DESICCATORS+



Low-Cost Solutions for High Technology





Acrylic SmartDesiccator™ No. 1911-41A (shelves optional)



SMART DESICCATOR™ BENCHTOP STORAGE SYSTEM

- Automates dry benchtop storage to eliminate moisture-related degradation and optimize yields
- First-of-its-kind gas controller system conserves nitrogen
- Fully integrated turnkey system takes 30 seconds to install

Terra Universal's SmartDesiccator™ maximizes yields of sensitive materials by automatically maintaining a user-determined humidity set point.

Its quick-response feedback system continuously monitors the cabinet's relative humidity level and activates a purge of dry nitrogen only when needed. The system thus economizes on gas consumption and minimizes the possibility of overpressures that can stress cabinet seals. Comparison testing reveals that the SmartDesiccator™ maintains a low relative humidity level using only 22% of the nitrogen required by a flowmeter-based system of the identical size (see below).

Stainless steel doors restrict the door from flexing or bending, thereby preventing the cracks and fatigue that occur in all-plastic cabinets. A specially designed lift latch eliminates hinge and door damage caused by the strain of twisting and turning conventional latch systems. The SmartDesiccator™ also incorporates a one-piece, nonadhesive, nonoutgassing gasket specially formulated to retain sealing integrity in extreme low humidity. Because it won't sag or migrate, it extends the service life of the cabinet.

SmartDesiccator™ 22"W x 20.75"D x 16.625"H

S/Each

3.051.00

Cat. #

1911-02C

Prices include the humidity control module, sensor, and Automatic RB Valve. Systems are available in stainless steel, acrylic or transparent static-dissipative PVC, which helps control static charges and the particles they attract.

Cat. # \$/Each
Automatic RB* (Relief/Bleed) Valve 1600-60B 94.00

Plastic Smart	Plastic SmartDesiccators™ (See above for stainless steel)						Shelf				
Chambers	Overall Dimensions		Mate	rials		Perforated Stainless Steel		Non-Perforated Stainless Steel		Acryl	ic*
	(WxDxH)	Acr	ylic*	Dissipative PVC							
		Cat. #	\$/Each	Cat. #	\$/Each	Cat. #	\$/Each	Cat. #	\$/Each	Cat. #	\$/Each
1	12" x 12" x 13.25"	1911-15D	1,311.00	1911-21D	1,411.00	1935-02	89.00	1935-05	93.00	1935-01	27.00
1	17.12" x 18" x 13.25"	1911-45A	1,537.00	1911-46A	1,952.00	1976-02	133.00	1976-05	133.00	1976-01	44.00
1	22.62" x 18" x 13.25"	1911-43A	1,722.00	1911-44A	2,222.00	1977-02	149.00	1977-05	149.00	1977-01	50.00
1	22.62" x 24" x 13.25"	1911-41A	1,827.00	1911-42A	2,416.00	1978-02	159.00	1978-05	159.00	1978-01	59.00
2	17.12" x 18" x 25.25"	1911-16D	1,935.00	1911-22D	2,629.00	1976-02	133.00	1976-05	133.00	1976-01	44.00
2	22.62" x 18" x 25.25"	1911-17D	2,080.00	1911-23D	2,845.00	1977-02	149.00	1977-05	149.00	1977-01	50.00
2	22.62" x 24" x 25.25"	1911-18D	2,314.00	1911-24D	3,297.00	1978-02	159.00	1978-05	159.00	1978-01	59.00

^{*} Acrylic is damaged by alcohol and other cleaning agents.

Smart Performance — and Big Savings! Testing demonstrates the cost benefit

of the SmartDesiccator's automated nitrogen control system.

The test below was conducted on a 24"W \times 18"D \times 24"H desiccator equipped with a flowmeter and then with a SmartDesiccator control system, under the following conditions:

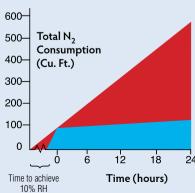
Ambient Humidity: 60% RH

• Temperature: 70°F

• RH Setpoint: 10% RH

Test Period: Achieve setpoint and then maintain it for 24 hours
 Chamber Access: Door opened once every

30 minutes; remained open for one minute



Desiccator with 0 - 20 SCFH flowmeter (red area on chart)

(red area on chart)To achieve setpoint: 85 cubic feet (requires over 4 hours

@ 20 CFH). Note: setpoint measured with a hygrometer, since this set up does not monitor humidity level.

• Maintain for 24 hrs: 480 cubic feet (24 x 20)

• Total N₂ Consumed: 565 cubic feet

SmartDesiccator™ (blue area on chart)

• To achieve setpoint: 85 cubic feet (required 30 minutes @ 170 cubic/hour on high flow)

· Maintain for 24 hrs: 40 cubic feet

 \cdot Total N₂ Consumed: 125 cubic feet

SmartDesiccator™ uses 22% of nitrogen consumed by standard cabinet—a 78% saving!

ADJUST-A-SHELF™ DESICCATOR STORAGE SYSTEM

(please turn the page for ordering information)





TWO CHAMBERS PER TIER

Standing Adjust-A-Shelf™ Desiccators with Interchangeable Shelving

Shelving (including shields and trays) of models listed on these pages can be used interchangeably in any desiccator chamber with the same nominal dimensions.



Manufactured by Terra Universal

Terra will custom manufacture a turnkey system to meet your requirements. Call for a quotation.





Pa	Pass-Through models available for dual-side access—see TerraUniversal.com												
	Specifi	cations			Adjust-A-Shelf™ Desiccators				Corresponding Acrylic Shelf		304 Stainless Steel Door Frames		
T Y P	Overall Dimensions (W" x D" x H")	No. of Doors	I.D. of Shelves (useable area) (W" x D")	Static Diss PVC	®	Clear Acrylic***		Amber Acrylic***		Includes Bow Guard**		Select appropriate quantity for your desiccator	
1	45 x 24 x 36	6	19.875 x 21	Cat. # 3950-00A	\$/Each	Cat. # 3950-30A	\$/Each	Cat. # 3950-60A	\$/Each 3,332.00		\$/Each	Cat. # 2200-30A	\$/Each
Α	34 x 18 x 36	6	14.25 x 14.5	3950-00A		3950-30A	•	3950-61A	2,902.00			2200-30A 2200-31A	140.00
	45 x 18 x 36	6		3950-02A	•	3950-32A	•	3950-62A	3,155.00			2200-31A	160.00
	45 x 24 x 48	8	19.875 x 21	3950-03A	•	3950-33A	•	3950-63A	4.108.00			2200-30A	160.00
В	34 x 18 x 48	8	14.25 x 14.5	3950-04A	5,444.00	3950-34A	3,077.00	3950-64A	3,307.00	1976-01	44.00	2200-31A	140.00
	45 x 18 x 48	8	19.875 x 14.5	3950-05A	6,956.00	3950-35A	3,470.00	3950-65A	3,740.00	1977-01	50.00	2200-30A	160.00
	45 x 24 x 60 ♀	10	19.875 x 21	3950-06A	8,979.00	3950-36A	4,353.00	3950-66A	4,777.00	1978-01	59.00	2200-30A	160.00
C	34 x 18 x 60	10	14.75 x 14.5	3950-07A	7,134.00	3950-37A	3,816.00	3950-67A	4,191.00	1976-01	44.00	2200-31A	140.00
	45 x 18 x 60	10	19.875 x 14.5	3950-08A	8,207.00	3950-38A	4,161.00	3950-68A	4,566.00	1977-01	50.00	2200-30A	160.00
	22.625 x 24 x 24	2	19.875 x 21	3950-09A	2,319.00	3950-39A	1,336.00	3950-69A	1,368.00	1978-01	59.00	2200-60A	152.00
D		2		3950-10A	,	3950-40A		3950-70A		1976-01		2200-61A	133.00
	22.125 x 18 x 24	2		3950-11A	,	3950-41A	•	3950-71A	1,223.00			2200-60A	152.00
	22.625 x 24 x 36	3	19.875 x 21	3950-12A	•	3950-42A	•	3950-72A	2,048.00			2200-60A	152.00
Е	17.125 x 18 x 36	3	14.25 x 14.5	3950-13A	•	3950-43A	•	3950-73A	1,776.00			2200-61A	133.00
	22.625 x 18 x 36	3	19.875 x 14.5			3950-44A	,	3950-74A	1,915.00			2200-60A	152.00
	22.625 x 24 x 48	4	19.875 x 21	3950-15A		3950-45A		3950-75A	2,401.00			2200-60A	152.00
F	17.125 x 18 x 48 = 5	4	14.75 x 14.5	3950-16A		3950-46A		3950-76A	1,978.00			2200-61A	133.00
	22.625 x 18 x 48 22.625 x 24 x 60	4 5	19.875 x 14.5 19.875 x 21	3950-17A 3950-18A		3950-47A 3950-48A		3950-77A 3950-78A	2,185.00 2.975.00			2200-60A 2200-60A	152.00 152.00
G		5	14.75 x 14.5	3950-16A 3950-19A		3950-49A	•	3950-76A 3950-79A	2,973.00			2200-60A 2200-61A	132.00
4	22.625 x 18 x 60	5	19.875 x 14.5	3950-19A		3950-50A		3950-80A	2,651.00			2200-61A 2200-60A	152.00
Н	12 x 12 x 12	1	9.75 x 9.25	3950-20A	•	3950-51A	•	3950-81A		1935-01		2200-00A 2200-14A	85.00
-	12 / 12 / 12		7.75 X 7.25	3,30 21/1	, , , , ,	5,50 517	., 2.00	1 775	.,	.,,,,,			03.00

Constructed of transparent static-dissipative PVC; removable back wall made of nondissipative material. **For use in acrylic cabinets. Select stainless steel shelves for use with static-dissipative PVC cabinets. *** Acrylic is damaged by alcohol and other cleaning agents.





Better Doors — Long-Lasting Cabinets!

Doors are typically the only desiccator component to show signs of wear. These improvements safeguard your investment in clean, dry storage!

LiftLatches™ — Standard on all models, these noncontaminating, durable lifting latches operate without straining hinges. Upgrade to all-stainless steel models to minimize contamination. (See pg. 14).

Stainless Steel Door Frames — Lend strength and rigidity to plastic doors!

One-Piece, Nonadhesive Gaskets — Standard on all models with stainless steel frames, these durable gaskets are mechanically attached to eliminate adhesives.



ONE CHAMBER PER TIER













-171/8" or 225/8"

a

CE



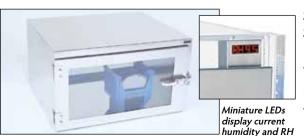
Correspond	ling 304 Sta	inless Steel S	helves**		(leve	esponding Sta ling feet includers information	Other Options (see page 14)	
Perforated	Non-Per-	Non-Perfo-	Non-	Price		Stainless Steel		1000000
Shelf	forated Tray	rated Shelf	Perforated Shield	(Includes Installation)	3" High	12" High	3" & 12" High	s/Each 798.00 70.00 99.00 954.00 568.00 246.00
Cat. #	Cat. #	Cat. #	Cat. #	\$/Each		Cat. #	\$/Each	=
1978-02	1978-04	1978-05	1978-06		1740-92	1740-56	621.00	m 4 4
1976-02	1976-04	1976-05	1976-06		1740-94	1740-60	587.00	2 4 8 8 9 4
1977-02	1977-04	1977-05	1977-06		1740-96	1740-64	605.00	Cat. # 1606-61 1600-49 1600-60B 9500-02A 1700-44
1978-02	1978-04	1978-05	1978-06		1740-92	1740-56	621.00	0 2 2 2 3 3 E
1976-02	1976-04	1976-05	1976-06		1740-94	1740-60	587.00	<u>₹</u> %
1977-02	1977-04	1977-05	1977-06		1740-96	1740-64	605.00	irec
1978-02	1978-04	1978-05	1978-06		1740-92	1740-56	621.00	q up
1976-02	1976-04	1976-05	1976-06		1740-94	1740-60	587.00	2 wi
1977-02	1977-04	1977-05	1977-06	149.00	1740-96	1740-64	605.00	r d
1978-02	1978-04	1978-05	1978-06	159.00	1740-44	1740-80	417.00	catc uire dud
1976-02	1976-04	1976-05	1976-06	133.00	1740-48	1601-10	354.00	lesic req 4, in
1977-02	1977-04	1977-05	1977-06		1740-52	1740-88	387.00	ne/c ator t of
1978-02	1978-04	1978-05	1978-06		1740-44	1740-80	417.00	sicg
1976-02	1976-04	1976-05	1976-06	133.00	1740-48	1601-10	354.00	che /de
1977-02	1977-04	1977-05	1977-06	149.00	1740-52	1740-88	387.00	with with
1978-02	1978-04	1978-05	1978-06		1740-44	1740-80	417.00	Dual Purge" System Dual Purge" Sensor Switches (one/desiccator door required) Automatic RB" Valve NitroWatch" NitroWatch" Sensor (one/desiccator required) Casters (Heavy-duty, low-profile, set of 4, including 2 with brakes)
1976-02	1976-04	1976-05	1976-06		1740-48	1601-10	354.00	yst ens m. V
1977-02	1977-04	1977-05	1977-06		1740-52	1740-88	387.00	Dual Purge" System Dual Purge" Sensor S Automatic RB" Valv NitroWatch" NitroWatch" Sensor (Casters (Heavy-duty)
1978-02	1978-04	1978-05	1978-06		1740-44	1740-80	417.00	irge rge atic atch atch
1976-02	1976-04	1976-05	1976-06	133.00	1740-48	1601-10	354.00	Pu Pu ow ow ow ow ers
1977-02	1977-04	1977-05	1977-06	149.00	1740-52	1740-88	387.00	Dual Purge": Dual Purge": Automatic RI NitroWatch": NitroWatch": Casters (Heav
1935-02	1935-04	1935-05	1935-06	89.00	_	1605-09	338.00	

Critical Requirement? Materials Make all the Difference!

Plastics are permeable to moisture. Water vapor can molecular penetrate the structure of plastic, and even a constant, high flow of nitrogen may not keep it away from moisture-sensitive components in very low relative humidity applications.

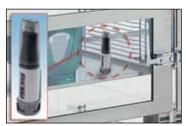
For this reason, Terra recommends desiccators made of stainless steel a much more effective moisture barrier—for critical relative humidity requirements < 10%RH (see page 8).

Price for a shelf, shield, or tray of a given size is the same. All stainless steel shelves are electropolished and individually poly bagged and sealed to prevent surface contamination.



Smart Desiccator™— Saves up to 78% of nitrogen costs!

See page 2 for the SmartDesiccator™, Terra's automated storage environment that incorporates a humidity control system.



RH/Temperature Data Logger. Get a complete record of storage conditions—see page 7





set point

ValuLine™ **DESICCATORS**

Value Without Compromise!

- Low-cost system provides a controlled flow of nitrogen to prevent moisture-related degradation of stored materials
- Rigid cabinet construction includes rear plenum chamber, for uniform gas distribution, and reinforced doors
- Chrome-plated wire racks allow shelf adjustment to accommodate varying part sizes (order plastic or stainless steel shelves separately)
- Parts standardization simplifies upgrades and replacements
- Turnkey systems include flowmeter and Automatic RB™ (Relief/Bleed) Valve — just connect to N₂ source and you're ready for operation

Designed for Clean, Durable Operation

Designed for purging with nitrogen to achieve low-humidity conditions, each model includes a perforated rear plenum wall that strengthens the cabinet and allows gas to enter all chambers uniformly.

Doors feature reinforcement ribs to ensure a better seal against closed-cell gasketing. The expansion latches eliminate internal scraping caused by rotarystyle latches; the closing mechanism is positioned outside the chamber to keep stored materials clean.

Select among five standard sizes. Acrylic models provide strength and full visibility of stored parts but do not stand up to repeated wipe-down with strong cleaning agents (including alcohol). They also accumulate static surface charges that can lead to electro-static discharge.

Static-Dissipative PVC models eliminate these problems. Durable, molecularly embedded dissipative layers ensure safe removal of surface charges, protecting against both ESD and particle attractions. They also offer wide chemical resistance and are safe for use with alcohol.

Component Standardization a Terra Value Advantage!

Break a latch? Not a problem. Terra desiccator components, from doors to racks to hinges, are standardized and stamped with a part number for easy identification. If any component is damaged, simply call for a replacement.

Terra stocks hardware for models placed in service over a decade ago. You tell us the serial number of your Terra product, no matter how old, and chances are we can replace or upgrade worn parts.





Compression Gaskets

Eliminate scraping, contaminants, and wrist strain produced by twist-style latches.



Chrome-plated Racks and Hinges

Select Adjust-A-Shelf Desiccators for all-stainless steel hardware.



Automatic RB® (Relief/Bleed) Valve

Relieves pressure to extend life of gaskets and hinges; functions as a check valve to prevent air influx.



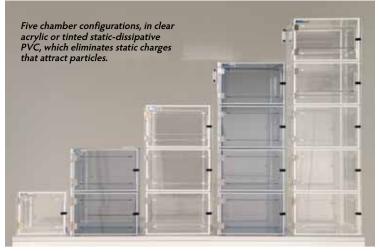


Order by 10:00am PST for same-day shipping.





Standard components: flowmeter, chrome-plated hinges and racks, relief/bleed valve, grounding terminal (included on static-dissipative PVC models)



Powder-Coated Stand

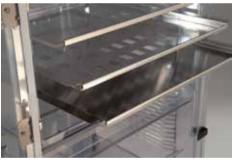
Raises cabinets 4". Noncontaminating nylon leveling feet included. Select optional casters below. Recommended for cabinets with more than three chambers to allow floor positioning.

	Cat. #	\$/Each
Stand	1740-32	342.00
Casters (set of 4)	1700-44	246.00

ValuLine™	Desiccator*						
	Specificat	tions	Clear Acrylic** Static-Dissipative P\			ipative PVC	
No of Chambers	Nominal Dimensions W"xD"xH"(mm)	Nominal Inside Dimensions W" x D" (mm)	Cat. #	\$/Each	Cat. #	\$/Each	
1	12 x 12 x 12 (305 x 305 x 305)	9.75 x 9.25 (248 x 235)	3949-00	290.00	3949-10	401.00	1
2	17.12 x 18 x 24 (432 x 457 x 610)	14.25 x 14.5 (362 x 368)	3949-01	690.00	3949-11	1,123.00	(
3	17.12 x 18 x 36 (432 x 457 x 914)	14.25 x 14.5 (362 x 368)	3949-02	1,120.00	3949-12	1,587.00	
4	17.12 x 18 x 48 (432 x 457 x 1219)	14.25 x 14.5 (362 x 368)	3949-03	1,192.00	3949-13	2,036.00	
5	17.12 x 18 x 60 (432 x 457 x 1524)	14.25 x 14.5 (362 x 368)	3949-04	1,441.00	3949-14	2,500.00	

^{*} Order desired shelves and stands separately (see below).

^{**} Acrylic is damaged by repeated contact with strong cleaning agents, including alcohol



Shelves and Trays								
Material	For 1-ch ValuLine™ D		All Other Desico					
	Cat. #	\$/Each	Cat. #	\$/Each				
Reinforced Acrylic Shelf	1935-01	27.00	1976-01	44.00				
Perforated 304 SS Shelf	1935-02	89.00	1976-02	133.00				
Solid 304 SS Shelf	1935-05	93.00	1976-05	133.00				
Solid 304 SS Tray	1935-04	93.00	1976-04	133.00				



RH/Temperature Data Logger

of storage conditions! Records data at installation. selected intervals. Download to computer to display in several formats.

