

Desiccators & Dry Cabinets



mrc

DRY CABINETS Pyrex Desiccators

12-305x-Series, Vacuum Pyrex Desiccator

THE MRC desiccator is a laboratory vessel with a ground lid, which is suitable for use under vacuum. It is used for the storage of substances that are sensitive to moisture and for drying moist products. The lower part is divided by a sieve plate and serves as a receptacle for water-absorbent substances such as anhydrous calcium chloride. These drying agents draw out the moisture from the substance to be dried. Drying agents should not be placed directly in the desiccator. Rather, an appropriately sized crystallizing dish should be filled with the drying agent and place it inside.



Place the substance to be dried on the sieve plate and close the desiccator tightly. All MRC desiccators are suitable for use under vacuum.

Model	Size (mm)	Porcelain plate diameter (mm)	Overall height
12-3050	160	148	285
12-3051	210	188	347
12-3052	240	220	381
12-3053	300	280	467

- With ground stopcocks
- With porcelain plate
- Highly transparent PC (Polycarbonate) that is strong, allows for clear sample viewing, is non-corrosive, is easy to clean & maintain
- The basic component of the drying agent tray with descant allows the round desiccators to be used in various experiments under non vacuum conditions
- Convenient 3-Way stopcock provide easy vacuum release during operating
- Lock holds the bottom and top lid together under non vacuum conditions.



4706/0063, Polycarbonate Vacuum Desiccator

- Main unit and lid are completely transparent. You can instantly know the status of items that are stored and when replacing silica gel.
- Dry seal type uses an O-ring. Eliminated the trouble of applying grease.
- Maximum strength in the transparent resins. Difficult to crack even if dropped, so you can use it with confidence.
- The ceramic plate is heat resistant, corrosion resistant, has an anti-sticking property and won't scratch.
- As a feature of PC, it has strong tensile strength, is durable to impacts, & is heat-resistant.

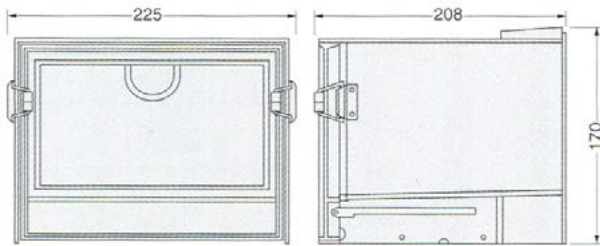
0063 - With Spigot, Effective inside Diameter: 230mm
 4706 - With Spigot, Vacuum Gauge, Effective inside Diameter: 230mm



Model	4706	0063
Body inside diameters	210mm	250mm
Body inside height	90mm H	100mm H
A dedicated ceramic plate	O	O
Spigot nozzle diameter	6 to 8 mm	6 to 8 mm
Spigot material	Polycarbonate	Polycarbonate
Vacuum gauge	0 to -0.1 MPa (minimum scale units: 0.005 MPa)	-



0050



0050, Mini Desiccator Cabinet

Specifications:

- Injection molded PS cabinet is sturdy and unbreakable.
- Sides and door are completely transparent for easy viewing.
- The door AS made has a foam rubber gasket and roller latches for an airtight seal.
- When opened, the door slides into an out-of-the-way compartment beneath the cabinet.
- Smoky transparent cabinet is excellent for protecting light-sensitive materials.
- Suitable for the storage of highly sensitive components.
- Stackable to save bench top space.
- Materials: PS (Polystyrene)
- Compartment inside DIM.: W195 x D154 x H113mm
- (Accessories): 1 jar of moisture-absorbing silica gel in each compartment.

Model	Specifications	Outside dimension (mm)
0050	1 Level	W225 x D208 x H170



0040

0030/0040, Dry Keepers

Auto type adopts a high performance dehumidification unit ED-1 which maintains the Inside humidity at 30% to 40%RH. (With silica gel regeneration function. Troublesome replacement is unnecessary.) Non-auto type has a pan for silica gel and is convenient. Also use in applications other than dehumidification.

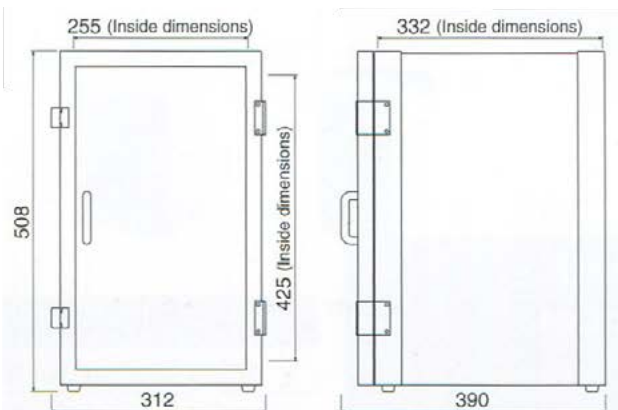
- Since there may be cases when the error produced by sudden humidity changes and shock becomes large, use the hygrometer supplied with the auto type only as a guide.
- The inside humidity is slightly different depending on the room temperature and usage conditions. Frame black. body smoky transparent.



