

# Desiccators

Vacuum Desiccators

Desiccators

Auto-desiccator Cabinets



Product Name	Vacuum Desiccator			Desiccator	Auto-desiccator Cabinet
	Cubic Model	Round Model	Cylindrical Model	Cubic Model	
Model	VDC	VDR	VDP	SDC	DC
Internal volume (L)	11, 23, 35, 45	6, 10, 20	16, 25	35, 50	150, 300, 600
Vacuum range	Maximum vacuum of 1 Torr (1.33×10 <sup>-4</sup> Mpa) for more than 72 hours.			-	-
Body material	Polycarbonate			Polycarbonate	Stainless steel, Powder coated steel
UV block model selection	0			0	-
Vacuum gauge	0	0 (optional)		-	-
Description	•High quality silicone gasket for greaseless airtight seal. •Three different shapes for storing various samples.			•Stackable space saving design. •Efficient internal space use by the provided shelves.	•Designed for storing humidity-sensitive samples. •Built in electronic dry unit for maintaining constant interior humidity without desiccant use.



## Features

- Maximum vacuum of 1 Torr( $1.33 \times 10^{-4}$  Mpa) for more than 72 hours.
- High quality silicone gasket ensures greaseless airtight seal for the clean and cost effective test environment.
- Highly transparent, shatterproof, non-corrosive, and easy to clean polycarbonate construction.
- Three-way stopcock provides great convenience for consistent and uniform vacuum draw, vacuum release, or gas exchange. The barbed fitting on each side secures attachment of tubing.
- Maximized utilization of internal space using maximum four to six shelves depending on product sizes.
- Stackable space-saving design allowing efficient usage of cramped lab space.
- Easy vacuum level checking with the standard vacuum gauge attached to the front door.
- Minimizing damages or discoloration of light-sensitive samples. (for U models)
- Four built-in ports allowing easy attachment of tubing.

Integrally molded cubic box design enabling outstanding vacuum capability with virtually no leakage and exceptional durability.

Various models available with respect to sizes and UV-blocking effect.



## VDC-31

**Standard accessories**  
see page 35

- Vacuum gauge
- Drying agent tray
- Perforated sample trays
- Stopcock

\* Above products design can be changed without prior notice.

Model <sup>1)</sup>		VDC-11/11U	VDC-21/21U	VDC-31/31U	VDC-41/41U
Internal volume (L / cu ft)		11 / 0.4	23 / 0.8	35 / 1.2	45 / 1.6
Gauge range (Mpa)		0 to -0.1			
Nozzle (mm / inch, Ø)		9.5 / 0.37			
Max. permissible vacuum (bodies)		$1.33 \times 10^{-4}$ Mpa			
Max. load (kg / lbs) per shelf		3 / 6.6	5 / 11		
Number of shelves (standard / max.)		2 / 4		3 / 5	3 / 6
Material	Body	Polycarbonate			
	Perforated sample tray				
	Drying agent tray / Locker	Polypropylene			
	Vacuum seal	Silicone rubber			
Dimension (WxDxH)	Interior (mm / inch)	248x254x238 / 9.8x10x9.4	346x365x246 / 13.6x14.4x9.7	355x375x345 / 14 x 14.8 x 13.6	355x374x445 / 14x14.7x17.5
	Exterior (mm / inch)	322x285x271 / 12.7x11.2x10.7	420x397x281 / 16.5x15.6x11.1	420x397x381 / 16.5x15.6x15	420x397x491 / 16.5x15.6x19.3
Net weight (kg / lbs)		4.2 / 9.3	8.2 / 18.1	10.8 / 23.8	12.2 / 26.9
Cat. No.	without UV block effect	AAAD4001	AAAD4021	AAAD4011	AAAD4031
	with UV block effect (U)	AAAD4101	AAAD4121	AAAD4111	AAAD4131

1) U models are translucent(amber-colored) vacuum desiccators with ultraviolet block effect.