\$/Each 9500-10 205.00



Temperature/Humidity Gauge

USB device provides a convenient record Ideal for monitoring humidity. Includes

S/Fach Cat # 5401-15 143.00



Kleer-Vue Sorbent Boxes

An alternative to nitrogen purging, these desiccant units contain indicating silica gel that turns from blue to pink as silica gel absorbs moisture. To regenerate, simply dry in a conventional or microwave oven. 2.125" x 2.125" x .8". Twin pack contains two boxes.

Cat. # \$/Each Sorbent Boxes 2010-75 28.00 Silica Gel (20 lb. can) 1900-02 185.00









Series 100-300

STAINLESS STEEL DESICCATORS

CE

Terra manufactures several lines of stainless steel desiccators, for applications ranging from benchtop storage to multiplexed humidity control. All feature the one-piece gaskets and LiftLatches for superior service life and sealing performance.

Note: Series 100 and 300 desiccators include shelf racks on a standard basis. Racks must be specified for other models if shelves are required.

A/B. Series 100 Benchtop Stainless Steel Desiccator

Air-tight seals and all-stainless steel construction maintain a low-humidity storage environment to keep parts clean and dry. Inlet/outlet ports allow nitrogen purging (see page 14 for ordering information on optional nitrogen controllers). Transparent staticdissipative PVC windows protect against static and particle build-ups.

Electropolishing Available!

C. Series 200 Double-Wall Stainless Steel Desiccators

Smooth-profile stainless steel design ensures a staticsafe environment that won't shed or accumulate particles. Built-in gas plumbing and Automatic Relief/Bleed Valve in each chamber allow easy, safe connection to nitrogen or clean dry air purge line.

Shelves	Cat. #	\$/Each
Perforated	1610-35	158.00
Solid	1679-45	158.00
Stands		
4" High	9606-29	338.00
12" High	9606-32	338.00

D/E. Series 300 Stainless Steel Desiccator

Provides all the humidity control features of the Series 100 and 200 models above, but features easy-open double doors for fast, easy access to the whole cabinet.





Series 100 Stainle	Series 100 Stainless Steel Desiccator: Subtract 2" from OD to get ID							
Outside	Tempered		Dissip		Corresponding Shelves*			
$\begin{array}{c} \textbf{Dimensions} \\ (\forall \exists x \exists \exists x \exists x \exists y \exists x \exists y \exists x \exists y \exists x \exists y \exists x \exists x$	Cla Wind		PVC Windows		Perforated	Non- Perforated		
	Cat. #	\$/Each	Cat. #	\$/Each	Cat. #	Cat. #	\$/Each	
12 x 10.75 x 12	1678-00A	1,121.00	1610-34A	1,161.00	1610-40	1678-05	96.00	
12.25 x 16 x 12.25	1690-00A	1,300.00	1610-91A	1,281.00	1610-92	1610-93	104.00	
16 x 13 x 16	1678-10A	1,541.00	1610-33A	1,526.00	1610-41	1679-01	150.00	
22 x 21.625 x 16	1679-06A	1,976.00	1610-32A	1,961.00	1610-42	1679-45	150.00	

^{*} Individually polybagged after electropolishing to prevent surface contamination.

Series 200 Stainless Steel Adjust-A-Shelf™ Desiccators									
No. of Chambers	Chamber Dimensions	Overall Dimensions	Stainles	ss Steel	Electropolished Stainless Steel				
	(W" x D" x H")	(W" x D" x H")	Cat. #	\$/Each	Cat. #	\$/Each			
1	20 x 20 x 14	23.5 x 22.5 x 16.5	9606-20A	2,826.00	9606-00A	3,153.00			
2	20 x 20 x 14	23.5 x 22.5 x 33.5	9606-21A	5,868.00	9606-01A	6,045.00			
3	20 x 20 x 14	23.5 x 22.5 x 50	9606-22A	9,106.00	9606-02A	9,127.00			

Series 300 Stain	less Steel De	Shelf*		Stand**				
	72"H x 36'	"W x 18"D	36"H x 36	5"W x 18"D				
	Cat. #	\$/Each	Cat. #	\$/Each	Cat. #	\$/Each	Cat. #	\$/Each
304 Stainless Steel	1991-56A	12,699.00	1991-58	6,361.00	1991-51	292.00	1991-54A	544.00
Electropolished SS	1991-57A	13,729.00	1991-59	7,342.00	1991-53	379.00	1991-55A	611.00

Includes perforations along one edge to permit gas circulation. Comes with mounting clips.

^{**} Includes leveling feet; raises cabinet 4" off floor.

STAINLESS STEEL DESICCATORS

The Series 400 Stainless Steel Desiccator provides the optimal clean, low-humidity environment for sensitive parts.

Available in many chamber configurations, it includes front and rear static-dissipative PVC viewing windows for full visibility of stored contents. Staticdissipative PVC helps control static charges and the particles they attract.

All models feature a plenum chamber that ensures uniform distribution of nitrogen purge gas.

NitroPlex™-Ready!

Terra fabricates these desiccators for use with the NitroPlex[™] humidity control system, the most advanced nitrogen purge controller available. Equipped with the NitroPlex™, these systems automatically regulate a nitrogen purge in order to maintain any relative humidity set point you require—down to 0% RH. See page 10 for more information.





Temperature/Humidity Gauge

Includes installation on any specified desiccator cabinet.

\$/Each 5401-15 143.00

590.00

Heavy-Duty Cleanroom Casters

Set of Four 1700-43



Series 400 Stainless Steel Desiccators – For use with NitroPlex™ Control System, add NP to part number.											
Type	No. of	Nominal		Single-S	ide Access		Double-Side Access				
(See below)	Chambers	$\begin{array}{c} \textbf{Dimensions*} \\ (\mathbb{W}^* \times \mathbb{D}^* \times \mathbb{H}^*) \end{array}$		304 Stainless Steel		Electropolished 304 Stainless Steel		ainless eel	Electropolished 304 Stainless Steel		
			Cat. #	\$/Each	Cat. #	\$/Each	Cat. #	\$/Each	Cat. #	\$/Each	
	2	25 x 20.75 x 33.75	1609-01A	3,670.00	1609-01AEP	3,933.00	1609-07A	4,327.00	1609-07AEP	4,399.00	
Α	3	25 x 20.75 x 50.62	1609-02A	5,686.00	1609-02AEP	6,083.00	1609-08A	6,381.00	1609-08AEP	6,778.00	
	4	25 x 20.75 x 67.50	1609-03A	7,933.00	1609-03AEP	8,595.00	1609-09A	8,860.00	1609-09AEP	9,521.00	
	4	47 x 20.75 x 33.75	1609-04A	7,134.00	1609-04AEP	7,796.00	1609-10A	8,061.00	1609-10AEP	8,590.00	
В	6	47 x 20.75 x 50.62	1609-05A	11,092.00	1609-05AEP	11,886.00	1609-11A	12,484.00	1609-11AEP	13,278.00	
** - 1	8	47 x 20.75 x 67.50	1609-06A	•	1609-06AEP	•	1609-12A	17,546.00	1609-12AEP	18,870.00	

^{**} Excludes hardware. Stands raise cabinets an additional 4" (with leveling feet) or 7" (with casters).





Both models shown with optional	NitroPlay™ System and casters
DOUI IIIOGEIS SIIOWII WILII ODLIOIIAI	INILIOFIEX SYSTEIII AIIU CASTEIS.

System Options							
Accessory	Stainle	ess Steel	Electropolished Stainless Steel				
	Cat. #	\$/Each	Cat. #	\$/Each			
Shelf Rack**	_	_	1609-13EP	35.00			
Perforated Shelf	1609-14	131.00	1609-14EP	171.00			
Solid Shelf	1609-15	1609-15 131.00		171.00			
Stands (with levelers)							
4"H – Type "A"	1609-16	291.00	1609-16EP	423.00			
4"H – Type "B"	1609-18	444.00	1609-18EP	599.00			
12"H – Type "A"	1609-17	291.00	1609-17EP	423.00			
12"H – Type "B"	1609-19	444.00	1609-19EP	599.00			
** Paguirad with calaction	of chalung Order	tura nar chamb	or				

Required with selection of shelves. Order two per chamber.

Heavy-Duty Casters	Cat. #	\$/Set of 4
Includes set of 4, two with locking brakes.	1700-43	590.00







Increased Efficiency Lowers Recovery Time, Increases Yields

The NitroPlex™ system provides state-of-the-art automated humidity control to guarantee the integrity of stored components.

Each microprocessor-based multiplexed sensor/display module, one installed in each chamber, enhances desiccator performance and economizes on nitrogen expenses. It contains a miniaturized moisture sensor that reads the internal humidity level within ± 2% of full scale. The LED readout displays this value or the programmable set point for that chamber.

When the humidity climbs above the set point in any chamber, the NitroPlex automatically directs a high-flow purge of clean, dry nitrogen only to the chamber where it is needed, and only for as long as necessary to bring the humidity back below the set point value.

Specifications

Dimensions: 1.5"W x 2.75"D x 1.5"H; increases height of affected chamber by 1.25"

(Humidity Module)

Stainless steel (chamber humidity modules) Housing Material:

Power Requirement: 110VAC, 50/60Hz or 220VAC, 50Hz (universal power supply)

Display: 5-digit LED ± 0.1% RH Display Resolution: ± 2% RH @ 20°C Sensor Accuracy: 0 - 100% RH Measuring Range:

Calibration: None required. A calibration mode is included for applications that require

calibration to an NIST-traceable instrument.

NITROPLEX™ **HUMIDITY** CONTROL SYSTEM

- Increases desiccator efficiency up to 400% to minimize nitrogen waste and moisture exposure
- Senses and displays relative humidity in each desiccator chamber independently for more efficient, cost- effective moisture control
- Cuts nitrogen expenses by over 75%
- Prevents moisture and contamination migration from one chamber to another
- Lets you specify a different humidity set point for each chamber
- · Automatically delivers a high-flow nitrogen purge only to the chamber where it's needed, and only as long as it's needed to restore RH set point
- · Ergonomic design allows easy viewing, eliminates chamber lip for easier parts removal
- Can be integrated into almost any Terra desiccator line

For Critical Requirements— When every Minute of **Exposure Matters!**



Miniature LEDs display current humidity and RH set point

QuickQuote Planner quickly configures a system to your specifications: www.TerraUniversal.com



Stainless Steel Systems Available! See page 9.

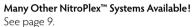


NITROPLEX™ **ORDERING INFORMATION**

You can convert any of Terra's standard desiccators into a NitroPlex™ System simply by adding an "NP" to the desiccator part number. Then, order one NitroPlex[™] module (Cat. No. 1911-31A) for each desiccator chamber.

Example: Cat. No. 3950-36NP is a NitroPlex[™] version. of Terra's standard Adjust-A-Shelf desiccator. To complete the order, specify (10) chamber sensor/ display modules.

S/Each NitroPlex™ Module 1911-31C 1,097.00 Includes humidity sensor, 5-digit LED display, Automatic RB® Valve, and gas plumbing. Order one







т	Specification	ons	1	NitroPlex™ Desiccators				304 Stainless Steel Door Frames		Corresp. Stainless Steel Shelves		Corresp. Stands (leveling feet incl.)	
y p	Overall Dir (W"xD"xH		Static Dissipative PVC		ive PVC Clear Acrylic		Select appropriate quantity for your desiccator		Perforated Shelf		Stainless Steel 4" High		
е			Cat. #	\$/Each	Cat. #	\$/Each	Cat. #	\$/Each	Cat. #	\$/Each	Cat. #	\$/Each	
	45 x 24 x 60	ers -	3950-06ANP	8,979.00	3950-36ANP	4,353.00	2200-30A	160.00	_	_	1740-92	621.00	
A	34 x 18 x 60	Two mb	3950-07ANP	7,134.00	3950-37ANP	3,889.00	2200-31A	140.00	1976-02	133.00	1740-94	587.00	
	45 x 18 x 60	. sh	3950-08ANP	8,207.00	3950-38ANP	4,234.00	2200-30A	160.00	1977-02	149.00	1740-96	605.00	
	22.625 x 24 x 60	0 -	3950-18ANP	5,320.00	3950-48ANP	2,777.00	2200-60A	152.00	1978-02	159.00	1740-44	417.00	
В	17.125 x 18 x 60	mbe tier	3950-19ANP	3,846.00	3950-49ANP	2,217.00	2200-61A	133.00	1976-02	133.00	1740-48	354.00	
	22.625 x 18 x 60	cha per	3950-20ANP	4,685.00	3950-50ANP	2,453.00	2200-60A	152.00	1977-02	149.00	1740-52	387.00	

Recovery Time Comparison — The NitroPlex™ Advantage

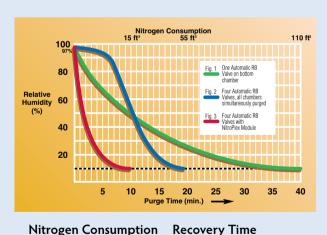
Almost any desiccator maintains a low-RH storage environment under ideal conditions. Problems begin when someone opens a door.

Immediately, moisture-laden air backfills the cabinet. The measure of an efficient humidity control system is how quickly the cabinet can remove moisture and recover the initial humidity set point.

In a large desiccator with a flowmeter and a single bleed valve, this recovery can take up to an hour. If, during this recovery period, another door is opened, the process begins again. Moisture may remain present in the storage enclosure during the entire duration of a working shift—negating your investment in desiccator storage and slashing your product yields.

Terra's Dual Purge™ and NitroWatch™ systems improve system recovery time by initiating a high-flow purge when a door opens or humidity creeps above a set point threshold. This variable purging speeds up moisture removal, but recovery can still take up to 40 minutes if only one bleed valve is present (see Figure 1).

Simply by installing Terra's Automatic RB™ (Relief/Bleed) Valve in each chamber, you can cut both the system recovery time and the nitrogen consumption in half (see Figure 2). This configuration minimizes moisture migration—water vapor is purged out of the chamber it enters.



Nitrogen Consumption

Fig. 1: 110 ft3 Fig. 2: 55 ft³ (100% improvement) Fig. 3: 15 ft³ nearly 300% improvement) Fig. 1: 40 minutes

Fig. 2: 20 minutes (100% improvement) Fig. 3: 10 minutes (400% improvement)

For optimal efficiency, however, a desiccator requires chamberby-chamber humidity sensing and purge control. Only Terra's NitroPlex™ system delivers this purge efficiency (see Figure 3). A NitroPlex™ desiccator typically saves up to 77% in nitrogen cost. More importantly, it cuts system recovery time by 400%, ensuring dry storage under real-world operating conditions.





WAFER BOX DESICCATOR

These desiccators are designed specifically to maximize storage efficiency of standard lot boxes used for 200mm and 300mm wafers.

They feature the same advanced technology features of standard Terra desiccators, including the most efficient sealing techniques available. For optimal performance, select the optional stainless steel door frames, which extend cabinet life and improve sealing performance through the use of one-piece, non-adhesive gaskets.





For 200mm Wafers									
No. Of Chambers	Capacity*	Acrylic**		Static-Dissipative PVC					
		Cat. #	\$/Each	Cat. #	\$/Each				
10	40	9130-20A	5,051.00	9130-24A	9,572.00				
5	20	9130-21A	3,056.00	9130-25A	5,832.00				
For 300mm \	Wafers								
8	16	9130-22A	4,029.00	9120-26A	7,293.00				
4	8	9130-23A	2,320.00	9130-27A	4,031.00				

²⁰⁰ capacities based on Empac No. TR-08A (four boxes per chamber). 300 capacities based on Empac No. SX300 01 (two boxes per chamber)

^{**} Acrylic is damaged by alcohol and other cleaning agents.

Optional Features Cabinet Style	Door Frames			nds* ss Steel
(No. of Chambers)	Cat. #	\$/Each	Cat. #	\$/Each
10	9130-28A	159.00	9130-30	354.00
5	9130-34A	159.00	9130-31	276.00
8	9130-29A	161.00	9130-32	348.00
4	9130-35A	161.00	9130-33	267.00

^{*}Includes levelers. Raises cabinet 4".

No. 9130-21A (for 200mm wafer No. 9130-23A (for 300 mm wafers), carriers), shown with optional shown with optional stainless steel stainless steel door frames,

PORTABLE DESICCATORS

- · A convenient, contamination-free, economical carrying container for moisture-sensitive devices
- Stackable design permits space-saving storage
- Optional quick-connect and Automatic RB° (Relief/Bleed) Valve allow nitrogen purge for a particle-free, low-moisture environment
- Static-dissipative PVC option ensures ESD-safety, eliminates particle attraction to ensure clean surfaces

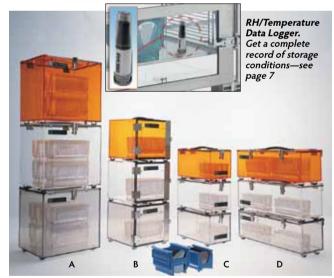
See ordering chart below



Micro-Desiccators

Perfect for small parts storage. Inlet/outlet ports available for nitrogen purging, or use with desiccant (see page 13). Acrylic Static-Dissipative PVC

	/ \CI	YIIC	Static-Dissip	Jalive I v C
	Cat. #	\$/Each	Cat. #	\$/Each
9 x 11 x 8.5	4950-06	444.00	4950-08	705.00
10 x 16 x 9.5	4950-09	576.00	4950-11	857.00



All models shown with standard access doors. Select stainless steel door frames for extended service.

	Specifications		Portable Desiccators						
T Y	Outside Dimensions	Clear Acrylic*		Clear Acrylic* Static Dissipative PVC		Amber Acrylic*		304 Stainless Steel Door Frames	
P E	(W" x D" x H")	Cat. #	\$/Each	Cat. #	\$/Each	Cat. #	\$/Each	Cat. #	\$/Each
Α	12 x 12 x 12	9302-17	323.00	9302-20	537.00	9302-24	378.00	2200-14A	85.00
В	10 x 10.5 x 8.5	9302-00	274.00	9302-21	388.00	9302-25	317.00	2200-51A	53.00
C	12 x 6 x 6	9302-18	266.00	9302-22	378.00	9302-26	309.00	2200-52A	45.00
D	20 x 6 x 6	9302-19	308.00	9302-23	442.00	9302-27	358.00	2200-53A	75.00

^{*} Acrylic is damaged by alcohol and other cleaning agents.

Optional Features:

humidity controllers, and stand.

Quick Connect Fitting Installed, requires RB Valve.

Cat. # \$/Each 1601-06

Automatic RB® Valve Installed; see page 14.

> 1600-60B 99.00



door frames.







DESICART™ LOW HUMIDITY TRANSPORT CARTS



\$/Each

These mobile storage carts transport components from one location to another while maintaining critical low-humidity and low-particle conditions.

Each houses a hermetically sealed desiccator storage chamber, which maintains clean, dry storage conditions during parts transport. Desiccators feature opposing access doors for pass-through convenience, and every door is equipped with a LiftLatch $^{\text{m}}$.

Quick connect/disconnect fittings (optional) enable you to purge the system with nitrogen while it is stationary. Reinforced door construction and gasketing provide air-tight seals that maintain a clean, dry storage environment while the DesiCart is in motion.

Note: Models below feature chrome-plated racks and opposing doors for pass-through access.

RH/Temperature Data Logger

USB device logs data at selected intervals for download/display.

