







XPert® Filtered Balance Systems

FEATURES & BENEFITS


Patented* XPert Filtered Balance Systems provide user protection by keeping powders and particulates contained during procedures involving powders. **The built-in blower and exhaust HEPA filter mounted in the upper plenum conserves space while isolation supports minimize blower vibration.** Since HEPA filtered air is returned to the laboratory, these enclosures have


the added benefits of low installation costs, portability and no required outside ducting. Interior dimensions accommodate large analytical and micro balances. Containment-enhancing features ensure that potent powders frequently found in pharmaceutical, dry chemical, and industrial hygiene applications are kept away from the operator. Systems are available in 2', 3', 4', 5' and 6' widths.


 **True bag-in/bag-out HEPA filter disposal system** allows for safe filter replacement. See page 4.

 **Optimal HEPA filter location** permits leak-detection scan of entire surface.

Front-mounted pressure gauge helps determine HEPA filter loading.

 **Tempered safety glass** provides better fire, scratch and chemical resistance than acrylic and dissipates static charge.

 **Side-entry air foils** allow air to sweep interior surfaces to enhance containment. See page 3.

 **Deep 23.4" interior** easily accommodates large analytical balances. Some 5' and 6' models are available with 30" interior depths.


Built-in impeller has vibration-isolation supports to minimize disturbance to sensitive balances.

Space-saving design. Impeller and HEPA filter are contained within the enclosure's upper plenum for a smaller overall footprint than a separate enclosure and exhauster can offer.


Built-in airflow monitor alerts the user to face velocities outside of preset range. Models without monitor are also available.


Quiet operation as low as 48 decibels.


Static-dissipative powder-coated aluminum frame and steel rear plenum and baffle. No unreliable plastic-to-plastic bonding is used.

 **Upper dilution air supply** sweeps clean air to the back of sash to keep contaminants away from the operator. See page 3.

Ergonomic angled sash for comfortable viewing.

 **Upper containment sash foil** directs contaminants away from the user's breathing zone. See page 3.

 **Patented* Clean-Sweep™ air foil** allows air to sweep the work surface to maximize containment. See page 3.


 **Intrinsically safe.** The positive pressure impeller is surrounded by a negative pressure plenum so that if a leak should develop, the unfiltered air is captured and refiltered.



 *Exclusive feature*

* U.S. Design Patent D538,941
† U.S. Patent 6,461,233



 **Patented* rear baffle** with zones of perforations promotes horizontal laminar airflow. See page 4. The baffle pivots down for cleaning.



Optional left-side mounted waste chute isolates contaminated waste in a sealable bag. Some 5' and 6' models include a waste chute. Contact Labconco for ordering information on other models.



XPert® Filtered Balance Systems

SPECIFICATIONS



XPert Filtered Balance System 3950402 is shown with Black Solid Epoxy Dished Work Surface 3909902 and Protector Standard Storage Cabinets 9900300. Work surface and base cabinet must be ordered separately.

All models feature:

- Patented* design.
- Deep interior of 23.4" or 30.0" depending on the model.
- Ergonomic air foil with aerodynamic Clean-Sweep[†] airflow openings.
- Upper dilution air supply.
- Upper containment sash foil.
- Zone-perforated, pivoting rear baffle.*
- Side-entry air foils.
 - Exhaust HEPA filter, 99.99% efficient on particles 0.3 micron in size.
- Top-accessible HEPA filter for leak scanning of entire surface.
- True bag-in/bag-out filter disposal system (requires certified technician).
 - Built-in blower with dynamically-balanced, vibration-isolated motorized impeller and speed control. Blower has a 40% reserve so that the speed may be adjusted as needed by a certified technician as the filter loads.
 - Pressure gauge.

