

## CartRight™ Mobile Desiccator Cabinets / Dry Boxes



- Provides an ultra-clean, low-humidity environment for WIP and/or transferring of sensitive materials between controlled environments
- Plenum chamber distributes dry purge gas evenly to each storage compartment
- Stainless steel cart frame protects the desiccator cabinet while providing optimal clean-ability
- Upper cart shelf provides operators with a convenient work surface for loading and unloading the desiccator cabinet
- Wire racks accommodate optional shelving that can be adjusted in 1/2" increments
- Large diameter wheels provide precise handling and ease of movement over uneven surfaces
- Offered in a variety of sizes and materials to meet most any critical storage application
- Desiccator cabinet is pre-tapped to accommodate a quick-connect fitting and an Auto-Adjust™ RB Valve (both optional), which provides for convenient and safe dry gas purging

CartRight™ Mobile Desiccator Cabinets / Dry Boxes						
Stainless Steel Cart Frame Nominal Overall Dimensions in inches (mm) W x D x H	Number of Chambers	Wheel Diameter	Shelves / Trays Nominal Inside Usable Dimensions in inches (mm) W x D	Desiccator Cabinet Plastic Material		
				Clear Acrylic*	Amber Acrylic*	Static Dissipative PVC**
				Part #	Part #	Part #
18" x 30" x 37" (457 x 762 x 965)	2	4"	20.25" x 13.5" (235 x 254)	CRD802-C	CRD802-A	CRD802-D
18" x 36" x 37" (457 x 914 x 965)	4	4"	12" x 13.5" (337 x 318)	CRD864-C	CRD864-A	CRD864-D
21" x 36" x 38" (533 x 914 x 965)	4	5"	12" x 16.5" (375 x 368)	CRD164-C	CRD164-A	CRD164-D
24" x 36" x 38" (610 x 914 x 965)	4	5"	12" x 19.5" (502 x 368)	CRD464-C	CRD464-A	CRD464-D
24" x 48" x 38" (610 x 1219 x 965)	4	5"	18" x 19.5" (235 x 254)	CRD484-C	CRD484-A	CRD484-D

\* Acrylic is susceptible to damage with the prolonged use of alcohol and other cleaning/disinfecting agents. Cabinets made of Static Dissipative PVC may be a better choice in these instances.

\*\* It is highly recommended that stainless steel shields be installed in Static Dissipative PVC desiccators to protect the chambers bottom surface from repeated scraping and rubbing, which can lead to loss of dissipative properties.

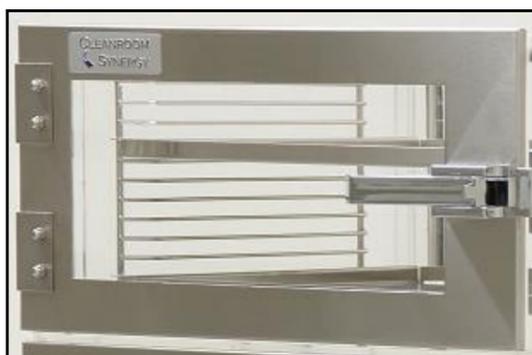
**Additional product information:**

1. Amber acrylic desiccator cabinets are ideal for storage of materials and devices that are sensitive to ultraviolet light.
2. Pre-tapped inlets/outlets for connection of optional gas purge devices & controllers and Auto-Adjust™ RB (relief/bleed) valve.
3. Static-dissipative PVC desiccator cabinets provide added contamination control by dissipating static charges that attract air-borne particulate.
4. Exterior removable back plenum panel is made of non-dissipative material. Static dissipative PVC available upon request (at additional charge).
5. Static-dissipative PVC desiccator cabinets feature system grounding, where the door latch set, hinges and racks are interconnected with conductive tape and terminated at a multi lug grounding block. Grounding is optional on clear and amber acrylic desiccator cabinets. See Grounding (desiccator) option below for further information.

