



Protect your samples from moisture

# Lab Companion Desiccator



제이오텍 회사소개



# Vacuum Desiccator

## Cubic type



### Optimum choice for dehumidification in vacuum state



Cubic type: VDC-11/21/31/41

> **1 Torr, maintained for 72 hours**

Maximum vacuum of 1 Torr ( $1.33 \times 10^{-4}$  Mpa) for more than 72 hours.

> **Solid integral structure**

Made of integral mold to minimize leakage and there is no warping even in repeated high vacuum conditions.

> **Transparent observation environment**

Highly transparent, shatterproof, non-corrosive, and easy to clean polycarbonate construction.



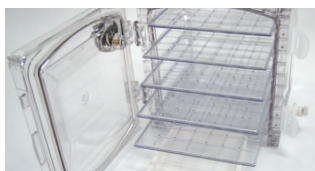
**Useful 3-way valve**

Convenient and useful valve structure for vacuum formation, remove and gas substitution replacement.



**Multi-level stacking**

Stable multi-level loading to maximize space efficiency.



**Height-adjustable shelves (VDC series)**

Height-adjustable shelf structure for convenient loading of various samples.



**UV blocking model (-U model)**

Vacuum storage of light-sensitive samples. (RoHS except for -U model)

Model	Clear type	VDC-11	VDC-21	VDC-31	VDC-41
	UV protection	VDC-11U	VDC-21U	VDC-31U	VDC-41U
<b>Internal volume (L / cu ft)</b>		11 / 0.4	23 / 0.8	35 / 1.2	45 / 1.6
<b>Vacuum</b>	Gauge range (Analog) (Mpa)	0 to -0.1	0 to -0.1	0 to -0.1	0 to -0.1
	Max. permissible vacuum (Body) (Mpa)	$1.33 \times 10^{-4}$ (1 Torr)	$1.33 \times 10^{-4}$ (1 Torr)	$1.33 \times 10^{-4}$ (1 Torr)	$1.33 \times 10^{-4}$ (1 Torr)
<b>Dimension</b>	Internal (W x D x H, mm / inch)	248 x 254 x 238 / 9.8 x 10 x 9.4	346 x 365 x 246 / 13.6 x 14.4 x 9.7	355 x 375 x 345 / 14 x 14.8 x 13.6	355 x 374 x 445 / 14 x 14.7 x 17.5
	Overall (W x D x H, mm / inch)	322 x 285 x 271 / 12.7 x 11.2 x 10.7	420 x 397 x 281 / 16.5 x 15.6 x 11.1	420 x 397 x 381 / 16.5 x 15.6 x 15	420 x 397 x 491 / 16.5 x 15.6 x 19.3
	Perforated shelf (W x D x H, mm / inch)	202 x 204 x 6.5 / 7.95 x 8.0 x 0.3	289 x 304 x 11 / 11.4 x 12.0 x 0.4	289 x 304 x 11 / 11.4 x 12.0 x 0.4	289 x 304 x 11 / 11.4 x 12.0 x 0.4
	Desiccant tray (W x D x H, mm / inch)	158 x 194 x 24 / 6.2 x 7.6 x 0.9	218 x 268 x 26 / 8.6 x 10.6 x 1.0	218 x 268 x 26 / 8.6 x 10.6 x 1.0	218 x 268 x 26 / 8.6 x 10.6 x 1.0
	Nozzle dia. (mm / inch)	9.5 / 0.37	9.5 / 0.37	9.5 / 0.37	9.5 / 0.37
	Net weight (kg / lbs)	4.2 / 9.3	8.2 / 18.1	10.8 / 23.8	12.2 / 26.9
<b>Shelves</b>	Quantity of shelves (standard/max.)	2 / 4	2 / 4	3 / 5	3 / 6
	Max. load per shelf (kg / lbs)	3 / 6.6	5 / 11.0	5 / 11.0	5 / 11.0
<b>Cat. No.</b>	<b>Clear type</b>	<b>AAAD4001</b>	<b>AAAD4021</b>	<b>AAAD4011</b>	<b>AAAD4031</b>
	<b>UV protection</b>	<b>AAAD4101</b>	<b>AAAD4121</b>	<b>AAAD4111</b>	<b>AAAD4131</b>

# Vacuum Desiccator Round type



## > 1 Torr, maintained for 72 hours

Maximum vacuum of 1 Torr ( $1.33 \times 10^{-4}$  Mpa) for more than 72 hours.