Exclusive feature

*U.S. Design Patent D538,941

†U.S. Patent 6,461,233

- Intrinsically safe, negative pressure design.
 - Space-saving design. No separate filtered exhaust is required.
 - Upper diffuser screen.
 - Quiet operation (see chart below).
 - Glacier white and gray, powder-coated aluminum frame and steel rear plenum and baffle. No unreliable plastic-to-plastic bonding is used.
 - Pre-wired fluorescent lamp and switches for blower and light.
 - 1/4" thick tempered safety glass front sash and sides.
 - Ergonomic angled and hinged, pivoting sash with wiping seal. Sashes on 5' and 6' models incorporate an external gas-assist lift.
 - Models with 9.4" sash opening height have 16.5" locking height and 19.0" maximum loading height. Models with 12.0" sash opening height have 25.75" locking height and 28.25" maximum loading height.
 - Two (1.5") utility ports for pass-through of electrical cords.
 - 8' cord included.
 - Particulate containment independently verified by SafeBridge Consultants, Inc.
 - Validation package available at www.labconco.com containing Test Reports; Installation Qualification/Operation Qualification (IQ/OQ) Protocol; and Maintenance Log.

All models conform to the following regulations and standards:

- SEFA 1
- Modified ASHRAE 110
- ANSI Z9.5
- UL 61010-1

- CAN/CSA C22.2 No. 1010.1
- CE Conformity Marking (230 volt models)

Models with Guardian Airflow Monitor include:

- Guardian Airflow Monitor that continuously monitors airflow with a green LED that glows when airflow is within set point range and a red LED that glows and an audible alarm that sounds when airflow is outside set point range.

Models with Guardian 1000 Digital Airflow Monitor include:

- Guardian 1000 Digital Airflow Monitor that continuously monitors airflow and provides a digital readout of actual face velocity. An audible/visual alarm alerts the operator when airflow is outside set point range. RS-485 communications port allows connection to user-supplied computer.

5' and 6' models with 35.5" exterior depth include:

- Left-side mounted waste chute. Bags not included. Minimum bag size required: 10" x 16".

All models require:

- Work surface. See page 43.
- Supporting base. See pages 44-45.

Optional accessories for on-site installation include:

- Trace Odor Carbon Filters. See page 41.
- Utility Shelves, Bottle Holder and Tissue Holder. See page 46.
- Canopy Connections. See page 47.
- Remote Blowers. See page 48.
- Ductwork. See pages 49-50.
- Waste Chute Bags. See page 46.

Nominal Width	Sash Opening Ht.	Total Exhaust CFM and Sound Levels					
		100 fpm	db(A)	80 fpm	db(A)	60 fpm	db(A)
2 Feet	9.4"	145	53-58	115	50-55	85	48-53
3 Feet	9.4"	220	58-61	175	53-58	130	48-53
4 Feet	9.4"	295	62-66	235	58-61	175	49-54
4 Feet	12.0"	380	67-70	305	62-66	230	58-61
5 Feet	12.0"	480	63-67	385	58-63	290	52-56
6 Feet	12.0"	580	67-69	465	61-63	350	55-57