Select corresponding door frames, shelves, gas purging devices & controllers and other system options from the following ordering charts

### Stainless Steel Door Frames

- Re-enforces and prevents potential damage to the plastic doors, increasing overall cabinet life
- Enhances sealing performance by securely holding a one-piece gasket material in place to virtually eliminate gasket movement or failure
- Select the appropriate door frame part number and quantity that is needed for the selected desiccator cabinet(s)



Stainless Steel Door Frames for CartRight™ Mobile Desiccator Cabinets	
Stainless Steel Cart Frame W x D x H	Door Frames
	Part #
18" x 30" x 37" (457 x 762 x 965)	CRD302-DF
18" x 36" x 37" (457 x 914 x 965)	CRD364-DF
21" x 36" x 38" (533 x 914 x 965)	
24" x 36" x 38" (610 x 914 x 965)	
24" x 48" x 38" (610 x 1219 x 965)	CRD484-DF

Shields, Shelves & Trays for CartRight™ Mobile Desiccator Cabinets							
Stainless Steel Cart Frame W x D x H	Stainless Steel, Non-Perforated			Electro-Polished Stainless Steel, Non-Perforated			Clear Acrylic* w/ Stainless Steel Flex Guard™
	Shield	Shelf, .5"D	Tray, 2"D	Shield	Shelf, .5"D	Tray, 2"D	Shelf, .25" Material
	Part #	Part #	Part #	Part #	Part #	Part #	Part #
18" x 30" x 37" (457 x 762 x 965)	CRD802-SD	CRD802-SF	CRD802-ST	CRD802-SDE	CRD802-SFE	CRD802-STE	CRD802-ASF
18" x 36" x 37" (457 x 914 x 965)	CRD864-SD	CRD864-SF	CRD864-ST	CRD864-SDE	CRD864-SFE	CRD864-STE	CRD864-ASF
21" x 36" x 38" (533 x 914 x 965)	CRD164-SD	CRD164-SF	CRD164-ST	CRD164-SDE	CRD164-SFE	CRD164-STE	CRD164-ASF
24" x 36" x 38" (610 x 914 x 965)	CRD464-SD	CRD464-SF	CRD464-ST	CRD464-SDE	CRD464-SFE	CRD464-STE	CRD464-ASF
24" x 48" x 38" (610 x 1219 x 965)	CRD484-SD	CRD484-SF	CRD484-ST	CRD484-SDE	CRD484-SFE	CRD484-STE	CRD484-ASF

\* Acrylic shelves should not be used with static-dissipative PVC desiccator cabinets.

**Additional product information:**

1. Stainless steel shields being purchased for installation on clear and amber acrylic desiccator cabinet's, should be considered with the addition of desiccator grounding (optional). See Grounding (desiccator) option below for further information.
2. Shields are factory installed. When purchased for use with a static-dissipative PVC desiccator, the shields will be installed and connected to the system grounding, which is a standard feature on these cabinets
3. Perforated shields and shelves are available upon request (at additional charge)

**Adjustable Shelf Supports**

- Reinforces the desiccators internal fixed in-place plastic shelves for the accommodation of heavier storage loads
- Minimizes detrimental cabinet damage caused by overloading storage chambers
- Adjustable, Low-profile design allows placement without taking away valuable storage space
- Select the appropriate quantity needed for the selected desiccator cabinet(s). Install in pairs for better loading capability
- Fabricated out of 304 stainless steel

**Note:** It is recommended that stored materials, whenever possible, be distributed evenly though-out the storage chamber and not centrally located in the center of the chamber as to minimize un-necessary damage to the desiccator cabinet.

Adjustable Shelf Supports	
Stainless Steel Cart Frame W x D x H	Shelf Supports
	Part #
18" x 30" x 37" (457 x 762 x 965)	D-SS1
24" x 48" x 38" (610 x 1219 x 965)	

**Quick-Connect, Push-to-Connect Couplings**

A slim body makes these plugs and sockets great for use in tight spaces. These "brass" couplings are single-shut-off style, so there is a valve in the socket but not the plug. Not rated for vacuum. NPTF (DrySeal) threads are compatible with NPT threads.

**Push-to-Connect Sockets** - To connect, push plug into socket until you hear a "click." To disconnect, slide sleeve forward until the plug ejects. All have a Buna-N (nitrile) seal. These sockets are only for use with the plugs in this presentation. Male plug features a 1/8" pipe size NPTF, which can be connected (threaded) directly into the desiccator cabinet or to the optional Flow Meters listed below.

