



Paramount®

F I L T E R E D E N C L O S U R E S

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Protecting your
laboratory environment

LABCONCO®

In the Laboratory, Safety is...

P A R A M O U N T[®]

Paramount Filtered Enclosures are self-contained work stations that use carbon filters to rid the laboratory of annoying or unsafe concentrations of organic solvents, formaldehyde, acid gases or ammonia. Unlike traditional fume hoods, they require no ducting.

Paramount Duet Filtered Enclosures use both carbon and HEPA filters for removing gaseous and particulate contaminants. These enclosures have applications in clean rooms and other situations that use chemicals that generate fumes, vapors and/or particulates yet require Class 100 conditions.

Advantages of using the Paramount instead of a ducted fume hood include the following:

- The Paramount provides a safe enclosed work area for procedures generating annoying odors that currently may be conducted on an open bench.
- The Paramount offers an alternative for laboratories located on the lower floors of a several story building that may not have a ducting option.

- Since the Paramount returns filtered air back to the room instead of exhausting it to the outside, the enclosure can be used in air-starved laboratories where make-up air is unavailable.
- When placed on a mobile base stand, the Paramount becomes portable and can be shared by several laboratories.

The greatest advantage of the Paramount is the technical expertise and assistance that goes with it. Labconco specialists can help you select the right ventilation equipment to suit your application and ensure your safety, whether it's a Paramount or any other product from our broad line of fume hoods and enclosures. Please complete the Chemical Usage Assessment Form located in the back pocket and fax it to 816-363-0130. Or call us at 800-821-5525 or 816-333-8811.



When located in a clean room, the Paramount Duet Filtered Enclosure provides a safe, self-contained work station for removal of chemical fumes or vapors while exhausting Class 100 air.



In classroom situations, the Paramount 360 Filtered Enclosure on Mobile Base Stand can be moved to the center of the room for demonstrations visible from all sides. Since it is portable, the Paramount can be moved from lab to lab as needed or out of the way when not in use.



With six feet of width, the Paramount 72 Filtered Enclosure offers twice the work area of other Paramounts.

F I L T E R E D E N C L O S U R E S



**LCD message
center**



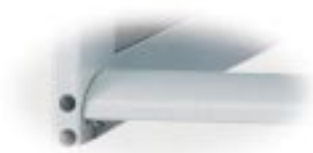
**Color-Smart™
Carbon and
HEPA Filter
Cells**



**Convenient
utility ports**



**Tempered safety
glass side
panels and
two-position sash**



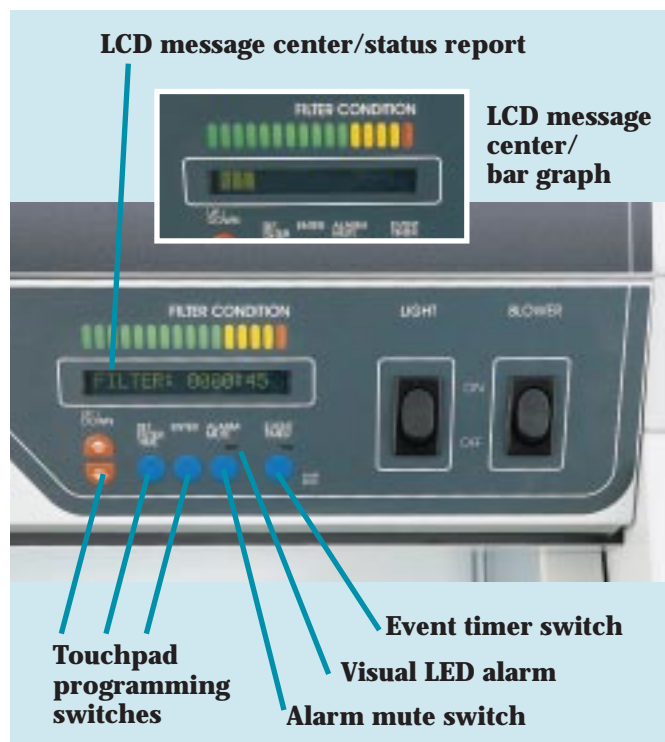
Air foil





**Air and contaminant
mixing rear baffle**




FEATURES AND BENEFITS



 **LCD message center** provides continuous filter status reports and displays alarm messages. On models with organic vapor sensor(s), a bar graph gives at-a-glance indication of filter loading when organic chemicals are in use.

 **Touchpad programming switches and two built-in timers** allow the user to program through the LCD the filter check and change times. Alert messages appear after user-specified number of hours has elapsed. The life spans of the previous three filters are recorded and stored in a permanent electronic memory for use in predicting the life of newly installed filters.

 **Air and contaminant mixing rear baffle** ensures safe and rapid fume removal and distributes an even concentration of contaminants to the filters for uniform loading.


Air foil directs airflow into the hood with minimum turbulence to ensure fume containment.

Backed with over 55 years of fume hood design and manufacturing experience, the enclosure incorporates proven fume hood technologies from engineering experts. Its performance is tested to ANSI/ASHRAE Standard 110-1995. Labconco's full range of ventilation products give us the unique posi-

tion of offering you the right equipment to fit your application without compromise.

