



Product Sampler #2

Desiccator Cabinets



CLEATECH LLC.
Critical Laboratory solutions

- Manufacture of a complete line of Stainless Steel and Plastic Hoods and Laminar Flow Workstation
- Desiccator, Low-Humidity storage cabinets
- Glove Box Systems
- Cleanroom and Laboratory Accessories

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Cleatech creates custom solutions for application-specific manufacturing challenges, quickly and economically. Our products are extensively tested and meet all major standards. All designs and technologies are developed on-site by our dedicated R&D division. In addition to working with laboratories, we also work hard to make Cleatech a dynamically diverse workplace.

If you have a specific environmental or contamination control need, please [contact us](#) or visit our website www.cleatech.com



CLEATECH manufactures standard and custom-made lab & clean room equipment. We are built on a tradition of innovation, performance, efficiency and durability. Our laboratory products incorporate smart technology that's clean, safe AND affordable.

Desiccator Cabinets, Adjustable Height Shelf, One Chamber per Tier (1500 Series)

Multi-chamber Desiccator Cabinets with chrome-plated racks which provides adjustable shelf placement. Shelves easily slide on wire racks to make more storage space. Select acrylic or dissipative PVC cabinets, one to ten chambers, manual or automated RH control. Static-control options protect sensitive materials against electrostatic, built-in grounding terminal provides additional ESD safety.

Features:

- 304 stainless steel door frame extend service lifetime
- Stainless Steel door hinge for maximum door support
- Lift-and-turn Compression Latch
- Chrome-plated racks allow shelf placement at one-inch increments.
- Plenum chamber minimizes backfill ensures uniform gas distribution
- Grounded rack, hinge and door latch provide additional ESD safety.

DESICCATOR STORAGE CABINETS



Stainless Steel Shelves



Lift & Turn Latches

Overall Dimension W" x D" x H"	No. Of Doors	Clear Acrylic		UV Amber Acrylic		Static-Dissipative PVC	
12x16x12	1	1500-1-A		1500-1-D		1500-1-G	
16x16x12	1	1500-1-B		1500-1-E		1500-1-H	
18x18x12	1	1500-1-C		1500-1-F		1500-1-I	
24x18x12	1	1500-1-J		1500-1-K		1500-1-L	
24x24x12	1	1500-1-M		1500-1-N		1500-1-O	
24x18x16	1	1500-1-P		1500-1-Q		1500-1-R	
24x24x16	1	1500-1-S		1500-1-T		1500-1-U	
16x16x24	2	1500-2-A		1500-2-D		1500-2-G	
18x18x24	2	1500-2-B		1500-2-E		1500-2-H	
24x18x24	2	1500-2-C		1500-2-F		1500-2-I	
24x24x24	2	1500-2-J		1500-2-K		1500-2-L	
24x18x32	2	1500-2-M		1500-2-N		1500-2-O	
24x24x32	2	1500-2-P		1500-2-Q		1500-2-R	
16x16x36	3	1500-3-A		1500-3-D		1500-3-G	
18x18x36	3	1500-3-B		1500-3-E		1500-3-H	
24x18x36	3	1500-3-C		1500-3-F		1500-3-I	
24x24x36	3	1500-3-J		1500-3-K		1500-3-L	
24x18x48	3	1500-3-P		1500-3-Q		1500-3-R	
24x24x48	3	1500-3-M		1500-3-N		1500-3-O	
16x16x48	4	1500-4-A		1500-4-D		1500-4-G	
18x18x48	4	1500-4-B		1500-4-E		1500-4-H	
24x18x48	4	1500-4-C		1500-4-F		1500-4-I	
24x24x48	4	1500-4-V		1500-4-W		1500-4-X	
24x18x64	4	1500-4-Y		1500-4-Z		1500-4-AA	
24x24x64	4	1500-4-S		1500-4-T		1500-4-U	
16x16x60	5	1500-5-A		1500-5-D		1500-5-G	
18x18x60	5	1500-5-B		1500-5-E		1500-5-H	
24x18x60	5	1500-5-C		1500-5-F		1500-5-I	
24x24x60	5	1500-5-C		1500-5-K		1500-5-L	