Cat. # \$/Each
9500-10 205.00

Quick Connect/Disconnect Fitting

Cat.#

(installed; requires RB Valve) 1601-06 32.00 Automatic RB® (Relief/Bleed) Valve

(Required for safe

gas purging) 1600-60B 99.00

A. Polyethylene Fi	hylene Frame Ordering Information Corresponding Shelves										
Overall	Shelving	Doors (8)	with A	with Acrylic*		with Static-Dissipative			304 Stainless Steel		teel
H x W x L (inches)	W x D (inches)	H x W (inches)	Desico	cator	PVC	: 🕸			Shield	Cat. # 4002-53	\$/Each 185.00
(inches)	(inches)	(inches)	Cat.#	\$/Each	Cat. #	\$/Each	Cat. #	\$/Each	Tray	Cat. # 4002-54	\$/Each 185.00
33.25 x 27 x 39.5	15 x 22	9 x 15	4002-50B	2,820.00	4002-51B	4,164.00	4002-52	67.00	Shelf	Cat. # 4002-55	\$/Each 185.00

^{*} Acrylic is damaged by alcohol and other cleaning agents.

B. Stainless Steel I	Stainless Steel Frame Ordering Information			Corresponding Shelves							
Overall	Shelving	Doors (8)	with Acrylic*		with Acrylic* with Static-Dissipative		Acrylic*	*		304 Stainless Steel	
H x W x L (inches)	W x D (inches)	H x W (inches)	Desico	ator	PVC	(8)			Shield	Cat. # 4001-96	\$/Each 183.00
(IIICHES)	(IIICIES)	(IIICHES)	Cat. #	\$/Each	Cat. #	\$/Each	Cat. #	\$/Each	Tray	Cat. # 4001-97	\$/Each 183.00
38 x 24 x 36	13.75 x 20	20.5 x 15.75	4001-90B	3,563.00	4001-91B	4,753.00	4001-92	61.00	Shelf	Cat. # 4001-95	\$/Each 174.00

^{*} Acrylic is damaged by alcohol and other cleaning agents.

C. Wafer Box DesiCart™

This DesiCart[™] ensures clean, dry, secure transport of delicate wafers. Its 6"-diameter spring-loaded casters provide a cushioned ride, and ultra-clean materials of construction, including electropolished stainless steel shelves, ensure surfaces that won't slough or outgas.

Overall dimensions: 50.88"W x 26.25"D x 38"H (including hardware). Holds up to 12 200mm wafer boxes.*

Ordering Information

Enclosure Material	Cat. #	\$/Each
Acrylic	4002-48B	6,309.00
Static-Dissipative PVC	4002-49B	7,411.00

^{*}Based on Empak model TR-08A. Custom sizing is available for other carrier sizes.





















ENVIRONMENTAL CONTROL SYSTEMS

A. NitroPlex™ Multiplexed Humidity Controller See page 10

B. Desiccator Dual Purge™ System

Provides variable-flow gas purge to block out moisture and contaminants. Switches to high-flow purge to compensate for pressure drop-out or rising humidity levels. Requires RB valve.

	Cat. #	\$/Each
Dual Purge System	1606-61	1,798.00
(110/220VAC, 50/60Hz)		
Sensor Switch	1600-49	70.00

C. NitroWatch™ Humidity Controller

(order one per desiccator door)

Operates together with the Dual Purge System to maintain a low humidity set point. Also displays current RH level.

riamiancy set point. 7 tiso dispid	Cat. #	\$/Each
Control Unit	9500-00A	954.00
(draws power from Dual Purge)		
Humidity Sensor	9500-02A	568.00

D. Automatic RB° (Relief/Bleed) Valve

Automatically relieves pressure build-ups to ensure safe operating conditions with Terra's gas control systems. One valve recommended per storage chamber.

	Cat. #	\$/Each
Model Shown	1600-60B	99.00
RB Valve with Exhaust Fitting	1600-60A	113.00
Allows connection of .25" exha	ust tubing.	

E. Flowmeters

(order one per cabinet)

For static control of nitrogen purge in small benchtop desiccators. Note: Because flowmeters cannot vary nitrogen flow in response to operating conditions, they increase nitrogen expenses and are not recommended for large cabinets.

Flow Range	Cat. #	\$/Each
1 – 10 SCFH	1600-31	118.00
2 – 20 SCFH	1600-32	118.00

F. Desiccator Ionizing Modules

These low-voltage ionizers minimize EMI/RFI and safety hazards. Emitters, mounted in a 304 stainless steel housing in the desiccator plenum chamber, direct balanced streams of positive and negative ions to safely neutralize static charges.

G. Electropolished Stainless Steel LiftLatches

Terra's LiftLatches™ eliminate rotary motion that strains hinges and gaskets. Standard cabinets include chrome-plated latches.

J/ Lucii	Cat. II	
	316 SS available)	304 EP Stainless Steel (316
49.00	1603-63-2	Upgrade Models*
184 00	1603-40-2	Retrofit Models**

- Upgrades must be ordered together with the associated desiccator
- ** Use the same mounting holes and hardware as standard latches for fast, easy installation.

H. Humex 2™ Humidifier

Provides inline humidification of nitrogen or other process gas being fed into a desiccator. Quick vaporization module eliminates moisture sputtering.

	Cat. #	3/LaCII
Humex 2 [™] 110VAC, 50/60 Hz	9081-02	2,478.00
Humex 2™ Humidity Sensor	9500-02A	568.00



DESICCATORS by Bel-Art

For creating optimal dry, dust-free and sometimes air-free storage of moisture sensitive products, compact and portable Secador* 1.0 and 2.0 desiccators are an excellent choice for applications in the pharmaceutical, industrial, and electronic components packaging industries. The patented seal design provides excellent moisture protection, and the one latch loops allow securing with a lock or tamper evident seal. Door-mounted hygrometer allows convenient tracking of RH. Manually operated and monitored models are made from Durastar* co-polyester plastic material that blocks 99% of UV light from penetrating the interior of the cabinet. These desiccators resist stains, chemicals and fine cracks. Interchangeable units have built-in carrying handles and stack up to three units high. Moisture is absorbed inside the unit by silica, activated charcoal and/or gel beads.

A. Secador® 1.0 Desiccator Clear with Blue End Caps

Dimensions: 13.4"W x 16.3"D x 8.4"H. Ideal for storing moisture sensitive items and samples Includes one removable perforated shelf.

Cat. # \$/Each 1538-09 173.00

B. Secador® 1.0 Desiccator Amber

Amber color reduces light penetration by more than 50%. Dimensions: 13.4"W x 16.3"D x 8.4"H. Ideal for storing light sensitive items and samples. Includes one removable perforated shelf.

Cat. # \$/Each 1538-11 195.00

C. Secador[®] 2.0 Desiccator Clear

Dimensions: 13.4"W x 16.3"D x 12.4"H. Ideal for storing moisture sensitive items and samples. Includes two adjustable perforated shelves.

Cat. # \$/Each 3618-54 346.00

D. Secador® 2.0 Desiccator Amber

Amber color reduces light penetration by more than 50%. Dimensions: 13.4"W x 16.3"D x 12.4"H. Ideal for storing light sensitive items and samples. Includes two adjustable perforated shelves.

Cat. # \$/Each 3618-56 363.00



Ideal for use with Secador 1.0 or 2.0 desiccators, these desiccant cartridges reduce moisture and the silica gel beads turn pink when saturated with moisture. The transparent polystyrene dish allows silica gel examination. Order includes 6 disposable desiccant cartridges per pack 2.375" (60 mm) diameter. Cartridges are non-toxic, non-corrosive and inert.

Cat. # \$/Each 1538-14 45.00

1538-14 45.00 F. Techni-Dome® Vacuum Desiccator

The Techni-Dome® Vacuum Desiccator offers up to four times more volume, 65 liters (4,000 cu. in.) than most other large benchtop units—enough for items up to 45cm (18") tall or wide. Polycarbonate construction is chemical resistant and easy to clean. Safely support vacuum level to 29" Hg (737 mm) at room temperature for 24 hours. Includes stopcock with Teflon® plug and two polypropylene shelves. Size: 22" diameter.

Cat. # \$/Each
3308-11 355.00

G. More Vacuum Desiccators

See page 19

Custom designs to your specifications!









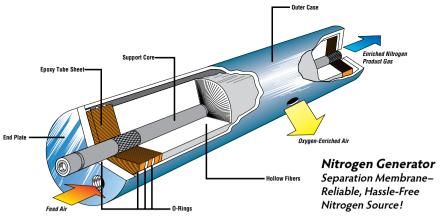












PROCESS GAS GENERATORS and **DRYERS**

Terra's gas generators and gas dryers provide several ways to produce a dry, particle-free environment inside glove boxes, desiccators, and other enclosures.

Membrane separation systems operate with no moving parts and require almost no maintenance. The Nitrogen Generator uses this technology to provide a reliable source of clean, dry nitrogen.







Comparative Guide to Terra Gas Dryers								
Product	Design Type	Outlet Flow Capacity	Service Requirement	Prefilters Included	Overall Dimensions (WxDxH)	Recommended Application		
					18 x 18 x 81.25		Cat. # 2700-09A	\$/Each 14,452.00
A. Nitrogen	Membrane	See performance	Air Compressor	Yes (micro-fiber&	24 x 12 x 49.25	Gloveboxes, desiccators & N ₂ based process equipment in labs	2700-09A 2700-11A	6,344.00
Generator	Membrane	chart	(#9505-47)	coalescing)	20 x 12 x 49.23	where N_2 is preferable to dry air	2700-11A 2700-12A	5,070.00
				cou.coc6/	20 X 12 X 33.3	2 '	2/00-12A	5,070.00
B. Dryex 80™ Gas Dryer	Membrane	420-900 SCFH	Air Compressor (#9505-43)	Yes (micro-fiber & coalescing)	24 x 12 x 49.25	Low-humidity applications (in gloveboxes or desiccators) where clean, dry air is acceptable	9082-00	4,954.00
C. Dryex 10™ Generator	Membrane	54-105 SCFH @ 100 PSIG	Air Compressor (#9505-43)	Yes (micro-fiber & coalescing)	16x 7.25 x 6.5	Ideal source of purged gas in moisture-sensitive storage and processing applications	9082-01	2,570.00

HIGH-CAPACITY **NITROGEN GENERATOR**

- Turnkey solution supplies high-volume of 99%+ pure nitrogen for laboratory or industrial applications*
- Compressor processes clean, dry air for nitrogen production
- Eliminates limitations of conventional nitrogen sources—gives you control of rate, purity and cost of nitrogen production
- · Large nitrogen holding tank ensures a ready supply at all times
- Modular design allows easy accessibility of all components for required maintenance

Terra Universal's High-Capacity Nitrogen Generator includes both a high-volume rotary screw air compressor and Terra nitrogen* tanks/membranes for a complete system. Simply allow the holding tank to fill, and you've got 60 gallons of N2 ready to use. Easily and quickly replenish as needed.

The product is designed to provide a continuous flow of 99%+ pure nitrogen without the expense and inconvenience associated with gas cylinders. To begin the nitrogen separation process, the compressed air passes through coalescing filters to remove residual water, oil and particles. The air then enters the hydrocarbon scrubber/filter to remove hydrocarbon vapors. The separation of nitrogen from other gases is the last step in the process; the filtered air enters the nitrogen generator membranes where nitrogen gas is partitioned and stored in a 60-gallon pressurized tank ready for use.



Specifications

Nitrogen Purity: 99%+ (depending on inlet pressure)

Power Requirements (compressor): 208/230/460 VAC, 60Hz, 3-phase, prewired for 460V

operation

Power Requirements (generator): 120VAC / 240VAC

Generator Max. Power: 4kW/

Footprint: 90" x 72" (generator and compressor)

Maximum height:

Generator Tank Capacity N₂ holding tank: 60 gal.; Compressed air storage: 200 gal.

Compressor pressure range 217 psig Compressor Capacity 157 acfm Compressor Motor Power 50 HP

78.375"L x 40.5"W x 67"H Compressor Dimensions

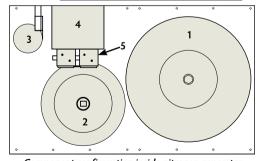
Compressor Weight 2,458 lb

High-Capacity Nitrogen Generator 120 VAC 2701-32 \$43,000.00 \$43,000.00 240 VAC 2701-32-220

* See performance data at TerraUniversal.com for correlated flow.

A Reliable Nitrogen Source When You Need It!

Nitrogen's (N_2) inert properties make it a necessity for many industries, such as life science, semiconductor, aerospace, food, chemicals, and energy. It's widely used for drying, purging, cooling, and to create a protective barrier between sensitive parts and the damaging environment (i.e., oxygen). High-volume N_2 production is an effective process that eliminates limitations and higher cost of N2 canisters.



Component configuration inside nitrogen generator powder-coated steel cabinet

Nitrogen Generator System Components:

- 1 200-gallon air holding tank
- 2 60-gallon nitrogen holding tank
- 3 Hydrocarbon filter
- 4 Two (2) nitrogen membranes and one (1) exit filter
- 5 Coalescing pre-filters
- 6. High-volume rotary screw compressor









Sure-Grip® EX Safety Can Storage Cabinets

Designed to meet OSHA and NFPA standards, these cabinets are sturdily constructed of all-welded, 18-gauge, double-walled steel with 1.5" of insulating air space for fire resistance. They include spill-slope safety shelves adjustable on 3" centers and dual vents

with built-in arresters. All models shut and latch automatically when fusible links melt at 165°F (74°C) under fire conditions. Patented, concealed closing mechanism in self-close style maximizes available shelf space and minimizes risk of damage to the mechanism. Backed by a 10-year warranty.



Capacity (gal.)	Dimensions (W x D x H)	Approval Listing*	Doors/Type		
(gai.)	, ,	0		Cat. #	\$/Each
30	43" x 18" X 44"	FM, N, O	2 / manual	2800-00A	513.00
30	43" x 18" X 44"	FM, N, O, U	2 / self-closing	2820-00A	574.00
45	43" x 18" X 65"	FM, N, O	2 / manual	2820-02A	636.00
45	43" x 18" X 65"	FM, N, O, U	2 / self-closing	2820-03A	699.00
60	34" x 34" X 65"	FM, N, O	2 / manual	2820-05A	767.00
60	34" x 34" X 65"	FM, N, O, U	2 / self-closing	2820-06A	859.00

^{*} See Approval Key

Corrosive Storage Cabinets

These steel cabinets feature a two-part enamel coating which has been tested successfully with widely used acids, caustics, and alkalines, such as hydrochloric acid 37%, sulfuric acid 33%, and sodium hydroxide. This surface will not allow absorption that could cause subsequent problems. The 22-gallon model is an Under-the-Counter Cabinet, with polypropylene-lined bottom and top, and a .75-inch tray top, which can completely contain a 5-pint spill. The other three models, which are floor-mounted, feature corrosive-resistant polyethylene trays, to contain spills, on the bottom and on the shelves.

Approval	Key
-----------------	-----

- FM Factory Mutual tested and approved
- National Fire Association (NFPA) code 30
- Complies with OSHA regulations
- Complies with Uniform Fire Code

Capacity	Dimensions	Approval	Doors/Type		
(gal.)	(WxDxH)	Listing*		Cat. #	\$/Each
30	43" x 18" X 44"	FM, N, O	2 / manual	2820-09A	618.00
45	43" x 18" X 65"	FM, N, O	2 / manual	2820-10A	708.00
45	43" x 18" X 65"	FM, N, O, U	2 / self-closing	2820-11A	793.00
22	35" x 22" x 35"	FM, N, O	2 / manual	2820-12A	591.00

^{*} See Approval Key

Enclosed Safety Shower

- Provides full-body shower and eye wash while protecting lab against water and chemical splashes
- Polypropylene enclosure resists most lab acids and corrosives
- Easy-parting transparent vinyl curtain allows fast, convenient access while shielding the external environment
- Immediate-response operation handles are easy to activate

Terra's safety shower combines easy, reliable operation with a fully enclosed design that enhances safety both inside and outside the shower area.

The polypropylene shell resists most laboratory acids and corrosives. By shielding the shower on three sides, it minimizes the chance of the water spray—or of harmful chemical splashes—affecting parts or personnel outside the shower. The 40-mil overlapping vinyl strip curtain on the front is easily parted for quick entry into the enclosure.

All eye rinser hardware is zinc-plated. The standard overhead nozzle height is 78" off the shower floor; the eye rinsers are positioned 42" off the floor. The shower comes complete with PVC plumbing that connects to your in-house water supply by means of a 1.25" ID pipe fitting. The sloping bottom feeds into a 2.5" drain line. Dimensions: 38"W x 41"D x 90"H. Complete specifications at TerraUniversal.com.

> Cat. # S/Each 1530-50 7,433.00



See specifications/ordering chart below.

A. High-Capacity Chamber (see chart below)

Ideal for degassing large assemblies. Powder-coated steel chamber with 1"-thick aluminum door. Includes 1"-thick polycarbonate viewing window, piping, fittings and solenoid valve for convenient control (order pump and vacuum controller separately). 18"W x 48"L stainless steel shelf creates a convenient platform 4.5" above chamber floor.

Powder-Coated Steel Stand Cat. # S/Each Raises chamber shelf to 34.6" above floor level **3404-04 1,189.00**

B. Stainless Steel Chamber (see chart below)

Double-wall construction; includes 8" x 8" tempered glass viewing window and dual metering valves and 0-30" vacuum gauge.

C. Stainless Steel TrinosLine Medium Vacuum Chamber (see chart below)

Includes acrylic swing access door with left hinge and five vacuum ports to accommodate multiple vacuum lines: 2x KF16, 2x KF25, 1x KF40. Leak rate: <1x10^-8 mbar l/s. High-vacuum models also available.

D. Full-View Acrylic Chamber (see chart below)

Made of $^{1}/_{2}$ "-thick cylindrical acrylic. Designed for continuous pump operation with safety relief valve.

E – J. Acrylic Chambers

See chart below.

Ideal for degassing and transporting small parts. Designed for continuous pump operation (order below).

Vacuum Chamber Accessories

	Cat. #	\$/Each
Metering Valves (installed)	5235-09	168.00
Two required for direct connection	on to pump, or one if	connecting
Vacuum Controller.		

Vacuum Gauge (installed) 5235-10 206.00 Required if selected pump does not include metering kit.

Vacuum Controller

Recommended for all continuous vacuum applications. For Full Vacuum (to 29.9" Hg). Select appropriate Turnkey Connection Kit below.

120VAC, 60Hz 1681-75 2,741.00 220VAC, 50Hz 1681-75-220 2,741.00

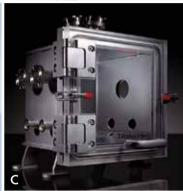
Connection Kit

Includes all connections, vacuum, solenoid, turnkey installation and testing charges.