Built-in blower is quiet, non-sparking and corrosion-resistant. The blower provides industry-standard face velocities of 80 or 100 fpm depending on sash position.

Single-piece, two-position tempered safety glass sash is slightly angled to allow a closer view and more comfortable operating position. Set at 10.75" sash opening, face velocity is 100 feet per minute (fpm); at 12.75", velocity is 80 fpm. The sash pivots up for easy loading and cleaning.

 **Audible/visual alarm** reminds the user to check the filters using sampling tubes or to replace the filters. The user can program the control panel to activate the LED and audible alarm when the blower has run for a preset period of time. On models with organic vapor sensor(s), the same alarm activates when high concentrations of organic vapors are detected by the sensor(s). Pressing the ALARM/MUTE switch silences the audible alarm, but the LED remains illuminated until either 1) the concentration detected by the sensors has been reduced below the alarm level (models with organic vapor sensor(s) only) or 2) the programmed filter time has been reset by the user (all models).


Durable construction. Sides and sash are made of tempered safety glass that won't easily discolor or craze like plastic, and the frame is epoxy-coated aluminum for excellent stability and chemical-resistance.

Two 20-watt fluorescent lamps illuminate the interior and are replaceable from the front of the enclosure. Six-foot enclosures have four lamps.


Two convenient utility ports allow passage of tubing and electrical cords from equipment inside the enclosure through the back for connection to services. Plastic plugs seal the ports when not in use. Six-foot enclosures have four ports.

Fully-assembled and pre-wired, the Paramount is easy to install. Mount the Paramount on existing cabinetry or accessory work surface and base, install filters, plug into an electrical outlet and it's ready to use. No ducting is required. Optional duct collar is available for venting to the atmosphere.

F E A T U R E S A N D B E N E F I T S

 **Color-Smart™ Filter Cells** are engineered to the National Institute for Occupational Safety and Health (NIOSH) guidelines for respirators. Filters are color coded in the same fashion as respirator cartridge filter types for at-a-glance recognition from the front of the enclosure. Four carbon-based Filter Cell types as available: **Organic Filter Cells**, type AC, are color coded black and are suitable for vapors from organic solvents including acetone, ethyl acetate, toluene and xylene. **Acid Gas Filter Cells**, type ST-1, are color coded white and are suitable for gases from acids including hydrochloric, nitric and sulfuric. **Formaldehyde Filter Cells**, type CI, are color coded drab green and are suitable for vapors from formaldehyde. **Ammonia Filter Cells**, type CX, are color coded bright green and are suitable for ammonia and low molecular weight amines. For Duet models, **HEPA Filter Cells**, 99.99% efficient, are color coded purple and are suitable for removing particulates including agents that require Biosafety Level 1, 2 or 3 containment. Contact Labconco at 800-821-5525 or 816-333-8811 for assistance in filter selection. **Filter cells are sold separately.**

Filter compartment is under negative pressure ensuring vapor or particulate capture.

 **Exclusive computerized filter modeling program** compares NIOSH data with your chemical usage. Using the program, Labconco specialists can recommend filter types, estimate filter life and suggest ventilation products tailored to your specific applications.



ETL and ETL-C listed. All 115 volt, 60 Hz models carry the ETL Testing Laboratories seal in the U.S. and ETL-C seal in Canada signifying that the Paramount meets or exceeds all minimum requirements of UL and CSA standards.



International electrical configurations available. Paramount Filtered Enclosures wired for operation on 230 volts, 50 Hz conform to CE (European Community) requirements for electrical safety and electromagnetic compatibility.



Roughing prefilters remove dust and particulates extending the life of the Color-Smart Filter Cells. Optional electrostatic prefilters for removing mists and aerosols are also available.



Easy-to replace filter cells slide in and out from the front of the enclosure without requiring difficult alignment or rotation.

Superior filter clamping mechanism with gas-assisted lift opens effortlessly and applies uniform pressure across the entire top surface of the filter cells for leak-proof, one-step filter replacement. The three-foot enclosure uses two four-inch carbon filter cells, each with 26 pounds of carbon, that require less frequent filter changes than competitive filters. The six-foot enclosure uses four carbon filter cells. In addition, Duet models use HEPA filters. **Filter cells are sold separately.**



Contaminant detector tubes are used with carbon-based filter cells for periodic testing of the air quality in the air stream, providing an added measure of assurance that the filter cells are effectively trapping the chemical in use. Each pair of Ammonia, Acid Gas and Formaldehyde Filter Cells includes three sampling tubes that detect a broad range of chemicals specific to the filter type. A color change indicates the presence of contaminants. Detector tubes more sensitive to the specific chemical in use may be necessary and are available from laboratory safety supply distributors. Due to the broad range of possible organic chemicals, detector tubes are not included with Organic Filter Cells; they should be purchased separately to suit your application. **Filter cells are sold separately.**



Exclusive Feature

O P T I O N S

Safety-First™ Vapor Sensor, on 69100 series models, provides early detection of organic vapor at the interface to the remaining 25% of the filter bed. An audible and visual alarm signals when organic vapor concentrations reach approximately 50 ppm or greater. At this sensing point, the cell contains a reserve portion of carbon to allow adequate time for the user to complete work and replace the filter cells. An exclusive second sensor, on non-Duet models, located above the filter bed serves as a safety back-up to detect vapor breakthrough in the exhaust air stream. **The use of the sensor is not recommended for detection of organic chemicals with time weighted averages below 50 ppm. Contact Labconco at 800-821-5525 or 816-333-8811 for a recommendation for your application.**



Paramount 360™ Filtered Enclosures have sides, back and airflow baffle of clear, tempered safety glass for 360° of visibility. These enclosures are ideal for conducting experiments that

require observation such as for training or classroom demonstrations. Transparent sides and back create an openness which lends itself to island installations and other settings where multiple work stations are necessary or close observation of processes is desirable. The rear baffle pivots down for complete cleaning of the interior.