## > Solid integral structure

Made of integral mold to minimize leakage and there is no warping even in repeated high vacuum conditions.

## > Transparent observation environment

Highly transparent, shatterproof, non-corrosive, and easy to clean polycarbonate construction.



### Useful 3-way valve

Convenient and useful valve structure for vacuum formation, remove and gas substitution replacement.



### Vacuum gauge (-G/-UG Model)

Easy to check the degree of vacuum due to the vacuum gauge on the top.



### Locker

Conveniently and safely fixed at normal pressure when used or transported.



### UV blocking model (-U model)

Vacuum storage of light-sensitive samples. (RoHS except for -U model)

Model <sup>1), 2)</sup>	Clear type	VDR-20 (20G)	VDR-25 (25G)	VDR-30 (30G)
	UV protection	VDR-20U (20UG)	VDR-25U (25UG)	VDR-30U (30UG)
<b>Internal volume (L / cu ft)</b>		6 / 0.2	10 / 0.4	20 / 0.7
<b>Vacuum</b>	Gauge range (Analog) (Mpa)	0 to -0.1	0 to -0.1	0 to -0.1
	Max. permissible vacuum (Body) (Mpa)	$1.33 \times 10^{-4}$ (1 Torr)	$1.33 \times 10^{-4}$ (1 Torr)	$1.33 \times 10^{-4}$ (1 Torr)
<b>Dimension</b>	Overall (Ø x H, mm / inch) <sup>3)</sup>	242 x 279 (242 x 354) / 9.5 x 11 (9.5 x 13.9)	308 x 325 (308 x 400) / 12.1 x 12.8 (12.1 x 15.7)	385 x 399 (385 x 475) / 15.2 x 15.7 (15.2 x 18.7)
	Desiccant tray (W x D, mm / inch)	159 x 31 / 6.3 x 1.2	220 x 29 / 8.7 x 1.1	276 x 34 / 10.9 x 1.3
	Nozzle dia. (mm / inch)	9.5 / 0.37	9.5 / 0.37	9.5 / 0.37
	Net weight (kg / lbs) <sup>3)</sup>	1.5 (1.7) / 3.3 (3.7)	2.5 (2.6) / 5.5 (5.7)	4.2 (4.3) / 9.3 (9.5)
<b>Shelves</b>	Perforated shelf (Ø, mm / inch)	192 / 7.6	250 / 9.8	310 / 12.2
	Max. load per shelf (kg / lbs)	15 / 33.1	20 / 44.1	25 / 55.1
<b>Cat. No.</b>	<b>Clear type, without vacuum gauge</b>	<b>AAAD2011</b>	<b>AAAD2111</b>	<b>AAAD2211</b>
	<b>Clear type, with vacuum gauge (G type)</b>	<b>AAAD2021</b>	<b>AAAD2121</b>	<b>AAAD2221</b>
	<b>UV protection, without vacuum gauge (U type)</b>	<b>AAAD2031</b>	<b>AAAD2131</b>	<b>AAAD2231</b>
	<b>UV protection, with vacuum gauge (UG type)</b>	<b>AAAD2041</b>	<b>AAAD2141</b>	<b>AAAD2241</b>

1) The last letter G in model names means that the model has a vacuum gauge.

2) The last letter U in model names means that it is a UV blocking model.

3) The dimension in parentheses is for -G/-UG Model.

