



Clean room
&
Laboratory Equipments
CATALOG



■ Clean Room Equipment Business

By improving the flexible functionality of clean room equipment such as clean booths, we aim to become a company which supports world manufacturing through environmental improvement.

■ Laboratory Equipment Business

With the goal of solving various problems faced by cutting-edge science, we contribute to the advancement of science and technology by developing products which support technical development and research.

■ Manufacturing of various parts and tools

Universal manufacturing of various plastic and metal parts and tools is performed using our company's large machining tools



Efforts to Ensure Product Quality

ISO9001:2008 certified

Shin-ei Sangyou Co., Ltd. has acquired ISO9001:2008 certification. In our business activities, meeting the demands of the customer while conforming to all laws and regulations is our priority. To do so, we have established an in-house product quality management system in conformance with ISO9001:2008, and continuously seek to improve its efficiency.

Certification No. QC03J0188
 Certification Date December 18, 2003
 Testing Facility Japan Audit and Certification Organization for Environment and Quality (JACO)
 Certification Range Laboratory instruments, clean environment related equipment and devices,

Efforts for the Environment

ISO14001:2004 certification

Shin-ei Sangyou Co., Ltd. (head office/plant) has acquired ISO14001:2004 for its environmental management system. In business development, environmental conservation is positioned as a top priority, with the business theme of "Creating an Environment." All our employees are involved in environmental conservation activities, both in the surrounding districts and on the global scale, and work toward the improvement and betterment of the environment based on our environment policy.

Certification No. EC02J0033
 Certification Date April 24, 2002
 Certification Range Purified water/activated water manufacturing related devices, design/development, manufacturing, sales and maintenance services of production equipment, resin/metal processed products

Company profile

Company name	Shin-ei Sangyo Co., Ltd.
Representative's name	Tadao Imanishi
Location	Head office and factory 1-10, Shinden-nishimachi, Daito-city, Osaka-pre, 574-0057, JAPAN
TEL	+81-72-806-7800
FAX	+81-72-806-7801
Foundation	September 1, 1967
Establishment	March 1, 1975
Capital	40 million yen
Number of employees	45
Contents of business	<ul style="list-style-type: none">■ Clean room equipment business Development, manufacturing, and sales of clean room equipment, clean booths, air showers, etc.■ Laboratory equipment business Development, manufacturing, and sales of desiccators, storage cabinets, glove boxes, fume hoods, carts/wagons■ Machining of various parts Machining, manufacturing, and sales of various plastics and metals
Affiliated organizations	<ul style="list-style-type: none">•Osaka Chamber of Commerce and Industry•Osaka Scientific Instruments Association•Osaka Prefectural Manufacturing & Industrial Association•The Daito Chamber of Commerce & Industry
Branch office	Kanto office Yamamoto Bld.2F, 2-5-23, Buzo, Minami-ku, Saitama-city, Saitama-pre, 336-0025, JAPAN TEL: +81-48-747-7300 FAX: +81-48-747-7880
Affiliated company	Shin-ei Japan Co., Ltd.



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Description of illustration



New Products

New products are now available.



Special order available

Products which can be special ordered.
Please contact us for further details.



