



Paramount
DUCTLESS ENCLOSURES

Paramount



LABCONCO
Ductless Enclosure



Protecting your
laboratory environment

LABCONCO

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**Paramount® casts
ductless enclosures in
a whole new light.**

Paramount Ductless Enclosures are self-contained work stations that, unlike traditional fume hoods, do not require ducting to the outside. "Ductless" offers many advantages including:

- Flexibility of placement including hard-to-vent areas such as the center or bottom level of a several story building
- Significant installation savings since ductless enclosures do not require ductwork and a remote blower
- Portability to allow sharing among several laboratories or storing when not in use
- No make up air requirements, therefore may be used in air-starved laboratories
- Energy savings since expensive heated or cooled air is not exhausted from the laboratory

Paramount Ductless Enclosures provide benefits that go well beyond these "ductless" advantages. Labconco applied our expertise and experience in ducted fume hoods along with innovations unique to carbon-filtered technology to create the newest generation of ductless fume hoods — the Paramount.



The Paramount Ductless Enclosure 6963401 is shown on Work Surface 3909902 and Protector Standard Base Cabinet 9900000.

QUIETER, COOLER AND MORE ENERGY EFFICIENT

The electronically commutated motor (ECM) found in every Paramount is 95% efficient, consuming less energy than conventional motors. As Table 1 on page 4 illustrates, a 3' Paramount uses about the same amount of electricity as a 60 watt light bulb, which adds up to only about \$11 per year to operate.

The efficient ECM motor generates less heat and operates quietly for a more comfortable working environment than enclosures using conventional motors.

HIGH PERFORMANCE CONTAINMENT

Patented* Zone-Perforated Rear Baffle

The baffle with three zoned sections of perforations directs inflow air in non-turbulent horizontal laminar air streams from the sash opening to the baffle in a single pass. The lower section provides more airflow at the bottom to help minimize the potential for air to roll forward toward the sash opening.

Patented* Clean-Sweep™ Air Foil

The aerodynamic air foil allows air to sweep the work surface for maximum containment. Clean-Sweep openings pull inflow air from under the air foil so that clean air continually flows through the air foil creating a constant protective contaminant barrier. Should the operator inadvertently block the airflow, air continues to pass under the air foil and through the Clean-Sweep openings.

Side-Entry Air Foils

Aerodynamic air foils located on either side of the sash opening direct clean airflow into the chamber.

Upper Dilution Air Supply

The upper dilution air supply introduces air from above the work area, which bathes the back of the sash with clean air and directs concentrations away from the sash opening.

Upper Containment Sash Foil

A small gap directly above the aerodynamic sash handle allows high velocity air to bleed into the chamber, reducing turbulence and directing concentrations away from the user's breathing zone.

PEACE OF MIND

The Safety-First™ Organic Sensor gives the operator confidence that the filters are adsorbing and keeping hazardous



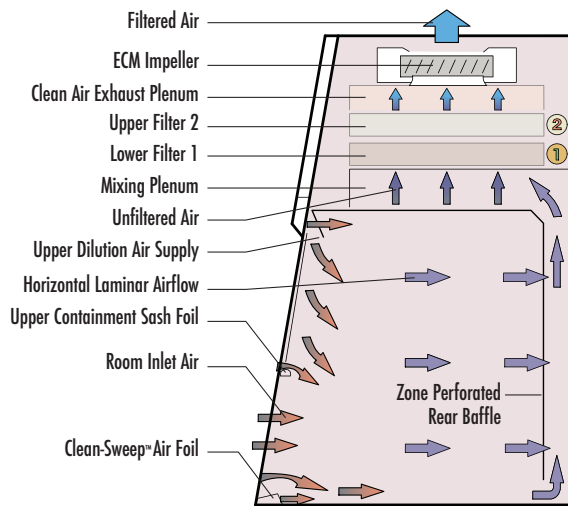
*U.S. Patent No. 6,461,233

Table 1

PARAMOUNT DUCTLESS ENCLOSURE WATTAGE AND OPERATING COSTS

Paramount Width	2'	3'	3'	4'	4'	5'	6'
Sash Height from Work Surface	9.4"	9.4"	12.0"	9.4"	12.0"	9.4"	12.0"
Blower Power (watts)	49	45	73	71	122	118	197
Light Power (watts)	22	24	24	32	32	39	53
Total Power with display (watts)	66	65	93	99	150	153	241
Yearly Electric Energy Cost (\$)*	\$11	\$11	\$16	\$16	\$25	\$26	\$40

*based on 2000 hours per year and \$0.078/kwh



Air enters the front and moves in horizontal laminar air streams to the baffle in a single pass.

vapors contained. The sensor detects filter breakthrough in the exhaust air and alerts the operator to replace the filters. Redundant monitoring by two sensors offers an added measure of safety. An early warning also provides the user a window of time (5-10% remaining filter life) in which to replace the filters. Table 2 on page 5 provides Sensitivity Alert Concentrations for a variety of chemicals.



The Smart-Flow™ Airflow Monitor continuously monitors airflow and displays face velocity on the LCD. The monitor enables the motor to automatically adjust for conditions such as temperature, barometric pressure and filter loading. Safe airflow is always maintained.

The Smart-Flow™ Airflow Monitor continuously monitors airflow and displays face velocity on the LCD. The monitor enables the motor to

DURABLE CONSTRUCTION

Like its extensive line of fume hoods, Labconco uses chemical-resistant, epoxy-coated metal in the construction of the Paramount to maximize product life and value. No unreliable plastic-to-plastic bonding is used. Unlike acrylic, safety glass sides, sash and optional baffle do not fog, craze or etch.

EFFICIENT STACKABLE FILTERS

The Paramount uses seven different filter types for application flexibility. An activated carbon filter adsorbs organic vapors and solvents. Five treated carbon filters chemically neutralize mineral acids, sulfur compounds, ammonia, amines, formaldehyde or iodine radioisotopes. A 99.99% efficient HEPA filter removes airborne particulates, dust and powders. Filters are stackable so that any two types of filters may be used in the Paramount at one time allowing for mixed chemical applications.

VERIFIED PERFORMANCE

Various tests were conducted to verify and confirm the Paramount Ductless Enclosure's ability to contain fumes and vapors:

ASHRAE 110-1995

ASHRAE 110-1995 results showed less than 0.05 ppm average concentrations during tracer gas tests and no escape observed during smoke tests when challenged at 50 fpm face velocities. Although acceptable containment was achieved as low as 50 fpm, Labconco recommends a minimum face velocity of 60 fpm for an added margin of safety. Paramount Ductless Enclosures are factory set to operate at 80 fpm and may be increased to 100 fpm as needed.

