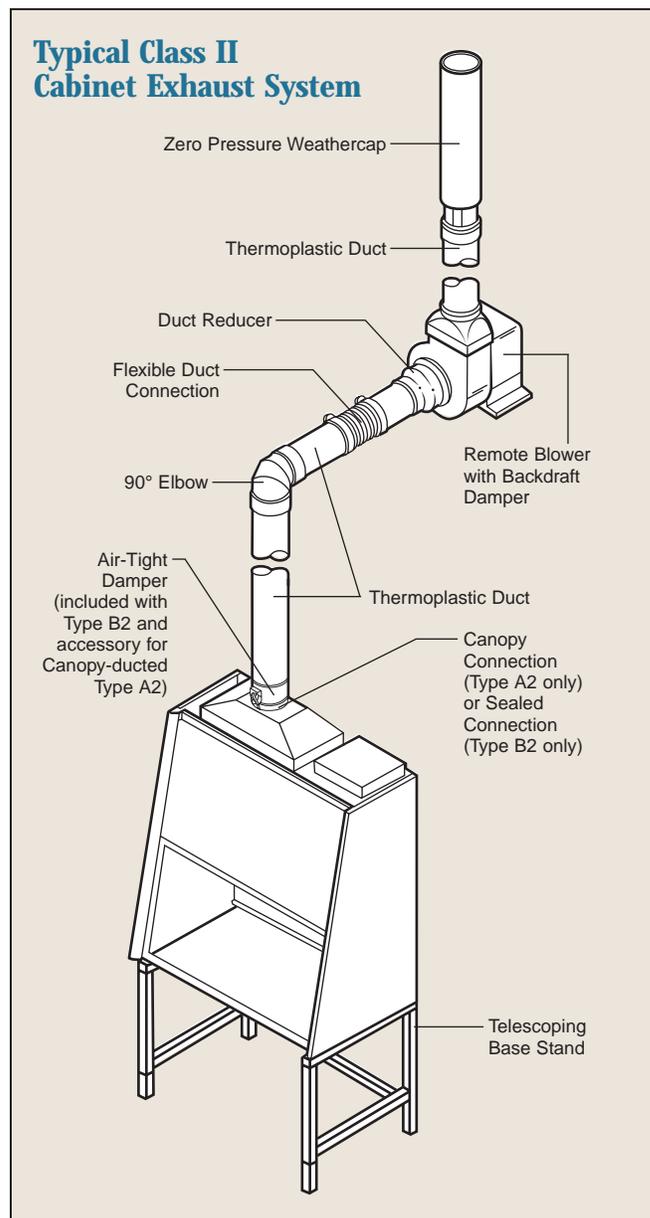
Catalog #	5606100
Nominal Size	10" x 12"
Shipping Weight	6 lbs. (3 kg)
Equivalent Resistance*	0

Zero Pressure Weathercaps

PVC Weathercap fits atop standard PVC duct, permits vertical discharge of effluent air above roofline for dispersion away from the building.

Catalog #	7095100	5622100
Nominal Diameter	10"	12"
Shipping Weight	30 lbs. (14 kg)	35 lbs. (16 kg)
Height	48"	56"
Equivalent Resistance*	5 ft.	5 ft.

*Equivalent resistance is measured in feet of straight duct.



Contact Labconco at 800-821-5525 or 816-333-8811 for technical assistance in selecting the right ductwork for your installation.