Xpert® Filtered Balance Systems

2', 3' AND 4' MODELS ORDERING INFORMATION & DIMENSIONAL DATA

Xpert Filtered Balance Systems							
Nominal Width	Catalog Number	Overall Dimensions	Interior Dimensions	Electrical Requirements	Built-In Airflow Monitor	Shipping Weight lbs./kg	
22.7" INTERIOR HEIGHT & 23.4" INTERIOR DEPTH	2'	3950200	24.0" w x 29.0" d x 37.1" h	21.6" w x 23.4" d x 22.7" h	100-115 volts, 50/60 Hz	None	175/79
	2'	3950201	24.0" w x 29.0" d x 37.1" h	21.6" w x 23.4" d x 22.7" h	100-115 volts, 50/60 Hz	Guardian	180/82
	2'	3950202	24.0" w x 29.0" d x 37.1" h	21.6" w x 23.4" d x 22.7" h	100-115 volts, 50/60 Hz	Guardian 1000 Digital	180/82
	2'	3950220*	24.0" w x 29.0" d x 37.1" h	21.6" w x 23.4" d x 22.7" h	230 volts, 50/60 Hz no plug	None	175/79
	2'	3950221*	24.0" w x 29.0" d x 37.1" h	21.6" w x 23.4" d x 22.7" h	230 volts, 50/60 Hz no plug	Guardian	180/82
	2'	3950222*	24.0" w x 29.0" d x 37.1" h	21.6" w x 23.4" d x 22.7" h	230 volts, 50/60 Hz no plug	Guardian 1000 Digital	180/82
22.7" INTERIOR HEIGHT & 23.4" INTERIOR DEPTH	3'	3950300	36.0" w x 29.0" d x 37.1" h	33.6" w x 23.4" d x 22.7" h	100-115 volts, 50/60 Hz	None	225/102
	3'	3950301	36.0" w x 29.0" d x 37.1" h	33.6" w x 23.4" d x 22.7" h	100-115 volts, 50/60 Hz	Guardian	230/104
	3'	3950302	36.0" w x 29.0" d x 37.1" h	33.6" w x 23.4" d x 22.7" h	100-115 volts, 50/60 Hz	Guardian 1000 Digital	230/104
	3'	3950320*	36.0" w x 29.0" d x 37.1" h	33.6" w x 23.4" d x 22.7" h	230 volts, 50/60 Hz no plug	None	225/102
	3'	3950321*	36.0" w x 29.0" d x 37.1" h	33.6" w x 23.4" d x 22.7" h	230 volts, 50/60 Hz no plug	Guardian	230/104
	3'	3950322*	36.0" w x 29.0" d x 37.1" h	33.6" w x 23.4" d x 22.7" h	230 volts, 50/60 Hz no plug	Guardian 1000 Digital	230/104
22.7" INTERIOR HEIGHT & 23.4" INTERIOR DEPTH	4'	3950400	48.0" w x 29.0" d x 37.1" h	45.6" w x 23.4" d x 22.7" h	100-115 volts, 50/60 Hz	None	275/125
	4'	3950401	48.0" w x 29.0" d x 37.1" h	45.6" w x 23.4" d x 22.7" h	100-115 volts, 50/60 Hz	Guardian	280/127
	4'	3950402	48.0" w x 29.0" d x 37.1" h	45.6" w x 23.4" d x 22.7" h	100-115 volts, 50/60 Hz	Guardian 1000 Digital	280/127
	4'	3950420*	48.0" w x 29.0" d x 37.1" h	45.6" w x 23.4" d x 22.7" h	230 volts, 50/60 Hz no plug	None	275/125
	4'	3950421*	48.0" w x 29.0" d x 37.1" h	45.6" w x 23.4" d x 22.7" h	230 volts, 50/60 Hz no plug	Guardian	280/127
	4'	3950422*	48.0" w x 29.0" d x 37.1" h	45.6" w x 23.4" d x 22.7" h	230 volts, 50/60 Hz no plug	Guardian 1000 Digital	280/127
32.0" INTERIOR HEIGHT & 23.4" INTERIOR DEPTH	4'	3950460	48.0" w x 29.0" d x 46.3" h	45.6" w x 23.4" d x 32.0" h	100-115 volts, 50/60 Hz	None	285/129
	4'	3950461	48.0" w x 29.0" d x 46.3" h	45.6" w x 23.4" d x 32.0" h	100-115 volts, 50/60 Hz	Guardian	290/132
	4'	3950462	48.0" w x 29.0" d x 46.3" h	45.6" w x 23.4" d x 32.0" h	100-115 volts, 50/60 Hz	Guardian Digital	290/132
	4'	3950470*	48.0" w x 29.0" d x 46.3" h	45.6" w x 23.4" d x 32.0" h	230 volts, 50/60 Hz no plug	None	285/129
	4'	3950471*	48.0" w x 29.0" d x 46.3" h	45.6" w x 23.4" d x 32.0" h	230 volts, 50/60 Hz no plug	Guardian	290/132
	4'	3950472*	48.0" w x 29.0" d x 46.3" h	45.6" w x 23.4" d x 32.0" h	230 volts, 50/60 Hz no plug	Guardian Digital	290/132
32.0" INTERIOR HEIGHT & 30.0" INTERIOR DEPTH	4'	3950430	48.0" w x 35.5" d x 46.3" h	45.6" w x 30.0" d x 32.0" h	100-115 volts, 50/60 Hz	None	315/143
	4'	3950431	48.0" w x 35.5" d x 46.3" h	45.6" w x 30.0" d x 32.0" h	100-115 volts, 50/60 Hz	Guardian	320/145
	4'	3950432	48.0" w x 35.5" d x 46.3" h	45.6" w x 30.0" d x 32.0" h	100-115 volts, 50/60 Hz	Guardian Digital	320/145
	4'	3950440*	48.0" w x 35.5" d x 46.3" h	45.6" w x 30.0" d x 32.0" h	230 volts, 50/60 Hz no plug	None	315/143
	4'	3950441*	48.0" w x 35.5" d x 46.3" h	45.6" w x 30.0" d x 32.0" h	230 volts, 50/60 Hz no plug	Guardian	320/145
	4'	3950442*	48.0" w x 35.5" d x 46.3" h	45.6" w x 30.0" d x 32.0" h	230 volts, 50/60 Hz no plug	Guardian Digital	320/145