For Type A–C Chambers 5400-25 1,524.00
For Type D–J Chambers 5400-24 1,524.00











Complete line of pumps at TerraUniversal.com

Vacuum (Chambers						Factory Tested [*]	•
Type	Dimensions ($\mathbb{W}'' \times \mathbb{D}'' \times \mathbb{D}' \times $	(H" excluding hardware)	Max.			Max.		
	Outside	Inside	Vacuum	Cat. #	\$/Each	Vacuum	Cat. #	\$/Each
Α	49L x 30 dia.	48L x 26 dia.	29.9" Hg	3404-03	23,032.00	_	_	_
В	13 x 15 x 14	8 x 12 x 8	29.9" Hg	3404-00	3,261.00	_	_	_
C	Varies with flange size	20 x 20 x 20	29.5" Hg	5235-25	11,852.00	_	_	_
D	12"-dia. x 14.5	11"-dia. x 13.5	29.8" Hg	5235-08	2,309.00	_	_	_
E	17 x 11 x 12.5	14 x 8 x 9.5	27.0" Hg	5235-00A	2,202.00	29.9" Hg	5235-16	2,753.00
F	13 x 13 x 7.5	10.5 x 10.5 x 4.5	27.0" Hg	5235-01A	1,658.00	29.9" Hg	5235-17	2,065.00
G	9 x 9 x 9.5	6 x 6 x 6.5	27.0" Hg	5235-02A	1,439.00	29.9" Hg	5235-18	1,799.00
Н	13 x 13 x 10.5	10 x 10 x 7.5	27.0" Hg	5235-03A	1,931.00	29.9" Hg	5235-19	2,414.00
1	17 x 17 x 13.5	15 x 15 x 11.5	27.0" Hg	5235-04A	2,276.00	29.9" Hg	5235-20	2,845.00
J	26.5 x 11 x 12.5	11 x 8 x 9.5	27.0" Hg	5235-06A	2,490.00	29.9" Hg	5235-21	3,113.00

^{*} These models are individually factory leak tested and guaranteed to hold specified vacuum level for a minimum of 96 hours.





Visit TerraUniversal.com for other configurations.



Wire Shelf Cabinets -Stainless steel or laminate enclosures, available with HEPA filtration modules





CLEANROOM and LAB STORAGE **CABINETS**

A/B. Reticle Storage Cabinet for Vertical Storage

Open-structure shelves mounted on noncontaminating, low-friction runners provide full access. Each shelf contains three removable stainless steel trays. Order filter/blower separately.

Vertical Storage: Photomask/Reticle Cabinets				
Stainless Steel		Electrop Stainles		
Cat. #	\$/Each	Cat. #	\$/Each	
9130-00*	3,215.00	9130-02*	4,166.00	
9130-01**	6,307.00	9130-03**	8,157.00	
* 28 5"\Y/ v 24	5"D v 28"H			

(Capacity: 189 reticles 7" x 7" x .125"D)

** 28.5"W x 25"D x 62"H (Capacity: 378 reticles 7" x 7" x .125"D)

Filter/Blower Module (Includes HEPA filter).

	Cat. #	\$/Each
110VAC, 60Hz	9056-02	1,112.00
220VAC, 50Hz	9056-02-220	1,112.00

Panel Set

Includes two side panels, one rear panel, and hinged door.

Acryl	lic	Dissipative PVC		
Cat. #	\$/Each	Cat. #	\$/Each	
9130-40*	342.00	9130-04*	652.00	
9130-41**	647.00	9130-05**	1,301.00	
* For 38"H mode				

C. Supplies Cabinet

Adjustable shelves hold garments, wipers, and other cleanroom supplies. See page 26 for ordering information.

D - F. Wafer Box Storage Cabinets

Electropolished stainless steel cabinet features adjustable shelves to accommodate many box sizes.

Wafer Storage Cabinets					
C	Overall Dimensions	Cat. #	\$/Each		
D.	47"W x 20"D x 67"H	9600-21**	13,073.00		
E.	47"W x 26"D x 77"H	9600-22**	13,628.00		
F.	47"W x 26"D x 41"H	9600-37*	5,423.00		
G.	47"W x 26"D x 41"H	9600-38**	5,840.00		

^{*} Solid front door ** Dissipative PVC front windows



GENERAL PURPOSE STORAGE CABINETS

- · Economical storage cabinets are ideal for many laboratory, cleanroom and stockroom applications
- HEPA-filter/blower option provides a continuous downstream of particle-free air
- · Select acrylic for full visibility and economy, or polypropylene for strength and chemical resistance

Clean, Durable, Economical

All cabinets feature double full-height access doors that require minimal clearance space. The durable hinges are spring-loaded and, together with gaskets, ensure a tight seal and a clean environment for stored materials.

For critical contamination-control requirements, select a model with an integral filter/blower module. This unit, mounted to the top of the cabinet, features a 740 CFM variable speed impeller that directs a continuous stream of HEPAfiltered air downward through the storage area (700 CFM under filter load).

All models with HEPA filter/blower modules feature shelf perforations to allow air distribution throughout the cabinet. They are available with either acrylic or static-dissipative PVC doors (dissipative PVC offers complete visibility in addition to dissipative characteristics and excellent chemical resistance).

Kleer-Vue Sorbent Boxes

An alternative to nitrogen purging, desiccant units contain indicating silica gel that turns from blue to pink as silica gel absorbs moisture. To regenerate, simply dry in a conventional or microwave oven. 2.125" x 2.125" x .8". Twin pack contains two boxes.

Sorbent Boxes 2010-75 Silica Gel (20 lb. can) 1900-02

S/Each 28.00 185.00

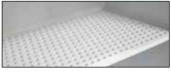












Perforated shelves on models with filter/blowers optimize air flow.

General Purpose Storage Cabinets		Without F	ilter/Blower	With Filter/Blower		
Chamber Height*	No. of Tiers	Dimensions** $(W" \times D" \times H)$	Acrylic with Acrylic Doors***	Polypropylene with Dissipative PVC Doors	Acrylic with Acrylic Doors***	Polypropylene with Dissipative PVC Doors
			Cat. # \$/Each	Cat. # \$/Each	Cat. # \$/Each	Cat. # \$/Each
	1	25.75 x 16.75 x 12.5	4102-00 315.00	4102-15 450.00	4102-29 1,165.00	4102-43 1,300.00
	2	25.75 x 16.75 x 24.75	4102-01 479.00	4102-16 684.00	4102-30 1,329.00	4102-44 1,534.00
12"	3	25.75 x 16.75 x 37	4102-02 658.00	4102-17 965.00	4102-31 1,508.00	4102-45 1,815.00
	4	25.75 x 16.75 x 49.25	4102-03 856.00	4102-18 1,302.00	4102-32 1,706.00	4102-46 2,152.00
	5	25.75 x 16.75 x 61.5	4102-04 1,074.00	4102-19 1,706.00	4102-33 1,924.00	4102-47 2,556.00
	1	25.75 x 16.75 x 15.5	4102-05 372.00	4102-20 497.00	4102-34 1,222.00	4102-48 1,347.00
15"	2	25.75 x 16.75 x 30.75	4102-06 556.00	4102-21 771.00	4102-35 1,406.00	4102-49 1,621.00
15	3	25.75 x 16.75 x 46	4102-07 764.00	4102-22 1,114.00	4102-36 1,614.00	4102-50 1,964.00
	4	25.75 x 16.75 x 61.25	4102-08 999.00	4102-23 1,543.00	4102-37 1,849.00	4102-51 2,393.00
	1	25.75 x 16.75 x 18.5	4102-10 418.00	4102-24 543.00	4102-38 1,268.00	4102-52 1,393.00
18"	2	25.75 x 16.75 x 36.75	4102-11 624.00	4102-25 895.00	4102-39 1,474.00	4102-53 1,745.00
	3	25.75 x 16.75 x 55	4102-12 863.00	4102-26 1,370.00	4102-40 1,713.00	4102-54 2,220.00

- * All internal dimensions are 24.25"W x 16.25"D x specified height.
- ** Filter/Blower adds 13" to specified cabinet height.
- *** Acrylic is damaged by alcohol and other cleaning agents.

Stands

Powder-coated steel, includes nylon leveling feet. Raises cabinet 4".

> Cat. # 9010-94 222.00

Casters

Set of four, two with locking breaks. Cat. # \$/Each 1700-44 246.00





CLEANROOM SHELVING



A. Super Adjustable™ Wire Shelves

Just lift the release on each corner, adjust your shelf at precise 1"-increments, and clamp the release lever shut. In seconds, you can optimize your storage system to changing load requirements, with no tools, no wasted time, and no wasted space. For shelf grounding in static-sensitive applications, select conductive sleeves below.

To the state of th	
The state of the s	
More sizes available	-

A. Super Adjustable Wire Shelves						
Dimer	nsions	Chrom	e Plated	Stainless Steel		
WxL(inches)	Cat. #	\$/Each	Cat. #	\$/Each	
18 x	24	1701-75	45.00	2650-35	131.00	
18 x	36	1701-76	46.00	2650-37	158.00	
18 x	48	1701-77	55.00	2650-39	186.00	
18 x	60	1701-78	63.00	2650-41	236.00	
21 x	24	1697-24	52.00	2650-43	178.00	
21 x	36	1701-79	54.00	2650-45	180.00	
21 x	48	1701-80	62.00	2650-47	207.00	
21 x	60	1697-28	72.00	2650-49	274.00	
24 x	24	1701-81	56.00	2650-51	192.00	
24 x	36	1701-82	58.00	2650-53	194.00	
24 x	48	1701-83	67.00	2650-55	234.00	
24 x	60	1701-84	79.00	2650-57	285.00	
				Cat #	S/Pkg	

	Cat. #	\$/Pkg.
Replacement Sleeves/Wedges (pack of 4)	1571-00	4.00
Conductive Sleeves (pack of 4)	1571-01	4.00

C. Wire Shelves



B. - C. Cleanroom Shelving with Split-Sleeve Assembly

B. Solid Shelves

This InterMetro shelving is fabricated of noncontaminating, cleanroom-compatible materials. Order aluminum split sleeve for shelf grounding.



	Dimens.	Flat Stainless		Chrome Plated		Stainless Steel	
	WxL(in)	Steel					
		Cat. #	\$/Each	Cat. #	\$/Each	Cat. #	\$/Each
	18 x 24	1301-06	149.00	1300-35	41.00	1300-64	152.00
	18 x 36	1301-08	158.00	1300-37	42.00	1300-66	154.00
	18 x 48	1301-10	193.00	1300-39	51.00	1300-68	182.00
	18 x 60	1301-11	235.00	1300-40	59.00	1300-69	232.00
	21 x 24	1301-12	176.00	1300-42	48.00	1300-71	174.00
	21 x 36	1301-14	179.00	1300-44	50.00	1300-73	176.00
	21 x 48	1301-16	219.00	1300-46	58.00	1300-75	203.00
	21 x 60	1301-17	264.00	1300-47	66.00	1300-76	270.00
	24 x 24	1301-18	189.00	1300-49	50.00	1300-78	188.00
	24 x 36	1301-20	194.00	1300-51	54.00	1300-80	190.00
	24 x 48	1301-22	233.00	1300-53	63.00	1300-82	213.00
	24 x 60	1301-23	284.00	1300-54	75.00	1300-83	281.00
Plastic Split Aluminum Split Sleeve						leeve	
		Por grounding type B/C					

SiteSelect ^{***} Posts									
	Height	Stationary			*Mobile				
	(inches)	Chrome Plated		, c		Chrome Plated		Stainless Steel	
		Cat. #	\$/Each	Cat. #	\$/Each	Cat. #	\$/Each	Cat. #	\$/Each
	14.5	1300-85	9.00	1300-91	20.00	_	_	_	_
	34.5	1300-86	12.00	1300-92	31.00	1307-98	13.00	2650-01	32.00
	54.5625	1300-87	20.00	1300-93	30.00	1307-90	14.00	2650-02	31.00
	62.5625	1300-88	18.00	1300-94	39.00	1307-91	15.00	2650-30	34.00
	74.625	1300-89	19.00	1300-95	43.00	1307-92	16.00	2650-03	46.00
	86.625	1300-90	21.00	1300-96	52.00	1307-93	21.00	2650-04	54.00
	* Make it mobile – Select the mobile post from chart above. Casters available at TerraUniversal.com								

Sleeve Assembly

Included with each shelf.

For grounding typ shelves.

\$/Pkg. Cat. # 1303-70 8.00



Wall-Mount Shelving

Order quantities indicated below to create an above-bench storage unit. Posts are 33.6"H and allow shelf adjustment. Metroseal 3 coating inhibits growth of bacteria, fungus and other microbes. Wall mounting hardware not included (varies according to wall type).

	Stainles	s Steel	Antimicrobial Metroseal 3		
Shelves (2*)	Cat. #	\$/Each	Cat. #	\$/Each	
18"D x 36"L	1300-66	15 4 .00	1300-98	54.00	
18"D x 48"L	1300-68	182.00	1300-99	64.00	
Shelf Supports (4*)	1306-74	55.00	1306-70	30.00	
Shelf Posts (2*)	2650-10	78.00	2650-09	43.00	

^{*} Order quantity indicated in parenthesis to create one shelving unit

CHANGE ROOM RACKS

A./B. Upright and Wall-Mount Garment

Electropolished stainless steel construction and open wire design promotes ultra-clean conditions. Features unique hanger capture mechanism to ensure proper positioning at 3" intervals and to deter theft. Both models include electropolished stainless steel hangers; upright models include leveling feet. To meet ESD requirements, select aluminum split sleeves (on facing page). All units are 24"D: upright models are 74"H

are 2 1 D, uprignt models are 7 1 1 i.						
	No. of	A. Upright		B. Wall-Mount		
Width	Hangers	Cat. #	\$/Each	Cat. #	\$/Each	
36"	11	2650-16	1,130.00	2650-20	596.00	
48"	15	2650-17	1,229.00	2650-21	779.00	
60"	19	2650-18	1,712.00	2650-22	988.00	
72"	23	2650-19	1,773.00	2650-231	,072.00	

C. Gowning Bench

Made of 14-gauge, 304 stainless steel, with stainless steel leveling footplates.

Dimensions	Cat. #	\$/Each
16" x 36"	2650-24	705.00
16" x 48"	2650-25	836.00
16" x 60"	2650-26	762.00



D. Economy Garment Rack

A

Made of chrome-plated wire racks, this configuration of Metro Super Erecta shelving creates a versatile garment storage rack. See TerraUniversal.com for other shelving.



STARSYS™ MOBILE WORKCENTERS

Moving? Take your lab with you!

Starsys lets you choose from an array of modular, mobile units to fit your changing work and space requirements.

- Fast, efficient lab installation
- Easy reconfiguration
- Flexible door, drawer and cabinet designs
 - Corrosion-proof, noncontaminating polymer construction
- Greater storage density in a smaller footprint











Series 200 - Three stainless steel solid shelves (see chart below)

CLEANROOM and LAB UTILITY **CARTS**

A. Polymer Utility Carts with Adjustable Shelves

Made of tough, chemical-resistant, high-density polyethylene, an extremely resilient polyolefin that provides excellent chemical resistance and wipes down easily. Raised "ship's edge" lip (.44"/11mm) contains spills. Height: 33.25" (other sizes and configurations available). Microban antimicrobial models available (see item "C" on facing page).

2-Shelf Models	Blue		
W" x L"	Cat. #	\$/Each	
18 x 28	1532-12A	145.00	
21.5 x 33.75	1532-47A	156.00	
27 x 39.5	1532-13A	183.00	
3-Shelf Models	Blue		
W" x L"	Cat. #	\$/Each	
18 x 28	1532-14A	169.00	
21.5 x 33.75	1532-53A	191.00	
27 x 39.5	1532-15A	223.00	

B. Polymer "Deep Ledge" Carts with Adjustable Shelves

Similar to models above, but with 2.75" (70mm)deep shelf ledges for enhanced spill containment. All models are 41"H. Color: Blue.

W" x L"	Configuration	Cat. #	\$/Each
21.5 x 32.75	2-shelf	1532-56	163.00
21.5 x 32.75	3-shelf	1532-57	201.00
27 x 38.75	2-shelf	1532-58	191.00
27 x 38.75	3-shelf	1532-59	238.00

Dozens more at TerraUniversal.com!





Series 600 - Two wire shelves, chrome or stainless steel.



Series 700 - Shown with optional bin. Three wire shelves, in a choice of chrome or stainless steel.

Ordering Information D. Series 100			E. Series 200		F. Series 400		G. Series 600		H. Series 700		
$\begin{array}{c} \textbf{Dimensions} \\ (\textbf{W} " \times \textbf{L} " \times \textbf{H} ") \end{array}$	Caster Dia.	Cat. #	\$/Each	Cat. #	\$/Each	Cat.#	\$/Each	Stainles Wire S		Stainle: Wire S	
18 x 24 x 38	4"	1401-23	458.00	1401-44	612.00	1401-54	305.00	1402-39	429.00	1402-56	581.00
18 x 30 x 38	4"	1401-24	518.00	1401-45	676.00	1401-55	345.00	1402-41	489.00	1402-58	643.00
18 x 36 x 38	4"	1401-25	518.00	1401-46	676.00	1401-56	345.00	1402-43	489.00	1402-60	643.00
21 x 36 x 39	5"	1401-26	556.00	1401-47	739.00	1401-57	376.00	1402-45	548.00	1402-62	724.00
24 x 36 x 39	5"	1401-27	592.00	1401-48	786.00	1401-58	396.00	1402-47	578.00	1402-64	767.00

CLEANROOM and WAFER FAB CARTS

C. Polymer Carts with Microban® Antimicrobial Product Protection (not shown)

Built-in Microban formulation inhibits growth of bacteria, mold and mildew. Construction is otherwise identical to corresponding carts on this page.

For Molded-Handle Units (Style "A" left)

W" x L"	Configuration	Cat. #	\$/Each
18 x 28	2-shelf	1532-81	159.00
18 x 28	3-shelf	1532-82	171.00
21.5 x 33.75	2-shelf	1532-83	187.00
21.5 x 33.75	3-shelf	1532-84	211.00

For Deep-Ledge Units (Style "B" left)

W" x L"	Configuration	Cat. #	\$/Each
21.5 x 32.75	2-shelf	1532-85	181.00
21.5 x 32.75	3-shelf	1532-86	222.00

D – H. Super Erecta® Carts with Adjustable Shelves

Many designs available with chrome-plated and stainless steel wire and solid shelves.

I. Wafer Box Carts

Electropolished stainless steel for Class 1 cleanliness. Spring-loaded casters for smooth rolling.

	Cat. #	\$/Each
Rod Shelves	9600-14	3,427.00
Perforated Shelves	3505-05	2,873.00

I. "Dead Man" Cart

Features polypropylene construction with a spill containment area. "Dead Man" braking system prevents carts from rolling while unattended.

Cat. # \$/Each 6017-73 6,735.00

K. Bottle Cart

12.3"W x 31"D x 57"H.

Electropolished stainless steel construction, clean casters, and ergonomic design make this cart ideal for safely transporting 5' process gas canisters. Includes retaining chain.

Cat. # \$/Each 9600-18 **2,056.00**

L – N. Acid Transport Carts

Made of stress-relieved polypropylene, these carts resist acids and corrosives used in wet processing applications. All three designs feature recessed receptacles that collect spills into an easy-empty containment reservoir. Acid-resistant neoprene swivel casters are included.

Type L features removable 7" x 7" inserts

Type M is ideal for larger, heavy containers.

Compartments: two @ 17" x 26.5" x 17" and

two @ 17" x 36.5" x 14"

Type N features 24 angled 7" x 7" slots for one-gallon bottles and one top compartment for gloves, safety glasses and other small items.

Polypropylene Acid Transport Carts									
Type	No. of								
(see photos)	Compnts.	Cat. #	\$/Each						
	12	3401-00	2,384.00						
L	18	3401-01	2,883.00						
M	4	3401-30	2,630.00						
Ν	25	3401-31	3,386.00						

Floor-Lock Brake Cat. # S/Each 3401-04 188.00















GARMENT and SUPPLIES CABINETS



Now in Stainless Steel and Powder-Coated Steel Designs

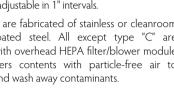
Type A: Garment storage only.