# Vacuum Desiccator Cylinder type



VDP-30G



VDP-30UG



## > 1 Torr, maintained for 72 hours

Maximum vacuum of 1 Torr ( $1.33 \times 10^{-4}$  Mpa) for more than 72 hours.

## > Solid integral structure

Made of integral mold to minimize leakage and there is no warping even in repeated high vacuum conditions.

## > Transparent observation environment

Highly transparent, shatterproof, non-corrosive, and easy to clean polycarbonate construction.



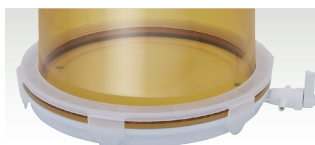
### Useful 3-way valve

Convenient and useful valve structure for vacuum formation, remove and gas substitution replacement.



### Height-adjustable shelf (2 level<sup>1)</sup>)

Stable multi-level loading to maximize space efficiency.



### Locker

Conveniently and safely fixed at normal pressure when used or transported.



### UV blocking model (-U model)

Vacuum storage of light-sensitive samples. (RoHS except for -U model)

Model <sup>(2), 3)</sup>	Clear type	VDP-25 (25G)	VDP-30 (30G)
	UV protection	VDP-25U (25UG)	VDP-30U (30UG)
<b>Internal volume (L / cu ft)</b>		16 / 0.6	24.9 / 0.9
<b>Vacuum</b>	Gauge range (Analog) (Mpa)	0 to -0.1	0 to -0.1
	Max. permissible vacuum (Body) (Mpa)	$1.33 \times 10^{-4}$ (1 Torr)	$1.33 \times 10^{-4}$ (1 Torr)
<b>Dimension</b>	Internal (Ø x H, mm / inch)	244 x 318 / 9.6 x 12.5	305 x 322 / 12.0 x 12.7
	Overall (Ø x H, mm / inch) <sup>4)</sup>	308 x 374 (308 x 449) / 12.1 x 14.7 (12.1 x 17.7)	387 x 384 (387 x 459) / 15.2 x 15.1 (15.2 x 18.1)
	Nozzle dia. (mm / inch)	9.5 / 0.37	9.5 / 0.37
	Net weight (kg / lbs) <sup>4)</sup>	2.7 (2.8) / 5.9 (6.2)	4.0 (4.1) / 8.8 (9.0)
<b>Quantity of perforated shelves</b>		2/5 (3) <sup>1)</sup>	2/5 (3) <sup>1)</sup>
<b>Cat. No.</b>	Clear type, without vacuum gauge	AAAD3011	AAAD3021
	Clear type, with vacuum gauge (G type)	AAAD3111	AAAD3121
	UV protection, without vacuum gauge (U type)	AAAD3211	AAAD3221
	UV protection, with vacuum gauge (UG type)	AAAD3311	AAAD3321

1) Perforated shelf can be mounted up to 5 (40 mm) or 3 (70 mm) depending on the loading method.

2) The last letter G in model names means that the model has a vacuum gauge.

3) The last letter U in model names means that it is a UV blocking model.

4) The dimension in parentheses is for -G/-UG Model.

## Hygrometer and multi-level shelf structure for convenient dehumidified desiccator

### > Solid integral structure

Made of integral mold to minimize leakage and exceptional durability

### > Height-adjustable shelf

Height of shelf/drawer can be adjusted according to the shape and size of stored material.

### > Multi-level loading

Stable multi-level loading allows for efficient utilization of space.

### > Transparent observation environment

Highly transparent, shatterproof, non-corrosive, and easy to clean polycarbonate construction.

### > UV blocking model

UV blocking model provided for vacuum storage of light-sensitive samples.

### > Desiccant Tray

Includes a dedicated tray made of PP as standard that the user can conveniently place a desiccant in.



SDC-45



Easy humidity check with front mounted hygrometer.