Filtration Efficiency

Utilizing analytical instrumentation, an independent laboratory tested the Organic Vapor Filter and Acid Vapor Filter for filtration efficiency of acetone, ethyl alcohol, isopropyl alcohol, hydrochloric acid and toluene. Test results showed the filters had an efficiency of 30-40%, confirming the efficiency suggested by the carbon filter manufacturer.

Particulate Containment

Labconco measured the ability of the Paramount Ductless Enclosure to contain powders during weighing and dispensing tasks. Naproxen sodium, a non-potent active pharmaceutical ingredient, was selected for the study because it is safe to handle, readily detectable in air at low concentrations and has a high dustiness quotient. SafeBridge Consultants, Incorporated, analyzed the samples. The test results showed that the Paramount Ductless Enclosure demonstrated excellent containment when used by an operator using proper technique and good containment when used by an operator using marginal technique. While no enclosure can compensate for improper user technique, these test results confirmed that the Paramount provides a safe working environment.

THE RIGHT ENCLOSURE FOR YOU

Since carbon filters are limited to removing specific chemical fumes at specific concentrations, no ductless fume hood is right for every application. Before you decide whether the Paramount is appropriate for you, please complete the Chemical Assessment Form in the back pocket of this catalog and fax it to a Labconco Ventilation Specialist. The form is also available on Labconco's website at www.labconco.com/chemical_usage.shtml. Using Labconco's exclusive chemical assessment program, a Labconco Ventilation Specialist will analyze your application and recommend the right enclosure for you.



Paramount Ductless Enclosures with the optional glass baffle provide 360° visibility, well suited for classroom demonstrations. Paramount Ductless Enclosure 6963302 is shown on Work Surface 3909901 and Telescoping Base Stand with casters 3746711.

Table 2

Chemical Family	Chemical Name	Sensitivity Alert Concentration	Odor Threshold (ppm)	Exposure Limit TWA (ppm)	Filter Capacity (% W)	Filter Type
Aldehydes & Ketones	Cyclohexanone	0.2-0.5 ppm	0.068	50	22%	OV
Mixture of Aliphatic Hydrocarbons	Gasoline	0.3-1.0 ppm	0.3	300	11%	OV
Particulates	Cigarette Smoke	0.4-1.0 ppm	N/A	N/A	N/A	OV, HEPA
Aldehydes & Ketones	Acetone	0.5-1.0 ppm	4.58	250	2%	OV
Aromatic Hydrocarbons	Toluene	0.5-1.0 ppm	0.16	100	20%	OV
Ethers	Methyl Tert-Butyl Ether	0.5-1.0 ppm	0.053	50	9%	OV
Sulfur Compounds	Hydrogen Sulfide	0.5-2.0 ppm	0.0005	10	10%	AG
Nitrogen Compounds	Diethylamine	1.5-2.0 ppm	0.186	10	7%	OV
Esters	Ethyl Acetate	1.5-4.0 ppm	0.61	400	9%	OV
Ethers	Diethyl Ether	2.0-4.0 ppm	2.29	400	4%	OV
Aldehydes	Formaldehyde	2.0-4.0 ppm	0.87	0.016-0.1	10%	FORM
Nitrogen Compounds	Ammonia Solution (Ammonium Hydroxide)	2.0-5.0 ppm	5.75	25	10%	AM
Alcohols	Ethyl Alcohol	2.5-4.0 ppm	0.136	1000	1.3%	OV
Acids	Acetic Acid	5.0-6.0 ppm	0.016	10	4%	OV
Halogens	Chlorobenzene	5.0-8.0 ppm	0.741	10	20%	OV
Alcohols	Isopropyl Alcohol	8.0-11.0 ppm	22.0	200	7%	OV
Aliphatic Hydrocarbons	Hexane	9.0-15.0 ppm	21.9	50	11%	OV
Alcohols	Methanol	15.0-25.0 ppm	141	200	0.1% Very low	Not recommended
Mineral Acids	Hydrochloric Acid	Not detected. Use other means.	0.77	5	17%	AG

OV = Organic Vapors, AG = Acid-Sulfur, FORM = Formaldehyde, AM = Ammonia-Amine

An online Chemical Guide is available at www.labconco.com/chemicalguide that allows you to search individual chemicals to determine their suitability for use with the Paramount. The Chemical Guide provides the appropriate Paramount Filter for each chemical.

FEATURES & BENEFITS

Paramount® Ductless Enclosures are self-contained while allowing for safe handling of organic, formaldehyde, acid gas, sulfur compounds or ammonia chemical fumes and vapors as well as particulates. Air inside the enclosure passes through carbon filters and, in some cases additional HEPA filters, before being safely exhausted back into the laboratory. Two filter types may be stacked for mixed chemical or combination gaseous/particulate applications. **No outside ducting is required.**

ELECTRONIC SECURITY LOCK, when enabled, prevents operation of the enclosure by unauthorized users. The user must enter the proper sequence of keystrokes to begin operation.

FLUORESCENT LIGHT illuminates the interior. Timer may be set for a specific time period for energy-savings as well as a safeguard for light-sensitive materials.

UPPER DILUTION AIR SUPPLY sweeps clean air to the back of the sash to keep contaminants away from the operator.

UPPER CONTAINMENT SASH FOIL directs contaminants away from the user's breathing zone.

SIDE-ENTRY AIR FOILS allow air to sweep interior surfaces to enhance containment.

PATENTED* CLEAN-SWEEP™ AIR FOIL allows air to sweep the work surface to maximize containment.

SAFETY-FIRST™ VAPOR SENSOR accurately detects filter breakthrough. Primary and secondary backup sensors provide redundant monitoring and detection of organic solvents, smoke particulates, ammonia gases, formaldehyde gases and hydrosulfide gases. The sensor also provides an early warning when 5-10% of filter life is remaining to allow time for the user to change filters.

DURABLE EPOXY-COATED ALUMINUM FRAME, STEEL REAR BAFFLE AND PLENUM provide chemical resistance and robust construction. No unreliable plastic-to-plastic bonding is used.

QUIETER, COOLER AND MORE ENERGY-EFFICIENT ECM IMPELLER is 95% efficient, generates less heat for more comfortable working conditions, and operates from 52 to 62 dBA at 80 fpm depending on model.

SMART-FLOW™ SYSTEM adjusts the motor speed automatically for filter pressure drop, barometric pressure and room temperature, and maintains constant airflow at the calibrated value.

ACCOMMODATES SEVEN FILTER TYPES to cover a wide variety of needs. Filters are stackable to handle mixed chemical applications.

LARGE LCD displays face velocity and filter status, and touchpad control of enclosure operation. Filter life and check timers trigger audible/visual alert messages after the specified number of hours has elapsed.

TWO UTILITY PORTS allow passage of tubing, electrical cords and interface cables from inside to back exterior for connection to services.