Paramount Duet™ Filtered Enclosures use both carbon and HEPA filter cells. These

enclosures are designed for applications that create both gaseous and particulate contaminants.

The HEPA filters may be installed above or below the carbon filters depending on the application. For particulate and biological applications, the HEPA filters are installed below the carbon filters. Particulates are captured first, then chemical vapors. This arrangement prevents the

carbon filters from becoming contaminated with hazardous particulates which could compromise their effectiveness and require special handling when replaced.

For critical environment applications, the HEPA filters are installed above the carbon filters. Chemical vapors are captured first, then particulates. This arrangement helps to maintain established Class 100 conditions within the room since any fine particles that may escape from the carbon filters are entrapped by the HEPA filters before Class 100 air is exhausted to the laboratory.



Paramount 72 Filtered Enclosures feature double the width of standard Paramounts. These enclosures are ideal as two-person work stations or for experiments involving multiple steps or bulky apparatus.



Optional airflow monitor is available factory-mounted on the front panel. From the

monitor's faceplate, the user can easily select and calibrate a velocity setpoint using a thermoanemometer and screwdriver. Audible and visual alarms alert the user to low face velocity conditions. Call Labconco at 800-821-5525 or 816-333-8811 for ordering information.

A P P L I C A T I O N M A T R I X

	All Models				Duet Models	
Carbon Filter Type	Organic	Acid Gases	Ammonia	Formaldehyde	Varies	Varies
Filter Configuration	Carbon	Carbon	Carbon	Carbon	Carbon/HEPA*	HEPA/Carbon**
Acid pouring and mixing		■				
Clean room/critical environment					■	
Combination dry and liquid chemicals						■
Endoscopy instrument cleaning				■		
Histology/cytology tissue staining, coverslipping	■					
Histology/pathology; unfixed tissues						■
Microbiological samples with trace chemicals						■
Particulates in conjunction with chemical agents						■
Pathology/tissue grossing				■		■
Photoengraving			■			
Plastics production			■			■
Soldering	■					■
Solvent cleaning	■					
Solvent welding/ gluing operations	■					

* Carbon filters mounted below HEPA filters so that gaseous contaminants are removed first.

** HEPA filters mounted below carbon filters so that particulate contaminants are removed first.

E A S Y O R D E R 6 9 3 0 1 - 0 0

Paramount Easy Order has all the components needed for a complete Paramount Enclosure System — from ceiling to floor. Order just one catalog number, **69301-00**, and receive the following items:

1. 69101-00 Paramount Filtered Enclosure for 115 volt, 60 Hz operation as described on page 5.
2. 69107-00 Mobile Base Stand as described on page 12.
3. 69104-00 Organic Color-Smart Filter Cells as described on page 11.

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O R D E R I N G I N F O R M A T I O N



Paramount Filtered Enclosures for Use with Carbon-Based Filter Cells Only

Specifications:

- Glacier white epoxy-coated aluminum frame, air foil, back panel, baffle, and upper cabinet.
- 3/16" thick tempered safety glass sides.
- Includes two roughing pre-filters, two 1 1/2" diameter utility ports with plastic plugs, gas-assisted filter clamping mechanism, and 8-foot electrical cord with plug.

All 230 volt, 50 Hz models require an electrical plug (not included).

- Control panel includes LCD for display of filter time elapsed; programmable timer for audio/visual alarm; ALARM/MUTE switch with LED indicator; SET FILTER TIME, UP/DOWN, and ENTER programming switches; and event timer.
- Integral non-sparking motor/blower with polypropylene impeller.
- Two 20-watt fluorescent lamps.
- Switches for blower and light.
- 1/4" thick tempered safety glass sash is adjustable to two operating positions, 10.75" and 12.75", and pivots to an opening of 22" for cleaning and transfer of material.
- Face velocity is 100 fpm (236 CFM) when sash opening is 10.75" and 80 fpm (236 CFM) when sash opening is 12.75".
- Airflow performance is tested to ANSI/ASHRAE Standard 110-1995.
- Shipped fully assembled.
- ETL and ETL-C listing on all 115 volt, 60 Hz models.
- CE mark on all 230 volt, 50 Hz models.
- Overall dimensions: 36" wide x 29" deep x 53 5/8" high (91.4 x 71.1 x 143.8 cm).
- Shipping weight 290 lbs. (132 kg)
- **One set of carbon-based Color-Smart Filter Cells is required (not included).**

Options include:

- **Vapor sensors** for detection of organic vapors with concentration of 50 ppm or greater. One sensor is located in the filter bed. Upon detection, the vapor sensor activates the audible/visual alarm. A second sensor is located in the exhaust air stream and, upon detection, activates the audible/visual alarm.
- **Paramount 360 Filtered Enclosures.** Baffle and back panel are clear, 3/16" thick tempered safety glass. When set screws are loosened, the baffle pivots downward for cleaning of its interior surfaces.