Type B: Garment storage and adjustable shelves (order desired shelf type separately).

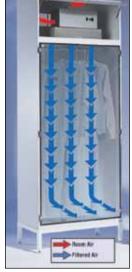
Type C: Adjustable shelves only (order desired shelf type separately).

Type D: Includes two chrome-plated wire shelves adjustable in 1" intervals.

All models are fabricated of stainless or cleanroom powder-coated steel. All except type "C" are available with overhead HEPA filter/blower module that showers contents with particle-free air to dislodge and wash away contaminants.















Powder-Coated Steel (see stainless steel models on facing page)

	Specifi	cations	Pow	der-Coated	l Steel Cabin	ets*	Cor	rrespond	ling Shelve	es
Туре		Outside Dimensions $(W'' \times D'' \times H'')$	Powder-Coated Steel w/ Acrylic Doors		Powder-Coated Steel w/ Dissip. PVC Doors		Polypropylene Shelves		Powder-Coated Steel Shelves	
			Cat. #	\$/Each		\$/Each		\$/Each	Cat. #	\$/Each
	Filter/Blower	36 x 20 x 94	4101-00B	2,419.00	4101-14B	2,918.00	_	_	_	_
Α	Cabinet Only	36 x 20 x 78	4101-01B	1,803.00	4101-15B	2,420.00	_	_	_	_
^	Filter/Blower	36 x 24 x 83	4101-02B	2,156.00	4101-16B	2,736.00	_	_	_	_
	Cabinet Only	36 x 24 x 67	4101-03B	1,686.00	4101-17B	2,229.00	_	_	_	_
	Filter/Blower	48 x 20 x 94	4101-04B	2,819.00	4101-18B	3,320.00	4101-30	43.00	4101-40A	81.00
В	Cabinet Only	48 x 20 x 78	4101-05B	2,758.00	4101-19B	3,292.00	4101-30	43.00	4101-40A	81.00
Ь	Filter/Blower	48 x 24 x 83	4101-06B	2,569.00	4101-20B	3,570.00	4101-31	43.00	4101-41A	81.00
	Cabinet Only	48 x 24 x 67	4101-07B	2,100.00	4101-21B	2,634.00	4101-31	43.00	4101-41A	81.00
	Cabinet Only	30 x 14 x 78	4101-09B	1,376.00	4101-23B	1,856.00	4101-32	62.00	4101-42A	111.00
C	Cabinet Only	30 x 18 x 78	4101-11B	1,429.00	4101-25B	1,910.00	4101-33	62.00	4101-43A	111.00
	Cabinet Only	36 x 20 x 78	4101-13B	1,603.00	4101-27B	2,015.00	4101-28	62.00	4101-44A	111.00
D	Filter/Blower	37.75 x 26.5 x 86	4205-00B	2,853.00	4205-02B	3,545.00	Additional Wi	ire Shelve	es (Type D)	
ע	Cabinet Only	37.75 x 26.5 x 72	4205-01B	2,432.00	4205-03B	3,043.00	36"W x 24"D	Cat. #	1300-51	\$/Each 54.00

Steel-reinforced doors with locks available on all models—ordering information at TerraUniversal.com

^{*} Includes built-in stand with leveling feet.



MORE GOWNING AREA PRODUCTS — TERRAUNIVERSAL.COM



A./B. UltraClean™ Cylinder Tube **Garment Racks**

Made of high-grade electropolished stainless steel, these racks feature sloping 11/2"-diameter cylindrical tube frames that are easy to wipe down. Fixed position design keeps garments firmly in place.

See ordering chart below.

C. UltraClean™ Square Tube Garment

These electropolished racks can be disassembled for easy storage and shipping. They are available with one or two hanger rods, in configurations for closedloop or detachable hangers (photos C and D).

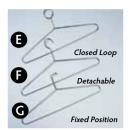
See ordering chart below.

D. Fixed Position Hanger Rods

This style is available with square-tube racks. Slots at 3" increments keep garments from bunching together. Requires fixed-position hangers (photo G).

See ordering chart below.

Cylinder Frame Rack $(1\frac{1}{2}$ "-diameter tubes) Overall height: 76" For use with detachable hangers.



Electropolished Cleanroom Hanger									
Type	For Rack								
	Type	Cat. #	\$/Each						
Е	C	1530-30-2	14.00						
F	A, B or C	1530-31-2	14.00						
G	A, B or D	1530-32-2	14.00						







Electropolished St	Electropolished Stainless Steel Garment Storage Racks										
Type See photos	Dimensions		Capacity eparately)	A./B. Cylinder Tube Frame (order hanger 1530-32-2 separately)				C./D. Square Tube Frame			
above		Single	Dual	A. Sing	le-Rack	B. Dua	al-Rack	Single-Rack		Dual-	Rack
		Rack	Rack	Cat. #	\$/Each	Cat. #	\$/Each	Cat. #	\$/Each	Cat. #	\$/Each
C. Sliding Position	48"W x 24"D	15	30	_	_	_	_	9230-00-2	910.00	9230-04-2	1,434.00
(order closed loop	60"W x 24"D	19	38	_	_	_	_	9230-01-2	1,146.00	9230-05-2	1,608.00
or detachable	72"W x 24"D	23	46	_	_	_	_	9230-02-2	989.00	9230-06-2	1,925.00
hangers)	84"W x 24"D	27	54	_	_	_	_	9230-03-2	1,347.00	9230-07-2	2,067.00
A. B. & D.	48"W x 24"D	15	30	9602-67	1,347.00	9602-75	2,505.00	9230-08-2	1,063.00	9230-12-2	1,948.00
Fixed Position	60"W x 24"D	19	38	9602-68	1,659.00	9602-76	2,929.00	9230-09-2	1,325.00	9230-13-2	2,294.00
(order fixed position	72"W x 24"D	23	46	9602-69	1,805.00	9602-77	3,349.00	9230-10-2	1,440.00	9230-14-2	2,526.00
hangers)	84"W x 24"D	27	54	9602-70	1,975.00	9602-78	3,550.00	9230-11-2	1,569.00	9230-15-2	2,793.00

Stainless Steel Garment & Supplies Cabinets (see powder-coated steel models on facing page)

	Specific	ations	G	arment Stor	age Cabinet	s*	Shelves	
	Туре	Outside Dimensions (W" x D" x H")	Stainless Steel w/Acrylic Doors		Stainless Steel w/ Dissip. PVC Doors		Stainless Steel	
			Cat. #	\$/Each	Cat. #	\$/Each	Cat. #	\$/Each
	Filter/Blower	36 x 20 x 94	4101-57A	5,301.00	4101-68A	5,760.00	_	_
	Cabinet Only	36 x 20 x 78	4101-58A	4,064.00	4101-69A	4,554.00	_	_
A	Filter/Blower	36 x 24 x 83	4101-59A	4,879.00	4101-70A	5,339.00	_	_
	Cabinet Only	36 x 24 x 67	4101-60A	3,625.00	4101-71A	4,114.00	_	_
	Filter/Blower	48 x 20 x 94	4101-61A	6,218.00	4101-72A	6,677.00	4101-83A	245.00
В	Cabinet Only	48 x 20 x 78	4101-62A	6,063.00	4101-73A	6,551.00	4101-83A	245.00
D	Filter/Blower	48 x 24 x 83	4101-63A	4,728.00	4101-74A	6,014.00	4101-84A	245.00
	Cabinet Only	48 x 24 x 67	4101-64A	4,554.00	4101-75A	5,043.00	4101-84A	245.00
	Cabinet Only	30 x 14 x 78	4101-65A	2,891.00	4101-76A	3,334.00	4101-85A	257.00
C	Cabinet Only	30 x 18 x 78	4101-66A	3,157.00	4101-77A	3,456.00	4101-86A	245.00
	Cabinet Only	36 x 20 x 78	4101-67A	3,261.00	4101-78A	3,702.00	4101-87A	245.00
D	Filter/Blower	37.75 x 26.5 x 86	4101-79A	5,076.00	4101-81A	5,584.00	_	_
ש	Cabinet Only	37.75 x 26.5 x 72	4101-80A	4,287.00	4101-82A	4,738.00	_	_





optional shelf)

Type D Stainless Steel Cabinet (No. 4101-80A, shown with one



GARB AND PARTS DISPENSERS

Space-Saving Convenience!

These handy dispensers save space and organize gloves, safety glasses, wipers, hats, and other garb. They're perfect benchtop storage bins for small parts used in cleanroom processing. Select clear acrylic or static-dissipative PVC, which eliminates static charges and the particles they attract.

	Item (see photos)		Dimensions	Acr	ylic	Static-Dissipative PVC	
			W x D x H, in	Cat. #	\$/Each	Cat. #	\$/Each
A.	SneezeGuard™		7.12 x 7.75	1601-50	16.00	1601-51	26.00
			11 x 11	1600-25	19.00	1602-75	29.00
B.	Wall-Mount Glove Dispenser (single)		16.5 x 12.5 x 17	4950-72	257.00	4950-74	347.00
C.	Wall-Mount Glove Dispenser (triple)		16 x 11.5 x 12	4005-56	286.00	4005-57	432.00
D.	Benchtop Glove Dispenser*		12 x 6 x 6	4951-03	89.00	4951-04	134.00
E.	File Holder (4 slots)		10.5 x 5 x 15	4005-25	103.00	4005-23	184.00
F.	Dispensing Bins		5 x 6.25 x 8.25	4950-12	149.00	4950-13	259.00
G.	Apparel Dispenser		48.5 x 24.5 x 36	4951-06	3,564.00	4951-07	6,340.00
H.	Multi-Chamber Dispenser		15.75 x 8 x 13	4005-51	379.00	4005-50	565.00
I.	Wiper Dispenser (enclosed)		12 x 9 x 6	4951-01	97.00	4951-02	172.00
J.	Wiper Dispenser (open top)		10.5 x 14.5 x 4	4950-93	69.00	4950-94	128.00
K.	Safety Glasses Dispensers Holds:	8	6.75 x 17	4950-45	282.00	4950-46	354.00
	(all are 5.75"D)	12	9.75 x 17	4951-15	369.00	4951-16	438.00
		16	6.75 x 28.25	4951-17	461.00	4951-18	607.00
	Other sizes available-	16	13.13 x 14.375	4951-19	461.00	4951-20	607.00
	call Terra!	24	9.75 x 28.25	4951-21	599.00	4951-22	788.00
	*NI	24	19.5 x 17	4951-23	599.00	4951-24	868.00
	*Now available in stainless steel— see facing page.	32	13.13 x 28.25	4951-25	912.00	4951-26	1,092.00
	see lacilig page.	48	19.5 x 28.25	4951-27	1,078.00	4951-28	1,510.00

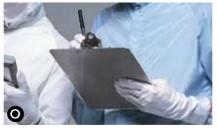


Dispenser Mounting System— Ideal for limited benchtop & wall space











Stainless Steel Cleanroom and Lab Aids

	onvenient racks, dispenser	s and tools. Dozens of oth	er models at	TerraUnive	ersal.com
lte	m (see photos) — includes	Dimensions	Electropolish	ed 304 SS	of Real
	anit-microbial coating	$W \times D \times H$, in.	Cat. #	\$/Each	100000
A.	Glove Dispenser,	27 x 7 x 24 (3 compartment)	4951-30-2	1,129.00	Con.
	Wall-mount	34.5 x 8 x 24 (4 compartment)	4951-31-2	1,489.00	////
В.	Glove Dispenser,	24 x 8 x 24 (3 compartment)	4951-32-2	1,172.00	100
	Wall-mount	32 x 8 x 24 (4 compartment)	4951-33-2	1,489.00	
C.	Glove Dispenser	12×6×6	4951-50-2	131.00	
D.	Wiper Dispenser	12×9×6	4951-40-2	134.00	100
		9.5 x 9.5 x 6	4951-41-2	148.00	nn.
E.	Bootie Dispenser	15 x 6 x 6	4951-45-2	166.00	100
F.	Swab Dispenser	6 x 4 x 6	4951-35-2	65.00	
G.	Glove Dispenser	5.5 x 3.75 x 20 (2 boxes)	4951-51-2	67.00	4951-51A-2
H.	Glove Dispenser	5.5 x 3.75 x 30 (3 boxes)	4951-52-2	74.00	G. – K.
l.	Glove Dispenser	5.5 x 3.75 x 10 (1 boxes)	4951-53-2	60.00	Glove
J.	Glove Dispenser	12 x 3.75 x 10 (2 boxes)	4951-54-2	66.00	Dispensers-many
K.	Glove Dispenser	18 x 3.75 x 10 (3 boxes)	4951-55-2		sizes available.
L.	Glove Dispenser with	24 x 18.5 x 59	4951-34-2	2,441.00	
	Waste Bin	(3 compartments + waste bin)			
M.	Mounting on Terra	27 x 1.5 x 30	4951-90-2	500.00	
	Workstation*	above work surface			
N.	Mounting on Terra Gowning		4951-91-2	500.00	
	Bench*	above floor			
Ο.	SS Clipboard	12 x 9.5	1350-00A-2	59.00	
* ni	rice includes installation: order on	wning bench and dispenser sepai	atelv		

price includes installation; order gowning bench and dispenser separately









Cleanroom Mirrors

Frameless models feature a recessed mounting plate for flush-mounting on the cleanroom wall without rear offset space that can accumulate dust and germs. Caulking creates an easyclean surface that acts as a germ barrier. Framed models include an ultra-smooth, mirror-finish SS frame with sloping edges to minimize particle build-ups.

Size W" x H"		Frame inless Steel		Frameless
Heavy Duty	Cat. #	\$/Each	Cat. #	\$/Each
36 x 72	5252-52A	1,388.00	5252-58B	1,217.00
24 x 36	5252-53	937.00	5252-61B	859.00
18 x 24	5252-54	638.00	5252-60B	558.00
24 x 72	5252-55	1,144.00	5252-59B	1,001.00
24 x 48	5252-56	1,072.00	5252-63B	938.00
18 x 36	5252-57	844.00	5252-62B	774.00

Gowning Benches

Terra's all-electropolished 304 stainless steel gowning benches provide the ideal gowning surface. Their ultra-smooth surfaces won't shed particles or snag wipers. Choose among four designs; all freestanding models come with durable nylon leveling feet. Perforated top and 316 stainless steel models available at TerraUniversal.com.

Floor Mounted (see photo A)			Free Standing Design (see photos B, C, D)						Bootie Rack** (not shown)			
L"xW"xH"	A. Soli	id Top	L"xW"xH"			C. Tubular Top				No. of	E. Insta	ılled
Nominal			Nominal					Tube-Top		Slots		
	Cat. #	\$/Each		Cat. #	\$/Each	Cat. #	\$/Each	Cat. #	\$/Each		Cat. #	\$/Each
36 x 9 x 18	1530-15-2	843.00	36 x 16 x 18	1530-25-2	922.00	1530-10-2	1,367.00	9602-96	1,564.00	12	1560-30-2	665.00
48 x 9 x 18	1530-16-2	914.00	48 x 16 x 18	1530-26-2	1,017.00	1530-11-2	1,681.00	9602-97	1,791.00	15	1560-31-2	775.00
60 x 9 x 18	1530-17-2	1,007.00	60 x 16 x 18	1530-27-2	1,188.00	1530-12-2	1,925.00	9602-98	2,067.00	18	1560-32-2	883.00
72 x 9 x 18*	1530-18-2	1,103.00	72 x 16 x 18	1530-28-2	1,268.00	1530-13-2	2,065.00	9602-99	2,246.00	21	1560-33-2	994.00
84 x 9 x 18*	1530-19-2	1,157.00	84 x 16 x 18	1530-29-2	1,181.00	1530-14-2	2,461.00	9600-02	2,454.00	24	1560-34-2	1,104.00

^{*} Includes center leg mount. ** Fits on free-standing benches only (order bench separately).







A - I. Electropolished Step Stools and Ladders

Include spring-loaded safety casters that retract under load. Perforations limit particle accumulation. Custom sizes and 316 SS available.

304	304 Stainless Steel Step Stools and Ladders												
	Top Platform	Overall Dimensions	No. of Steps	Electropolished 304 Stainless Steel									
	(W" x D")	$(W" \times D" \times H")$		Cat. #	\$/Each								
Α	30 x 14	30 x 20 x 24	2	2805-50A-2	1,891.00								
В	30 x 12	30 x 28 x 34	3	2805-51A-2	2,380.00								
C	30 x 12	30 x 24 x 60	3*	2805-53A-2	2,761.00								
D	30 x 12	30 x 30 x 70	4*	2805-52A-2	4,037.00								
Ε	30 x 16	30 x 40 x 80	5*	2805-54A-2	4,928.00								
F	30 x 36	30 x 76 x 86	5*	2805-55A-2	5,152.00								
G	15 x 10	18 x 16 x 20	1	2805-80A	836.00								
Н	15 x 10	18 x 22 x 35	2	2805-81A	1,205.00								
ı	15 x 10	18 x 25 x 44	3	2805-82A	1,416.00								
J	11 x 17	21 x 27 x 48	3	2805-97	2,520.00								

^{*} Includes safety handrail. C – E not shown

K - O. Waste Receptacles

ValuLine™ models, suitable for general use, are stainless steel. BioSafe® models, optimized for the cleanest locations, are either electropolished SS or polypropylene and feature a soft-close feature to eliminate abrupt noises when the lid closes.







BioSafe® Models: eliminate piano-style hinges and other hardware that harbors contaminants; all non-corroding materials (electropolished stainless steel or polypropylene) - perfect for critical environments. SoftClose™ feature lets lid close without a loud crash!

ValuLine™ Models: suitable for general laboratory use.

BioSafe™	' Cleanroor	ValuLine Waste Receptacles								
Type	Capacity (Gallons)	Dimensions W x D x H (in.)	Ship. Wt. (lbs.)	Electropolished 304 Stainless Steel		Ship. Wt. (lbs.)	Polypropylene		304 Stainless Steel	
				Cat. #	\$/Each		Cat. #	\$/Each	Cat. #	\$/Each
K	3.5	11 dia. x 17 H	9	_	_	9	_	_	1456-00	308.00
L	7	12 x 12 x 17	19	1456-16B	656.00	19	1456-25A	629.00	1456-01	473.00
M	12	12 x 12 x 23	24	1456-17B	1,006.00	24	1456-26A	767.00	1456-02	558.00
N	24	15 x 15 x 30	36	1456-18B	1,162.00	36	1456-27A	879.00	1456-03	772.00
0	40	19 x 19 x 30	48	1456-19B	1,552.00	48	1456-28A	1,047.00	1456-04	956.00

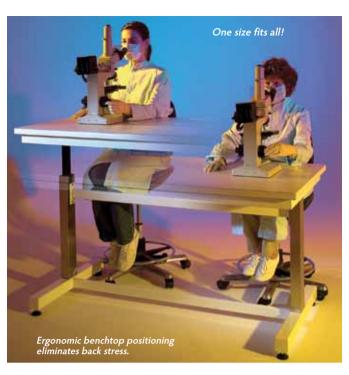
CLEANROOM ACCESSORIES

ErgoHeight™ Work Stations

- · Eliminates back stress and injury, enhances productivity
- · Provides up to four programmable height settings
- Smooth bench motion suitable for microscopes and delicate process equipment
- Supports up to 400 pounds net load
- · No need to clear work surface for height adjustment!
- · Cleanroom-compatible materials

Motorized lifters raise, lower and level the work surface to any of four programmed pre-sets—without disturbing table-top set-ups. Front panelmounted controls provide pushbutton convenience. Sealed design isolates motor for cleanroom compatibility. Models below feature powder-coated white bases; dozens of other sizes and configurations available. Standard height range: 28" - 48" floor-to-top.

