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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.

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△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.**



Optional ADA-compliant service fixtures.

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

Two ADA-compliant electrical duplex receptacles.

△ *Reserve-Air™ Secondary Airflow Slots.**



△ *Curved air foil.**

△ *Safety color-coded towel catch.**

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

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△ 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

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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.

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

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

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