Catalog Number	Description	Electrical Requirements	Options Included	
			Vapor Sensor	Clear Back & Baffle
69101-00	Paramount	115 volts, 60 Hz, 3 amps		
69101-01*	Paramount	230 volts, 50 Hz, 1.5 amps		
69101-04	Paramount 360	115 volts, 60 Hz, 3 amps		■
69101-05*	Paramount 360	230 volts, 50 Hz, 1.5 amps		■
69100-00†	Paramount w/ Sensors	115 volts, 60 Hz, 3 amps	■	
69100-01*†	Paramount w/ Sensors	230 volts, 50 Hz, 1.5 amps	■	
69100-04†	Paramount 360 w/ Sensors	115 volts, 60 Hz, 3 amps	■	■
69100-05*†	Paramount 360 w/ Sensors	230 volts, 50 Hz, 1.5 amps	■	■

* International electrical configuration

† Model series 69100 are for use when organic vapors are expected to exceed 50 ppm. For applications involving organic vapors with concentrations below 50 ppm, model series 69101 is recommended. **For help in determining concentration levels for your applications, contact Labconco at 800-821-5525 or 816-333-8811.**

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O R D E R I N G I N F O R M A T I O N

**Paramount Duet Filtered Enclosures for Use with Carbon-Based and HEPA Filter Cells****Specifications:**

- Glacier white epoxy-coated aluminum frame, air foil, back panel, baffle, and upper cabinet.
- 3/16" thick tempered safety glass sides.
- Includes two roughing pre-filters, two 1 1/2" diameter utility ports with plastic plugs, gas-assisted filter clamping mechanism, and 8-foot electrical cord with plug.
All 230 volt, 50 Hz models require an electrical plug (not included).
- Control panel includes LCD for display of filter time elapsed; programmable timer for audio/visual alarm; ALARM/MUTE switch with LED indicator; SET FILTER TIME, UP/DOWN, and ENTER programming switches; and event timer.
- Integral non-sparking motor/blower with metal impeller.
- Two 20-watt fluorescent lamps.
- Switches for blower and light.
- 1/4" thick tempered safety glass sash is adjustable to two operating positions, 10.75" and 12.75", and pivots to an opening of 22" for cleaning and transfer of material.
- Face velocity is 100 fpm (236 CFM) when sash opening is 10.75" and 80 fpm (236 CFM) when sash opening is 12.75".
- Airflow performance is tested to ANSI/ASHRAE Standard 110-1995.
- Shipped fully assembled.
- ETL and ETL-C listing on all 115 volt, 60 Hz models.
- CE mark on all 230 volt, 50 Hz models.
- Overall dimensions: 36" wide x 29" deep x 56 7/8" high (91.4 x 71.1 x 144.5 cm).
- Shipping weight 290 lbs. (132 kg)
- **One set of carbon-based Color-Smart Filter Cells and one set of HEPA Color-Smart Filter Cells are required (not included).**

Options include:

- **Vapor sensor** for detection of organic vapors with concentration of 50 ppm or greater in the air stream. Upon detection, the vapor sensor activates the audible/visual alarm.
- **Paramount 360 Filtered Enclosures.** Baffle and back panel are clear, 3/16" thick tempered safety glass. When set screws are loosened, the baffle pivots downward for cleaning of its interior surfaces.

Catalog Number	Description	Electrical Requirements	Options Included	
			Vapor Sensor	Clear Back & Baffle
69101-10	Paramount Duet	115 volts, 60 Hz 3 amps		
69101-11*	Paramount Duet	230 volts, 50 Hz, 1.5 amps		
69101-14	Paramount Duet 360	115 volts, 60 Hz, 3 amps		■
69101-15*	Paramount Duet 360	230 volts, 50 Hz, 1.5 amps		■
69100-10†	Paramount Duet w/ Sensor	115 volts, 60 Hz, 3 amps	■	
69100-11*†	Paramount Duet w/ Sensor	230 volts, 50 Hz, 1.5 amps	■	
69100-14†	Paramount Duet 360 w/ Sensor	115 volts, 60 Hz, 3 amps	■	■
69100-15*†	Paramount Duet 360 w/ Sensor	230 volts, 50 Hz, 1.5 amps	■	■

* International electrical configuration

† Model series 69100 are for use when organic vapors are expected to exceed 50 ppm. For applications involving organic vapors with concentrations below 50 ppm, model series 69101 is recommended. **For help in determining concentration levels for your applications, contact Labconco at 800-821-5525 or 816-333-8811.**

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O R D E R I N G I N F O R M A T I O N

**Paramount 72 Filtered Enclosures for Use with Carbon-Based Filter Cells Only****Specifications:**

- Glacier white epoxy-coated aluminum frame, air foil, back panel, baffles, and upper cabinet.
- 3/16" thick tempered safety glass sides.
- Includes four roughing pre-filters, four 1 1/2" diameter utility ports with plastic plugs, two gas-assisted filter clamping mechanisms, and 8-foot electrical cord with plug.