> Turnkey solutions for vibration isolation and exhaust fume removal: TerraUniversal.com



ErgoHeight Au	ErgoHeight Auto-Adjustable Cleanroom Work Stations														
Benchtop					Stainless S	Steel Bases									
$\begin{array}{c} \textbf{Dimensions} \\ (\mathbb{W}^n \times \mathbb{D}^n) \end{array}$		Nonconductive Top		Static-Dissipative Top		Polypropylene Top		Stainless Steel Top		Stainless Steel Top		polished and Base			
	Cat. #	\$/Each	Cat. #	\$/Each	Cat. #	\$/Each	Cat.#	\$/Each	Cat.#	\$/Each	Cat. #	\$/Each			
36 x 30	3504-16	2,758.00	3504-24	3,040.00	3504-32	3,050.00	3504-04	3,195.00	3504-40	3,574.00	3504-00	3,972.00			
48 x 30	3504-17	2,864.00	3504-25	3,177.00	3504-33	3,186.00	3504-05	3,331.00	3504-41	3,730.00	3504-01	4,129.00			
60 x 30	3504-18	3,065.00	3504-26	3,350.00	3504-34	3,357.00	3504-06	3,504.00	3504-42	3,864.00	3504-02	4,230.00			
72 x 30	3504-19	3,186.00	3504-27	3,469.00	3504-35	3,477.00	3504-07	3,623.00	3504-43	3,985.00	3504-03	4,383.00			
36 x 34	3504-20	2,855.00	3504-28	3,138.00	3504-36	3,146.00	3504-08	3,292.00	3504-44	3,671.00	3504-12	4,069.00			
48 x 34	3504-21	2,926.00	3504-29	3,178.00	3504-37	3,217.00	3504-09	3,363.00	3504-45	3,798.00	3504-13	4,196.00			
60 x 34	3504-22	3,098.00	3504-30	3,350.00	3504-38	3,388.00	3504-10	3,535.00	3504-46	3,931.00	3504-14	4,347.00			
72 x 34	3504-23	3,217.00	3504-31	3,500.00	3504-39	3,508.00	3504-11	3,654.00	3504-47	4,051.00	3504-15	4,448.00			







A. Motorized Shoe Cleaner

Internal vacuum system removes contaminants on shoes. Five internal brushes clean deep into seams, welts.

	Cat. #	\$/Each
110VAC/60Hz	1784-14	2,995.00
220VAC/50Hz	1784-14-220	3,325.00

B. Cleanline® Sticky Mats®

Peel-off sheets eliminate the need for messy cleaning and make it easy to maintain a clean surface. Models are available with full-bottom adhesive surfaces and 2" bottom adhesive strips. Optional mounting frame (shown in photo) provides a sturdy, easy-to-clean edging. Many other sizes and colors, along with hightack models, are available at TerraUniversal.com.

Sticky Mats—All are medium tack (nigh tack and other sizes, colors available)													
Dim.		Bl	ue		Gray		Corresponding Frame						
(inches)	Full Bot	ttom	2" Strip Bottom		2" Strip Bottom		(Adds 3" to each side)						
	Cat. #	\$/Each	Cat. #	\$/Each	Cat. #	\$/Each	Cat. #	\$/Each					
18 x 36	5601-16	45.00	5601-24	40.00	5602-20	40.00	5602-92	116.00					
18 x 45	5601-17	50.00	5601-25	45.00	5602-21	45.00	5602-94	131.00					
24 x 36	5601-18	60.00	5601-26	55.00	5602-22	55.00	5602-97	143.00					
36 x 45	5601-21	105.00	5601-29	95.00	5602-25	100.00	5603-04	194.00					
36 x 60	5601-22	155.00	5601-30	145.00	5602-26	155.00	5603-05	222.00					

HAND, GLOVE and SHOE CLEANERS





PureDry™ Hand Dryer

- Provides warm, contamination-free air for drying hands and gloves
- Also ideal for drying tools, bottles, microelectronic components and other small materials
- Eliminates the need for towels that shed particles and harbor germs
- ULPA (Ultra Low Penetration Air) filter captures microcontaminants
- · Insulation and motor isolation reduce noise and vibration levels
- Recirculating air design minimizes turbulence for enhanced cleanliness
- Wide exposure area allows complete drying of elbow-length gloves
- Photo-electric cell and adjustable timer allow no-touch operation

Washing/Drying Station

- · Incorporates washing and ULPA-filtered drying modules in one cleanroomcompatible station
- · Hands-free, noncontaminating activation
- Optional liquid soap dispenser is ideal for aseptic cleaning

Hand/Glove Cle	land/Glove Cleaning Station														
Dimensions (₩x▷xH)	No. of Sinks		Stainless Steel			Electropolished S		Soap Dispensing Module							
Includes levelers		110VA	7/60Hz 220VAC	220VAC/50Hz		110VAC/60Hz 22		50Hz	Order one	per sink					
		Cat. #	Cat. #	\$/Each	Cat. #	Cat	t. #	\$/Each	Cat. #	\$/Each					
24" x 22" x 61"	1	9600-60	5,417.00 9600-60-220	5,525.00	9600-05	6,877.00 96	00-05-220	6,272.00	9600-64	233.00					
48" x 22" x 61"	2	9600-61	10,662.00 9600-61-220	10,770.00	9600-06	12,230.00 96	00-06-220	12,230.00	9600-64	233.00					
96" x 22" x 61"	4	9600-62	19,704.00 9600-62-220	19,704.00	9600-07	23,041.00 96	00-07-220	23,041.00	9600-64	233.00					
144" x 22" x 61"	6	9600-63	28,849.00 9600-63-220	29,849.00	9600-08	34,854.00 96	00-08-220	34,854.00	9600-64	233.00					



Sole Cleaner™ Automatic Contamination-Control Mat

- · Unique system automatically maintains a sticky surface that removes particles from shoe soles
- Controller counts foot passes and replaces surface at programmed intervals
- Self-regenerating design eliminates monitoring and maintenance costs
- Take-up roller draws particle-laden surface inside housing to minimize contamination

Terra's Sole Cleaner™ provides the ultimate in shoe sole cleaning! Its automated design minimizes the hassle, expense, and uncertainty associated with other adhesive shoe mats.

Just program the acceptable number of foot passes and the Sole Cleaner guarantees a sticky surface throughout a work shift. Its low-profile design is ideal for carts, and replacement rolls take only seconds to install.

> Cat. # S/Each 2010-50 25,358.00





















Fire-Rated Pass-Through, No. 2641-02



Stainless steel ventilation module, No. 6705-23





















MODULAR CLEANROOMS

Free-standing, all-steel structures create sturdy, versatile, clean processing solutions that meet cleanliness requirements to Class 10 (ISO 4). Whatever your application, Terra delivers a pre-tested, turnkey system.

Hardwall Designs

- Acrylic or static-dissipative rigid panels for full visibility
- Steel support frame spans up to 20 feet without internal pillars or external supports
- · Mirror-finished stainless steel trim creates a showcase exterior
- · A/C and humidity controls
- · Available raised floors optimize laminar airflow

Models shown:

- A. Static-dissipative PVC ISO 5 cleanroom interior: includes gowning antechamber with pass-through chamber and 9-foot ceilings.
- B. Polycarbonate cleanroom designed to USP-797 requirements for compounding pharmacies
- C. ISO 6 cleanroom with acrylic panels and multisuite floorplan
- D. ISO 7 cleanroom with acrylic panels and multisuite floorplan

Softwall Designs

- New ValuLine™ rooms—full performance at lower cost
- Portable, expandable, easy to assemble and
- · Curtain panels and parting strip shields, in antistatic cleanroom-grade vinyl
- Rigid steel support frame requires no ceiling supports
- Casters available

Models shown:

E. ValuLine Softwall Cleanroom provides value without sacrificing performance! Turnkey models start under \$10,000 and ship in 3-4days. Cleanliness to ISO 5 (Class 100).

Configured to Your Specifications!

- Air conditioning
- · Humidification/Dehumidification
- · Rapid-Operation Doors
- Raised Floor

BioSafe® All-Steel Designs

- · Perfect for ultra-clean applications requiring frequent cleaning or sterilization
- Smooth interior walls with radius corners eliminate cracks that harbor germs and particles
- 304/316 stainless or powder-coated steel panels
- Negative-pressure airflow designs available for fume venting

Models shown:

- F. Powder-coated BioSafe® room with dual quickresponse roll-up doors; ideal for transfer of bulky equipment or carts.
- G. Stainless steel BioSafe ISO 5 cleanroom with air shower entry and ceiling plenum.
- H. Powder-coated ISO 7 BioSafe cleanroom interior





WORK BENCHES and CHAIRS



Work Benches—select de	ork Benches—select desired top (all bases feature a white powder-coated finish)									orm
Base Type (Epoxy Finish)	Width (Depth=30")	A. Noncon Lamin			ainless teel	C. Vibration-Free Laminate Top		Work Surface	Electropolished Stainless Steel Top	
		Cat. #	\$/Each	Cat. #	\$/Each	Cat. #	\$/Each	(W" x D" x H")	Cat. #	\$/Each
T	48	1722-00	797.00	1521-45	1,348.00	1570-00A	2,004.00	21.75 x 18.25 x 3	1580-02	2,446.00
Telescoping 25"-34"	60	1724-00	885.00	1751-00	1,447.00	1570-01A	2,038.00	23 x 24 x 3	1580-03	2,636.00
	72	1726-00	876.00	1752-00	1,512.00	1570-02A	2,053.00	Visit TerraUniversal.		
	48	1521-09	735.00	1521-54	1,235.00	_	_	 ErgoHeight™ Adj 	0	
Recessed 30"	60	1000-00	816.00	1521-55	1,384.00	_	_	 Acid-resistant po Dozens of standa 	/ 1 / 1	SC
C Dasc	72	1000-01	806.00	1521-56	1,383.00	_	_	• Dozens of standa	iu sizes	



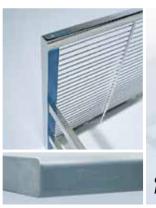
Class 100 & Static Control Clean vinyl meets Class

100 particle requirements. Static-Control chairs feature dissipative vinyl, conductive casters, and grounding chains.

	Spe	CS		CI		Class 100							
	Height Color E.			F.		G.		H.		Color	l.		
,			Cat. #	\$/Each	Cat. #	\$/Each	Cat. #	\$/Each	Cat. #	\$/Each		Cat. #	\$/Each
	Desk	Black	2802-61*	529.00	2802-67*	487.00	2802-73*	546.00	1012-05*	489.00	Black	1012-11	569.00
). -	Desk	Blue	2802-62*	529.00	2802-68*	487.00	2802-74*	546.00	1013-08	568.00	Black	1013-51*	568.00
2	Bench	Black	2802-64*	536.00	2802-70*	490.00	2802-76*	553.00	1012-41	477.00	Black	1012-12	569.00
-	DELICIT	Blue	2802-65*	536.00	2802-71*	490.00	2802-77*	553.00	1013-12	568.00	Black	1013-52*	568.00

^{*} Quick ship models—usually ship within one week!

WORK BENCHES and CHAIRS







	Heavy-Duty All-Electropolished Stainless Steel Work Stations (800-lb. load capacity)												
QuietTop™ Rods with Full Bullnose ø ¼" rods on 1" centers				OpenTop with Ergol Rounded ø 1/4" holes	Front		OpenTop Perforated with ErgoEdge Rounded Front ø ¾" holes			Solid Top with ErgoEdge Rounded Front			
	Bench Size * (W" x D")	"A" Base	"C" Base	\$/Each	"A" Base	"C" Base	S/Each	"A" Base	"C" Base	\$/Each	"A" Base Cat. #	"C" Base	\$/Each
	36 x 30	9601-17	9601-18	1,987.00		9604-80	1,930.00	9601-59	9601-60	1,760.00		9603-02	1,546.00
	48 x 30	9601-19	9601-20	2,232.00	9604-60	9604-81	2,573.00	9601-61	9601-62	2,458.00	9603-03	9603-04	1,776.00
	60 x 30	9601-21	9601-22	2,505.00	9604-61	9604-82	2,770.00	9601-63	9601-64	2,489.00	9603-05	9603-06	1,925.00
	72 x 30	9601-23	9601-24	2,933.00	9604-62	9604-83	3,101.00	9601-65	9601-66	2,601.00	9603-07	9603-08	2,155.00
	84 x 30	9601-25	9601-26	3,129.00	9604-63	9604-84	3,245.00	9601-67	9601-68	2,763.00	9603-09	9603-10	2,402.00
	96 x 30	9601-27	9601-28	3,562.00	9604-64	9604-85	3,826.00	9601-69	9601-70	3,376.00	9603-11	9603-12	2,751.00

^{*} Prices for "A" base and "C" base designs are the same. Standard height is 30" (floor to top). Heights of 32" and 36" and widths of 34" are available at no extra charge. Specify when ordering.



J. – N. Laboratory Chairs

Select from our large assortment of Laboratory Chairs. Types J-L are upholstered chairs built with ergonomic benefits. Types M and N meet durability and budget needs.

Specs Ergonomic Upholstered Chairs*						Specs	Urethane C	hairs**	ESD C	hair		
Height	Color	J. w/Seat Control		ol K. Standard		L. Large B	ackrest	Color	M.		N.	
		Cat. #	\$/Each	Cat. #	\$/Each	Cat. #	\$/Each		Cat. #	\$/Each	Cat. #	\$/Each
Desk	Black	2801-01*	366.00	2801-33*	316.00	2801-65*	332.00	Black	1013-16	283.00	1012-14	477.00
Desk	Blue	2801-02*	366.00	2801-34*	316.00	2801-66*	332.00	DIdCK	1013-17*	306.00	1012-19	543.00
Bench	Black	2801-05*	416.00	2801-37*	318.00	2801-69*	336.00	Black	1013-18*	346.00	1012-24	543.00
	Blue	2801-06*	416.00	2801-38*	318.00	2801-70*	336.00	DIACK	_	_	1013-46	633.00
* Annilele in Conde 2 Vined on Conde 4 Bookhold Nelson Visit Townslaw on formation												

^{*} Available in Grade 2 Vinyl or Grade 4 Breathable Nylon. Visit TerraUniversal.com for more color options.



^{**} More configurations available on the website.



Polypropylene Cabinet No. 7018-00: ideal for acids (shown with optional gooseneck faucets, spray guns, casters and duplex outlet)



Stainless steel Cabinet No. 7018-01: recommended for solvents and flammable chemicals (shown with optional casters and spray gun)

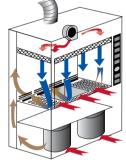
WET PROCESSING and CLEANING CABINET

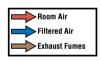
- · Incorporates all processing components into one self-contained, easy-to-clean system
- · Isolated control panel allows safe, convenient operation of baths, rinsers and other process modules
- Whatever the requirements, Terra delivers a pre-configured, tested, turnkey system

These self-contained Wet Processing Cabinets are ideal for a wide range of cleaning and processing requirements.

Standard models below include a reinforced cabinet of the specified size and material, a sliding access shield, and a fluorescent illuminator. Select sinks, baths, etchers and other processing modules to suit your application. A raised lip surrounds the work area to contain spills, and a full-length plenum sink located under the deck contains overflow for easy disposal (select plenum flush for easy cleaning).

A control panel mounted to the side of the deck provides safe, convenient access to all system controls (order processing sinks and baths separately; see pricing and specifications at TerraUniversal.com). Optional Filter/Blower Module provides a vertical laminar flow of HEPA-filtered air for particle-sensitive applications.





Wet Processing Cabinets (standard height = 72")						Filter Blower Module			Plenum	n Flush	lonizing	Bar
Overall Width	Work Area Dimensions	Polyprop	oylene	ne Stainless Steel			Includes 99.99% Efficient HEPA filter 115VAC, 60Hz 230VAC, 50Hz			with O & Valves		
		Cat. #	\$/Each	Cat. #	\$/Each	Cat. #	Cat. #	\$/Each	Cat. #	\$/Each	Cat. #	\$/Each
84"	72"W x 24"D	7018-00	20,782	7018-01	32,788	7018-04	7018-04-220	3,027	7018-50	1,033	2005-37	984
108"	96"W x 24"D	7018-02	24,744	7018-03	37,498	7018-05	7018-05-220	3,655	7018-51	1,192	2003-37	704

Note: All models listed above include an adjustable PVC sliding sash (to restrict airflow to the work area), a static pressure exhaust meter (to monitor the pressure differential in the exhaust line), and a fluorescent illuminator. All electronic controls are located on a vertical panel to the right of the work area (left side mounting may be specified at no extra charge). PLC controllers are also available; call for quotation.

FEATURES and ACCESSORIES



Constant-temperature baths and dump rinsers in quartz, polypropylene, PVDF, 304/316 stainless steel and other high-purity, chemicalresistant materials



Carboys and Reclamation Tanks

FM 4910 and other plastics

PLC automation

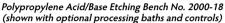


You Specify the Process Workflow—

Sinks, goosenecks, air/de-ionized water spray guns, aspirators and other utilities









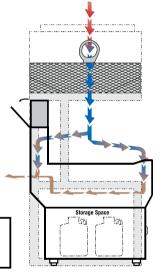
Stainless Steel Solvent Cleaning Bench No. 2001-06 (shown with optional sink, gooseneck faucet, spray gun)

MODULAR WET PROCESSING and CLEANING CABINET

- · Modular designs accommodate process baths, tanks, goosenecks, aspirators, spray guns, fire detection/suppression systems, and other system options
- · Isolated control can be mounted above, behind or to the side of the work deck
- Select Vertical Laminar Flow or Exhaust Fume Workstation to control particles, chemical vapors

Like the models on the previous page, these benches accommodate a complete line of baths, rinsers, cleaners and other processing modules.

Terra engineers work with yours to develop a deck configuration that's right for your process. Bath controls can be mounted to the side or behind the work deck. An overhead control case extends controls forward, above the work deck, for easier operator access. Standard models below include reinforced station with modular deck panels.



Modular We	et Processing S	Station*			\ \	/ertical Laminar Flo	ow Hood	Plenum Flush		
Overall Width	Work Area Dimensions	Polypro	pylene		Stainless Steel		Order Filter/Fan Units separately 115VAC 230VAC		PVC with DI Water Nozzles	
	Dimensions	Cat. #	\$/Each	Cat. #	\$/Each	Cat. #	Cat. #	\$/Each	Cat. #	\$/Each
48"	36 x 23	2000-16	7,895.00	2001-04	17,362.00	2004-10	2004-10-220	7,797.00	2001-34	1,112.00
60"	48 x 23	2000-17	9,057.00	2001-05	19,829.00	2004-11	2004-11-220	8,768.00	2001-35	1,272.00
72"	60 x 23	2000-18	11,358.00	2001-06	23,315.00	2004-12	2004-12-220	9,184.00	2001-36	1,430.00
96"	84 x 23	2000-19	13,691.00	2001-07	26,045.00	2001-13	2004-13-220	10,433.00	2001-37	1,589.00

All models on this chart are designed for rear panel mounting of controllers (as shown in photo above). Call for a quotation on models with head case panel mounts.