ERGONOMIC ANGLED SASH AND PATENTED SLOPED FRONT** allow a closer view of the work area, reduce glare and provide a more comfortable operating position. Hinged sash pivots upward for loading and has a wiping seal to contain contaminants. Taller models incorporate an external gas-assist lift.

SPACIOUS SASH OPENING provides comfortable access to the work area. Opening spans the width of the enclosure and is 9.4" (23.9 cm) or 12.0" (48.3 cm) high depending on the model.



PATENTED* REAR BAFFLE with zones of perforations promotes non-turbulent horizontal laminar airflow. The baffle pivots down for cleaning.

OPTIONAL CLEAR SAFETY GLASS BAFFLE provides 360° visibility for teaching demonstrations. The baffle pivots down for cleaning.

DURABLE TEMPERED SAFETY GLASS FRONT SASH AND SIDES provide visibility, ambient light and chemical resistance. Glass does not easily discolor or craze like plastic can.



CONVENIENT, FRONT-ACCESSIBLE FILTER REPLACEMENT. The gas spring-assisted clamping mechanism opens effortlessly and applies uniform pressure across the top surface of the filters for leak-proof, one-step filter replacement.



SPECIFICATIONS



Above: Three screens alternate on the LCD display: filter types and status, estimated filter life for the bottom filter(s), and estimated filter life for the top filter(s). All three screens display face velocity. **At left:** 6' Paramount Ductless Enclosure 6963601 is shown on Work Surface 3975602, Hydraulic Lift Base Stand 3780402, and Caster Kit 3784000. Work Surface, Base Stand, Caster Kit and filters are sold separately.

ALL MODELS FEATURE

- Ergonomic air foil with aerodynamic Clean-Sweep™ airflow openings*
- Upper dilution air supply
- Upper containment sash foil
- Zone-perforated, rear baffle that pivots down for cleaning*
 - Side-entry air foils
- Safety-First™ vapor sensor with early audible warning for accurate detection of filter breakthrough
- ECM impeller with timer that operates at 52-62 dBA at 80 feet per minute. 6' Paramounts have two impellers.
- Smart-Flow™ system to automatically adjust motor speed for filter pressure drop, barometric pressure and room temperature
- LCD message center, 3" x 1.5" (7.6 x 3.8 cm), to provide continuous status reports for each filter, airflow speed, and filter saturation and low airflow alarm messages
 - Filter life and check timers with audible/LCD visual elapsed time alerts
 - Digital touchpad controls
- Dry powder epoxy-coated aluminum frame and steel rear plenum and baffle. No unreliable plastic-to-plastic bonding is used.
 - Pre-wired fluorescent lamp with timer
 - Electronic security lock (optional activation) that requires password to change operating parameters
 - ¼" thick tempered safety glass front sash and sides
 - Ergonomic angled and hinged sash that pivots upward, locks in

- the "up" position, and has a wiping seal to contain contaminants.**
- 5' and 6' models incorporate an external gas-assist lift.
- Particulate containment data independently confirmed by SafeBridge Consultants Inc.
- 8.2' (250 cm) power cord and plug

OPTIONS:

- 2', 3', 4', 5' and 6' nominal widths
- Variety of height and depths
- International electrical configurations
- 1/4" thick tempered safety glass baffle without perforations that pivots down for cleaning

ALL MODELS CONFORM TO THE FOLLOWING REGULATIONS AND STANDARDS:

- SEFA 1-2005
- ASHRAE 110-95
- ANSI Z9.5-2003
- UL 3101-1/61010-1
- CAN/CSA C22.2 No. 1010.1
- CE Conformity Marking (230 volt models)

ALL MODELS REQUIRE (NOT INCLUDED):

- Work Surface and Base. See pages 11-13.
- Filters. See page 10.