\* RoHS except for VDC-U models.

\* FDA establishment registered company. FDA listed products.

## Vacuum Desiccators (Round Models)



Round design featuring light weight yet high tensile strength.

High-quality silicone O-ring and specially designed 'Locking Clip' allowing outstanding vacuum capability with virtually no leakage.



### Features

- Maximum vacuum of 1 Torr ( $1.33 \times 10^{-4}$  Mpa) for more than 72 hours.
- High quality silicone gasket ensures greaseless airtight seal for the clean and cost effective test environment.
- Highly transparent, shatterproof, non-corrosive, and easy to clean polycarbonate construction.
- Three-way stopcock provides great convenience for consistent and uniform vacuum draw, vacuum release, or gas exchange. The barbed fitting on each side secures attachment of tubing.
- Flange lock holding the top and the bottom together during non-vacuum conditions.
- Various models available with respect to sizes and UV-blocking effect.
- Minimizing damages or discoloration of light-sensitive samples (for U/UG models).
- A vacuum gauge attachable at the center of the lid for easy vacuum level checking (for G/UG models).
- The top and bottom of round vacuum desiccators and cylindrical vacuum desiccators are compatible with each other for diverse use.

## VDR-25G

**Standard accessories**  
see page 35

- Drying agent tray
- Perforated sample trays
- Flange locker
- Stopcock

※ Above products design can be changed without prior notice.

Model <sup>1)</sup>		VDR-20/20G VDR-20U/20UG	VDR-25/25G VDR-25U/25UG	VDR-30/30G VDR-30U/30UG
Internal volume (L / cu ft)		6 / 0.2	10 / 0.4	20 / 0.7
Gauge range (Mpa)		0 to -0.1		
Nozzle (mm / inch, Ø)		9.5 / 0.37		
Max. permissible vacuum (Bodies)		$1.33 \times 10^{-4}$ Mpa		
Material	Lid / Bottom	Polycarbonate		
	Perforated sample tray	Polypropylene		
	Drying agent tray			
	Locker	Polypropylene		
	Vacuum seal	Silicone rubber		
Dimension (I.D. × H)	Exterior (mm / inch)	ø242×279(354) / ø9.5×11(13.9)	ø308×325(400) / ø12.1×12.8(15.7)	ø385×399(475) / ø15.2×15.7(18.7)
	Net weight (kg / lbs)	1.5 / 3.3	2.5 / 5.5	4.2 / 9.3
Cat. No.	Clear body	AAAD2011	AAAD2111	AAAD2211
	Clear body with vacuum gauge (G)	AAAD2021	AAAD2121	AAAD2221
	UV block effect body(U)	AAAD2031	AAAD2131	AAAD2231
	UV block effect body with Vacuum gauge(UG)	AAAD2041	AAAD2141	AAAD2241

1) G models come standard with a vacuum gauge

U models are translucent(amber-colored) vacuum desiccators with ultraviolet block effect.

※ RoHS except for VDR-U models.

※ FDA establishment registered company. FDA listed products.



## Features

- Maximum vacuum of 1 Torr ( $1.33 \times 10^{-4}$  Mpa) for more than 72 hours.
- High quality silicone gasket ensures greaseless airtight seal for the clean and cost effective test environment.
- Highly transparent, shatterproof, non-corrosive, and easy to clean polycarbonate construction.
- Three-way stopcock provides great convenience for consistent and uniform vacuum draw, vacuum release, or gas exchange. The barbed fitting on each side secures attachment of tubing.
- Flange lock holding the top and the bottom together during non-vacuum conditions.
- Various models available with respect to sizes and UV-blocking effect.
- Minimizing damages or discoloration of light-sensitive samples (for U/UG models).
- A vacuum gauge attachable at the center of the lid for easy vacuum level checking (for G/UG models).
- The top and bottom of cylindrical vacuum desiccators and round vacuum desiccators are compatible with each other for diverse use.