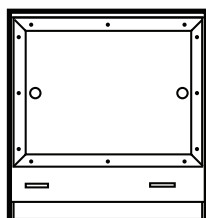
* International electrical configuration



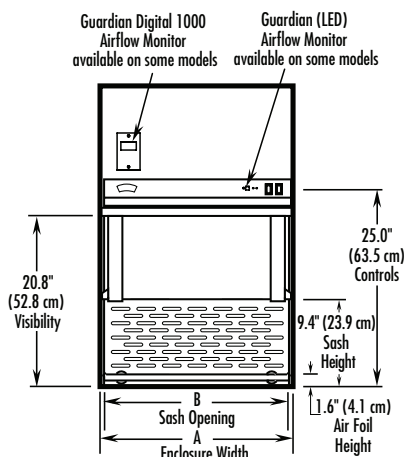
Xpert® Filtered Balance Systems

DIMENSIONAL DATA

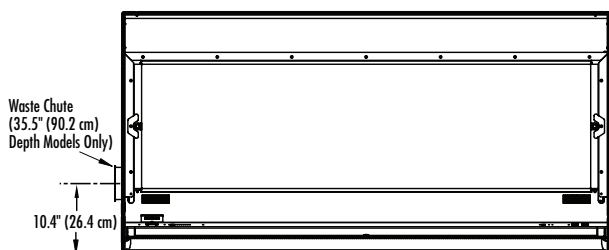
	2-Foot	3-Foot	4-Foot	4-Foot (Tall)	4-Foot (Tall & Deep)	5-Foot	6-Foot
A	24.0" (61.0 cm)	36.0" (91.4 cm)	48.0" (121.9 cm)	48.0" (121.9 cm)	48.0" (121.9 cm)	60.0" (152.4 cm)	72.0" (182.9 cm)
B	21.6" (54.9 cm)	33.6" (85.3 cm)	45.6" (115.8 cm)	45.6" (115.8 cm)	45.6" (115.8 cm)	57.6" (146.3 cm)	69.6" (176.8 cm)



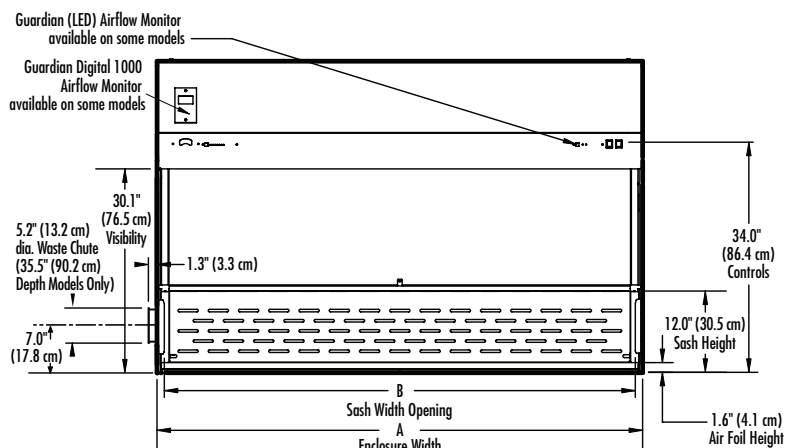
TOP
(2', 3', 4' MODELS)