0030

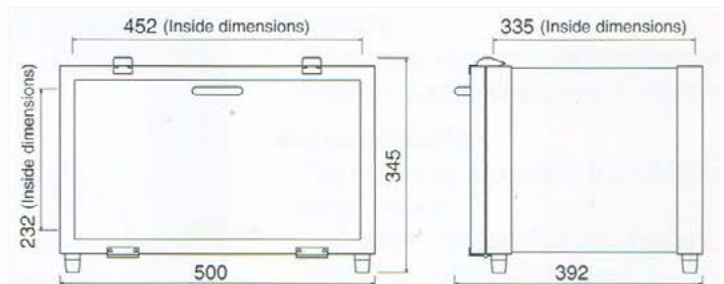
Functions and strength are improved markedly by combining molded parts. Shelf plates can be adjusted in 15 steps at 28mm intervals to match the size of the stored items.

0030 Dimensions



Model	Type
0030	Latch door type Shelf plate 3 plates
0040	Latch door type Shelf plate 2 plates

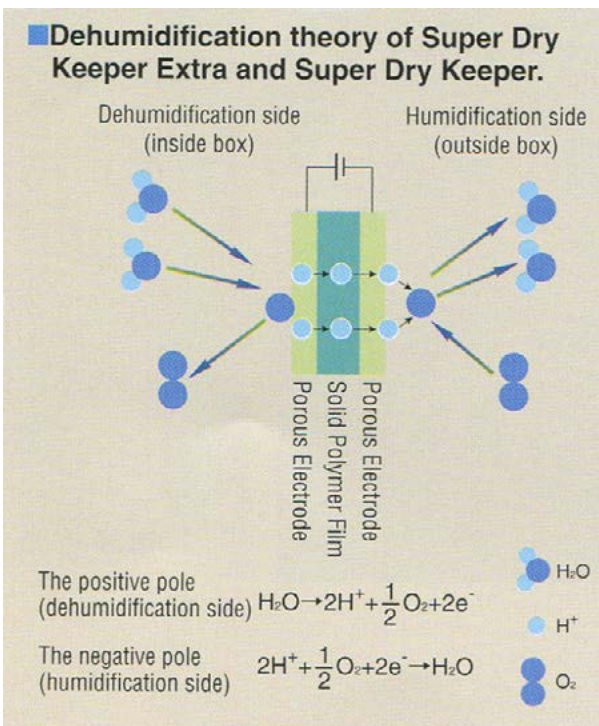
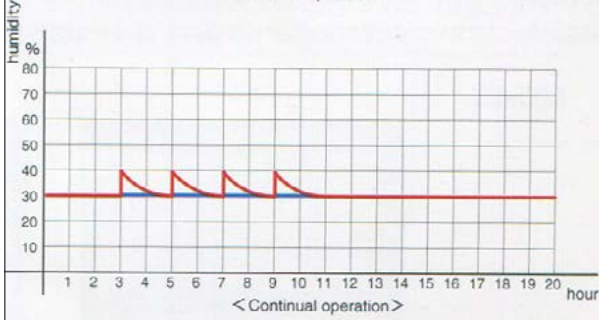
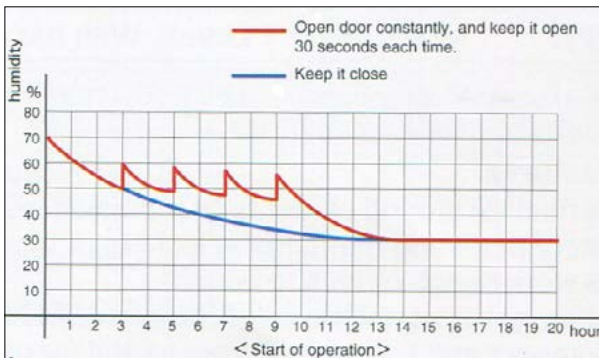
0040 Dimension



DRY CABINETS PVC ACTIVE



0010



0003/0010, Auto Dry Keepers

Features:

- Full automatic system. Replacement of silica gel is unnecessary. Humidity inside the refrigerator at normal temperature is maintained at 30% to 40%RH, and is perfect for long-term storage.
- Functions and strength are improved markedly by combining molded parts.
- Dehumidification capability is improved substantially by adoption of a fan for inside air circulation convection flow.
- Shelf plates can be adjusted in 15 steps at 28mm intervals to match the size of the stored items.
- Slim vertical type design does not take up space.