FEATURES and ACCESSORIES



Room Air Filtered Air Exhaust Fumes



Standard models operate with . Terra's Vertical Laminar Flow or Exhaust Fume Workstations (see following page)



Configure baths in a single or double row to accommodate workflow



Containment hood collects and condenses vapors

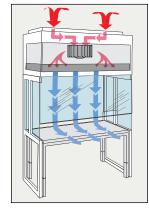




LAMINAR FLOW STATIONS



- · HEPA/ULPA-filtered enclosure provides a clean, static-safe work environment
- · Vertical and horizontal flow stations available with powder-coated or easy-clean stainless steel finish
- · Hundreds of standard sizes and configurations, with modifications to handle any application!





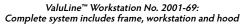




Vertical Laminar Flow Station, No. 2001-83A, shown with optional cleanroom bench No. 2402-00









ValuLine™ WhisperFlow™ Hood No. 1688-40: Polypropylene HEPA-filtered enclosure under \$2,000

A. ValuLine™ Laminar Flow Workstations

This low-cost, completely integrated workstation includes a powder-coated or stainless steel frame, stainless steel work surface, and laminar flow HEPA filtration module with tilting sash, fluorescent light, and backpressure gauge. Several sizes available, starting at under \$4,500.

B. ValuLine™ WhisperFlow™ Benchtop Laminar Flow Hood

This all-polypropylene laminar flow hood provides a vertical flow of HEPA-filtered air to the work bench. Order desired work surface separately. Integrated polypropylene bottom include raised lip to capture chemical spills. Many sizes available.

C. WhisperFlow™ Bench-Top Hood

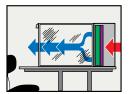
This versatile system offers low-noise and vibration (50 dBA) in either horizontal or vertical flow configuration. Select hood of desired material and HEPA or ULPA filter/fan module.

Benchtop Hoods 48"W (36"W models available)								
Hood Material*	Cat. #	\$/Each						
Vertical Flow								
Acrylic	1686-50C	2,596.00						
Static Dissipative PVC	1686-51C	3,389.00						
Nondissipative PVC	1686-52C	2,596.00						
Stainless Steel (Dissipative PVC)	1686-54C	3,402.00						
Horizonta	al Flow							
Acrylic	1686-55C	2,596.00						
Static Dissipative PVC	1686-56C	3,389.00						
Nondissipative PVC	1686-57C	2,596.00						
Stainless Steel (Dissipative PVC)	1686-59C	3,402.00						
v 11 1 1 1 1	1 . 1 1	6.1						

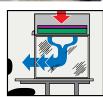
Unless indicated in parentheses, shield is made of the same material as the hood.

Filter/Fan Module	Cat. #	\$/Each
HEPA Filter	6601-24-H	\$740.00
ULPA FIlter	6601-24-U	\$845.00





Horizontal or vertical configurations









No. 1694-02B, shown with optional pass-through vacuum oven and low-humidity controllers

Series 300 Stainless Steel Glovebox

The ideal isolation enclosure for a wide range of operations requiring control of particles, humidity, and temperature. Select among several different sizes for one or two operators. Automatic humidity control systems regulate a purge of process gas to maintain user-determined %RH set point. Available in many configurations, with air locks, pass-through ovens, ionization, humidification and sterilization modules.

Perfect for parts degassing, temperature and humidity testing, chemical mixing, and other processes requiring a non-reactive environment.

System starts at \$4,917.00



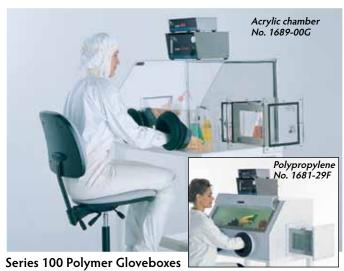
No. 1694-13B, shown with optional Dual Purge System and right-side airlock

Series 400 Stainless Steel Glovebox

Like the Series 300 chamber shown at left, this isolation glovebox protects delicate materials against particles, humidity, static discharge, and other environmental threats. Its larger chamber size accommodates bulky process equipment.

Choose between single and twin models, with right or left-side air locks. Custom modifications are available on all Terra gloveboxes; just let us know your requirements!

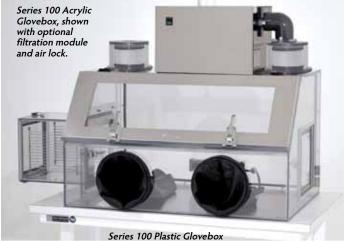
System starts at \$10,005.00



Terra's Series 100 Polymer Gloveboxes provide a clean, low-humidity environment for critical processing operations. Their modular design lets you select the options you need for your application.

Dual side access doors open inward to allow easy parts transfer from inside the chamber. Doors feature stainless steel reinforcement frames that increase the structural rigidity of the door by a factor of five. A built-in LiftLatch securely seals the door without applying lateral torque that could damage hinges.

Models in stock for next day shipping!



Series 100 gloveboxes are available in five materials:

Acrylic — strong, rigid material offers full visibility

Static-Dissipative PVC — protects against static discharge and eliminates static attractions

Non-Dissipative PVC — resists a wide range of chemicals, including most disinfectants

Polypropylene — ideal for chemical mixing or use with acids **Polycarbonate** — strong and resistant to chemical and thermal shock

Select among a full range of options for control of particles, static charges, and humidity.

Systems start at \$1,301.00





No. 1694-33A (two linked together)

Series 500 Full-View Glovebox

This enclosure features transparent front and back panels, made of static-dissipative PVC or polycarbonate, with opposing glove ports for convenient dual-side access to work in progress. This design combines full chamber visibility with the strength of a stainless steel glovebox.

It features a large chamber—up to 96"W x 36"D x 30"H—for work with bulky process equipment. Controller systems protect against particles, static charges, and humidity. Terra's smart gas controllers regulate the purge of nitrogen or other process gas to maintain the humidity set point you require.

Systems start at \$5,767.00

No. 9670-00B, shown with right-side air lock

Series 600 Front-View Glovebox

This chamber provides a sloping front panel of transparent polycarbonate or safety glass for full visibility of work in progress. Like the Series 500 model at left, it accommodates Terra's complete line of environmental control systems to automatically maintain a particle-free, controlled-humidity, static-safe environment. Multiple chambers can be cascaded together to expand working space. Standard chamber size: 37.5"W x 29"D x 39"H.

System starts at \$7,389.00



No. 2900-62 ValuLine™ Compounding Aseptic Isolator

Compounding Aseptic Isolator Complies with USP-797

This laminar flow glovebox provides an easy-to-clean environment for performing sterile pharmaceutical preparations. Its HEPA filtration module provides ISO 5 cleanliness conditions. A separate antechamber allows introduction of materials without contaminating the main work area. Includes polyurethane exit filter. Gloves come in a variety of materials to meet specific user requirements. Dimensions: $50\text{"W} \times 30\text{"D} \times 51\text{"H}$.

Material	Cat. #	\$/Each	Available for
304 Stainless Steel	2900-46C	7,906.00	next-day shipping
ValuLine Polypropylene	2900-62	6,194.00	next day sinpping



Insulated chambers available

BioSafe™ Stainless Steel Glovebox

This glovebox features smooth, ultra-clean interior surfaces that eliminate germ traps, making it ideal for aseptic requirements. Continuous-seam welds and rounded corners create a hermetically sealed enclosure that's easy to clean and sterilize. Tempered glass or polycarbonate viewing windows afford full chamber visibility, and optional side air locks allow convenient parts transfer. Optional access panels are available for transfer of large process equipment. Select between two sizes, with either polycarbonate or safety glass viewing window.

System starts at \$18,514.00

Custom Work is No Problem! Contact Terra to discuss your unique requirements.

Containment isolators also available. See page 47.



LABORATORY HOODS & BIO SAFETY CABINETS by Labconco













A. Fiberglass 30 Laboratory Hoods

Made with chemical resistant one-piece fiberglass interior and an epoxy-coated steel exterior, these compact by-pass models maintain stable face velocity, and the pivoting air foil maximizes containment. Available with an integral exhaust blower. Model shown: 3646-48 (30" width).

> Cat. # \$/Each 3,750.00 3646-48

B. Basic Laboratory Hoods

Ideal for labs requiring light duty applications, the by-pass airflow maintains stable face velocity and vapor-proof or explosion-proof blower models provide safe ventilation. Various system options are available in 47" and 70" widths. Model shown: 3646-00 (47" width).

> Cat. # S/Each 3646-00 4,124.00

C. Protector XStream Laboratory Hoods

High-performance, low-volume benchtop models provide maximum containment and energy savings. The patented features significantly reduce contaminants near the user's breathing and behind the sash opening. By-pass models are available in four widths. Model shown: 1538-34 (5' width).

> Cat # 1538-34 6.880.00

D. Protector Premier Laboratory Hoods

As the only high performance hood in the market available with a built-in blower, these benchtop models have containment enhancing features and their dimensions match standard lab casework, base cabinets and stands. Available in four widths. Model shown: 3649-04 (4' width).

> Cat # S/Fach 3649-04 6,277.00

E. Purifier Logic+ Biological Safety **Cabinets**

Designed for comfort, safety and efficiency, these Class II, Type A2 cabinets protect user, product and environment from hazardous agents. Available in 4" width 8" or 10" sash openings. Various system options and optional canopy connection to choose from. Model shown: 3642-22 (6' width).

> 3642-22 11,543.00

F. Paramount Ductless Enclosures

These self-contained workstations require no ducting to the outside, making them portable and easy to install. An air foil enhances fume containment. Available in 36" and 72" nominal widths with various models, filters and accessories to choose from. Model shown: 3647-06 (36" width).

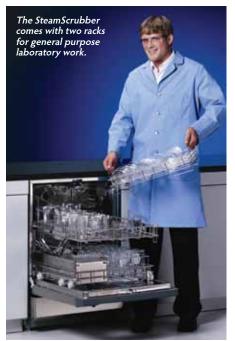
> Cat # S/Fach 3647-06 6.195.00

- SteamScrubber and FlaskScrubber are available in undercounter and freestanding models
- · Both models offer flexible cycle options
- All racks are interchangeable among washers and may be purchased separately

Labconco laboratory glassware washers have specialized features to meet the laboratory's demand for superior cleaning and convenience.

The SteamScrubber has top and bottom racks that accommodate accessory inserts for a wide variety of glassware shapes and sizes, primarily beakers and other wide-mouth glassware. The FlaskScrubber has a spindle rack that holds up to 36 pieces of narrownecked glassware such as volumetric flasks.

Both models have a LCD information center for customizing cycles and monitoring operation, including internal water temperature. These washers require non-foaming detergent.





Overall Dimensions	Туре	Window & Light	Power*	SteamSo	SteamScrubber		FlaskScrubber	
WxDxH		Available		Cat. #	\$/Each	Cat. #	\$/Each	
24.1" x 27.4" x 34.1"	Undercounter	No	115V	6921-08A	6,423.00	6921-02A	8,308.00	
24.1" x 27.4" x 34.1"	Undercounter	Yes	115V	6921-45	6,902.00	6921-41	8,740.00	
24.2" x 27.5" x 34.2"	Freestanding	No	115V	6921-10A	6,637.00	6921-04A	8,481.00	
24.2" x 27.5" x 34.2"	Freestanding	Yes	115V	6921-47	7,254.00	6921-43	9,098.00	

Also available in 208/240V

SAMPLE PREPARATION PRODUCTS by Benchmark Scientific



Mortexer[™] Vortexer

holds eight microcentrifuge tubes; other accessories personal block incubator. are available—call for details.

115V, 60Hz model below. A 230VAC model is also 12V vehicle power adapter available.

Cat. # S/ Each Mortexer™ BR01-00 219.00



MyBlock™ Mini Dry Bath

Benchtop control of sample temperature has never The Mortexer™ offers variable speed vortex mixing been this easy or economical. The new MyBlock™ up to 3400 rpm and the power of instant vortexing, Mini fits almost anywhere and can even be used "oneven for 50ml sample tubes, with minimum noise and the-go" in cars, boats or wherever a 12 volt power vibration, using touch or continuous operation. The source is available. Its simple touch pad control with Mortexer™ is cold room and incubator compatible. digital display is designed for "set and walk away" It comes equipped with a Multi-Head™ with a temperature selection and unrivaled accuracy. At less traditional head for general purpose mixing and than 4.4 inches wide, MyBlock™ Mini is truly the first BlotBoy™ Rocker

> S/Fach MyBlock™ Mini BR10-00 189.00 BR10-07 32.00



BlotBoy™ and Mini-BlotBoy™ Rockers

These platform rockers provide the perfect 3-dimensional motion for all blot-related applications. Their tilt angle and speed are set for optimal gentle but thorough mixing in gel trays, boxes and other flat vessels. Both models include brushless motors and autoclavable flat mats. They are ideal for blot washes and gel staining/destaining and safe for use in cold rooms and incubators. They accept stackable platforms and handle loads up to 2 kg. Both are 110VAC.

Cat. # \$/Each BR02-01 371.00 Mini-BlotBoy™ Rocker BR02-00 335.00





A. ADA-Compatible Refrigerator by Marvel Scientific

Marvel Scientific's ADA compliant refrigerator fits under 34" countertops and may be built into casework with zero clearance or used as free standing. The units are designed to comply with the Americans with Disabilities Act (ADA) for accessibility by adhering to strict height standards.

B. CxF Series -40° C and -86° C Chest Freezers by Revco

The CxF Series Chest Freezers are designed to provide versatile and reliable sample storage. An intuitive microprocessor control panel allows personnel to see set points, system status and alarm messages. A variety of sizes and temperature ranges are available to accommodate most application requirements.

C. UxF Series -86° C Upright Freezers by Revco

The UxF Series freezers provide outstanding sample protection, while maintaining the highest standards in performance, energy efficiency and capacity per footprint. A dual cascade system provides faster recovery after door openings, tighter uniformity, and reduces energy use. A variety of sizes and temperature ranges are available to accommodate most application requirements.

D. Revco Pharmacy Refrigerators by Thermo Scientific

These high-performance pharmacy refrigerators provide stable temperature control over a range of +1°C to +8°C. Easily configured for accurate storage and retrieval of pharmacy products, these units also have full extension stainless steel roll-out drawers, safety glass, double-panel doors and a bright digital temperature display that simplifies operation. Models are available in 11.5, 23.3, 29.2 and 51.1 (shown) cubic feet capacities.

E. Jewett Pass-Thru Refrigerators by Thermo Scientific

Multiple entry points make Jewett Pass-thrus a convenient and reliable choice in the cold storage of non-critical materials in life science, clinical and industrial applications. UL and CE listed units keep uniform temperature and rapid temperature recovery. The triple-pane heated glass doors eliminate condensation and fogging. Materials: powder-coated steel interior; stainless steel exterior. Models in 24.8 cu. ft. (shown) or 55 cu. ft. capacities.

	Туре		Exterior Dimensions HxWxD(in.)	Temp Range	Capacity	Power**		
			Пх W х D (III.)	(°C)	(cu. ft.)		Cat. #	\$/Each
Α.	ADA Compliant Refrigerators	General Purpose	31.5 x 23.875 x 24.375	1° to 7°	5.4	115V	2860-06A	1,169.00
B.	CxF Ultra Low	Chest	43.8 x 28.5 x 29.9	-10° to -40°	3	115V	1536-10	5,641.00
	CxF Ultra Low	Chest	43.8 x 28.5 x 29.9	-50° to -86°	3	115V	1536-14	8,486.00
	UxF Ultra Low	Upright	51.23 x 17.78 x 28.29	-50° to -86°	14.9	115V	1536-24	11,661.00
С.	UxF Ultra Low	Upright	51.23 x 23.13 x 28.29	-50° to -86°	19.4	115V	1536-25	13,182.00
D	Pharmacy Refrigerator*	Glass Doors	79.2 x 56.5 x 36.4.	1° to 8°C	51.1	115V 60Hz	1620-39	8,485.00
E.	Pass-Thru**	Multiple Entry Points	84 x 29 x 36 .	+2°C to +4°C	24.8	120V/60HZ	3615-09	7,036.00

Available with glass doors.

^{**} Select models are available in 220V. Visit TerraUniversal.com for more information.

CRYOGENICS by Thermo Scientific









A. Bio-Cane* Cane and Canister Systems

Units are a cost-effective method of storing cells, tissues and other biological samples. Vessels hold samples up to seven months without replenishing liquid nitrogen (LN_2). Capacity sizes: 20L, 34L, 47L, and 70L.

Bio-Cane 20 **4901-08 1,200.00**

B - D. Locator Cryogenic Rack and Box Systems

These compact systems are designed for long-term storage and easy retrieval of cell samples. Stores samples below -180°C even when less than 2" (51 mm) of liquid nitrogen remains.

B. Locator Jr. -LN₂ Capacity: 60L

Vial Capacity Cat. # \$/Each 1,600 **4901-00 3,071.00**

C. Locator 8 - LN₂ Capacity: 111L

Image shows a Locator 8 being filled with liquid nitrogen.
Vial Capacity Cat. # \$/Each
1,800 4901-02 3,457.00

D. Locator 4 with Level Monitor 120V – LN, Capacity: 111L

Safeguards valuable samples with minimal liquid nitrogen evaporation and conduction.

E. Liquid Nitrogen Transfer Vessels

Stores and dispenses liquid nitrogen to Locator Systems, these vessels are available in 5L, 10L, 20L and 32L capacities. Lightweight aluminum dewars assure low-static evaporation rates.

Thermo 5L Capacity **4901-36 863.00**

FREEZE DRY SYSTEMS and VACUUM CONCENTRATORS by Labconco



FreeZone® 1 Liter Benchtop Freeze Dry Systems

Ideal for light aqueous sample loads, these units have an upright stainless steel collector coil (removes a max. of 1L of water in 24 hrs.). Features: ¼ hp refrigeration system, LCD display, CFC-free refrigeration system, and corrosion-resistant epoxy coated steel and brushed stainless steel interior.

6922-00 4,226.00



FreeZone® Plus 2.5 Liter Freeze Dry Systems

These units handle light sample loads with low eutectic points (-84° C/-119° F). The upright stainless steel collector coil removes 1.8L of water/24 hrs., and holds 2.5L of ice before defrosting.

Cat. # \$/Each 3647-80 8,546.00



CentriVap® micro IR Vacuum Concentrators

Compact and portable, this personal-sized concentrator is ideal for DNA samples and small throughput environments. The infrared (IR) glass lid speeds evaporation and reduces cross contamination. Included rotor accommodates 24 small samples and IR strobe light allows sample viewing during operation.

Cat. # \$/Each 3648-25 5,382.00



MADE in the Vol. 4 No. 15



Heratherm General Protocol Ovens by Thermo Scientific

Ideal for routine heating and drying up to 250 °C, these energy efficient units come in benchtop or large capacity models. Gravity convection units provide low turbulence heating and drying. Mechanical Convection models provide fast drying of glassware, powders, paper and textile. Select models are CE or cCSAus listed. 120V models listed

Model/Volume (L) Cat. # S/Each 3700-87 1,561.00 Gravity-66L Mechanical—66L 3700-90 1,821.00



"Squaroid" Vacuum Ovens by Thermo Scientific

These ovens provide a max. temperature of 220°C. Radiant warm-wall heating provides more even chamber temperature, and built-in high-limit thermostat guards against overheating. Models below feature LED temperature readouts and operate at 120VAC; 240VAC and dial thermometer models are also available, as well as high-temperature models.