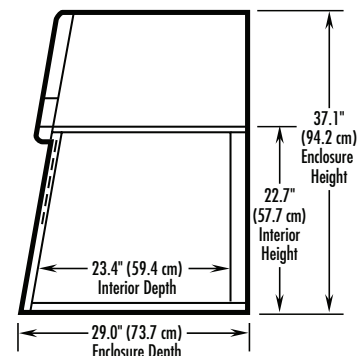
FRONT
(2', 3', 4' MODELS)



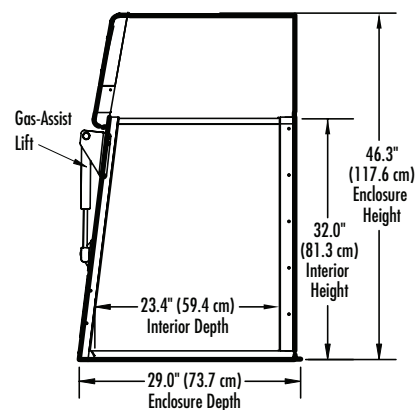
TOP
(4', 5', 6' MODELS, TALL & DEEP*)



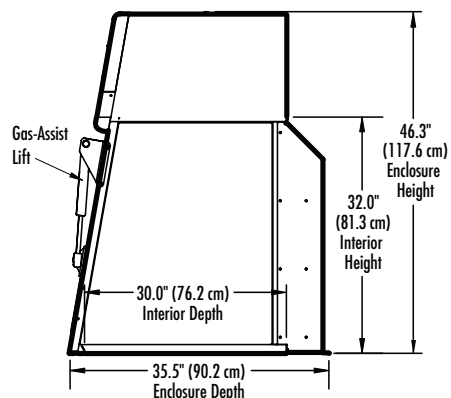
FRONT
(4', 5', 6' MODELS, TALL/TALL & DEEP*)



SIDE
(2', 3', 4' MODELS)



SIDE
(4', 5', 6' MODELS, TALL)



SIDE
(4', 5', 6' MODELS, TALL & DEEP)

*Waste Chute available on 5' and 6' Tall and Deep models only.



XPert® Balance and Bulk Powder Enclosures

WORK SURFACES



Solid Epoxy Work Surfaces

Black chemical-resistant work surfaces are dished to contain spills and contoured to fit the dimensions of XPert Balance Enclosures, Systems and Stations. Available in 2', 3', 4', 5', 6' and 8' widths.

Catalog #	Nominal Width	For use with:	Dimensions	Shipping Wt. lbs./kg
3909900	2'	29.0" deep XPert Systems, Stations	24.0" w x 29.0" d x 1.0" thick (61.0 x 73.7 x 2.5 cm)	50/23
3909901	3'	29.0" deep XPert Systems, Stations	36.0" w x 29.0" d x 1.0" thick (91.4 x 73.7 x 2.5 cm)	75/34
3909902	4'	29.0" deep XPert Systems, Stations	48.0" w x 29.0" d x 1.0" thick (121.9 x 73.7 x 2.5 cm)	100/45
3909906	4'	35.5" deep XPert Systems, Stations	48.0" w x 35.5" d x 1.0" thick (121.9 x 90.2 x 2.5 cm)	125/57
3909907	5'	29.0" deep XPert Systems, Stations	60.0" w x 29.0" d x 1.0" thick (152.4 x 73.7 x 2.5 cm)	125/57
3909908	5'	35.5" deep XPert Systems, Stations	60.0" w x 35.5" d x 1.0" thick (152.4 x 90.2 x 2.5 cm)	155/70
3909910	6'	29.0" deep XPert Systems, Stations	72.0" w x 29.0" d x 1.0" thick (182.9 x 73.7 x 2.5 cm)	150/68
3909911	6'	35.5" deep XPert Systems, Stations	72.0" w x 35.5" d x 1.0" thick (182.9 x 90.2 x 2.5 cm)	186/84
3908400	2'	29.0" deep XPert Enclosures	24.0" w x 26.7" d x 1.0" thick (61.0 x 67.8 x 2.5 cm)	48/22
3908401	3'	29.0" deep XPert Enclosures	36.0" w x 26.7" d x 1.0" thick (91.4 x 67.8 x 2.5 cm)	72/33
3908402	4'	29.0" deep XPert Enclosures	48.0" w x 26.7" d x 1.0" thick (121.9 x 67.8 x 2.5 cm)	96/44
3908406	5'	29.0" deep XPert Enclosures	60.0" w x 26.7" d x 1.0" thick (152.4 x 67.8 x 2.5 cm)	115/52
3908407	6'	29.0" deep XPert Enclosures	72.0" w x 26.7" d x 1.0" thick (182.9 x 67.8 x 2.5 cm)	140/64
3908408	8'	29.0" deep XPert Enclosures	96.0" w x 26.7" d x 1.0" thick (243.8 x 67.8 x 2.5 cm)	185/84
3908409	5'	35.5" deep XPert Enclosures	60.0" w x 35.5" d x 1.0" thick (152.4 x 90.2 x 2.5 cm)	155/70
3908410	6'	35.5" deep XPert Enclosures	72.0" w x 35.5" d x 1.0" thick (182.9 x 90.2 x 2.5 cm)	186/84
3908411	8'	35.5" deep XPert Enclosures	96.0" w x 35.5" d x 1.0" thick (243.8 x 90.2 x 2.5 cm)	250/114