0003

External dimensions	312 (W) x 390 (D) x 617 (H) mm
Effective inner dimensions	255 (W) x 332 (D) x 428 (H) mm
Dehumidifier	Solid molecular electrolytic film
Dehumidification capacity	4g/day*
Humidity control method	ON-OFF control
The humid. control range	30% RH to atmospheric humidity
Humidity sensor	Capacitance type polymer sensor
Humidity sensor accuracy	±3% RH (25°C, 5 to 95% RH)
Power source	Single-phase AC100V 50 160Hz
Power consumption	8W
Weight	Approx.7kg
Operating ambient temp.	o to 40°C

• This is an initial value at 30°C of temperature, 60% of humidity, and in RH. (Dehumidification capacity declines gradually as use. Please be informed that the degree of deterioration varies with the operating environment or conditions.)

Model	Type
0003	Latch door type Shelf plate 3 plates
0010	Latch door type Shelf plate 2 plates

Note: - We only have 100V specification. - It requires additional transformer in order to use it in other countries.



DYCD-60

DYCM/DYCD/DYCDE-60/80/100/120/140/180, Small Dry Cabinets (led display)

Features:

- Material: 1.0mm thick Cold-rolled Steel
- DYCM-Series: 20-60%RH
DYCD-Series: 10-20%RH
DYCDE-Series: 1-10%RH adjustable LED display, and control with Computer Interface, (Record Humidity and Temperature inside Cabinet)
- Door frame covered with magnet rubber
- Special desiccant in DRY-UNIT is semi-permanent
- Humidity controller maintains stable constant humidity
- Sturdy and durable shelf is movable up and down & slip layer board make the interspaces adjustable
- Energy saving design: low electricity consumption resurgence, no heating, no condensation dripping, absence of fan noise.



DYCD-140

Applications (Storing):

Photographic & Optic Lens, Cameras or Digital Photography, Audiovisual, Paper Materials, Films, etc.

Model	DYCM-60 DYCD-60 DYCDE-60	DYCM-80 DYCD-80 DYCDE-80	DYCM-100 DYCD-100 DYCDE-100	DYCM-120 DYCD-120 DYCDE-120	DYCM-140 DYCD-140 DYCDE-140	DYCM-180 DYCD-180 DYCDE-180
Power Supply	220/110V 50/60Hz					
Capacity (L)	65	84	115	128	147	189
Shelf (PCS)	1	2	2	3	4	5
Outer Size (mm) WxDxH	400x400x475	400x400x620	400x400x760	400x400x865	400x400x1015	400x400x1315
Inner Size (mm) WxDxH	398x375x400	398x375x545	398x375x685	398x375x790	398x375x940	398x375x940



DYCD-160

DYCM/DYCD/DYCDE-160/240, Large Dry Cabinets (led display)

Features:

- DYCM-Series: 20-60%RH
DYCD-Series: 10-20%RH
DYCDE-Series: 1-10%RH adjustable LED display, and control with Computer Interface, (Record Humidity and Temperature inside Cabinet)
- Conveniently display temperature(Left/Green) and humidity (Right/Red)
- Using 1.0mm Cold-rolled Steel, 3.2mm tempered glass, lock-key handle
- Door frame covered with magnet rubber keeps reliable air tightnes
- Special desiccant in DRY-UNIT is semi-permanent
- Humidity controller maintains stable constant humidity
- Operation in normal temperature, noiseless, long life 240L Capacity:

DYCD-240



Applications (Storing):

Photographic & Optic Lens, Films, Cameras or Digital Photography, Audiovisual, Paper Materials, Precise Instruments, Chemical & Medical Materials, PCB, IC, Electronic Components, etc.

- Cost lowering through nitrogen (N2) gas replacement and combination N2 with other substance
- Sturdy and durable shelf is movable up and down and slip layer board make the interspaces adjustable
- Energy saving design: low electricity consumption resurgence, no heating, no condensation dripping, absence of fan noise.