*Exclusive feature

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

**U.S. Patent No.538,941

ORDERING INFORMATION

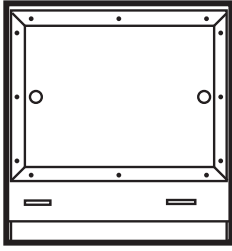
Nominal Width	Catalog (Description)	Electrical Requirements	Overall W x D x H	Internal Working Height	Sash Opening Working Height	Sash Opening Loading Height*	Face Velocity (fpm)	Airflow Exhaust Volume (CFM)	Noise Pressure (dba)	Shipping Weight (lbs./kg)
2'	6963200 (Std.)	115 volts, 50/60 Hz	24.0" x 29.0" x 43.7" (61.0 x 73.7 x 111.0 cm)	22.7" (57.7 cm)	9.4" (23.9 cm)	19.0" (48.3 cm)	60	85	50	175/79
							80	115	54	
							100	145	59	
2'	6963220** (Std.)	230 volts, 50/60 Hz	24.0" x 29.0" x 43.7" (61.0 x 73.7 x 111.0 cm)	22.7" (57.7 cm)	9.4" (23.9 cm)	19.0" (48.3 cm)	60	85	50	175/79
							80	115	54	
							100	145	59	
3'	6963300 (Std.)	115 volts, 50/60 Hz	36.0" x 29.0" x 43.7" (91.4 x 73.7 x 111.0 cm)	22.7" (57.7 cm)	9.4" (23.9 cm)	19.0" (48.3 cm)	60	130	46	225/102
							80	175	52	
							100	220	56	
3'	6963301 (Tall)	115 volts, 50/60 Hz	36.0" x 29.0" x 53.0" (91.4 x 73.7 x 134.6 cm)	32.0" (81.3 cm)	12.0" (30.5 cm)	28.3" (71.8 cm)	60	170	52	255/116
							80	230	57	
							100	285	62	
3'	6963302† (Tall & Clear)	115 volts, 50/60 Hz	36.0" x 29.0" x 53.0" (91.4 x 73.7 x 134.6 cm)	32.0" (81.3 cm)	12.0" (30.5 cm)	28.3" (71.8 cm)	60	170	52	275/125
							80	230	57	
							100	285	62	
3'	6963320** (Std.)	230 volts, 50/60 Hz	36.0" x 29.0" x 43.7" (91.4 x 73.7 x 111.0 cm)	22.7" (57.7 cm)	9.4" (23.9 cm)	19.0" (48.3 cm)	60	130	46	225/102
							80	175	52	
							100	220	56	
3'	6963321** (Tall)	230 volts, 50/60 Hz	36.0" x 29.0" x 53.0" (91.4 x 73.7 x 134.6 cm)	32.0" (81.3 cm)	12.0" (30.5 cm)	28.3" (71.8 cm)	60	170	52	255/116
							80	230	57	
							100	285	62	
3'	6963322**† (Tall & Clear)	230 volts, 50/60 Hz	36.0" x 29.0" x 53.0" (91.4 x 73.7 x 134.6 cm)	32.0" (81.3 cm)	12.0" (30.5 cm)	28.3" (71.8 cm)	60	170	52	275/125
							80	230	57	
							100	285	62	
4'	6963400 (Std.)	115 volts, 50/60 Hz	48.0" x 29.0" x 43.7" (121.9 x 73.7 x 111.0 cm)	22.7" (57.7 cm)	9.4" (23.9 cm)	19.0" (48.3 cm)	60	175	53	275/125
							80	235	57	
							100	295	62	
4'	6963401 (Tall)	115 volts, 50/60 Hz	48.0" x 29.0" x 53.0" (121.9 x 73.7 x 134.6 cm)	32.0" (81.3 cm)	12.0" (30.5 cm)	28.3" (71.8 cm)	60	230	57	315/143
							80	305	62	
							100	380	67	
4'	6963402† (Tall & Clear)	115 volts, 50/60 Hz	48.0" x 29.0" x 53.0" (121.9 x 73.7 x 134.6 cm)	32.0" (81.3 cm)	12.0" (30.5 cm)	28.3" (71.8 cm)	60	230	57	345/156
							80	305	62	
							100	380	67	
4'	6963403 (Tall & Deep)	115 volts, 50/60 Hz	48.0" x 35.5" x 56.0" (121.9 x 90.2 x 142.2 cm)	35.0" (88.9 cm)	12.0" (30.5 cm)	31.3" (79.4 cm)	60	230	59	540/245
							80	305	62	
							100	380	67	
4'	6963420** (Std.)	230 volts, 50/60 Hz	48.0" x 29.0" x 43.7" (121.9 x 73.7 x 111.0 cm)	22.7" (57.7 cm)	9.4" (23.9 cm)	19.0" (48.3 cm)	60	175	53	275/125
							80	235	57	
							100	295	62	
4'	6963421** (Tall)	230 volts, 50/60 Hz	48.0" x 29.0" x 53.0" (121.9 x 73.7 x 134.6 cm)	32.0" (81.3 cm)	12.0" (30.5 cm)	28.3" (71.8 cm)	60	230	57	315/143
							80	305	62	
							100	380	67	
4'	6963422**† (Tall & Clear)	230 volts, 50/60 Hz	48.0" x 29.0" x 53.0" (121.9 x 73.7 x 134.6 cm)	32.0" (81.3 cm)	12.0" (30.5 cm)	28.3" (71.8 cm)	60	230	57	345/156
							80	305	62	
							100	380	67	
4'	6963423** (Tall & Deep)	230 volts, 50/60 Hz	48.0" x 35.5" x 56.0" (121.9 x 90.2 x 142.2 cm)	35.0" (88.9 cm)	12.0" (30.5 cm)	31.3" (79.4 cm)	60	230	59	540/245
							80	305	62	
							100	380	67	
5'	6963501 (Tall)	115 volts, 50/60 Hz	60.0" x 29.0" x 53.0" (152.4 x 73.7 x 134.6 cm)	32.0" (81.3 cm)	9.4" (23.9 cm)	28.3" (71.8 cm)	60	220	57	395/179
							80	295	62	
							100	370	67	
5'	6963503 (Tall & Deep)	115 volts, 50/60 Hz	60.0" x 35.5" x 56.0" (152.4 x 90.2 x 142.2 cm)	35.0" (88.9 cm)	9.4" (23.9 cm)	31.3" (79.4 cm)	60	220	57	565/256
							80	295	62	
							100	370	67	
5'	6963521** (Tall)	230 volts, 50/60 Hz	60.0" x 29.0" x 53.0" (152.4 x 73.7 x 134.6 cm)	32.0" (81.3 cm)	9.4" (23.9 cm)	28.3" (71.8 cm)	60	220	57	395/179
							80	295	62	
							100	370	67	
5'	6963523** (Tall & Deep)	230 volts, 50/60 Hz	60.0" x 35.5" x 56.0" (152.4 x 90.2 x 142.2 cm)	35.0" (88.9 cm)	9.4" (23.9 cm)	31.3" (79.4 cm)	60	220	57	565/256
							80	295	62	
							100	370	67	
6'	6963601 (Tall)	115 volts, 50/60 Hz	72.0" x 29.0" x 53.0" (182.9 x 73.7 x 134.6 cm)	32.0" (81.3 cm)	12.0" (30.5 cm)	28.3" (71.8 cm)	60	350	57	475/215
							80	465	61	
							100	580	66	
6'	6963603 (Tall & Deep)	115 volts, 50/60 Hz	72.0" x 35.5" x 56.0" (182.9 x 90.2 x 142.2 cm)	35.0" (88.9 cm)	12.0" (30.5 cm)	31.3" (79.4 cm)	60	350	57	680/308
							80	465	61	
							100	580	66	
6'	6963621** (Tall)	230 volts, 50/60 Hz	72.0" x 29.0" x 53.0" (182.9 x 73.7 x 134.6 cm)	32.0" (81.3 cm)	12.0" (30.5 cm)	28.3" (71.8 cm)	60	350	57	475/215
							80	465	61	
							100	580	66	
6'	6963623** (Tall & Deep)	230 volts, 50/60 Hz	72.0" x 35.5" x 56.0" (182.9 x 90.2 x 142.2 cm)	35.0" (88.9 cm)	12.0" (30.5 cm)	31.3" (79.4 cm)	60	350	57	680/308
							80	465	61	
							100	580	66	

*Locking height is 2.5" (6.4 cm) less than the loading height.

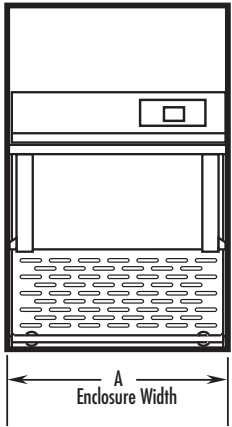
** International electrical configuration