Assembly type

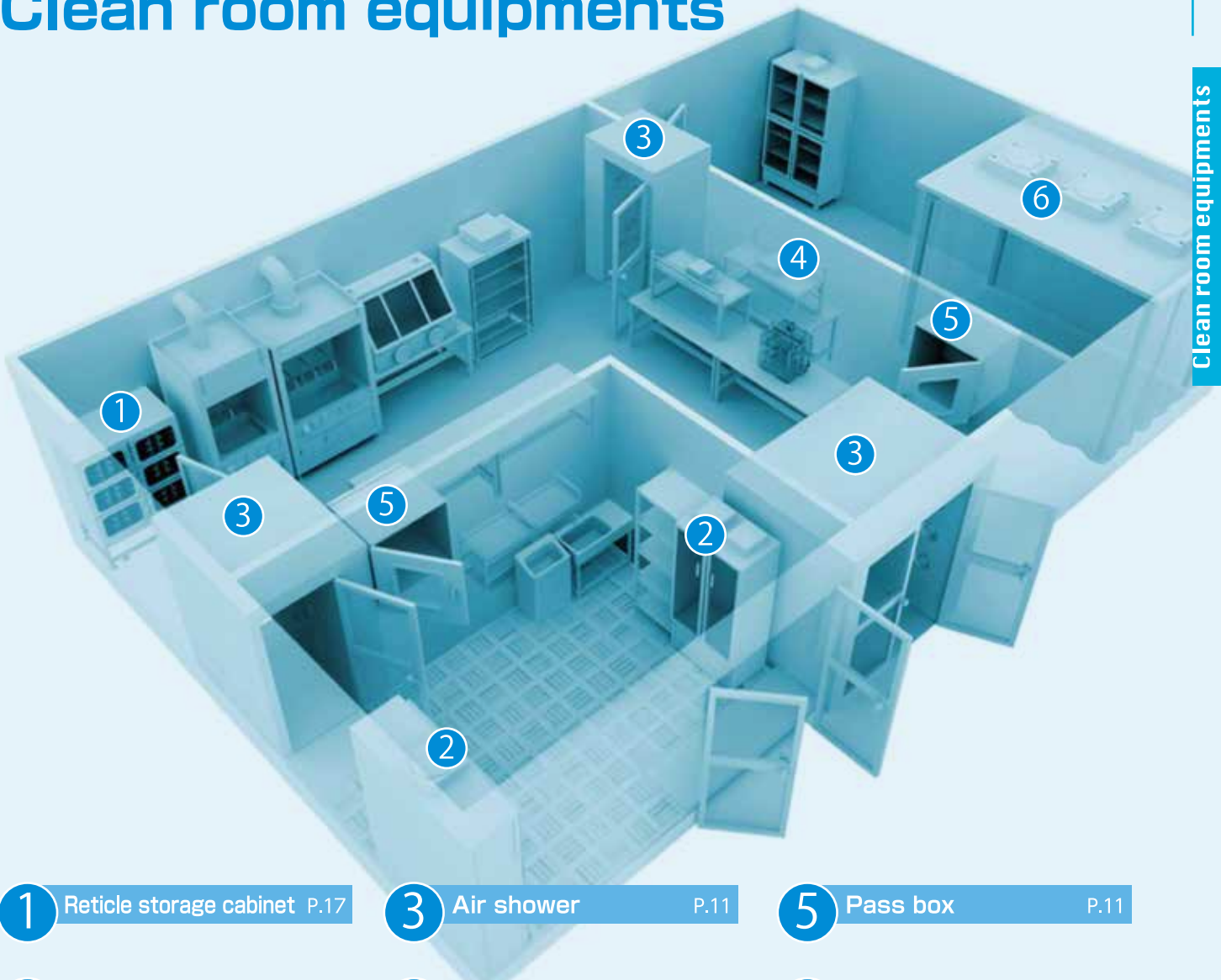
Products which require assembly for use.
Before assembly, please read the manual.



Options available

Options and accessories can be attached
to this product.

Clean room equipments



1 Reticle storage cabinet P.17

3 Air shower P.11

5 Pass box P.11

2 Clean locker P.15

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Clean booth

The clean booth is used to create a local clean space by separating a section of the general environment and the clean room by a curtain or panel, and providing clean air in which particles and bacteria are removed by HEPA filter.

For product quality maintenance/yield improvement, preventing adhesion of particles is important. This is can also be used to ensure a stable environment. Issues described on the below can be resolved by installing a clean booth.



Difference between a clean booth and a clean room

Easy to install!

Construction of a clean room requires major equipment construction and considerable time to complete. On the other hand, clean booth needs only minimum assembly operation. Construction of a small sized booth can be finished within the day if needed.

Saves space!

For a clean room, the floor and the entire room must be clean. This is best suited for large factories, but detailed operations cannot be performed. On the other hand, a clean booth with an aluminum frame construction can be freely designed, and can even be installed inside a clean room. Maintaining clean standards specifically in the needed space is possible.

- Defective products
- Yield
- Foreign material contamination
- Device calibration
- Effect of hazardous material on the workers and the environment

Curtain booth

CB-1

Curtain booth series

Aluminum frame type antistatic curtain booth

Our curtain booth utilizes a clear antistatic sheet to control static electricity, and has a clean, finished look. With excellent sheet properties for processing, the curtain booth can handle various setting conditions and applications. The sheet is also fire retardant to ensure safety.