Stainless Steel Work Surfaces

Type 304 stainless steel work surfaces have a 1" deep front spill trough and fit dimensions of XPert Balance Enclosures, Systems and Stations. Available in 2', 3', 4', 5', 6' and 8' widths.

Catalog #	Nominal Width	For use with:	Dimensions	Shipping Wt. lbs./kg
3970602	2'	29.0" deep XPert Systems, Stations	24.0" w x 29.0" d x 0.8" thick (61.0 x 73.7 x 2.0 cm)	75/34
3970603	3'	29.0" deep XPert Systems, Stations	36.0" w x 29.0" d x 0.8" thick (91.4 x 73.7 x 2.0 cm)	100/45
3970604	4'	29.0" deep XPert Systems, Stations	48.0" w x 29.0" d x 0.8" thick (121.9 x 73.7 x 2.0 cm)	125/57
3975504	4'	35.5" deep XPert Systems, Stations	48.0" w x 35.5" d x 0.8" thick (121.9 x 90.2 x 2.0 cm)	145/66
3975502	5'	29.0" deep XPert Systems, Stations	60.0" w x 29.0" d x 0.8" thick (152.4 x 73.7 x 2.0 cm)	150/68
3975503	5'	35.5" deep XPert Systems, Stations	60.0" w x 35.5" d x 0.8" thick (152.4 x 90.2 x 2.0 cm)	180/82
3975602	6'	29.0" deep XPert Systems, Stations	72.0" w x 29.0" d x 0.8" thick (182.9 x 73.7 x 2.0 cm)	180/82
3975603	6'	35.5" deep XPert Systems, Stations	72.0" w x 35.5" d x 0.8" thick (182.9 x 90.2 x 2.0 cm)	220/100
3975500	5'	29.0" deep XPert Enclosures	60.0" w x 26.7" d x 0.8" thick (152.4 x 67.8 x 2.0 cm)	140/64
3975501	5'	35.5" deep XPert Enclosures	60.0" w x 35.5" d x 0.8" thick (152.4 x 90.2 x 2.0 cm)	180/82
3975600	6'	29.0" deep XPert Enclosures	72.0" w x 26.7" d x 0.8" thick (182.9 x 67.8 x 2.0 cm)	170/77
3975601	6'	35.5" deep XPert Enclosures	72.0" w x 35.5" d x 0.8" thick (182.9 x 90.2 x 2.0 cm)	220/100
3975800	8'	29.0" deep XPert Enclosures	96.0" w x 26.7" d x 0.8" thick (243.8 x 67.8 x 2.0 cm)	240/109
3975801	8'	35.5" deep XPert Enclosures	96.0" w x 35.5" d x 0.8" thick (243.8 x 90.2 x 2.0 cm)	290/132



Telescoping Base Stands



Telescoping Base Stand with Fixed Feet 3746702.

Inset: Telescoping Base Stand with Casters 3746710.