All 230 volt, 50 Hz models require an electrical plug (not included).

- Control panel includes LCD for display of filter time elapsed; programmable timer for audio/visual alarm; ALARM/MUTE switch with LED indicator; SET FILTER TIME, UP/DOWN, and ENTER programming switches; and event timer.
- Two integral non-sparking motor/blowers with polypropylene impellers.
- Four 20-watt fluorescent lamps.
- Switches for blowers and light.
- 1/4" thick tempered safety glass sash is adjustable to two operating positions, 10.75" and 12.75", and pivots to an opening of 22" for cleaning and transfer of material.
- Face velocity is 100 fpm (472 CFM) when sash opening is 10.75" and 80 fpm (472 CFM) when sash opening is 12.75".
- Airflow performance is tested to ANSI/ASHRAE Standard 110-1995.
- Shipped fully assembled.
- ETL and ETL-C listing on all 115 volt, 60 Hz models.
- CE mark on all 230 volt, 50 Hz models.
- Overall dimensions: 72" wide x 29" deep x 53 5/8" high (182.8 x 71.1 x 143.8 cm).
- Shipping weight 580 lbs. (264 kg)
- **Two sets of carbon-based Color-Smart Filter Cells are required (not included).**

Options include:

- **Vapor sensors** for detection of organic vapors with concentration of 50 ppm or greater. One sensor is located in the filter bed. Upon detection, the vapor sensor activates the audible/visual alarm. A second sensor is located in the exhaust air stream and, upon detection, activates the audible/visual alarm.
- **Paramount 360 Filtered Enclosures.** Baffles and back panel are clear, 3/16" thick tempered safety glass. When set screws are loosened, the baffles pivot downward for cleaning of interior surfaces.

Catalog Number	Description	Electrical Requirements	Options Included	
			Vapor Sensor	Clear Back & Baffle
69101-02	Paramount 72	115 volts, 60 Hz, 6 amps		
69101-03*	Paramount 72	230 volts, 50 Hz, 3 amps		
69101-06	Paramount 72/360	115 volts, 60 Hz, 6 amps		■
69101-07*	Paramount 72/360	230 volts, 50 Hz, 3 amps		■
69100-02†	Paramount 72 w/ Sensors	115 volts, 60 Hz, 6 amps	■	
69100-03*†	Paramount 72 w/ Sensors	230 volts, 50 Hz, 3 amps	■	
69100-06†	Paramount 72/360 w/ Sensors	115 volts, 60 Hz, 6 amps	■	■
69100-07*†	Paramount 72/360 w/ Sensors	230 volts, 50 Hz, 3 amps	■	■

* International electrical configuration

† Model series 69100 are for use when organic vapors are expected to exceed 50 ppm. For applications involving organic vapors with concentrations below 50 ppm, model series 69101 is recommended. **For help in determining concentration levels for your applications, contact Labconco at 800-821-5525 or 816-333-8811.**

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O R D E R I N G I N F O R M A T I O N



Paramount 72 Duet Filtered Enclosures for Use with Carbon-Based and HEPA Filter Cells

Specifications:

- Glacier white epoxy-coated aluminum frame, air foil, back panel, baffles, and upper cabinet.
- 3/16" thick tempered safety glass sides.
- Includes four roughing pre-filters, four 1 1/2" diameter utility ports with plastic plugs, two gas-assisted filter clamping mechanisms, and 8-foot electrical cord with plug.
All 230 volt, 50 Hz models require an electrical plug (not included).
- Control panel includes LCD for display of filter time elapsed; programmable timer for audio/visual alarm; ALARM/MUTE switch with LED indicator; SET FILTER TIME, UP/DOWN, and ENTER programming switches; and event timer.
- Two integral non-sparking motor/blowers with metal impellers.
- Four 20-watt fluorescent lamps.
- Switches for blowers and light.
- 1/4" thick tempered safety glass sash is adjustable to two operating positions, 10.75" and 12.75", and pivots to an opening of 22" for cleaning and transfer of material.
- Face velocity is 100 fpm (472 CFM) when sash opening is 10.75" and 80 fpm (472 CFM) when sash opening is 12.75".
- Airflow performance is tested to ANSI/ASHRAE Standard 110-1995.
- Shipped fully assembled.
- ETL and ETL-C listing on all 115 volt, 60 Hz models.
- CE mark on all 230 volt, 50 Hz models.
- Overall dimensions: 72" wide x 29" deep x 56 7/8" high (182.8 x 71.1 x 144.5 cm).
- Shipping weight 580 lbs. (264 kg)
- **Two sets of carbon-based Color-Smart Filter Cells and two sets of HEPA Color-Smart Filter Cells are required (not included).**

Options include:

- **Vapor sensor** for detection of organic vapors with concentration of 50 ppm or greater in the air stream. Upon detection, the vapor sensor activates the audible/visual alarm.
- **Paramount 360 Filtered Enclosures.** Baffles and back panel are clear, 3/16" thick tempered safety glass. When set screws are loosened, the baffles pivot downward for cleaning of interior surfaces.