† 360° visibility with glass rear wall and baffle

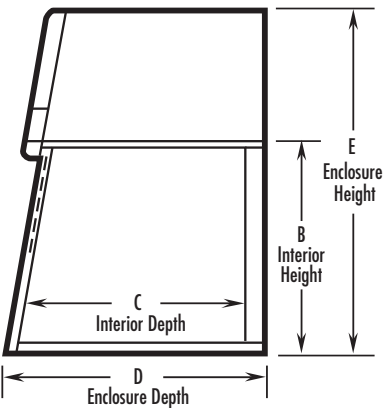
DIMENSIONAL DATA



TOP

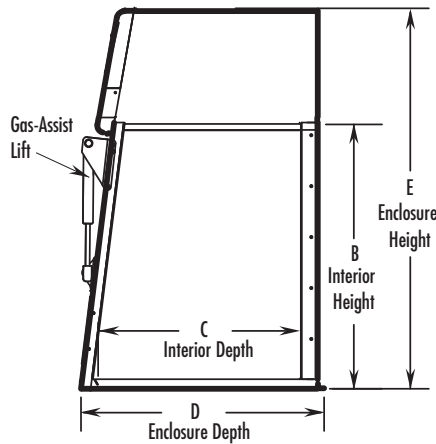


FRONT



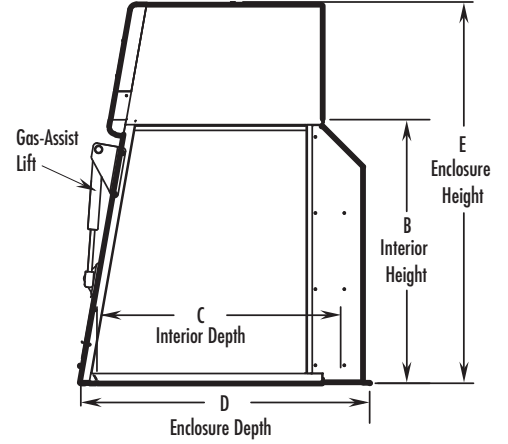
SIDE
(Standard Models)

6963200, 6963220,
6963300, 6963320,
6963400, 6963420



SIDE
(Tall Models)

6963301, 6963302,
6963321, 6963322,
6963401, 6963402,
6963421, 6963422,
6963501, 6963521,
6963601, 6963621



SIDE
(Tall & Deep Models)

6963403, 6963423,
6963503, 6963523,
6963603, 6963623

Catalog Numbers	Paramount Description	Overall Width A	Interior Height B	Interior Depth C	Exterior Depth D	Exterior Height E	Sash Opening F
6963200 6963220	2' Standard	24.0" (61.0 cm)	22.7" (57.7 cm)	23.4" (59.4 cm)	29.0" (73.7 cm)	43.7" (111.0 cm)	9.4" (23.9 cm)
6963300 6963320	3' Standard	36.0" (91.4 cm)	22.7" (57.7 cm)	23.4" (59.4 cm)	29.0" (73.7 cm)	43.7" (111.0 cm)	9.4" (23.9 cm)
6963301 6963321	3' Tall	36.0" (91.4 cm)	32.0" (81.3 cm)	23.4" (59.4 cm)	29.0" (73.7 cm)	53.0" (134.6 cm)	12.0" (30.5 cm)
6963302 6963322	3' Tall with Clear Baffle	36.0" (91.4 cm)	32.0" (81.3 cm)	23.4" (59.4 cm)	29.0" (73.7 cm)	53.0" (134.6 cm)	12.0" (30.5 cm)
6963400 6963420	4' Standard	48.0" (121.9 cm)	22.7" (57.7 cm)	23.4" (59.4 cm)	29.0" (73.7 cm)	43.7" (111.0 cm)	9.4" (23.9 cm)
6963401 6963421	4' Tall	48.0" (121.9 cm)	32.0" (81.3 cm)	23.4" (59.4 cm)	29.0" (73.7 cm)	53.0" (134.6 cm)	12.0" (30.5 cm)
6963402 6963422	4' Tall with Clear Baffle	48.0" (121.9 cm)	32.0" (81.3 cm)	23.4" (59.4 cm)	29.0" (73.7 cm)	53.0" (134.6 cm)	12.0" (30.5 cm)
6963403 6963423	4' Tall & Deep	48.0" (121.9 cm)	35.0" (88.9 cm)	30.0" (76.2 cm)	35.5" (90.2 cm)	56.0" (142.2 cm)	12.0" (30.5 cm)
6963501 6963521	5' Tall	60.0" (152.4 cm)	32.0" (81.3 cm)	23.4" (59.4 cm)	29.0" (73.7 cm)	53.0" (134.6 cm)	9.4" (23.9 cm)
6963503 6963523	5' Tall & Deep	60.0" (152.4 cm)	35.0" (88.9 cm)	30.0" (76.2 cm)	35.5" (90.2 cm)	56.0" (142.2 cm)	9.4" (23.9 cm)
6963601 6963621	6' Tall	72.0" (182.9 cm)	32.0" (81.3 cm)	23.4" (59.4 cm)	29.0" (73.7 cm)	53.0" (134.6 cm)	12.0" (30.5 cm)
6963603 6963623	6' Tall & Deep	72.0" (182.9 cm)	35.0" (88.9 cm)	30.0" (76.2 cm)	35.5" (90.2 cm)	56.0" (142.2 cm)	12.0" (30.5 cm)

FILTERS & ACCESSORIES



Below is an Application Matrix that provides examples of appropriate uses for Paramount Carbon and HEPA Filters. Whether or not any ductless enclosure is 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 you determine if the Paramount Ductless Enclosure is the right ventilation product for your application and, if so, estimate filter life. To begin the process, please complete the Chemical Usage Assessment Form in the back pocket of this brochure and fax it to Labconco at 816-363-0130. An online form is also available at www.labconco.com/chemical_usage.html. To discuss your application with a technical specialist, please call 800-821-5525 or 816-333-8811.

Filters are available in seven different types and any two types of filters may be stacked to handle mixed chemical applications. An online Chemical Guide is available at www.labconco.com/chemicalguide that allows you to search individual chemicals to determine their suitability for use with the Paramount. The Chemical Guide provides the appropriate Paramount Filter for each chemical.

APPLICATION MATRIX

Filter Type	Organic	Acid-Sulfur	Ammonia	Formaldehyde	Radioisotope	Mixed Bed	HEPA	HEPA + Carbon*
Acid pouring and mixing		▼				▼		
Asbestos handling							▼	
Cleanroom/critical environment								▼
Combination dry and liquid chemicals								▼
Endoscopy instrument cleaning				▼				
Fertilizer research			▼					
Histology/cytology tissue staining, coverslipping	▼					▼		
Hormone research							▼	▼
Iodine isotope handling					▼			
Non-biohazardous microbiological samples with trace chemicals**								▼
Particulates in conjunction with chemical agents								▼
Pathology/tissue grossing				▼		▼		
Pollen handling							▼	
Science education						▼		
Soldering	▼							▼
Solvent cleaning, welding/gluing	▼					▼		

*A combination of HEPA filter(s) and any other carbon filter type appropriate to the application may be used.

**The Paramount Ductless Enclosure is not designed to accommodate changing and disposal of biohazardous filters and materials and, therefore, should not be used as a biosafety enclosure.

Paramount Width	No. of Filters Required (not included)*	Total Organic Vapor Filter Weight
2'	2	15 lbs. (6.8 kg)
3'	4	30 lbs. (13.6 kg)
4'	6	45 lbs. (20.4 kg)
5'	6	45 lbs. (20.4 kg)
6'	8	60 lbs. (27.2 kg)

*Labconco strongly recommends ordering and keeping an extra set of filters to have readily available when filters become saturated and require replacement.