Desiccator Cabinets, Adjustable Height Shelf, Two Chambers per Tier

Overall Dimensions W" x D" x H"	No. Of Doors	Clear Acrylic	UV Amber Acrylic	Static-Dissipative PVC
32x16x24	4	1500-A-J	1500-4-M	1500-4-P
36x18x24	4	1500-4-K	1500-4-N	1500-4-Q
48x18x24	4	1500-4-L	1500-4-O	1500-4-R
48x24x24	4	1500-4-AB	1500-4-AC	1500-4-AD
48x18x32	4	1500-4-AE	1500-4-AF	1500-4-AG
48x24x32	4	1500-4-AH	1500-4-AJ	1500-4-AK
32x16x36	6	1500-6-A	1500-6-D	1500-6-G
36x18x36	6	1500-6-B	1500-6-E	1500-6-H
48x18x36	6	1500-6-C	1500-6-F	1500-6-I
48x24x36	6	1500-6-J	1500-6-K	1500-6-L
48x18x48	6	1500-6-P	1500-6-Q	1500-6-R
48x24x48	6	1500-6-M	1500-6-N	1500-6-O
32x16x48	8	1500-8-A	1500-8-D	1500-8-G
36x18x48	8	1500-8-B	1500-8-E	1500-8-H
48x18x48	8	1500-8-C	1500-8-F	1500-8-I
48x24x48	8	1500-8-N	1500-8-M	1500-8-O
48x18x64	8	1500-8-P	1500-8-Q	1500-8-R
48x24x64	8	1500-8-J	1500-8-K	1500-8-L
32x16x60	10	1500-10-A	1500-10-D	1500-10-G
36x18x60	10	1500-10-B	1500-10-E	1500-10-H
48x18x60	10	1500-10-C	1500-10-F	1500-10-I
48x24x60	10	1500-10-J	1500-10-K	1500-10-L



Clear Acrylic / SD PVC



UV Amber Acrylic



Auto Purge Control Unit



Secure Door w/Cam Lock

Note: These Nitrogen purge desiccator cabinets can be changed to desiccant type (nitrogen-free) cabinets upon request. The Desiccator cabinet can be ordered without back plenum in order to have isolated atmosphere chambers.

Accessories:

- Gas-in Port & Pressure Relief Valve
- Nitrogen-Purge Control Unit with humidity sensor *
- Flowmeter, range 2-20 SCFH air. with Valve-External Mount
- Locking Bracket for Padlock, Stainless Steel
- Cam lock, installed for each door
- Perforated Acrylic Shelf
- Perforate Stainless Steel Shelf
- Perforated Static Dissipative Shelf
- Digital Hygrometer
- Re-generable Silica gel cartridge Desiccant, indicating Silica Gel ,2"x2'x1"
- Stainless Steel Desiccant Tray 15"x15"x 0.75" Perforated removable lid
- Stand with Caster- Powder Coated Steel
- Stand with Level Mount- Powder Coated Steel

***Note:** Automatic Purge Control unit designed to automatically control purge system to maintain desired low relative humidity and reduce consumption and cost of inert gas by 70%. (Refer to page 8)

Wafer Desiccator Cabinets, 1500 Series

Wafer carrier storage desiccator cabinets provide high density storage of up to 12" diameter silicon wafers in standard wafer containers / carriers. We can also offer them in pass-through designs for dual-side access. Designed for storage of 200 mm or 300 mm wafers in most standard cassettes and lot boxes. Humidity control system enhances desiccator efficiency and saves up to 70% of nitrogen costs and preserves moisture-sensitive wafers in a dry & particle-free environment.

Overall Dimensions W" x D" x H"	Wafer Size	No. Of Chambers	Storage Capacity	Clear Acrylic		Static-Dissipative PVC	
26.5x25x48	8"	4	16*	1510-4-A		1510-4-B	
26.5x25x60	8"	5	20*	1510-5-C		1510-5-D	
53x25x36	8"	6	24*	1510-6-E		1510-6-F	
53x25x48	8"	8	32*	1510-8-G		1510-8-H	
53x25x60	8"	10	40*	1510-10-K		1510-10-L	
19x25x64	12"	4	8**	1510-4-M		1510-4-N	
19x29x64	12"	4	8**	1510-4-Q		1510-4-R	
38x25x64	12"	8	16**	1510-8-O		1510-8-P	
38x29x64	12"	8	16	1510-8-Q		1510-8-R	

* Based on Wafer Containers 12"W x 11"D x 10 1/4" H or smaller

** Based on Wafer Containers 17"W x 10 1/2"D x 14" H or smaller



DESICCATOR STORAGE CABINETS



Automatic Purge Control System

Drawer Chest Desiccator Cabinets, 1500 Series

Drawer Storage Desiccator Cabinets (Tote Box Desiccator) provide optimal organization in a clean, low humidity nitrogen environment. Each chamber accommodates 6 clear polypropylene molded drawers with the inside dimension of 10.25" W, 13.25" D and 3" H. Available in Clear Acrylic and Amber Acrylic construction.