Catalog Number	Description	Electrical Requirements	Options Included	
			Vapor Sensor	Clear Back & Baffle
69101-12	Paramount 72 Duet	115 volts, 60 Hz, 6 amps		
69101-13*	Paramount 72 Duet	230 volts, 50 Hz, 3 amps		
69101-16	Paramount 72/360 Duet	115 volts, 60 Hz, 6 amps		■
69101-17*	Paramount 72/360 Duet	230 volts, 50 Hz, 3 amps		■
69100-12†	Paramount 72 Duet w/ Sensor	115 volts, 60 Hz, 6 amps	■	
69100-13*†	Paramount 72 Duet w/ Sensor	230 volts, 50 Hz, 3 amps	■	
69100-16†	Paramount 72/360 Duet w/ Sensor	115 volts, 60 Hz, 6 amps	■	■
69100-17*†	Paramount 72/360 Duet w/ Sensor	230 volts, 50 Hz, 3 amps	■	■

* International electrical configuration

† Model series 69100 are for use when organic vapors are expected to exceed 50 ppm. For applications involving organic vapors with concentrations below 50 ppm, model series 69101 is recommended. **For help in determining concentration levels for your applications, contact Labconco at 800-821-5525 or 816-333-8811.**

ALYS Labware, Lausanne

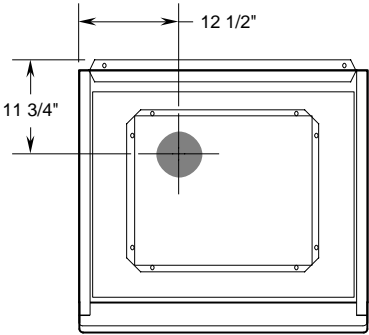
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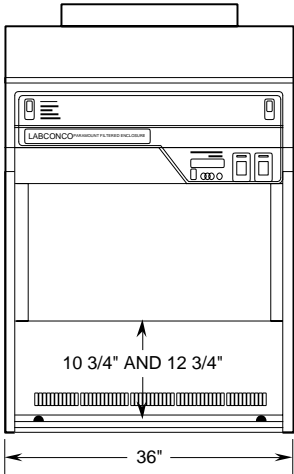
labware@alys-technologies.com