Minimizing damages or discoloration of light-sensitive samples. (-U model)

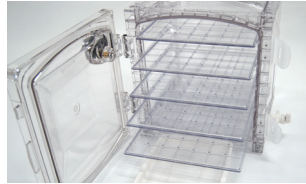
Model	Clear type	SDC-30 <sup>1)</sup>	SDC-45 <sup>1)</sup>
	UV protection type	SDC-30U <sup>1)</sup>	SDC-45U <sup>1)</sup>
Internal volume (L / cu ft)		35 / 1.2	50 / 1.8
Dimension	Internal (W x D x H, mm / inch)	322 x 367 x 302 / 12.7 x 14.4 x 11.9	322 x 367 x 422 / 12.7 x 14.4 x 16.6
	Overall (W x D x H, mm / inch)	360 x 410 x 326 / 14.1 x 16.1 x 12.8	360 x 410 x 447 / 14.1 x 16.1 x 17.6
	Shelf (W x D x H, mm / inch)	279 x 354 x 3 / 11.0 x 13.9 x 0.1	279 x 354 x 3 / 11.0 x 13.9 x 0.1
	Drawer (W x D x H, mm / inch)	279 x 346 x 45 / 11.0 x 13.6 x 1.8	279 x 346 x 45 / 11.0 x 13.6 x 1.8
	Desiccant tray	218 x 268 x 26 / 8.6 x 10.6 x 1.0	218 x 268 x 26 / 8.6 x 10.6 x 1.0
Shelves	Net weight (kg / lbs)	4.9 / 10.8	6.2 / 13.7
	Quantity (Standard/Max.)	1 / 4	2 / 6
Drawers	Max. load per shelf (kg / lbs)	5 / 11.0	5 / 11.0
	Quantity (Standard/Max.)	1 / 4	1 / 6
Cat. No.	Max. load per drawer (kg / lbs)	5 / 11.0	5 / 11.0
	Clear type	AAAD5011	AAAD5021
	UV protection type	AAAD5111	AAAD5121

1) The deviation of the fitted hygrometers will be between 10 and 20%. The measuring of accurate humidity percentage should be needed a extra equipment.

## Product Configuration



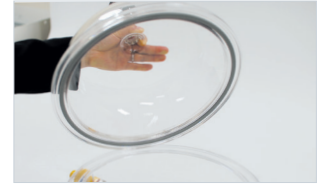
Desiccant Tray



Perforated Shelf (VDC)



Perforated Shelf (VDP)



Vacuum Seal



Locker



3-way Valve (VDR)



3-way Valve (VDC)



Vacuum Gauge

Product	Cat. No.	VDC				VDR			VDP		SDC	
		VDC-11	VDC-21	VDC-31	VDC-41	VDR-20	VDR-25	VDR-30	VDP-25	VDP-30	SDC-30	SDC-45
Desiccant tray	00VDC0000037	●	-	-	-	-	-	-	-	-	-	-
	00VDC0000005	-	●	●	●	-	-	-	-	-	●	●
	AAAD1501	-	-	-	-	●	-	-	●	-	-	-
	AAAD1502	-	-	-	-	-	●	-	-	●	-	-
	AAAD1503	-	-	-	-	-	-	●	-	-	-	-
Perforated shelf	00VDC0000035	●	-	-	-	-	-	-	-	-	-	-
	00VDC0000003	-	●	●	●	-	-	-	-	-	-	-
	AAAD1511	-	-	-	-	●	-	-	-	-	-	-
	AAAD1512	-	-	-	-	-	●	-	-	-	-	-
	AAAD1513	-	-	-	-	-	-	●	-	-	-	-
	AAAD3511	-	-	-	-	-	-	-	●	-	-	-
	AAAD3512	-	-	-	-	-	-	-	-	●	-	-
Drawer	AAAD5531	-	-	-	-	-	-	-	-	-	●	●
	AAAD5521	-	-	-	-	-	-	-	-	-	●	●
Vacuum seal	00VDC0000032	●	-	-	-	-	-	-	-	-	-	-
	00VDC0000033	-	●	-	-	-	-	-	-	-	-	-
	00VDC0000015	-	-	●	-	-	-	-	-	-	-	-
	00VDC0000034	-	-	-	●	-	-	-	-	-	-	-
	00VDR0000001	-	-	-	-	●	-	-	-	-	-	-
	00VDR0000002	-	-	-	-	-	●	-	●	-	-	-
	00VDR0000055	-	-	-	-	-	-	●	-	●	-	-
Locker	00VDR0000015	-	-	-	-	●	-	-	-	-	-	-
	00VDR0000016	-	-	-	-	-	●	-	●	-	-	-
	00VDR0000017	-	-	-	-	-	-	●	-	●	-	-
3-way valve	AAAD4501	●	●	●	●	-	-	-	-	-	-	-
	AAAD1521	-	-	-	-	●	●	●	-	-	-	-
	AAAD3501	-	-	-	-	-	-	-	●	●	-	-
Vacuum Gauge	00EDA0004301	●	●	●	●	-	-	-	-	-	-	-
	00EDA0004302	-	-	-	-	●	●	●	●	●	-	-