PARAMOUNT FILTERS

Contain porous, coconut shell carbon for maximum adsorption. Roughing prefilters are adhered to both sides of each filter to remove dust and other particles. All impregnated carbon filters contain 25% activated carbon by weight.

Catalog Number	Filter Description	Shipping Weight (lbs./kg)
6938100	HEPA, 99.99% efficient particulate	9.0/4.0
6938200	Activated Carbon, Organic Vapor, 7.5 lbs.	12.5/5.7
6938201	Impregnated Carbon, Acid-Sulfur, 10 lbs.	15.0/6.8
6938202	Impregnated Carbon, Ammonia-Amine, 11 lbs.	16.0/7.3
6938203	Impregnated Carbon, Formaldehyde, 10 lbs.	15.0/6.8
6938204	Mixed Bed Carbon, 10 lbs. Contains approximately 43% Activated Carbon (Organic Vapor), 19% Acid-Sulfur, 19% Ammonia-Amine and 19% Formaldehyde by weight	15.0/6.8
6938205	Impregnated Carbon, Radioisotope, 10 lbs.	15.0/6.8

FILTER ACCESSORIES

Catalog Number	Description	Shipping Weight (lbs./kg)
6924900	Syringe Kit for carbon filter saturation detection	1.0/0.5
6925700	Ammonia Detector Tubes, package of 3	0.5/0.2
6925800	Acid Gas Detector Tubes, package of 3	0.5/0.2
6926000	Formaldehyde Detector Tubes, package of 3	0.5/0.2

WORK SURFACES

BLACK SOLID EPOXY WORK SURFACES

Paramount Ductless Enclosures require a work surface. Chemical-resistant, black solid epoxy work surfaces, offered in 2', 3', 4', 5' and 6' widths, are dished to contain spills and contoured to fit the dimensions of Paramount Ductless Enclosures.



Catalog Number	Nominal Width	For use with:	Dimensions (width x depth x thickness)	Shipping Weight (lbs./kg)
3909900	2'	Paramount	24.0" x 29.0" x 1.0" (61.1 x 73.7 x 2.5 cm)	50/23
3909901	3'	Paramount	36.0" x 29.0" x 1.0" (91.4 x 73.7 x 2.5 cm)	75/34
3909902	4'	Paramount	48.0" x 29.0" x 1.0" (121.9 x 73.7 x 2.5 cm)	100/45
3909906	4'	Paramount, Deep	48.0" x 35.5" x 1.0" (121.9 x 90.2 x 2.5 cm)	125/56
3909907	5'	Paramount	60.0" x 29.0" x 1.0" (152.4 x 73.7 x 2.5 cm)	125/56
3909908	5'	Paramount, Deep	60.0" x 35.5" x 1.0" (152.4 x 90.2 x 2.5 cm)	155/70
3909910	6'	Paramount	72.0" x 29.0" x 1.0" (182.9 x 73.7 x 2.5 cm)	150/68
3909911	6'	Paramount, Deep	72.0" x 35.5" x 1.0" (182.9 x 90.2 x 2.5 cm)	186/84

STAINLESS STEEL WORK SURFACES

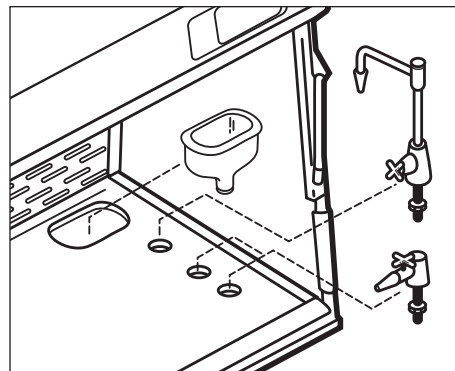
Paramount Ductless Enclosures require a work surface. Type 304 stainless steel work surfaces, offered in 35.5" depth and 4', 5' and 6' widths, include a 0.8" deep front trough to contain spills.



Catalog Number	Nominal Width	For use with:	Dimensions (width x depth x thickness)	Shipping Weight (lbs./kg)
3975504	4'	Paramount, Deep	48.0" x 35.5" x 0.8" (121.9 x 90.2 x 2.0 cm)	145/65
3975502	5'	Paramount	60.0" x 29.0" x 0.8" (152.4 x 73.7 x 2.0 cm)	150/68
3975503	5'	Paramount, Deep	60.0" x 35.5" x 0.8" (152.4 x 90.2 x 2.0 cm)	180/82
3975602	6'	Paramount	72.0" x 29.0" x 0.8" (182.9 x 73.7 x 2.0 cm)	180/82
3975603	6'	Paramount, Deep	72.0" x 35.5" x 0.8" (182.9 x 90.2 x 2.0 cm)	220/100

WORK SURFACES WITH DECK-MOUNTED SERVICE FIXTURES

Paramount Ductless Enclosures require a work surface. These chemical-resistant, black solid epoxy work surfaces, offered in 3', 4', 5' and 6' widths, are dished to contain spills and contoured to fit the dimensions of Paramount Ductless Enclosures. Pre-drilled holes allow installation of two deck-mounted service fixtures with hose barbs for plumbing to water, air and vacuum; a 3" x 6" cupsink; and a gooseneck faucet with vacuum breaker. Two standard chrome-plated service fixtures with turrets, hose barbs, brass valves and 3/8" NPS pipe connections; a 3" x 6" polypropylene oval cupsink; and a brass cold water faucet with swivel/rigid gooseneck, brass valve and 1/4" NPS pipe connection are included.



Catalog Number	Nominal Width	For use with:	Dimensions (width x depth x thickness)	Shipping Weight (lbs./kg)
6963800	3'	Paramount	36.0" x 29.0" x 1.0" (91.4 x 73.7 x 2.5 cm)	85/38
6963801	4'	Paramount	48.0" x 29.0" x 1.0" (121.9 x 73.7 x 2.5 cm)	110/50
6963802	5'	Paramount	60.0" x 29.0" x 1.0" (152.4 x 73.7 x 2.5 cm)	135/61
6963803	6'	Paramount	72.0" x 29.0" x 1.0" (182.9 x 73.7 x 2.5 cm)	160/72

BASE STANDS



Telescoping Base Stand
3746702. Inset: Accessory Shelf

TELESCOPING BASE STANDS

Epoxy-coated 1.75" (4.4 cm) tubular steel. Adjustable to eight height positions at installation in 1" (2.5 cm) from 27.5" (70 cm) to 34.5" (88 cm). Depth is 29.0" (74 cm). Available with fixed feet or 5" (13 cm) diameter casters. **Work surface is required.**