D I M E N S I O N A L D R A W I N G S

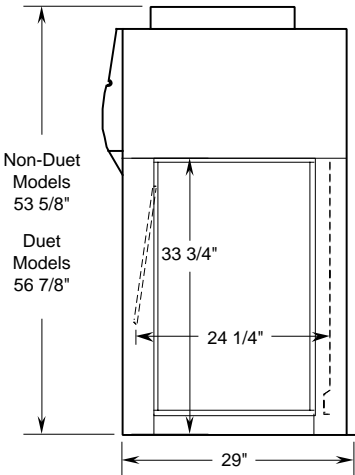
3-Foot



Top View

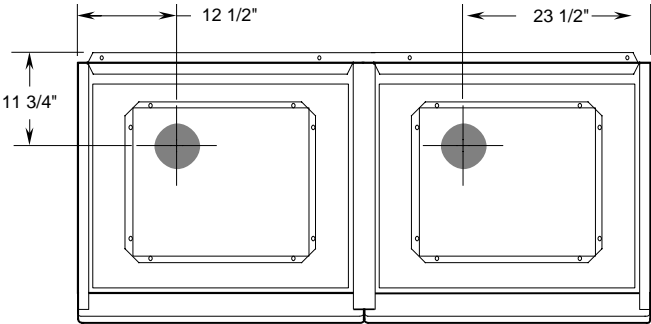


Front View

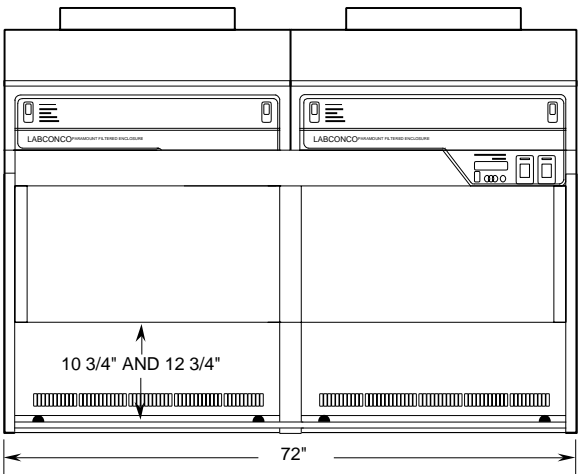


Side View

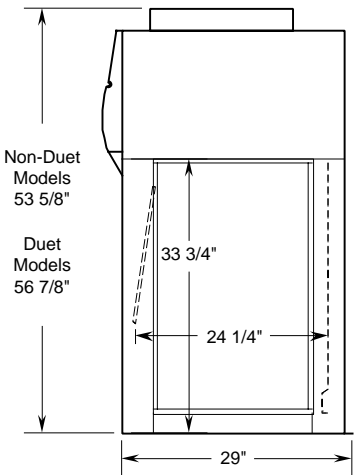
6-Foot



Top View



Front View



Side View

C O L O R - S M A R T™ F I L T E R C E L L S

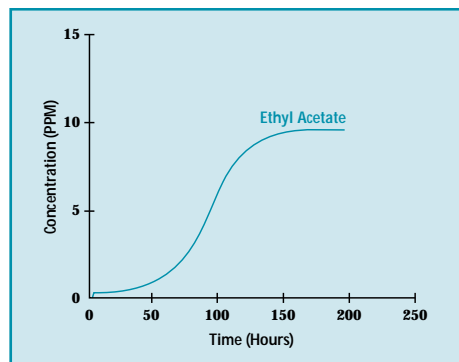


Figure 1

Selecting The Right Carbon-Based Filter Cells For Your Application

Using Labconco's exclusive carbon filter modeling program, our technical specialists can help you determine the appropriate carbon-based Filter Cells for your application and estimate the life of the cells. The modeling program is able to chart mixtures involving up to seven different organic chemicals.

The inlet concentration of the chemicals determines how long the Filter Cells will last. To estimate inlet concentration, a Labconco technical specialist may ask you questions regarding the chemical's rate of usage, including the following: How much solvent is lost through evaporation in a given period of time? Can you estimate the amount of surface area exposed to the air in the container normally used?

For example, we can estimate that ethyl acetate in a 250 ml beaker open to air in an enclosure two hours per day would have an inlet concentration of approximately 10 ppm. Once this information is entered into the computer, a chart is generated that shows concentration in ppm versus time in hours (Figure 1). The point at which the curve levels off is the length of time that the Filter Cells can adsorb the chemical mixture before saturation is reached. In this example, the curve levels off at approximately 150 hours. Since the chemical mixture is exposed to air 2 hours per day, 5 days per week, the Filter Cells would last approximately 15 weeks before replacement is necessary.

Armed with information on estimated filter life, you and a Labconco technical specialist can determine whether the Paramount Filtered Enclosure is the right ventilation product for your application. This information is also useful when programming the timer on your Paramount at its initial set up.

To discuss your application with a technical specialist, call 800-821-5525 or 816-333-8811. Or complete the questionnaire located in the back pocket of this catalog and fax it to 816-363-0130. A technical specialist will review your information and contact you with recommendations.



Color-Smart™
Filter Cells
(required for
operation)

Accessories

Each pair of Ammonia, Acid Gas and Formaldehyde Filter Cells includes three sampling tubes that detect a broad range of chemicals specific to the filter type. A color change indicates the presence of contaminants. Detector tubes more sensitive to the specific chemical in use may be necessary and are available from laboratory safety supply distributors. Due to the broad range of possible organic chemicals, detector tubes are not included with Organic Filter Cells; they should be purchased separately to suit your application. **All Paramount models require one pair and all Paramount 72 models require two pairs of carbon-based Filter Cells.**

69102-00 Ammonia Carbon-Based Filter Cells, Type CX. Color-coded bright green. Each cell contains a minimum of 26 pounds of impregnated carbon. 1 pair of Filter Cells. Includes 3 contaminant detector tubes. Shipping weight 90 lbs. (41 kg)

69103-00 Acid Gas Carbon-Based Filter Cells, Type ST-1. Color-coded white. Each cell contains a minimum of 26 pounds of impregnated carbon. 1 pair of Filter Cells. Includes 3 contaminant detector tubes. Shipping weight 90 lbs. (41 kg)

69104-00 Organic Carbon-Based Filter Cells, Type AC. Color-coded black. Each cell contains a minimum of 26 pounds of activated carbon. 1 pair of Filter Cells. Shipping weight 90 lbs. (41 kg)

69105-00 Formaldehyde Carbon-Based Filter Cells, Type CI. Color-coded drab green. Each cell contains a minimum of 26 pounds of impregnated carbon. 1 pair of Filter Cells. Includes 3 contaminant detector tubes. Shipping weight 90 lbs. (41 kg)

69332-00 HEPA Filter Cells, 99.99% efficient. Color-coded purple. Suitable for removing 0.3 micron particulates, including agents that require Biosafety Level 1, 2 or 3 containment. 1 pair of Filter Cells. **One pair is required for Paramount Duet models and two pairs are required for Paramount Duet 72 models.** Shipping weight 90 lbs. (41 kg)

A C C E S S O R I E S

Catalog
Number

Description

- 69110-00 Replacement Roughing Prefilters.**
Labconco recommends replacing prefilters whenever changing Color-Smart Filter Cells. 1 pair. Shipping weight 3 lbs. (1.4 kg)
- 69120-00 Electrostatic Prefilters.**
Optional prefilters are used in place of 69110-00 (described above) for removal of aerosols, mist and fine particles. 1 pair. Shipping weight 3 lbs. (1.4 kg)
- 69109-00 Duct Collar.**
Permits connection of the Paramount to 6" diameter PVC duct for optional exhausting to the outside. **Remote blower is required.** Contact Labconco at 800-821-5525 or 816-333-8811 for blower selection assistance. Shipping weight 10 lbs. (4.5 kg)

**Mobile Base Stands**

Epoxy-coated tubular steel frame with 5" diameter toe-locking casters. Includes solid epoxy work surface. Stand is 37.2" high (94.5 cm). Contact Labconco for ordering information on sitting height stands.