Overall Size W" x D" x H"	No. Of Chambers	No. Of Drawers	Drawer Inside Dimension W" x D" x H"	Clear Acrylic		Amber Acrylic	
26x18x38	3	18	10.25 x 13.25 x 3	1520-3-A		1520-3-B	
26x18x50	4	24	10.25 x 13.25 x 3	1520-4-D		1520-4-E	
26x18x62	5	30	10.25 x 13.25 x 3	1520-5-G		1520-5-H	
52x18x38	6	36	10.25 x 13.25 x 3	1520-6-J		1520-6-K	
52x18x50	8	48	10.25 x 13.25 x 3	1520-8-M		1520-8-N	
52x18x62	10	60	10.25 x 13.25 x 3	1520-10-P		1520-10-Q	



Accessories:

- Gas-in Port & Pressure Relief Valve
- Automatic Purge Control Unit with Humidity sensor
- Flowmeter, range 2-20 SCFH air. with Valve-External Mount
- Locking Bracket, Stainless Steel
- Camlock to Secure the cabinet
- Digital Hygrometer
- Humidity and Temperature data logger
- Stand with Caster- Powder Coated Steel
- Stand with Level Mount- Powder Coated Steel.

Pass-Through Desiccator Cabinets, 1500 Series

Cleatech pass-through desiccator cabinets can be installed within a cleanroom or inventory room wall or can be positioned between two aisles in assembly rooms allowing access to stored materials from both sides. The compartments can be fully isolated from each other as each compartment utilizes an inlet and bleeding valve for introduction of nitrogen gas or CDA to complete purging system to reduce the moisture level down to 0%. Or the compartments can be connected to each other through some perforations between chamber dividers so they can be used with one set of inlet and bleeding valve along with a single channel automatic purge control unit. PCU or purge controller can provide automatic low-humidity control capable of measuring and displaying humidity inside the pass-through cabinets in the range: 5-100%RH.

Overall Dimension W" x D" x H"	No. Of Chamber (R x C)	Shelf Space (Usable Area) W" x D"	Clear Acrylic *		UV Amber Acrylic *		Static-Dissipative PVC Transparent**	
24x24x24	2X1	21 1/2x21 1/2	1540-2-A		1540-2-B		1540-2-C	
24x18x32	2X1	21 1/2x15 1/2	1540-2-D		1540-2-E		1540-2-F	
24x24x36	3X1	21 1/2x21 1/2	1540-3-A		1540-3-B		1540-3-C	
24x18x48	3X1	21 1/2x15 1/2	1540-3-D		1540-3-E		1540-3-F	
24x24x48	4X1	21 1/2x21 1/2	1540-4-A		1540-4-B		1540-4-C	
24x18x64	4X1	21 1/2x15 1/2	1540-4-D		1540-4-E		1540-4-F	
24x18x60	5X1	21 1/2x15 1/2	1540-5-A		1540-5-B		1540-5-C	
24x24x60	5X1	21 1/2x21 1/2	1540-5-D		1540-5-E		1540-5-F	
48x24x36	3x2	21 1/2x21 1/2	1540-6-A		1540-6-B		1540-6-C	
48x18x48	3x2	21 1/2x15 1/2	1540-6-D		1540-6-E		1540-6-F	
48x24x48	4X2	21 1/2x21 1/2	1540-8-A		1540-8-B		1540-8-C	
48x18x64	4X2	21 1/2x15 1/2	1540-8-D		1540-8-E		1540-8-F	
48x18x60	5X2	21 1/2x15 1/2	1540-10-A		1540-10-B		1540-10-C	
48x24x60	5X2	21 1/2x21 1/2	1540-10-D		1540-10-E		1540-10-F	

Feature: Front and rear access doors allow pass-through operation.

Accessories:

- Gas-in Port & Pressure Relief Valve
- Nitrogen-Purge Control Unit with humidity sensor (Refer to Page 8)
- Flowmeter, range 2-20 SCFH air. with Valve-External Mount
- Locking Bracket for Padlock, Stainless Steel
- Cam lock, installed for each door
- Perforated Acrylic Shelf
- Perforate Stainless Steel Shelf
- Perforated Static Dissipative Shelf
- Digital Hygrometer
- Re-generable Silica gel cartridge Desiccant, indicating Silica Gel ,2"x2'x1"
- Stainless Steel Desiccant Tray 15"x15"x 0.75" Perforated removable lid
- Stand with Caster- Powder Coated Steel
- Stand with Level Mount- Powder Coated Steel



Inert Gas Purging System



Dual Side Access Cabinets



Auto Purge Control Unit

Single Chamber Plastic Desiccator Cabinets, 1400 Series

All-transparent single door portable desiccator cabinets with swing down door, offer convenient dust and moisture-free storage that can be easily transferred to different locations. They provide low humidity controlled environment using desiccant or inert gas.

