

Stainless steel desiccators.

Series 100 Stainless Steel Benchtop Desiccators

Durable 304 stainless steel enclosure maintains low humidity conditions to prevent oxidation and other moisture-related product defects

One-piece, nonadhesive seals prevent outgassing, maintain a positive internal pressure to block out moisture and contaminants

Inlet and outlet ports allow precise regulation of nitrogen flow

Electropolished stainless steel racks allow height adjustment of shelves

Select front and rear windows of safety glass or Static-Dissipative PVC, which eliminates charges and the particles they attract

Optional Dual Purge™ and NitroWatch® systems automatically maintain specified humidity set point for optimal performance



Typical configuration featuring three Series 100 Desiccators and optional stand

Stainless Steel Desiccators Provide Cleanliness, Convenience, Economy

They feature transparent front and back windows for great visibility of stored materials; select either safety glass or Static-Dissipative PVC to suit your application. The front door features a full-height hinge.

Each desiccator is also equipped with inlet and outlet ports that allow gas to be purged through the storage area; select Terra's Dual Purge™ System and Automatic RB® Valve to ensure an economical nitrogen flow that maintains a continuous positive internal pressure and locks out moisture and particles. Note: for automated gas purging and humidity control in multiple chambers, select the Series 200 Desiccator

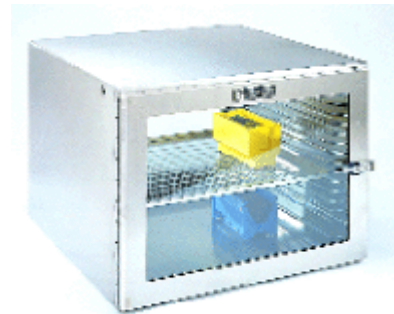


No. 1911-02

SmartDesiccator, with integrated humidity controls, saves up to 78% of nitrogen costs.

304 Stainless Steel Stands for Desiccators

Each supports up to three 22"-wide Series 100 Stainless Steel Desiccators. Overall dimensions: 28"W x 67"H x 21"D. Height from floor: 12". Non-caster models include leveling feet. Each hard-rubber caster is rated for a 210-lb. load; casters raise the stand an additional 3.5" off the floor.



No. 1610-32
Racks included, shelf optional

Stainless Steel Stands

Each supports up to three 22"-wide Series 100 Stainless Steel Desiccators. Overall dimensions: 28"W x 67"H X 21"D. Height from floor: 12". Non-caster models include leveling feet. Each hard-rubber caster is rated for a 210-lb. load; casters raise the stand an additional 3.5" off the floor.

	With Casters	Without Casters
	Cat. #	Cat. #
Stands		
304 Stainless Steel	1610-38	1610-39
Electropolished 304 Stainless Steel	1611-09-2	1611-10-2
Finished Steel	1679-10	1679-11
Grounding Terminal (Includes installation)		1686-12

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Flowmeter (0.6-5 CFH)	1600-03	
Automatic RB® Valve (Includes installation)	1600-60B	

304 Stainless Steel					
Outside Dimensions	Tempered Glass Windows	Dissipative PVC Windows	Corresponding Shelves		
			Perforated	Non-Perforated	
W" x D" x H"	Cat. #	Cat. #	Cat. #	Cat. #	
12 x 10.75 x 12	1678-00	1610-34	1610-40	1678-05	
12.25 x 16 x 12.5	1690-00	1610-91	1610-92	1610-93	
16 x 13 x 16	1678-10	1610-33	1610-41	1679-01	
22 x 21.625 x 16	1679-06	1610-32	1610-42	1679-45	

Electropolished 304 Stainless Steel					
Outside Dimensions	Tempered Glass Windows	Dissipative PVC Windows	Corresponding Shelves		
			Perforated	Non-Perforated	
W" x D" x H"	Cat. #	Cat. #	Cat. #	Cat. #	
12 x 10.75 x 12	1610-90-2	1610-94-2	1610-98-2	1611-05-2	
12.25 x 16 x 12.5	1610-91-2	1610-95-2	1610-99-2	1611-06-2	
16 x 13 x 16	1610-92-2	1610-96-2	1611-03-2	1611-07-2	
22 x 21.625 x 16	1610-93-2	1610-97-2	1611-04-2	1611-08-2	