Locally cleaned **Cost-cutting** **Speed construction**

Reference specification *Order made is standard

- S i z e : W1500 × D1500 × H2060mm
- F r a m e : Aluminum alumite treatment
- S u r r o u n d i n g s : Antistatic vinyl curtain 0.3t
- C e i l i n g : Aluminum composite plate 3t
- F i l t e r : Fan filter unit 1 Pre-filter 1
- D u s t c o l l e c t i o n e f f i c i e n c y : More than 99.99% (0.3μm)
- C l e a n l i n e s s : Class 1000
- D o o r : Curtain overlap type
- L i g h t i n g : Fluorescent light 40W × 2 light bulbs × 1 unit
- E l e c t r i c c a p a c i t y : AC100V 1φ



CB-1

Production example



Explosion-proof clean booth



Yellow clean booth



Large clean booth / air shower



Black-out curtain booth for testing

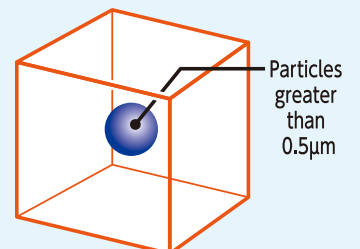
Representation of cleanliness level

Generally, air cleanliness criteria is based on the number of particles contained in a specified unit area.

The classification of the cleanliness level in a clean environment is determined by this value.

Specifications	ISO standards / ISO14644-1 JIS standards / JIS B 9920	U.S. federal standards / FED-STD-209D *abolished in 2000	Molecular Number Comparison Table	
Standard grain size	Diameter 0.1μm or more	Diameter 0.5μm or more	Diameter 0.1μm	Diameter 0.5μm
Unit area	1m ³	1ft ³	1m ³	1m ³
Value	T value of the number of pieces 10 ^T	Number of pieces	Number of pieces	Number of pieces
Cleanliness class	1		10	
	2		100	4
	3	1	1000	35
	4	10	10000	352
	5	100	100000	3520
	6	1000	1000000	35200
	7	10000		352000
	8	100000		3520000
	9			35200000

Concept of the U.S. Federal Specifications and Standards



1ft³
||
30.48cm cubic
||
28.3L space

Particle 100	Class 100
Particle 1000	Class 1000
Particle 10000	Class 10000
Particle 100000	Class 100000

*In U.S. federal standards, class value is determined by the number of the particles which are larger than 0.5 μm contained in 1 square feet air.

CB-2

Panel booth series

Aluminum frame type antistatic panel booth

The panel booth has an aesthetic design, and greater durability than a curtain booth. It is suitable as an equipment protection booth, windshield booth, etc.

Locally cleaned **Cost-cutting** **Speed construction**

Reference specification *Order made is standard

- S i z e : W1370 × D1510 × H1880mm
- F r a m e : Aluminum alumite treatment
- S u r r o u n d i n g s : Antistatic PVC (transparent) 3t
- C e i l i n g : Aluminum composite plate 3t
- F i l t e r : Fan filter unit 1 Pre-filter 1
- D u s t c o l l e c t i o n e f f i c i e n c y : More than 99.99% (0.3μm)
- C l e a n l i n e s s : Class 1000
- D o o r : 1 location in entire surface
Opening W790 × H1810mm
- L i g h t i n g : LED (equivalent to 40W × 2 light bulbs)
- E l e c t r i c c a p a c i t y : AC100V 1φ



CB-2

Production example



Tunnel type booth



Large panel booth



Large panel booth



Equipment cover booth

Classification of the cleanness level by business category

Business category		Contents	Class (clean degree)				
			10	100	1000	10000	100000
Industry	Semi-conductor	Circuit design					
		IC / LSI chip manufacturing					
		Mask and wafer production					
		Assembly, Inspection					
	Precision and Electron devices	Watch and Electronic parts assembly					
		Bearings					
		Electromagnetic tape					
		Small-sized relay					
	Optics and Printing	Parts processing, assembly, inspection					
		Printed circuit boards					
Microfilm development and drying							
Lens / Camera processing and assembly							
Food product	Bread, Confectioneries, and Noodle production	Precise printing					
		Bread, Confectioneries, Noodle production					
		Food processing					
		Paste, Deli food, Frozen packages					
	Liquid and Paste food	Drinks, Seasoning filling					
		Dairy products					
		Milk, Yogurt, Cheese, Butter					

*Cleanness of general factories is shown.