Overall Dimensions W" x D" x H"	Shelf Usable Space	Clear Acrylic		UV Amber Acrylic		Static-Dissipative PVC	
		Model	Model	Model	Model	Model	Model
9x9x9	8.5 x 8	1400-1-P		1400-1-R		1400-1-T	
10x14x10	9.5 x13	1400-1-Q		1400-1-S		1400-1-U	
12x12x12	11.5 x11	1400-1-A		1400-1-F		1400-1-K	
16x16x12	15.5 x15	1400-1-V		1400-1-X		1400-1-Z	
16x18x16	15.5 x17	1400-1-W		1400-1-Y		1400-1-AA	
18x18x 9	17.5 x17	1400-1-B		1400-1-G		1400-1-L	
18x18x12	17.5 x17	1400-1-C		1400-1-H		1400-1-M	
24x18x12	23.5 x17	1400-1-D		1400-1-I		1400-1-N	
24x24x12	23.5 x23	1400-1-E		1400-1-J		1400-1-O	
20x20x18	19.5 x19	1400-1-AB		1400-1-AC		1400-1-AD	
24x24x18	23.5 x23	1400-1-AE		1400-1-AF		1400-1-AG	



DESICCATOR STORAGE CABINETS

Accessories:

- Gas-in/out Port • Perforated Shelf • Automatic Purge Control Unit • Flowmeter • RH & Temperature monitor • Re-generable Silica Gel Desiccant Cartridge • Desiccant Tray

Single Chamber Stainless Steel Desiccator Cabinets, 1600 Series

Cleatech® Stainless steel desiccators are durable, low humidity storage cabinets which designed for maximum weight capacity and long term durability. Cabinets can be equipped with optional inlet and outlet ports that allow gas to be purged through the storage area. They can be used with inert gas, CDA or desiccant. For automated purging and humidity control they can be used with Cleatech Automatic purge control unit. (Refer page 8)

Dimensions W" x D" x H"	Shelf Usable Space	304 Stainless Steel Desiccator		Corresponding Perforated Shelves	
16x16x16	14.5 x15	1600-1-B		A16-SH-S1	
18x18x16	16.5 x17	1600-1-D		A16-SH-S2	
20x20x16	18.5 x19	1600-1-F		A16-SH-S3	
22x22x16	20.5 x21	1600-1-H		A16-SH-S4	
20x20x22	18.5 x19	1600-1-I		A16-SH-S3	

For cleanroom compatibility of cabinet and shelves, we offer Exterior Electropolish & Interior Passivation.

The front window's available in Static Dissipative PVC and Tempered Glass



Accessories:

- Gas-in Port & Pressure Relief Valve • Stainless Steel Perforated Shelf • Automatic Purge Control Unit with Humidity sensor • Flowmeter, range 2-20 SCFH air. with Valve-External Mount • Locking Bracket, Stainless Steel • Camlock to Secure the cabinet • Digital Hygrometer • Humidity and Temperature data logger • Multi-Level Stand with Caster or Leveling mount.

Vacuum Desiccator Cabinets, Type I, Removable Lid, 1300 Series

Vacuum Desiccator Cabinets are vacuum chambers made of clear Acrylic designed for vacuum testing, degassing small parts, de-foaming, mixed liquids, biological tests and storing samples under sustained low and intermediate vacuums. Type I, features fully removable top lid.

Inside Dimension W" x D" x H"	Overall Dimension W" x D" x H"	Max. Vacuum Level (in. Of HG)	Vacuum Desiccator Type I	
7x7x8	9x9x12	29.8+	1300-1-A	
9x9x9	11x11x13	29.8+	1300-1-B	
10x10x8	12x12x12	29.8+	1300-1-C	
11x8x10	13x10x14	29.8+	1300-1-D	
14x8x10	16x10x14	29.8+	1300-1-E	
12x12x12	14x14x16	29.8+	1300-1-F	
15x15x12	17x17x16	29.8+	1300-1-G	
20x16x14	22x18x18	29.8+	1300-1-H	
21.75x16x14	24x18x18	29.8+	1300-1-I	



Features:

- Made of clear 1 inch. thick acrylic material
- Removable cover makes it easy to insert and take out samples
- Removable perforated Acrylic shelf. Additional shelf is optional
- Supports vacuum level of 29.8" Hg and more (> 756 millimeter of Mercury)

Vacuum Desiccator Cabinets, Type II, Front Hinged Door, 1300 Series

Newly designed Vacuum Desiccator Cabinets, Type II with front hinged door and O-ring sealing. Up to four shelves can be installed. Shelves are removable if larger space required.