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Series 200 Multi-Chamber Stainless Steel Desiccator

Double-wall 304 stainless steel, smooth-profile design ensures a static-safe environment that won't shed or accumulate particles

Available with electropolished 304 stainless steel surfaces to meet Class 1 contamination requirements

Built-in gas plumbing and Automatic RB[®] (Relief/Bleed) Valve in each chamber allow easy, safe connection to nitrogen or CDA (clean dry air) gas line

Automatically maintains a preset low moisture level (with selection of humidity controllers) to prevent oxidation and other defects, extending product yields

Locking LiftLatches[™] open and close without straining door seals and hinges, enhancing performance and extending service life

Optional electropolished racks accommodate adjustable-height shelving

These turnkey systems provide a contamination-free, low-humidity, static-safe environment for your most sensitive materials.

Clean, Rugged Construction

Series 200 Stainless Steel Desiccators are fabricated completely of noncontaminating, cleanroom-compatible materials and offer a full range of advanced design features for optimal performance.

Their double-wall construction provides smooth surfaces for easy cleaning and minimal particle retention. Viewing windows are made of static-dissipative PVC, which guards against static charges and the contaminants they attract. Chrome-plated locking LiftLatches[™] are provided for added security. A grounding terminal, positioned at the top of each desiccator, allows easy connection to your in-house ground. Optional electropolished stainless steel racks accommodate adjustable stainless steel shelves, and optional stands raise the cabinet for easy mobility and floor cleaning.

Automatic Humidity Control

All models feature built-in gas fittings and piping to allow easy connection to purge gas, and all include an Automatic RB[®] Valve in each chamber to ensure safe internal pressures at all time.

For optimal moisture and contamination control, select the Dual Purge[™] and NitroWatch[®] option. This configuration provides automated humidity monitoring and control to cut nitrogen costs and boost desiccator efficiency.

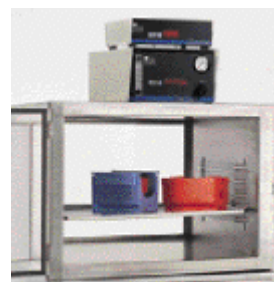
Series 200 Stainless Steel Adjust-A-Shelf [™] Desiccators					
No. of Chambers	Inside Dimensions W" x D" x H"	Overall Dimensions W" x D" x H"	304 Stainless Steel		Ultra Clean [™]
			Cat. #		304 stainless Steel
1	20 x 20 x 14	23.5 x 22.5 x 16.5	9606-20		9606-00
2	20 x 20 x 14	23.5 x 22.5 x 33.5	9606-21		9606-01
3	20 x 20 x 14	23.5 x 22.5 x 50	9606-22		9606-02

Note: To order electropolishing of Stainless Steel shelves or stand, add "-2" to the Cat. No. and 30% to the price of the stainless steel component.

Corresponding Shelf and Stand for Series 200 Stainless Steel Adjust-A-Shelf [™] Desiccators			Corresponding Shelf		304 Stainless Steel Stand	
No. of Chambers	Inside Dimensions W" x D" x H"	Overall Dimensions W" x D" x H"	Perforated**	Solid**	With Levelers, Order Casters Above.	
					4" High	12" High
			Cat. #	Cat. #	Cat. #	Cat. #



Shown with optional stand, shelves/racks, Dual Purge and NitroWatch Humidity Controllers



Smooth chamber interiors are easy to clean, won't harbor contaminants (shown with optional racks and shelves)

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1	20 x 20 x 14	23.5 x 22.5 x 16.5	1610-35	1679-45	9606-29A	9606-32A	
2	20 x 20 x 14	23.5 x 22.5 x 33.5	1610-35	1679-45	9606-29A	9606-32A	
3	20 x 20 x 14	23.5 x 22.5 x 50	1610-35	1679-45	9606-29A	9606-32A	

** Requires installation of electropolished stainless steel racks (order two): Cat. No. 1504-04

Cat. #

Electropolished Stainless Steel Racks 1504-04

Heavy-Duty Cleanroom Casters

Selected for cleanroom compatibility and strength, these casters feature 4"-diameter wheels with a stainless steel finish. Rated for a 300-lb. load each.