※ This table provides product information for additional installation or replacement of components included in the product

## Accessory

Cat. No.	Product Name	Description
BEA00078603	Silicagel (1kg)	Desiccant to remove moisture



# Dry Cabinet

## Auto desiccator



## Storage of moisture-sensitive materials and samples

### Structural Functional Features

#### > Automatic electronic desiccator unit

Convenient maintenance due to there being no need for a desiccant by automatically controlling the set humidity inside the storage cabinet.

#### > Convenient humidity setting and control

- 20~60%RH: Humidity can be set at 1% RH easily, reaching 20% RH within 8 hours. (DC model)
- 5~10%RH: Humidity can be reached down to 5% RH within 8 hours. (DLC model)

#### > Real-time temperature and humidity display

Displays the temperature and humidity inside the library in real time.



Current temperature value

Current humidity value

Humidity setting



DC-41



DC-11



#### Convenient internal observation

Convenient internal observation with large transparent window made of acrylic material.



#### Height-adjustable shelves

Designed to allow for adjustment of the height of the shelf, making it possible to store materials of various sizes simultaneously.



#### Efficient two-level loading structure

It is possible to fix the feet of the product on the upper part of the product, making 2-level loading possible. (applicable models: DC-11, DC-21S, DCL-11, DCL-21S)





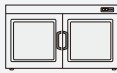




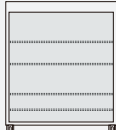
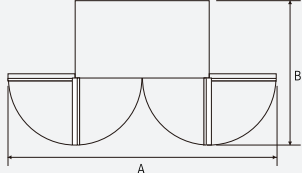
#### Easy to move and install

Castors which make it easy to move/fix are provided as standard for convenient moving and installation of the product. (DC-41, DCL-41model)



#### Door lock

Key lock is provided as standard to block unauthorized access.