Inside Dimension W" x D" x H"	Overall Dimension W" x D" x H"	Max. Vacuum Level (in. Of HG)	Vacuum Desiccator Type II	
12x12x12	14x14x15	29.8+	1300-2-A	
14x14x14	16x16x17	29.8+	1300-2-B	
10x12x16	12x14x19	29.8+	1300-2-C	
10x14x18	12x16x21	29.8+	1300-2-D	



Features:

- Made of clear 1 inch. thick acrylic material
- Front Hinged Door for easier access to the samples in all shelves
- Removable perforated Acrylic shelf. Additional shelf is optional
- Supports vacuum level of 29.8" Hg and more (> 756 millimeter of Mercury)
- Two vacuum valves mounted to top, 3/8" ID barbed fittings

Accessories:

- Vacuum Gauge 0-30 in. Hg
- Perforated Acrylic Shelf
- Two-stage Rotary Vacuum Pump 5.5 CFM
- Vacuum rated PVC Tube
- Vacuum Control Unit.

**Cleatech® Vacuum Pump Control Unit, desk top, monitors the vacuum level and automatically controls pump operation by turning the pump on/off and opening/closing an in-line solenoid valve to maintain a preset vacuum level (to 29.5" Hg) in a remote vacuum chamber. Available in 120VAC and 240VAC*



Automatic Purge Control Units with RH Sensor

Automatic purge control units (Humodule™) work with inert gas such as Nitrogen, Argon or Clean Dry Air (CDA) Source. They are design to automatically control purge system to maintain desired low relative humidity.

SKU	Descriptions
A21-HM-HDS	PCU Type S, Single Purge, audio Alarm, One Humidity Sensor
A21-HM-HDD*	PCU Type D, Double Purge, audio Alarm, One Humidity Sensor
A21-HM-H2	2-Channel Dehumidification Unit, with two RH Sensors
A21-HM-H3	3-Channel Dehumidification Unit, with three RH Sensors
A21-HM-H4	4-Channel Dehumidification Unit, with four RH Sensors
A21-HM-C	Humidification & Dehumidification Purge Unit, One RH Sensor

adjustable continuous gas flow and maintain positive pressure inside enclosures

Type S: It's a single purge unit, it keeps the humidity of enclosure on the set point by purging Nitrogen when the moisture climbs above an adjustable set point. The Nitrogen flow is stopped by a solenoid valve, when the humidity is lower than set point. The input pressure is controlled by the pressure regulator (0 - 30 psi), and the output flow rate by the Flowmeter (0 - 20 SCFH).

Type D: It is a dual purge unit. While inside related humidity level is below set point, the system provides low purge (2-20 Cubic feet per hour) inert gas maintaining positive pressure inside the enclosure in order to have free contaminants and moisture environment. When the moisture climbs above an adjustable set point the system automatically activates high-flow purge (0.5 -30 PSI).



INERT GAS PURGE SYSTEMS

Automatic Purge Control Units with O2 Sensor (Oxygen Analyzer)

Cleatech Oxygen Analyzer works with inert gas such as Nitrogen and Argon. The system monitors the O2 level 0 to 100 and it's able to maintain the O2 level inside the enclosure on the desired set point level.

SKU	Descriptions
A21-HM-OA	Automatic Purge Control Unit with O2 Sensor



Features:

0 to 100% Oxygen level reading range, including external model CAG-250E sensor, locking sensor interface cable, 115/230 VAC, Stainless Steel enclosure, Bench-top, Alarm Output, RS 232 Service port.

Nitrogen Generators

Membrane Nitrogen Generators which eliminate the inconvenience and the high costs of nitrogen cylinders. Membrane Nitrogen Generators produce up to 99.5% pure commercially sterile nitrogen at dew points to -58°F (-50°C) from a compressed air supply. They require source of dry compressed air.

SKU	Descriptions
1700-1-A	Membrane Nitrogen generator, HFX-1, 11 SCFH @ 99% Pure
1700-1-B	Membrane Nitrogen generator, HFX-3, 42 SCFH @ 99% Pure
1700-1-C	Membrane Nitrogen generator, HFX-5, 76 SCFH @ 99% Pure

Accessories:

- Filter Maintenance Kits



Useful Resources and Links



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