Newly designed cylindrical desiccators are used by ideal for storing tall equipment, gas substitution, general drying and preserving.



## VDP-30

### Standard accessories see page 35

- Perforated sample trays
- Flange locker
- Stopcock

\* Above products design can be changed without prior notice.

Model <sup>1)</sup>		VDP-25/25G VDP-25U/25UG	VDP-30/30G VDP-30U/30UG
Internal volume (L / cu ft)		16 / 0.6	25 / 0.9
Gauge range (Mpa)		0 to -0.1	
Nozzle (mm / inch, Ø)		9.5 / 0.37	
Max. permissible vacuum (Bodies)		$1.33 \times 10^{-4}$ Mpa	
Material	Body / Base	Polycarbonate	
	Perforated sample tray		
	Locker	Polypropylene	
	Vacuum seal	Silicone rubber	
Dimension (I.D. × H)	Exterior (mm / inch)	ø308×374(449) / ø12.1×14.7(17.7)	ø385×384(459) / ø15.2×15.1(18.1)
	Net weight (kg / lbs)	2.7 / 5.9	
Cat. No.	Clear body	AAAD3011	AAAD3021
	Clear body with Vacuum gauge (G)	AAAD3111	AAAD3121
	UV block effect body(U)	AAAD3211	AAAD3221
	UV block effect body with Vacuum gauge(UG)	AAAD3311	AAAD3321

1) G models come standard with a vacuum gauge

U models are translucent(amber-colored) vacuum desiccators with ultraviolet block effect.

\* RoHS except for VDP-U models.

\* FDA establishment registered company. FDA listed products.

## Desiccators (Cubic Models)



Stackable unit design provides space efficiency in daily use.

Transparent polycarbonate desiccators are designed for easy viewing of desiccant and vessels.



### Features

- One molded design enables virtually no leakage and exceptional durability.
- High quality silicone gasket ensures greaseless airtight seal for the clean and cost effective test environment.
- Highly transparent, shatterproof, non-corrosive, and easy to clean polycarbonate construction.
- Maximized utilization of internal space using maximum three to five shelves depending on product sizes.
- Stackable space-saving design allowing efficient usage of cramped lab space.
- Easy humidity level checking with the hygrometer attached to the front door.
- Minimizing damages or discoloration of light-sensitive samples. (for U models)

## SDC-45

**Standard accessories**  
see page 33

- Hygrometer
- Drying agent tray
- Perforated sample tray
- Perforated sample drawer

※ Above products design can be changed without prior notice.

Model <sup>1)</sup>		SDC-30/30U	SDC-45/45U
Internal volume (L / cu ft)		35 / 1.2	50 / 1.8
Max. load (kg / lbs) per shelf or drawer		5 / 11	
Number of shelves (Standard / max.)		1 / 3	2 / 5
Number of drawers (Standard / max.)		1 / 3	1 / 5
Material	Body	Polycarbonate	
	Perforated sample tray		
	Perforated sample drawer		
	Drying agent tray / Locker	Polypropylene / Stainless steel	
	Seal	Silicone rubber	
Dimension (W×D×H)	Internal (mm / inch)	322×367×302 / 12.7×14.4×11.9	322×367×422 / 12.7×14.4×16.6
	Exterior (mm / inch)	360×410×326 / 14.1×16.1×12.8	360×410×447 / 14.1×16.1×17.6
Net weight (kg / lbs)		4.9 / 10.8	6.2 / 13.7
Cat. No.	without UV block effect	AAAD5011	AAAD5021
	with UV block effect (U)	AAAD5111	AAAD5121

1) U models are translucent(amber-colored) desiccators with ultraviolet block effect.

※ FDA establishment registered company. FDA listed products.