- 69107-00 3' Mobile Base Stand with Dished Work Surface.**
Work surface dimensions: 36" wide x 29.25" deep x 1" thick (91.4 x 74.3 x 2.5 cm). Shipping weight 100 lbs. (45 kg)
- 69340-00 6' Mobile Base Stand with Flat Work Surface.**
Work surface dimensions: 72" wide x 29.25" deep x 1" thick (182.8 x 74.3 x 2.5 cm). Shipping weight 200 lbs. (90 kg)

Catalog
Number

Description



- 69106-00 Dished Work Surface for 3' Paramounts.**
For use on existing cabinetry. Included with Mobile Base Stand 69107-00 and Base Cabinet 69108-00. Gray solid epoxy. 36" wide x 29.25" deep x 1" thick. Shipping weight 65 lbs. (29.5 kg)
- 69350-00 Flat Work Surface for 6' Paramounts.**
For use on existing cabinetry or with 2 each 35527-02 Base Cabinets (see below). Included with Mobile Base Stand 69349-00. Gray solid epoxy. 72" wide x 29.25" deep x 1" thick. (182.8 x 74.3 x 2.5 cm) Shipping weight 130 lbs. (59 kg)

**Base Cabinets**

Epoxy-coated steel base cabinet. Interior accommodates one set of Filter Cells (not included). Includes one adjustable interior shelf. 35" wide x 22" deep x 35.75" high. (88.9 x 55.9 x 90.8 cm).

- 69108-00 Base Cabinet with Dished Work Surface.**
For use to support 3' Paramount. Work surface dimensions: 36" wide x 29.25" deep x 1" thick (91.4 x 74.3 x 2.5 cm). Shipping weight 100 lbs. (45 kg)
- 35527-02 Base Cabinet without work surface.**
Order two each to support 6' Paramount. **Work surface 69350-00 is required (not included).** Shipping weight 200 lbs. (90 kg)



CHEMICAL USAGE ASSESSMENT FORM

TO: FAX 816-363-0130

ATTENTION: Labconco Ventilation Specialist

Let us help you determine if a carbon filtered enclosure is the right type of equipment for your application. Complete this questionnaire and fax it to Labconco at 816-363-0130. Or submit the form from our website: www.labconco.com/chemical_usage.html. You will receive a chemical profile report with product/filter recommendations.

From:

Name: _____

Company: _____

Department: _____

Address: _____

City/State/Zip: _____

Phone: _____

FAX: _____

E-MAIL: _____

1. What chemical(s) will be in use? Please indicate the percentage of each chemical in your mixture. For example, a mixture may contain 20% hexane and 80% octane. If one chemical is used, percentage is 100%.

	Chemical Name (also indicate if using chemical in powder form)	Percentage (total should equal 100%)
Chemical 1	_____	_____
Chemical 2	_____	_____
Chemical 3	_____	_____
Chemical 4	_____	_____
Other	_____	_____

Provide details regarding whether the chemicals will be used individually, simultaneously, or in a mixture.

2. Estimate how much of the chemical(s) is/are lost to evaporation in units of volume over time. This can be obtained by measuring volume of chemical(s) used, before and after the application. The difference between the two volumes over a specified amount of time is the approximated evaporation rate. This may be provided in many forms such as ml/minute or liters/month. For example, a 500 ml bottle of toluene is used for two hours per day and is lost over 2 weeks:

$$500 \text{ ml} / 2 \text{ weeks} \times 1 \text{ week} / 5 \text{ days} \times 1 \text{ day} / 2 \text{ hours} \times 1 \text{ hour} / 60 \text{ minutes} = .41 \text{ ml/minute evaporation rate}$$

	Chemical Name	Evaporation Rate
Chemical 1	_____	_____
Chemical 2	_____	_____
Chemical 3	_____	_____
Chemical 4	_____	_____
Other	_____	_____

3. If evaporation rate cannot be calculated, please indicate the type(s) of container(s) that is/are normally used. A 500 ml Erlenmeyer flask is one example. If more than one size or type of container is used, please indicate each one. If flasks and/or beakers are not used, please estimate the exposed surface area of the container used and the amount of time the container is open during use.

Type(s) and size(s) of container(s) used _____

Amount of time container(s) is/are exposed during use _____

4. At what temperature is/are the chemical(s) normally used? Is the chemical being boiled or heated in any way? Indicate Fahrenheit or Celsius. _____

5. Other needs or concerns. (i.e. space limitations, equipment to accommodate, etc.) _____

Contact Labconco at 800-821-5525 or 816-333-8811 for more information
about these quality products for your laboratory.



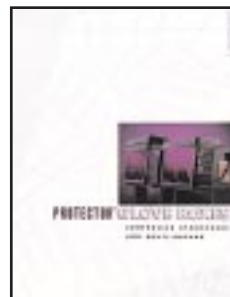
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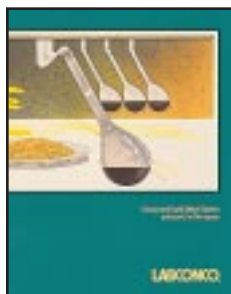
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*Protecting your
laboratory environment*

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