Cat. #

Set of 4, 2 with locking brakes 1700-43

Dual Purge™ System

Variable purge system boosts desiccator efficiency and cuts nitrogen costs.

Cat. #

Control Unit 1606-61

NitroWatch®

Maintains user-selected low humidity level.

Cat. #

Control Unit 9500-00A

Humidity Sensor 9500-02A

Note: For smaller or less critical storage requirements, select Series 100 Stainless Steel Desiccator.

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Series 300 Stainless Steel Double Door Desiccators

Hermetically sealed, nitrogen-purged cabinet maintains low-humidity storage conditions to minimize moisture-related defects, increase yields

Adjustable stainless steel shelves accommodate most sample and container sizes, including SMIF pods, 300mm wafer boxes, and kitting trays

Large double doors, with heavy-duty locking LiftLatches™ and door hinges, provide years of trouble-free storage under heavy use

304 Stainless steel construction, available with electropolished finish, meets the highest standard of cleanliness, wipes down clean

Static-dissipative PVC viewing windows control static charges and the particles they attract

These 304 stainless steel desiccators provide all the humidity control features of our smaller models, along with double doors that afford unrestricted access to the entire storage area.

Made of mirror-finished 304 stainless steel, these cabinets are designed for optimal strength and cleanliness. The electropolished stainless steel model meets the most critical particle requirements. Static-dissipative PVC viewing windows ensure full visibility of stored parts and minimize the danger of electrostatic discharge that could damage sensitive components. Two sets of chrome-plated locking LiftLatches™, with one-piece, nonoutgassing elastomeric gaskets, seal each door snugly.

Select as many optional shelves as you require. Each shelf is perforated along the rear edge to permit unrestricted gas circulation, and can be positioned at any height you desire by means of clip supports. Optional 4" stands are recommended to allow easy cleaning beneath the cabinet.

For optimal humidity and particle control, select the optional Dual Purge™ System and NitroWatch® Humidity Controller. The standard cabinets below come equipped with an Automatic RB® (Relief/Bleed) Valve to ensure safe pressure relief.

Series 300 Stainless Steel Desiccators		Shelf*	Stand**
	Cat.#	Cat.#	Cat.#
304 Stainless Steel	1991-56	1991-51	1991-54
Electropolished 304 SS	1991-57	1991-53	1991-55

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

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



Height 87" including 4-inch stand, Width 48", Depth 18". Shown with optional stand, shelves, Dual Purge™ and NitroWatch® Controllers

Dual Purge™ System

Variable purge system boosts desiccator efficiency and cuts nitrogen costs.

Cat.#

Control Unit **1606-61**

Sensor Switch **1600-49**

NitroWatch®

Maintains user-selected low humidity level.

Cat.#

Control Unit **9500-00A**

Humidity Sensor **9500-02A**

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Series 400 Stainless Steel NitroPlex™-Ready Desiccators

The ideal enclosure for your most moisture-sensitive applications

NitroPlex™-ready chamber design features all-304 stainless steel construction with static-dissipative PVC viewing windows

Optional NitroPlex™ humidity control system enhances desiccator efficiency and saves up to 78% of nitrogen costs

Available in pass-through designs for convenient dual-side access

UltraClean™ electropolished surfaces meet the most stringent particle requirements

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. Static-dissipative PVC helps control static charges and the particles they attract (see page 596 for specifications). Select pass-through models for convenient dual-side access.

All models feature a plenum chamber that ensures uniform distribution of nitrogen purge gas. Stainless steel reinforced door frames extend the service life of doors and include "e"-profile, one-piece gaskets. These gaskets are applied without adhesives and will not outgas or migrate over time. Locking LiftLatches™ further extend cabinet service life by operating without lateral torque that strains door hinges.