Model	DYCM-180 DYCD-180 DYCDE-180	DYCM-240 DYCD-240 DYCDE-240
Power Supply	220/110V 50/60Hz	
Capacity (L)	160	240
Shelf (PCS)	3	3
Outer Size (mm) WxDxH	450x450x1030	600x400x1265
Inner Size (mm) WxDxH	448x422x848	598x370x1083



DYCM/DYCD/DYCDE-320/435/540, Industrial Dry Cabinets

Features:

- DYCM-Series: 20-60%RH
DYCD-Series: 10-20%RH
DYCDE-Series: 1-10%RH adjustable LED display, and control with Computer Interface, (Record Humidity & Temperature inside Cabinet)
- Conveniently display temperature (Left/Green) and humidity (Right/Red)
- Using 1.0 and 1.2mm Cold-rolled Steel, 3.2mm tempered glass, lock-key handle
- Door frame covered with magnet rubber keeps reliable air tightness
- Special desiccant in DRY-UNIT is semi-permanent

- Humidity controller maintains stable constant humidity Capacity: 540L
- Operation in normal temperature, noiseless, long life
- Cost lowing through nitrogen (N2) gas replacement and combination N2 with other substance
- Sturdy and durable shelf is movable up and down and slip layer board make the interspaces adjustable
Energy saving design: low electricity consumption resurgence, no heating, no condensation dripping, absence of fan noise.



Applications (Storing): Photographic & Optic Lens, Films, Cameras or Digital Photography, Audiovisual, Paper Materials, Precise Instruments, Chemical & Medical Materials, PCB, IC, Electronic Components, etc.

Model	DYCM-320 DYCD-320 DYCDE-320	DYCM-435 DYCD-435 DYCDE-435	DYCM-540 DYCD-540 DYCDE-540
Power Supply	220/110V 50/60Hz		
Capacity (L)	320	435	540
Shelf (PCS)	3	3	3
Outer Size (mm) WxDxH	900x450x1030	900x600x1030	600x750x1500
Inner Size (mm) WxDxH	898x420x848	898x570x848	598x720x1318



DYCM/DYCD/DYCDE-728/870/1428, Industrial Dry Cabinets

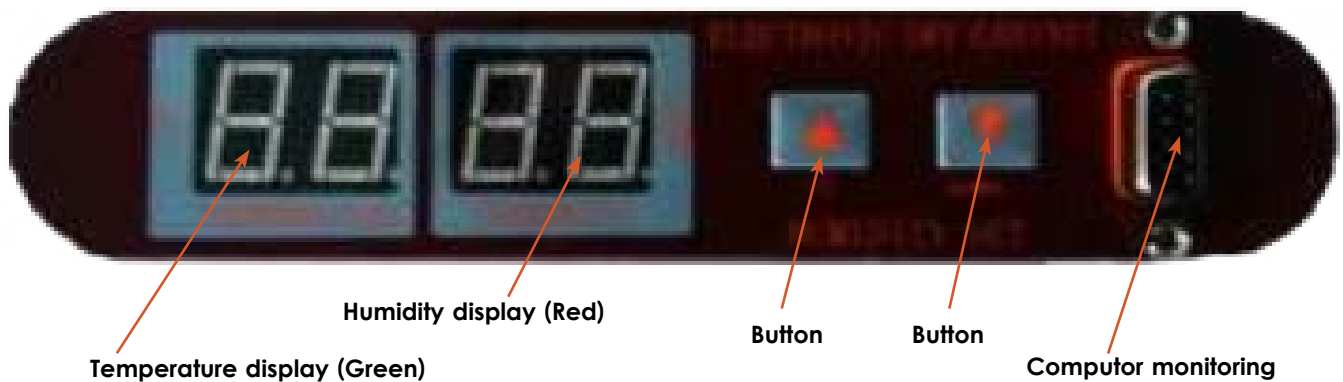
Features:

- DYCM-Series: 20-60%RH
DYCD-Series: 10-20%RH
DYCDE-Series: 1-10%RH adjustable LED display, and control with Computer Interface, (Record Humidity & Temp. inside Cabinet)
- Conveniently display temp. (Left/Green) and humidity (Right/Red)
- Using 1.0 and 1.2mm Cold-rolled Steel, 3.2mm tempered glass, lock-key handle
- Door frame covered with magnet rubber keeps reliable air tightnes
- Special desiccant in DRY-UNIT is semi-permanent
- Humidity controller maintains stable constant humidity
- Operation in normal temperature, noiseless, long life Capacity: 1428L
- Cost lowing through nitrogen (N2) gas replacement and combination N2 with other substance