Hydraulic Lift Base Stand 3780201

HYDRAULIC LIFT BASE STANDS

Epoxy-coated 1.75" (4.4 cm) tubular steel with 2" x 3" (5 x 8 cm) tubular steel subframe. Infinitely adjustable from 25.5" (65 cm) to 33.5" (85 cm) high. Depth is 29.0" (74 cm). Powder-coated, die-cast feet with levelers. Electric models have up/down switch. Manual models have hand crank. **Work surface is required.**



Solo Hydraulic Lift Base Stand 3780311

SOLO™ HYDRAULIC LIFT BASE STANDS

Allow Paramount transport through standard doorways. For example, Paramount 6963403 mounted atop Work Surface 3909906 may be lowered to 71.2" (181 cm). Epoxy-coated steel. Remote-control operated hydraulic lift provides infinitely adjustable work surface heights from 15.2" (39 cm) to 34.8" (88 cm) high. Depth is 34.3" (87 cm). Toe-locking casters, 5" (13 cm) diameter, with bearings. **Work surface is required.**

TELESCOPING BASE STANDS

Nominal Width	Catalog #	Actual Width	Shipping Weight	Description
2'	3746700	24.0" (61 cm)	100 lbs. (45 kg)	With leveling feet
2'	3746710	24.0" (61 cm)	100 lbs. (45 kg)	With toe-locking casters
3'	3746701	36.0" (91 cm)	100 lbs. (45 kg)	With leveling feet
3'	3746711	36.0" (91 cm)	100 lbs. (45 kg)	With toe-locking casters
4'	3746702	48.0" (122 cm)	110 lbs. (50 kg)	With leveling feet
4'	3746712	48.0" (122 cm)	110 lbs. (50 kg)	With toe-locking casters
5'	3746703	60.0" (159 cm)	120 lbs. (54 kg)	With leveling feet
5'	3746713	60.0" (159 cm)	120 lbs. (54 kg)	With toe-locking casters
6'	3746704	72.0" (183 cm)	125 lbs. (57 kg)	With leveling feet
6'	3746714	72.0" (183 cm)	125 lbs. (57 kg)	With toe-locking casters
2'	3811100	20.4" (52 cm)	9 lbs. (4 kg)	Shelf, 9.9" d (25 cm), epoxy-coated steel
3'	3811101	32.4" (82 cm)	12 lbs. (5 kg)	Shelf, 9.9" d (25 cm), epoxy-coated steel
4'	3811102	44.4" (113 cm)	15 lbs. (7 kg)	Shelf, 9.9" d (25 cm), epoxy-coated steel
5'	3811103	56.4" (143 cm)	19 lbs. (9 kg)	Shelf, 9.9" d (25 cm), epoxy-coated steel
6'	3811104	68.4" (174 cm)	23 lbs. (10 kg)	Shelf, 9.9" d (25 cm), epoxy-coated steel
—	3857000	—	10 lbs. (5 kg)	Seismic Bracket Kit for securing stand to floor.

HYDRAULIC LIFT BASE STANDS

Nominal Width	Catalog #	Actual Width	Shipping Weight	Description
3'	3780300	36.0" (91 cm)	150 lbs. (68 kg)	Electric. 115 volts, 60 Hz, 2.4 amps
3'	3780303*	36.0" (91 cm)	150 lbs. (68 kg)	Electric. 230 volts, 50 Hz, 0.8 amp
3'	3780400	36.0" (91 cm)	150 lbs. (68 kg)	Manual
4'	3780301	48.0" (122 cm)	180 lbs. (82 kg)	Electric. 115 volts, 60 Hz, 2.4 amps
4'	3780304*	48.0" (122 cm)	180 lbs. (82 kg)	Electric. 230 volts, 50 Hz, 0.8 amp
4'	3780401	48.0" (122 cm)	180 lbs. (82 kg)	Manual
6'	3780302	72.0" (183 cm)	220 lbs. (100 kg)	Electric. 115 volts, 60 Hz, 2.4 amps
6'	3780305*	72.0" (183 cm)	220 lbs. (100 kg)	Electric. 230 volts, 50 Hz, 0.8 amp
6'	3780402	72.0" (183 cm)	220 lbs. (100 kg)	Manual
—	3784000	—	10 lbs. (5 kg)	Caster Kit, 5" dia. (13 cm), toe-locking

SOLO™ HYDRAULIC LIFT BASE STANDS

Nominal Width	Catalog #	Actual Width	Shipping Weight	Electrical Requirements
3'	3780310	53.5" (135 cm)	395 lbs. (179 kg)	115 volts, 60 Hz, 2 amps
3'	3780314*	53.5" (135 cm)	395 lbs. (179 kg)	230 volts, 50 Hz, 3 amps
4'	3780311	65.5" (166 cm)	435 lbs. (197 kg)	115 volts, 60 Hz, 2 amps
4'	3780315*	65.5" (166 cm)	435 lbs. (197 kg)	230 volts, 50 Hz, 3 amps
5'	3780312	77.5" (197 cm)	460 lbs. (209 kg)	115 volts, 60 Hz, 2 amps
5'	3780316*	77.5" (197 cm)	460 lbs. (209 kg)	230 volts, 50 Hz, 3 amps
6'	3780313	89.5" (227 cm)	600 lbs. (272 kg)	115 volts, 60 Hz, 2 amps
6'	3780317*	89.5" (227 cm)	600 lbs. (272 kg)	230 volts, 50 Hz, 3 amps

♿ Comply with height and knee clearance guidelines outlined in Americans with Disabilities Act (ADA) Standards for Accessible Design.

*International electrical configuration

BASE CABINETS





Protector Acid Storage Cabinets include a vacuum formed PVC tray, polyethylene liner and two rear vent connection cutouts.




Protector Solvent Storage Cabinets have dual wall epoxy-coated steel construction with 1.5" air gap. They include an epoxy-coated steel interior shelf and two rear vent connections with flame arrestors and closure plugs.