NitroPlex™ Control System for Optimal Parts Protection

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.

You can even establish a separate humidity set point in each desiccator chamber. The NitroPlex™ monitors the humidity level in each chamber independently and delivers nitrogen only where it's needed, and only for as long as needed. This high-efficiency control generally results in nitrogen savings of up to 78% compared to conventional flowmeter systems. More importantly, it ensures reliable, documented, operator-independent low moisture levels. Refer to page 82 for complete information.

For applications that don't require this multiplexed nitrogen control, select Dual Purge and NitroWatch® systems, which include a single humidity sensor per cabinet.



Model shown: No. 1609-11 (Pass-through configuration), with optional NitroPlex™ humidity control system and stainless steel casters.

A. NitroPlex™ display modules indicate chamber % RH (optional)



Model shown: No. 1609-08 with optional NitroWatch® humidity control system and stainless steel casters

A. NitroPlex™ display modules indicate chamber % RH (optional)

Cat.#

NitroPlex™ Module 1911-31

NitroPlex™ Installation 1911-32

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NitroPlex™ Humidity Control System

Desiccators equipped with the NitroPlex™ feature a display/sensor module and relief/bleed valve in each chamber. To order, apply "NP" to the part number of the affected cabinet. Then, order one NitroPlex™ module for each chamber and one turnkey installation charge.

Series 400 Stainless Steel Desiccators			Single-Side Access	
Type (See Below)	No. of Chambers	Nominal Dimensions*	304 Stainless Steel	Electropolished 304 Stainless Steel
		W" x D" x H"	Cat. #	Cat. #
A	2	25 x 20.75 x 33.75	1609-01	1609-01EP
	3	25 x 20.75 x 50.62	1609-02	1609-02EP
	4	25 x 20.75 x 67.50	1609-03	1609-03EP
B	4	47 x 20.75 x 33.75	1609-04	1609-04EP
	6	47 x 20.75 x 50.62	1609-05	1609-05EP
	8	47 x 20.75 x 67.50	1609-06	1609-06EP

Series 400 Stainless Steel Desiccators			Pass-Through	
Type (See Below)	No. of Chambers	Nominal Dimensions*		Electropolished 304 Stainless Steel
		W" x D" x H"	Cat. #	Cat. #
A	2	25 x 20.75 x 33.75	1609-07	1609-07EP
	3	25 x 20.75 x 50.62	1609-08	1609-08EP
	4	25 x 20.75 x 67.50	1609-09	1609-09EP
B	4	47 x 20.75 x 33.75	1609-10	1609-10EP
	6	47 x 20.75 x 50.62	1609-11	1609-11EP
	8	47 x 20.75 x 67.50	1609-12	1609-12EP

Other Humidity Control Options

Dual Purge™ System

Variable purge system boosts desiccator efficiency and cuts nitrogen costs.

Cat.#

Control Unit 1606-61

Sensor Switch 1600-49

NitroWatch®

Maintains user-selected low humidity level.

Cat.#

Control Unit 9500-00A

Humidity Sensor 9500-02A

Automatic RB Valve

Cat.#

1600-60B

Heavy-Duty Casters

These 4"-diameter cleanroom compatible casters feature a stainless steel finish. Includes set of 4, two with locking brakes.

Cat.#

Set of 4, 2 with locking brakes 1700-43

System Options



Type A

Type B

System Options		
Accessory	304 Stainless steel	Electropolished 304 Stainless Steel
	Cat. #	Cat. #
Shelf Rack**	1609-13	1609-13EP
Perforated shelf	1609-14	1609-14EP
Solid Shelf	1609-15	1609-15EP
Stands (with levelers)		
4"H for Type A	1609-16	1609-16EP
4"H for Type B	1609-18	1609-18EP

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Both models shown with optional NitroPlex™ System and casters.

12"H for Type A	1609-17	1609-17EP
12"H for Type B	1609-19	1609-19EP

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