Telescoping Base Stands provide support for XPert Balance Enclosures.*

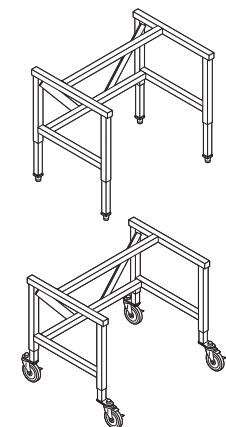
Features:

- Support XPert Filtered Balance Systems, Filtered Balance Stations and Balance Enclosures.
- Durable 1.75" tubular, powder-coated steel frame. Models 3' wide and larger have rear crossbar supports.
- Telescoping legs are adjustable to eight height positions in 1" increments from 27.5" to 34.5".**
- Available with four fixed leveling feet or 5" diameter, toe-locking, non-marking polyurethane casters with bearings for quiet operation.
- **Work surface is required** (sold separately). See page 43.

Ordering Information

Catalog #	Overall Dimensions (w x d)	Description	Shipping Wt. lbs./kg
3746700	24.0" x 29.0"	with fixed feet	100/45
3746710	24.0" x 29.0"	with casters	100/45
3746701	36.0" x 29.0"	with fixed feet	110/50
3746711	36.0" x 29.0"	with casters	110/50
3746702	48.0" x 29.0"	with fixed feet	115/52
3746712	48.0" x 29.0"	with casters	115/52
3746703	60.0" x 29.0"	with fixed feet	120/54
3746713	60.0" x 29.0"	with casters	120/54
3746704	72.0" x 29.0"	with fixed feet	125/57
3746714	72.0" x 29.0"	with casters	125/57

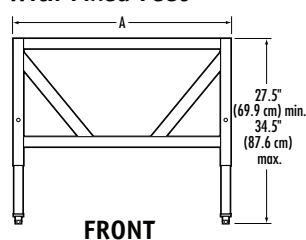
Contact Labconco for ordering information on base stands for 8' enclosures.



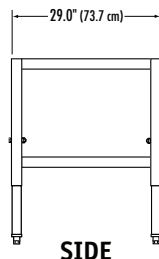
Dimensional Data

Catalog #	A
3746700, 3746710	24.0" (61.0 cm)
3746701, 3746711	36.0" (91.4 cm)
3746702, 3746712	48.0" (121.9 cm)
3746703, 3746713	60.0" (152.4 cm)
3746704, 3746714	72.0" (182.9 cm)

With Fixed Feet

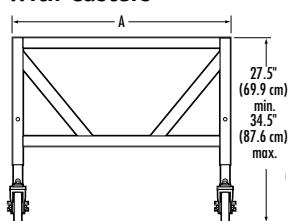


FRONT

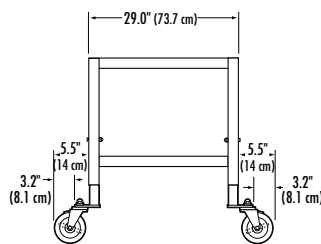


SIDE

With Casters



FRONT



SIDE

Accessory Shelves

Glacier white, powder-coated, 16 gauge steel. Designed to hook on the lower rear horizontal cross member of the Telescoping Base Stand. Provides storage space for wipes, cleaning agents, gloves and other miscellaneous laboratory supplies. One each.

Nominal Width	Catalog #	Shelf (w x d)	Shipping Wt. lbs./kg
2-Ft	3811100	20.4" x 9.9" (51.8 x 25.1 cm)	9/4
3-Ft	3811101	32.4" x 9.9" (82.3 x 25.1 cm)	12/5
4-Ft	3811102	44.4" x 9.9" (112.8 x 25.1 cm)	15/7
5-Ft	3811103	56.4" x 9.9" (143.3 x 25.1 cm)	19/9
6-Ft	3811104	68.4" x 9.9" (173.7 x 25.1 cm)	23/10

* Telescoping Base Stands do not isolate vibration. When using sensitive balances in the enclosure, a marble slab may be necessary to reduce vibration from outside influences.

** Height selection and adjustment are required before the enclosure is installed atop the stand.