Four styles of Protector® Storage Cabinets are available to support the Paramount: Acid, Solvent, Standard and Vacuum. Each is constructed of epoxy-coated steel, is 22.0" deep (56 cm) and includes one filler panel to increase depth to 30.0" (76 cm). Four leveling feet allow height adjustment on standard height cabinets from 35.5 to 36.75" (90 to 93 cm) and ADA height cabinets from 31.5 to 32.75" (80 to 83 cm). Cabinets may be mixed or matched so that their total width equals the width of the Paramount they support. **A work surface is required.**

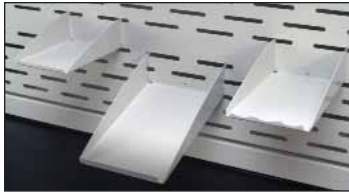
STORAGE CABINET SELECTION GUIDE

Width/Description	Shipping Wt. (lbs./kg)	Acid			Solvent		
		Dual Doors	Right Hinge	Left Hinge	Dual Doors	Right Hinge	Left Hinge
48.0" (122 cm)	260/118	9901000	—	—	9902000	—	—
36.0" (91 cm)	180/82	9901100	—	—	9902100	—	—
30.0" (76 cm)	155/70	9901200	—	—	9902200	—	—
24.0" (61 cm)	130/59	—	9901300	9901500	—	9902300	9902400
18.0" (46 cm)	90/41	—	9901400	9901600	—	—	—
48.0" (122 cm) w/ self-closing doors	260/118	—	—	—	9903000	—	—
36.0" (91 cm) w/ self-closing doors	180/82	—	—	—	9903100	—	—
30.0" (76 cm) w/ self-closing doors	155/70	—	—	—	9903200	—	—
24.0" (61 cm) w/ self-closing doors	130/59	—	—	—	—	9903300	9903400
24.0" (61 cm) ADA 	120/54	—	9905000	9905200	—	9906000	9906100
24.0" (61 cm) ADA w/ self-closing doors 	120/54	—	—	—	—	9906200	9906300
18.0" (46 cm) ADA 	85/39	—	9905100	9905300	—	—	—

Width/Description	Shipping Wt. (lbs./kg)	Standard			Vacuum Pump		
		Dual Doors	Right Hinge	Left Hinge	Dual Doors	Right Hinge	Left Hinge
48.0" (122 cm)	260/118	9900000	—	—	—	—	—
36.0" (91 cm)	180/82	9900100	—	—	—	—	—
30.0" (76 cm)	155/70	9900200	—	—	—	—	—
24.0" (61 cm)	130/59	—	9900300	9900600	—	—	—
18.0" (46 cm)	90/41	—	9900400	9900700	—	9907000	9907100
12.0" (30 cm)	65/29	—	9900500	9900800	—	—	—
24.0" (61 cm) ADA 	120/54	—	9904000	9904300	—	—	—
18.0" (46 cm) ADA 	85/39	—	9904100	9904400	—	—	—
12.0" (30 cm) ADA 	60/27	—	9904200	9904500	—	—	—

 Cabinet height meets guidelines of the ADA.

ACCESSORIES



3925000 UTILITY SHELVES

Three epoxy-coated steel shelves attach to the rear baffle perforations to hold a printer, utensils and other miscellaneous weighing

supplies. The utensil shelf has a scalloped front edge to support spatulas, brushes and other items. Shipping weight 5 lbs. (2 kg)



3927700 BOTTLE HOLDER

Epoxy-coated steel. Attaches to the rear baffle perforations to hold a squirt bottle or other round container.

3" (8 cm) diameter opening. Shipping weight 1 lb. (0.5 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" (46.4 cm) to 25.75" (65.4 cm). Five-leg black reinforced composite base rests on 2" (5 cm) ball-bearing casters. Aluminum support ring. Removable arm rests. Black vinyl upholstery. Shipping weight 35 lbs. (16 kg)



3927800 TISSUE HOLDER

Epoxy-coated steel. Attaches to the rear baffle perforations to hold tissue wipers in the upside down position. An opening in the holder permits wipers to be dispensed from the bottom. Shipping weight 1 lb. (0.5 kg)



3746000 ADJUSTABLE FOOTREST

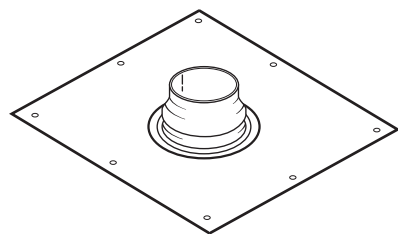
Elevates feet and permits angle repositioning while in use. 18.5" w x 11.5" d x 8" high (47 x 29 x 20 cm). Shipping weight 6 lbs. (3 kg)



SASH CLOSURES

Bi-fold doors allow the sash opening to be closed to prevent contaminants from entering the enclosure during periods of non-use. Include epoxy-coated steel doors and mounting hardware.

Require installation.



6963700 CANOPY EXHAUST TRANSITION

Allows the Paramount Ductless Enclosure to be thimble-ducted to the outside for additional protection. The canopy's air gap provides a means of balancing air by allowing room air to enter the ductwork and mix with the filtered air being exhausted from the Paramount. House exhaust or remote blower and ductwork are required (not included). 6" (15 cm) diameter outlet. 6' Paramount Enclosures require two Exhaust Transitions. **Requires installation.** Contact Labconco for ordering information on remote blowers and ductwork. Shipping weight 18 lbs. (8 kg)

Catalog Number	Sash Closure Dimensions	Shipping Weight (lbs./kg)
6963900	24.0" w x 9.4" h (61.0 x 23.9 cm)	10/5
6963901	36.0" w x 9.4" h (91.4 x 23.9 cm)	12/6
6963902	36.0" w x 12.0" h (91.4 x 30.5 cm)	15/7
6963903	48.0" w x 9.4" h (121.0 x 23.9 cm)	16/7
6963904	48.0" w x 12.0" h (121.0 x 30.5 cm)	20/9
6963905	60.0" w x 9.4" h (152.4 x 23.9 cm)	25/12
6963906	72.0" w x 12.0" h (182.0 x 30.5 cm)	30/14

Contact Labconco for more information about these quality products for your laboratory.



Fume Hoods & Enclosures



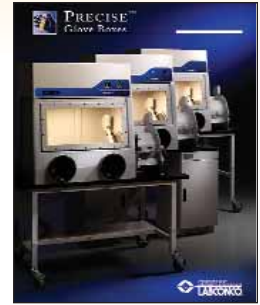
Safety Enclosures & Clean Benches



Laboratory Animal Research Stations



Balance & Bulk Powder Enclosures



Glove Boxes



Glassware Washers



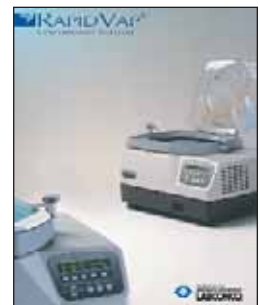
Water Purification Systems



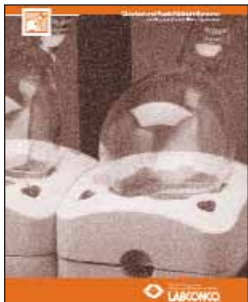
Freeze Dry Systems



Centrifugal Concentrators & Cold Traps



Multiple Sample Evaporation Systems



Agricultural Chemistry Products



Laboratory Carts & Benches



Blood Drawing Chairs



Digital Chloridimeters



Vacuum Desiccator



Made in the U.S.A



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