Model		DC-11	DC-21L	DC-21S	DC-41															
		DCL-11	DCL-21L	DCL-21S	DCL-41															
Control range <sup>1)</sup>	DC	20~60%RH (1% scale)	20~60%RH (1% scale)	20~60%RH (1% scale)	20~60%RH (1% scale)															
	DCL <sup>2)</sup>	5~10%RH (1% scale)	5~10%RH (1% scale)	5~10%RH (1% scale)	5~10%RH (1% scale)															
Internal volume (L / cu ft)		150 / 5.3	300 / 10.6	300 / 10.6	600 / 21.2															
Internal dimensions (W x D x H, mm / inch)		470 x 499 x 500 / 18.5 x 19.6 x 19.7	470 x 599 x 561 / 18.5 x 23.6 x 22.1 (upper) 470 x 499 x 561 / 18.5 x 19.6 x 22.1 (lower)	1070 x 499 x 498 / 42.1 x 19.6 x 19.6	1070 x 599 x 561 / 42.1 x 23.6 x 22.1 (upper) 1070 x 499 x 561 / 42.1 x 19.6 x 22.1 (lower)															
Exterior dimensions (W x D x H, mm / inch)		550 x 700 x 653 / 21.7 x 27.6 x 25.7	547 x 700 x 1280 / 21.5 x 27.6 x 50.4	1140 x 700 x 653 / 44.9 x 27.6 x 25.7	1140 x 700 x 1140 / 44.9 x 27.6 x 44.9															
Quantity of door		1	2	2	4															
Stackable type		Yes	No	Yes	No															
Quantity of shelves (standard/max.) <sup>3)</sup>		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	20 / 44.1	20 / 44.1	20 / 44.1															
Weight (kg / lbs)		36 / 79.4	56.5 / 124.6	58 / 127.9	110 / 242.5															
Electrical requirements (230V, 50/60Hz, A)		2.0	2.0	2.0	2.0															
Cat. No.	DC	AAHF70115K	AAHF70215K	AAHF71215K	AAHF70415K															
	DCL	AAHF72115K	AAHF72125K	AAHF72135K	AAHF72145K															
Electrical requirements (120V, 60Hz, A)		4.0	4.0	4.0	4.0															
Cat. No.	DC	AAHF70115U	AAHF70215U	AAHF71215U	AAHF70415U															
	DCL	AAHF72116U	AAHF72126U	AAHF72136U	AAHF72146U															
Product appearance																				
Product interior																				
		<table border="1"> <thead> <tr> <th>Model</th> <th>A (mm)</th> <th>B (mm)</th> </tr> </thead> <tbody> <tr> <td>DC-11, DCL-11</td> <td>1074</td> <td>1182</td> </tr> <tr> <td>DC-21L, DCL-21L</td> <td>1074</td> <td>1182</td> </tr> <tr> <td>DC-21S, DCL-21S</td> <td>2276</td> <td>1235</td> </tr> <tr> <td>DC-41, DCL-41</td> <td>2276</td> <td>1235</td> </tr> </tbody> </table>			Model	A (mm)	B (mm)	DC-11, DCL-11	1074	1182	DC-21L, DCL-21L	1074	1182	DC-21S, DCL-21S	2276	1235	DC-41, DCL-41	2276	1235	
Model	A (mm)	B (mm)																		
DC-11, DCL-11	1074	1182																		
DC-21L, DCL-21L	1074	1182																		
DC-21S, DCL-21S	2276	1235																		
DC-41, DCL-41	2276	1235																		

1) Above (internal) humidity and temperature may temporarily increase when drying the device of the dehumidifying unit.

2) Above DCL humidity range is only maintained when 25°C and 60%RH condition.

3) The shelves can be added as accessories, which are consisted of epoxy powder coated steel or stainless steels.

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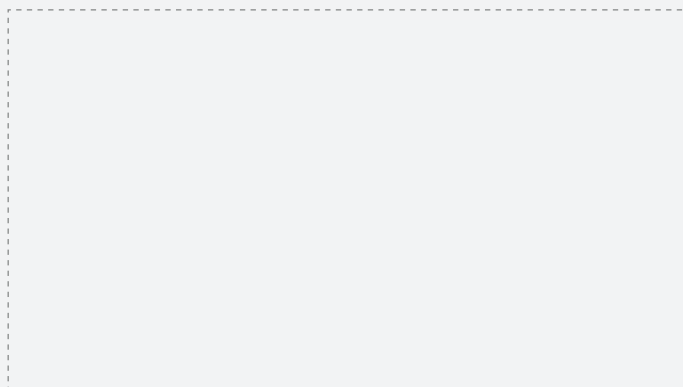
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