Drying agent tray  
for VDC

Perforated sample tray  
for VDC

Drying agent tray  
for VDR

Perforated sample tray  
for VDR

### for Vacuum Desiccators (Cubic models)

Cat. No.	Description	VDC-11/11U	VDC-21/21U	VDC-31/31U	VDC-41/41U
VDC0035	Perforated sample tray	•	-	-	-
VDC0003		-	•	•	•
VDC0037	Drying agent tray	•	-	-	-
VDC0005		-	•	•	•
VDC0032	Vacuum seal	•	-	-	-
VDC0033		-	•	-	-
VDC0015		-	-	•	-
VDC0034		-	-	-	•
AAAD4501	Stopcock	•	•	•	•
EDA4301	Vacuum gauge	•	•	•	•

### for Vacuum Desiccators (Round & Cylindrical models)

Cat. No.	Description	VDR-20/20G VDR-20U/20UG	VDR-25/25G VDR-25U/25UG	VDR-30/30G VDR-30U/30UG	VDP-25/25G VDP-25U/25UG	VDP-30/30G VDP-30U/30UG
AAAD1501	Drying agent tray	•	-	-	-	-
AAAD1502		-	•	-	•	-
AAAD1503		-	-	•	-	•
AAAD1511	Perforated sample tray	•	-	-	-	-
AAAD1512		-	•	-	-	-
AAAD1513		-	-	•	-	-
AAAD3511		-	-	-	•	-
AAAD3512		-	-	-	-	•
VDR0001	Vacuum seal	•	-	-	-	-
VDR0002		-	•	-	•	-
VDR0003		-	-	•	-	•
VDR0015	Flange locker	•	-	-	-	-
VDR0016		-	•	-	•	-
VDR0017		-	-	•	-	•
AAAD1521	Stopcock	•	•	•	-	-
AAAD3501		-	-	-	•	•
EDA4302	Vacuum gauge	•	•	•	•	•



## Auto-desiccator Cabinets

Humidity-sensitive samples are safely stored in our reliable auto-desiccator cabinet.

Suitable for storing various products such as historical document, optical lens and film, electronic components, seeds, all kinds of reference samples.



### DC-11 / DC-41

#### Standard accessories

- Dry unit, Shelves (epoxy powder coated steel)
- Door key

#### Optional accessories

- Shelves (stainless steel)

see page 37

### Relative Humidity & Application

Relative Humidity	Application
45 to 60% RH	Painting, Stamps, Photographs, Antiques, Documents, etc.
40 to 45% RH	Camera, Lens, Microscopes, Films, Telescopes, Computer commodities, Audiotapes, Videotapes, Sliders, CDs, DVDs, etc.
30 to 40% RH	Semiconductor, Electronic components, IC components, PCB, Precision instruments, Electrical materials, Chemical materials, Industrial materials, etc.
Below 30% RH	Semiconductor components, Ceramic powders, Seeds, Spices, Samples, Reagents, Laboratory samples, etc.



Height-adjustable shelves



Clear observation



Display



Casters



Door lock



Holes for stacking

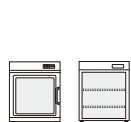
## Performance

- Auto-electronic dry unit.
- Desiccant is not required at all. Interior humidity is automatically controlled by electronic dry unit, highly beneficial for easy maintenance.
- Constant low interior humidity in the range of 20% and 60%.
  - Humidity can be reached down to 20% RH within 8 hours. (under Ambient temperature of 25 °C, 60% RH and no load)
  - Setting humidity by 1% increment is available.