Model	DYCM-728-2 DYCD-728-2 DYCDE-728-2	DYCM-728-3 DYCD-728-3 DYCDE-728-3	DYCM-870 DYCD-870 DYCDE-870	DYCM-1428-4 DYCD-1428-4 DYCDE-1428-4	DYCM-1428-6 DYCD-1428-6 DYCDE-1428-6
Power Supply	220/110V 50/60Hz				
Capacity (L)	728	728	870	1428	1428
Shelf (PCS)	5				
Outer Size (mm) WxDxH	600x710x1920	600x710x1920	900x600x1880	1200x710x1920	1200x710x1920
Inner Size (mm) WxDxH	598x680x1738	598x680x1738	898x570x1698	1198x680x1738	1198x680x1738

LED Display board:



Working principle:

Defumidifying Principle (Desiccant System)

Thick Heat-extension memory alloy realizes trouble free operation

The diagram illustrates the defumidifying principle. It shows a cross-section of the unit with a desiccant bed at the bottom. A shape-memory spring and a bias-spring are positioned above the desiccant. An IC timer controls the system. Arrows indicate the flow of air from the room humidity through the desiccant and out through the exhaust. The unit includes an inner shutter, an outer shutter, and a heater.

An exclusive high performance dry unit is set in Tongrun-Dry-Cabinet. Special desiccant(exchange free)in the unit absorbs and emits the humidity alternately in accordance with the moves of Shape-memory alloy. The alloy is elastic with the humidity level which is controlled by IC timer.

Auto nitrogen cabinets (Optional):

Features:

- LED display, 1-60%RH adjustable, the relative humidity deviation is $\pm 2\%$ RH
- Using 1mm and 1.2mm cold rolled plate of steel, reinforcing structure design, high intensity bearing
- Using 3.2mm toughened glass
- Zinc alloy lock with pressure press
- High intensity truckle with brake
- Using advanced powder coating technology with DuPont powder, high anti-erosion performance, and the surface powder coating has acquired ROHS certification, the technology which can avoid your stored goods from pollution
- For storing and keeping moisture sensitive device(MSD) and oxygen sensitive device(OSD)
- Fast dehumidifying speed, the humidity of inner cabinet can drop down under 10%RH in several minutes.
- Using micro-controller unit (MCU) to acquire digital data and real time control the nitrogen gas supply. When the humidity is below the set point value, the system will switch off the nitrogen gas supply. Once the humidity is higher than the set point value, the system will switch on the nitrogen gas supply. It will economize nitrogen gas.

DRY CABINETS Steel Housing

DYCM/DYCD/DYCDE Series, Dry Cabinets

Storing: photographic & optic lens, cameras or digital photography, audiovisual, precise instruments, food, paper materials, chemical and medical materials, films, etc.

Features: Material: 1.0mm thick steel.

Humidity Range: **DYCDG Series: 1%–60% RH.**

- Color: Black – ESD Color. Package: Wooden
- Life-time free moistureproofing consultation
- LED display; conveniently display temperature (Left/Green) and humidity (Right/Red)
- Using 1.0mm Cold-rolled Steel, 3.2mm tempered glass, lock-key handle
- With Nitrogen flow meter placed on the back of cabinet
- Humidity controller maintains stable constant humidity
- Operation in normal temperature, noiseless, long life
- Sturdy and durable shelf is movable up and down and slip layer board make the interspaces adjustable
- Energy saving design: low electricity consumption resurgence, no heating, no condensation dripping, absence of fan noise.



<p>DYCDG-160 Ex: W450xD450xH1030mm In: W448xD422xH848mm Capacity: 160L Drawer: 3 Pcs Cons: 26W</p>	<p>DYCDG-240 Ex: W600xD400xH1265mm In: W598xD370xH1083mm Capacity: 240L Drawer: 3 Pcs Cons: 26W</p>	<p>DYDG-320 Ex: W900xD450xH1030mm In: W898xD420xH848mm Capacity: 320L Drawer: 3 Pcs Cons: 26W</p>	<p>DYCDG-435 Ex: W900xD600xH1030mm In: W898xD570xH848mm Capacity: 435L Drawer: 3 Pcs Cons: 26W</p>
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<p>DYCDG-540 Ex: W600xD750xH1500mm In: W598xD720xH1318mm Capacity: 540L Drawer: 3 Pcs Cons: 26W</p>	<p>DYCDG-728-2 Ex: W600xD710xH1920mm In: W598xD680xH1738mm Capacity: 728L Drawer: 5 Pcs Cons: 26W</p>	<p>DYCDG-1428-6 Ex: W1200xD700xH1920mm In: W1198xD680xH1738mm Capacity: 1428L Drawer: 5 Pcs Cons: 26W</p>	<p>DYCDG-1428-4 Ex: W1200xD710xH1920mm In: W1198xD680xH1738mm Capacity: 1428L Drawer: 5 Pcs Cons: 26W</p>
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