Quick-Connect Couplings
Part #
CRD-QC1

**Flow Meter**

- Scales are hot stamped into the front of the acrylic body and will not wear off
- Bodies are precision cut and machined from clear acrylic blocks with a smooth tapered bore that provides perfect visibility of the indicating float
- Accuracy is ±5% of full scale with a scale average 2" long
- Features brass (stainless steel optional) inlet and outlet connections, black glass float, Buna-N O-rings and tapped for 1/8" NPT female process connection (vertical mounting)
- Service: Compatible gases and liquids
- Includes nickel plated brass hex nipple and 90 degree elbow (female x male), 1/8" (3.18mm) pipe size for connection to Cleanroom Synergy desiccators, glove boxes or other gas purged enclosures

Flow Meter (fittings included)		
.6 - 5 SCFH	1 - 10 SCFH	2 - 20 SCFH
Part #	Part #	Part #
CCE-FME	CCE-FMH	CCE-FMK

**Auto-Adjust RB™ Valve**

- Automatically adjusts to gas flow rates and possible sudden surges
- Eliminates possible negative pressure incidents due to its one way air flow design
- Continuously bleeds off excess internal gas to maintain a safe pressure within desiccators, glove boxes and other hermetically sealed enclosures
- Includes a nickel plated brass hex nipple fitting with a polyurethane O-ring to ensure a positive seal against enclosure

**Notes:**

1. One Auto R/B Valve per cabinet is required if desiccator is to be purged with dry gas
2. Installation of one Auto R/B Valve in each desiccator storage chamber eliminates cross contamination and R/H fluctuation

Auto-Adjust™ RB Valve
Part #
CCE-PRV



Auto-Adjust™ RB Valve

## Static Control Solutions

### Grounding (Desiccator)

- Safely discharges the operator when accessing stored material
- Helps protect sensitive materials from electro static discharge damage
- Provides interconnection of the door latch, door catch, hinges and racks with conductive tape and termination at a multi lug grounding block

**Notes:**

1. Charge for grounding is per desiccator chamber, therefore, quantity should correspond with the number of chambers on the affected desiccator cabinet
2. Grounding is a standard feature on all static dissipative PVC desiccator cabinets
3. A ground fault circuit interrupter should be considered to provide personnel protection

Grounding
Part #
D-1CG

Cost is per chamber



Multi-lug grounding block



Shield, rack and shelf grounding

### **Desiccator Cabinet Grounding**

Static Dissipative PVC features a surface resistivity of approximately 10<sup>7</sup> ohms/square that dissipates static charges from the cabinet's surface. Grounding is standard on Static Dissipative PVC desiccators, which safely directs charges to a multi lug termination grounding block. To protect the Static-Dissipative PVC interior bottom surface, it is "highly recommended" that a stainless steel shield be installed in each desiccator cabinet chamber. Stainless steel shield installation within these cabinets, include connection to the desiccators grounding.

Acrylic (clear and amber) desiccators can also be fitted with grounding by purchasing the optional "Desiccator Grounding". Charge for the desiccators grounding is per chamber. Stainless steel shield installation within these cabinets, include connection to the desiccators grounding if optional grounding is purchased.

### Ion Power™ Unit

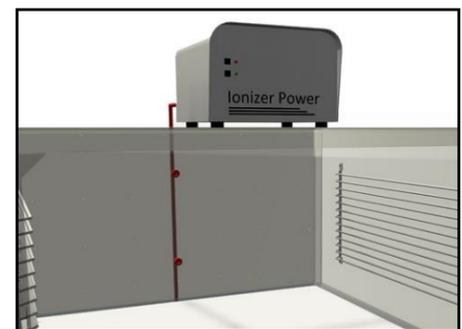
- Neutralizes static charge build-up by introducing positive and negative ions into the desiccator cabinets storage chamber
- Provides electro-static-discharge of non-conductive materials, which cannot dissipative or transfer charges to ground
- Helps to neutralize electrostatic charges on interior cabinet surfaces that induce contamination influx by attracting air borne particulates
- 120/240V, 50/60Hz, requires no manual power selection

**Note:** Select ionizing nozzles for each desiccator storage chamber

Ion Power™ Unit
Part #
D-IPU-1

Ionizing Nozzles
Part #
D-1NS

Two nozzles per desiccator chamber required



Desiccator cabinet with Ion Power™ Unit and system ionizing nozzles

## Automated Relative Humidity Control Solutions

**Relative Humidity Control:** For automated control over low R/H levels (0% to ambient RH) or for complete R/H control (0% - 100%), select the optional Gas Purge™, Gas Monitor™ and Gas Humidifier™ control systems. For additional information about these products, [click here](#)



Gas Monitor™ & Gas Purge™ Controllers

All Specifications are subject to change without notice.

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