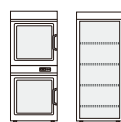
## Convenience & Safety

- Temperature and humidity display.
- Interior temperature and humidity are indicated on display in real time.
  - \* Temp. is only indicated, not for control. Humidity is indicated and also controlled as well.
- Easy installation and relocation.
- Casters for easy mobility during installation or relocation. (for DC-41)

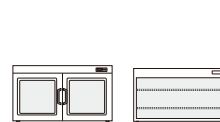
- Height-adjustable shelves.
- High-grade steel with corrosion resistant epoxy power coated surface.
- Maximized utilization of internal space by using height-adjustable shelves.
- Sturdy heavy load shelves sustain maximum 20kg sample loading.
- Clear observation of samples.
  - Transparent acryl window provides a clear view of samples in the chamber.
  - DC-11 has transparent acryl windows on three sides, beneficial for wider view of inner chamber.
- Space saving double-stacked cabinets. (for DC-11, DC-21S)
  - Foot holes on the top of the cabinet enables stable stacking.
  - Stackable space-saving design allowing efficient usage of cramped space.
- Built in door lock device for safe sample storage.



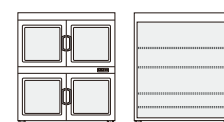
Outside / Inside



Outside / Inside



Outside / Inside



Outside / Inside

Model		DC-11	DC-21L	DC-21S	DC-41
Control range		20 to 60%RH (1% scale)			
Internal volume (L / cu ft)		150 / 5.3	300 / 10.6	300 / 10.6	600 / 21.2
Number of shelf		1	2	2	4
Stackable type		Yes	No	Yes	No
Quantity of shelves (standard/max.)		2 / 10	4 / 19	2 / 10	4 / 19
Distance of between shelves (mm / inch)		32 / 1.3	39 / 1.5	32 / 1.3	39 / 1.5
Max. load per shelf (kg / lbs)		20 / 44.1			
Dimension (WxDxH) (mm / inch)	Interior	470x499x500 / 18.5x19.6x19.7	470x599x561 / 18.5x23.6x22.1 (upper) 470x499x561 / 18.5x19.6x22.1 (lower)	1070x499x498 / 42.1x19.6x19.6	1070x599x561 / 42.1x23.6x22.1 (upper) 1070x499x561 / 42.1x19.6x22.1 (lower)
	Exterior	550x700x653 / 21.7x27.6x25.7	547x700x1280 / 21.5x27.6x50.4	1140x700x653 / 44.9x27.6x25.7	1140x700x1140 / 44.9x27.6x44.9
Net weight (kg / lbs)		36 / 79.4	56.5 / 124.6	58 / 127.9	110 / 242.5
Electrical requirements (230V, 50/60Hz)		2.0A	2.0A	2.0A	2.0A
Cat. No.		AAHF70115K	AAHF70215K	AAHF71215K	AAHF70415K
Electrical requirements (120V, 60Hz)		4.0A	4.0A	4.0A	4.0A
Cat. No.		AAHF70115U	AAHF70215U	AAHF71215U	AAHF70415U

\* Temperature is only indicated in Celsius. Conversion to Fahrenheit is not available.

## Accessories & Options

Cat. No.	Description		Suitable for
	Material	Dimension (WxD, mm / inch)	
AAAF7501	Shelves, Epoxy powder coated steel	462x479 / 18.2x18.9	DC-11
AAAF7502		462x579 / 18.2x22.8	DC-21L lower chamber <sup>1)</sup>
AAAF7503		1063x465 / 41.9x18.3	DC-21L upper chamber <sup>1)</sup>
AAAF7504		1063x550 / 41.9x21.7	DC-21S
AAAF7511	Shelves, Stainless steel	462x479 / 18.2x18.9	DC-41 lower chamber <sup>1)</sup>
AAAF7512		462x579 / 18.2x22.8	DC-41 upper chamber <sup>1)</sup>
AAAF7513		1063x465 / 41.9x18.3	DC-11
AAAF7514		1063x550 / 41.9x21.7	DC-21L lower chamber <sup>1)</sup>
			DC-21L upper chamber <sup>1)</sup>
			DC-21S
			DC-41 lower chamber <sup>1)</sup>
			DC-41 upper chamber <sup>1)</sup>

1) Due to the location of dry unit in the lower chamber, the size of shelves is different. (for DC-21L, DC-41)