Chamber	With LED	With LED Readout				
Volume	Cat.#	\$/Each				
0.7 cu. ft.	3700-80	2,872.00				
2.3 cu. ft.	3700-82	4,762.00				



Large-Capacity Forced-Air Ovens by Sheldon Manufacturing

These versatile multi-purpose ovens create true one-pass circulation pattern for optimal uniformity and fast recovery time. Includes an electronic digital timer with large LED display and overtemperature protection and isolated heating elements. Chamber interior is stainless steel. Models shown are 120VAC.

Chamber Size	Cat. #	S/Each
14.0 cu. ft.	3700-85	4,140.00
28.0 cu. ft.	3700-86	4,693.00

INCUBATORS



myTemp™ Mini Digital Incubators by Benchmark Scientific

Compact with a lot of power, the myTemp packs 20 liters of capacity in Heat Only or Heat and Cool models that accommodate bottles and flasks up to 2L. Other features include a vibrant LED control panel, a carrying handle and two adjustable shelves.

Cat # \$/Fach myTemp™ H Heat Only BR18-00 378.00 myTemp™ HC Heat & Cool BR18-01 561.00



Midi 40 Small Capacity CO₂ Incubators by Thermo Scientific

Designed specifically for cell culture scientists working within a limited space, the Midi 40 CO₂ Incubator delivers what bigger incubators do at a cost-effective price point. These compact units store up to 35 T75 culture flasks and they feature a comprehensive alarm system. Features: benchtop, stainless steel chamber and cabinet, and 1.4 cu. ft. capacity includes four stainless steel drawers.

Cat # \$/Each 120 V 60 HZ 3615-78 4,314.00 3615-79 1230 V 50/60 HZ 4,416.00



Direct Heat CO₂ High-Capacity Incubators by Thermo Scientific

These dependable high-capacity incubators feature convenient direct heat temperature control technology and advanced chamber insulation in a stackable design. They are configurable with infrared (IR) or thermal (TC) gas sensors and 6.5 cu. ft. stainless steel (SS) or solid copper chambers.

115VAC and 230VAC models available.

	Cat. #	\$/Each
SS chamber w/ TC sensor	1799-00	5,629.00
SS chamber w/I R sensor	1799-02	6,634.00
Copper chamber w/ TC sensor	1799-04	6,444.00
Copper chamber w/ IR sensor	1799-06	6,906.00

INCUBATORS and ENVIRONMENTAL CHAMBERS by Caron Products



Oasis CO₂/O₂ Incubators by Caron Products

This compact, stackable unit saves lab work space while providing intuitive operation and precise control. A highly reliable IR sensor ensures quick recovery after the door is opened, and a tri-zone temperature control system enhances heating efficiency and uniformity. A decon system cleans the incubator overnight. Temperature range: 5° above ambient to 60°C. Capacity: 10 cu. ft. Power: 115VAC (230VAC models available)

Туре S/Each CO, 5757-25 5,616.00 CO,/O, 5757-31 8,160.00



Reach-In CO, Incubator by Caron Products

This series provides the perfect conditions for high-volume cell culture. Control parameters and uniformity rival any conventional incubator. A driftresistant RTD sensor provides precise temperature control from 10° above ambient to 60°C. Power: 115VAC (230VAC and other temperature models available).

Capacity Cat. # \$/Each 5757-22 12,896.00 25 cu. ft. 33 cu. ft. 5757-29 15,661.00



Environmental Chambers by Caron Products

Microprocessor-controlled chambers precise control over environmental conditions for repeatable results. Refrigerated Incubators provide precise temperature control from 5°C to 60°C. Stability Chambers add a relative humidity system with solid-state humidity sensor and controller that allow humidification and dehumidification for operation from 20% to 98% RH. All incorporate environmentally friendly HFC refrigerant and CFCfree insulation. Light packages and chart recorders are optional.

Models below are 115VAC; 230VAC also available.

10 Cubic-Foot Capacity Cat. # 12,047.00 Refrigerated Incubator 5757-03 Stability Chamber 5757-05 15,694.00

HOT PLATES

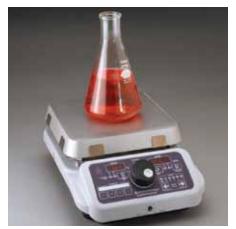


Hot Plates

by Benchmark Scientific

Made with durable, chemical resistant white ceramic top plate, these hot plates are ideal for use inside bio-hoods and crowded benchtops. Advanced microprocessor controls turn knobs provide precise adjustments and maintenance of heating and mixing. Units are compatible with various sizes of borosilicate glass beakers, flasks, and bottles. Surface dimension: 7.5" x 7.5" with an 8" x 9" footprint.

Cat # S/Each 115V, 50/60Hz BR05-01 211.00



Super-Nuova® Digital Hot Plates/Stirrers by Thermo Fisher Scientific

Premium aluminum-top stirring hot plates provide precise digital control of top plate and solution temperatures in 1° increments. Four user-presets call up often-repeated procedures. Magnetic stir bar provides vortex motion to evenly disperse solution and/or heat. Heating surface: 7" x 7". Ceramic top models are also available.

\$/Each 110V Stirring Hot Plate 4100-07 951.00



Explosion-Proof Hot Plate by Thermo Scientific

This corrosion-resistant, easy-to-clean unit is specifically designed to ensure safe heating in potentially explosive situations. The cast-aluminum top plate provides effective heat transfer, and all controls are contained in an aluminum housing, protected from the explosive atmosphere. Heating surface: 6" x 6". Temperature range: to 220°C (428°F). UL-listed for Class 1 and Group D.

Cat. # S/Each Hot Plate 4000-92 1,043.00





Heraeus Multifuge X1

As the only 1-liter centrifuge capable of spinning 14 x 50 ml conical tubes in angle configuration at over 12000 xg, the energy saving Multifuge X1 accepts various swinging bucket, fixed-angle and lightweight carbon fiber rotors. Features: 3-second rotor exchange; biocontainment solution; powersave; auto-correct detection.

Select models are UL, CE, or CSA certified; Max Speed: 15,200 rpm (depending on rotor); Max RCF: 25,000 to 25,999 x g; Dimensions: 17.3W x 23.8D x 14.2H in. (Ventilated)/ 24.5W x 23.8L x 14.2H in. (Refrigerated).

	Cat. #	\$/Each
Ventilated	1538-52	4,773.00
Refrigerated	1538-54	6,692.00



Heraeus Multifuge X3

With nearly twice the capacity for standard tubes compared to same-sized centrifuges, the energy saving, 3-liter Multifuge X3 is ideal for high throughput environments. Units accept a wide range of rotors. Features: 3-second rotor exchange; biocontainment solution; powersave; auto-correct detection.

Select models are UL, CE, or CSA certified; Max Speed: 6000 to 15200 rpm; Max RCF: 7164 to 25314; Dimensions: 22.2 x 26.4 x 14.2 in. (Ventilated)/ 29.3 x 26.4 x 14.2 in. (Refrigerated). Available in benchtop and floor models.

	Cat. #	\$/Each
Ventilated	3618-71	6,920.00
Refrigerated	3618-73	9,182.00
Floor Standing Models		
Ventilated	3618-75	8,061.00
Refrigerated	3618-77	10.146.00



Heraeus Primo/Primo R Centrifuge

Three Centrifuges in one! Ventilated and refrigerated models have the functionality of microliter, high speed and general centrifuges. These centrifuges can accommodate swinging bucket rotors, fixedangle rotors and microliter rotors. The Heraeus Primo series is equipped with electronic imbalance recognition. (Ventilated Model Shown.)

CSACertified; Max. Speed/RCF: 15,000 rpm/21,885 x g; 400 mL Capacity; Dimensions: Ventilated, 5 x 16.7 x 12.4 in. (380 x 475 x 315 mm); Refrigerated, 22.8 x 15.3 x 12.3 in. (580 x 493 x 313 mm).

120V, 60Hz	Cat. #	\$/Each
Ventilated	1799- 44	2,949.00
Refrigerated	1799-45	5,116.00



Heraeus Clinifuge Centrifuge

Ideal for clinical blood sample processing in small labs and medical practices, the Heraeus Clinifuge is also an excellent standby unit for larger labs. The unit protects against user error by displaying faults and accepts a wide range of adapters. Rotor chambers are completely sealed during centrifugation and the brushless motor eliminates carbon brusher replacement purchases. Autoclavable rotor is easy to remove and clean. This centrifuge is also able to self-diagnose by detecting and displaying faults.

CSA Certified; Capacity: 12 x 15mL; Max Speed: 5000rpm; Max RCF: 2600 x g.

	_	
	Cat. #	\$/Each
120\/ 60Hz	1702-58	1 547 00



MyFuge™ Mini

This personal centrifuge is small and silent, but powerful. The rotor instantly reaches 6,000 rpm once the lid is closed and quickly stops once the lid is open. Ideal for quick spin downs of microtubes and PCR tubes. The unit comes with an installed eight position microtube rotor and the second PCR 0.2 ml rotor is conveniently stored in the bottom compartment.

Color	Cat. #	\$/Each
Red	BR04-05	214.00
Blue	BR04-06	214.00
Clear	BR04-07	214.00
Green	BR04-08	214.00
Purple	BR04-09	214.00



MyFuge™ 12 MiniCentrifuge

The convenient low profile design of the MyFuge 12 features the COMBI-Rotor™, which eliminates the need to change rotors when switching between microtubes and PCR strips. With twice the capacity of most mini centrifuges, silent operation and the quick start and stop action by just opening and closing the lid, the MyFuge 12 is an ideal personal centrifuge or as an additional unit to any laboratory. .

Capacity: 12 x 15/2.0ml tubes; 32 x 0.2ml tubes; 4 x PCR strips (8x 0.2ml) Speed Range: 5,500rpm/2,000xg; Dimensions: 5.5" x 7.9" x 4.4" (140 x 201 x 112 mm).

	Cat. #	\$/Each
115V, 60Hz	BR15-00	307.00
230V, 60Hz	BR15-01	307.00





MaxQ 5000 by Thermo Scientific Foot pedal-operated shaker comes in analog and digital models

Perfect for cell cultures, solubility studies, extraction procedures and more.

\$/Each Analog 5322-18 7,464.00



Incu-Shaker 10L by Benchmark Scientific Magnetic platform and clamps for easy shake and change of various size flasks

Ideal for busy labs, this quiet, heavy duty unit provides temperature accuracy and uniformity, reduces separation and it includes an optional shelf.

10L	BR13-00	4,396.00
10L (Ref.)	BR13-29	6,771.00
Mini	BR13-02	2,284.00



MaxQ 4450 Orbital Shaker by Thermo Scientific

Combines incubated/refrigerated temperatures

Analog or digital, the unit fulfills a variety of molecular biology, cell culture, and dissolution study purposes. \$/Each



Orbi-Shaker™ Orbital Shaker by Benchmark Scientific Powerful motor drive able to shake a 14 lb. load at up to 300 rpm

The optional MAGic Clamp platform (14" x 12") makes it easy to shake and change flasks and racks. The nonslip, rubber coated surface provides extra protection.

	Cat. #	\$/Each
115V	BR09-12	1,188.00
MAGicClamp™ Platform	BR09-09	192.00



MaxQ 2000 by Thermo Scientific Analog or digital units use triple eccentric drive to ensure smooth, uniform agitation

Operate in continuous or timed mode for applications including cell cultures, bacterial suspensions, solubility studies, staining, and hybridization.

Analog 5322-00 1,225.00



Multi-Therm™ Vortexer by Benchmark Scientific

Ideal for molecular biology applications, this 8" x 11" vortexer is compatible with many popular tubes and plates. Heat/cool or Heat models are available in 115V and 230V.

115V	Cat. #	\$/Each
Heat/Cool	BR14-02	2,108.00
Heat	BR14-00	1,580.00

WATER SYSTEMS: DI and RO - COMPLETE SPECS AT TERRAUNIVERSAL.COM



Barnstead MicroPure by Thermo Scientific

These ultrapure water systems provide 15 liters per day of Type 1 water for molecular biology, microbiology, and analytical chemistry laboratories.

	Cat. #	\$/Each
Analytical and UV System	3614-91	3,342.00
UV-ST System	3614-96	3,584.00



Barnstead GenPure Water Purification Systems by Thermo Scientific

Produces up to 200L/day of GLP-Compliant Type 1 ultrapure water

Able to mix and match UF, UV and TOC systems for user specific water purity levels, GenPure models are ideal for use in life sciences and analytical chemistry.

	Cat. #	\$/Each
GenPure	1714-32	5,000.00
GenPure UF	1714-33	5,452.00

LabTower TII Water Purification System by Thermo Scientific Produces and stores GLP-Compliant Type 2 water

This standalone unit with casters has an integrated 100L tank that recirculates reservoir water to preserve purity even during periods of stagnation.

	Cat. #	\$/Each
20L/hour	1108-50	8,834.00
40L/hour	1108-53	10,323.00



ANALYTICAL BALANCES by Sartorius



Practum® Analytical Balances

Foolproof with rugged weigh cell for reliable results, the Practum is ideal for busy labs and new operators. These units feature: sturdy draft shield, menu-lock, touchscreen, easy data transfer, weighing port, overload protection and level indicator. Dimensions: 8.5"W x 14.1"D x 12.6"H.

Weighing Capacity	Cat. #	\$/Each
120 g	5701-18	1,356.00
220 g	5701-17	1 994 00



Quintix® Analytical Balances

Built-in applications, intuitive operating design and extensive accessories in the Quintix allow users to customize settings to achieve their desired weight measurement tasks easily, reliably and efficiently. Dimensions: 8.5"W x 14.1"D x 12.6"H.

Weighing Capacity	Cat. #	\$/Each
120 g	5702-01	2,250.00
220 g	5702-02	2,588.00



Secura® Analytical Balances

Ideal for use in pharmaceutical weighing applications, the Secura features Advanced Pharma Compliance, LevelControl, and USP Minimum sample weight measurement to ensure the precision and quality of measurements in regulated areas. Dimensions: 8.5"W x 14.1"D x 12.6"H.

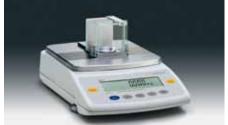
Weighing Capacity	Cat. #	\$/Each
120 g	5702-03	2,844.00
220 g	5702-04	3,210.00



Cubis MSA2255-000-DM Semi Micro-Balance

The unique built in "NICE" (Neutralization by Ionic Charge Elimination) static eliminator neutralizes electrostatic charges on the samples.

> \$/Each 5701-04 9,255.00



Cubis MSA3.6P Micro-Balance

Micro-balances combine speed, weighing sensitivity, and precision. This unit offers PolyRange weighing with readability to 0.002 mg and weighing capacity down to 0.5 g. Repeatability: ≤ 0.001 mg. Response time: ≤ 10 seconds.

> \$/Each 5701-02 16,524.00



Cubis MSA6.6S Micro-Balance

These micro-balances feature SQmin minimal sample weight function for US Pharmacopeia compliance. Readability to 0.1 µg. Weighing capacity down to 6.1 g. Repeatability: ≤ 1.0 µg. Response time: 10 seconds.

> \$/Each 5701-01 21,284.00

THERMAL CYCLER by Benchmark Scientific



TC9639 Thermal Cycler

Ideal for medium to high throughput laboratories, the TC9636 Thermal Cycler makes it quick and easy for users to set up programs and protocols. The large, full color touch screen allows the creation of icons for most used programs. The program wizard guides users through protocol set-up in a single screen and allows for program edits and alphanumeric naming of programs and folders. Condensation and evaporation of samples are prevented by the fully adjustable heated lid. Units also feature programmable lid temperature and the lid automatically shuts off when the block temperature is below 35°C. A proprietary algorithm with tight tolerances accurately controls heating and cooling of the block. The multi-format block of the TC9636 eliminates the expense and need for multiple interchangeable blocks and the model accepts 96 x 0.2ml tubes, a 96 well plate or 39 x 0.5ml tubes. For high-throughput labs, the **T5000-384** with 384-well block is available.

	Cat. #	\$/Each
TC9639 US plug	BR19-43	3,776.00
TC9639 EU plug	BR19-44	3,776.00
T5000-384 US plug	BR19-46	4,196.00
T5000-384 EU plug	BR19-47	4,196.00

Provides consistent and reliable results with unlimited program storage capability



GLOVEBOXES: ISOLATORS and CONTAINMENT CHAMBERS by Germfree



46.5" work area. Ideal for USP-797 containment requirements.

LFGI Laminar Flow Glovebox/Isolator

With positive and negative configuration options, the LFGI Series provides ultimate product and operator protection. The ergonomic glove system and the HEPA filters provide the highest level of protection from microbiological particulates, dust, powders and aerosols. Units functions as a **CAIC** and **CAI**.

Available in three sizes. Models meet or exceed ISO 14644-1 for Class 5 air quality.

Work Area Width	Cat. #	\$/Each
34.5"	5607-15	18,550.00
46.5"	5607-16	21,241.00
70.5"	5607-17	26.342.00



33" work area. CAI units meet hospital pharmacy and cleanroom USP 797 compliance.

VersaFlow Laminar Flow Compounding Aseptic Isolator

Constructed of high quality, all-welded stainless steel with pharmaceutical grade finish, this Compounding Aseptic Isolator (CAI) meets USP 797 regulations. The work area is bathed with unidirectional HEPA-filtered air with minimal turbulence for a sterile work environment. Units meet or exceed ISO 14644-1 Class 5 air quality and are designed to fit through standard door and elevator openings.

Available in 33", 49" and 55" work area dimensions with a fully adjustable shelf and a stainless steel stand with locking cleanroom grade casters.

System starts at \$13,070.00



Radiopharmacy Hood

The RADIOSAFE Series is a Class II, Type A or A2 Biological Safety Cabinet that meets all requirements for USP 797 compliance to safely handle potentially hazardous materials. Units provide ISO Class 5/Class 100 HEPA filtered unidirectional vertical airflow and incorporates a 3/4" lead shield for protection during compounding radiopharmaceuticals.

Work area dimensions are 50"W X 27"D X 94"H and units are constructed from 100% stainless steel.

Contact a Terra expert for your custom quote.



Radiopharmacy Isolator

Choose the LFGI Series Radiopharmacy Isolator for advanced user and product protection with ¼" lead shielding when compounding sterile radiopharmaceuticals. Units achieve USP 797 compliance without the need for costly pharmacy ventilation renovations. ISO 14644-1 Class 5 (Class 100) air quality is maintained under dynamic conditions with unidirectional laminar airflow system.

Overall dimensions are 36" W x 34" D x 79.5" H and **CACI** units are constructed from 100% stainless steel interior and exterior with a pharmaceutical grade #4 finish. Units are designed to fit through standard door openings and elevators.

Systems start at \$45,533.00





ELECTRONIC SERVICE REQUESTED



PRSRT STD U.S. POSTAGE PAID TFRRA UNIVERSAL



Thousands of Items in Stock

Popular models of both Terra-built and distributed products are inventoried for quick shipment – look for blue prices at TerraUniversal.com



Order and Quote Carts ONLINE In 1-3 days



Online ordering requests for hundreds of stocked items ready for immediate shipping

Online quote requests for made-to-order and custom products,



Low-Cost Domestic and International Shipping

Competitive quotes include customs brokerage and duties for door-to-door delivery



Hassle-Free Pricing

Web prices honored worldwide



Comprehensive Product Lines

Terra provides single-source convenience at remarkable savings. Complete lines of laboratory products at Laboratory-Equipment.com



Global Network of Sales Representatives

Complete listing at TerraUniversal.com

On thousands of items— Visit Laboratory-Equipment.com