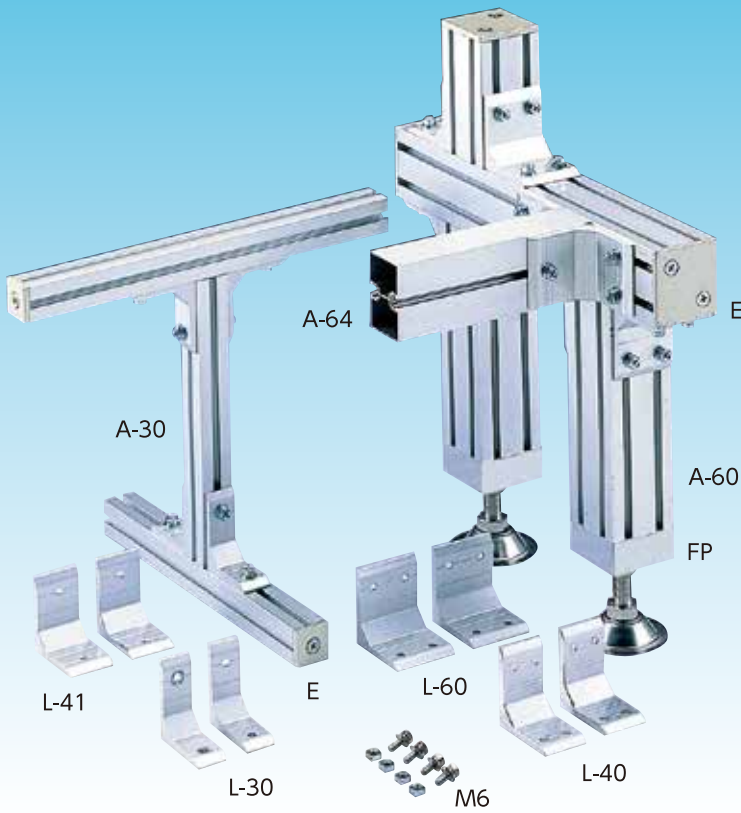
Aluminum frame

A/L

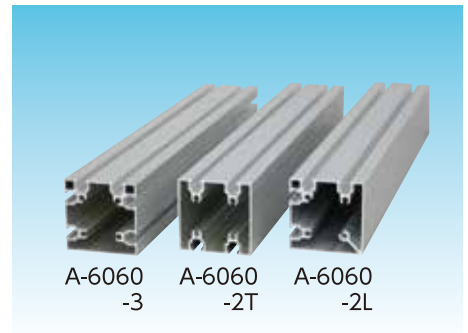
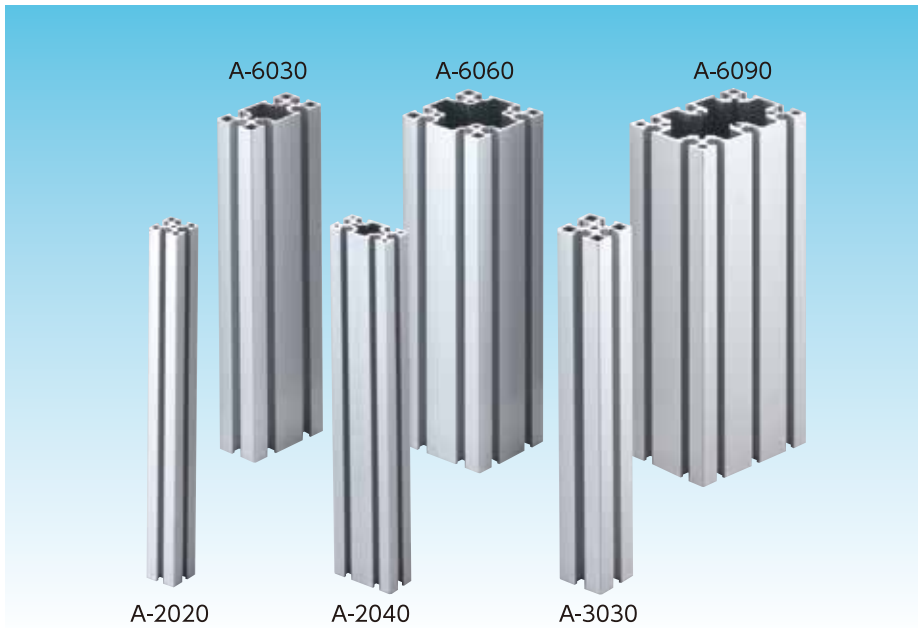
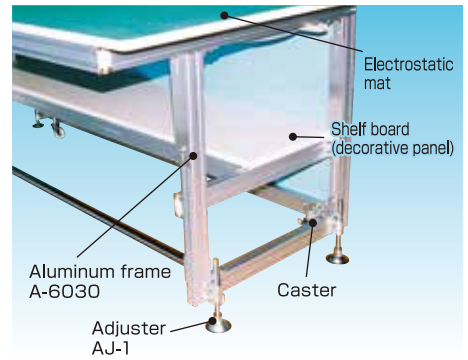
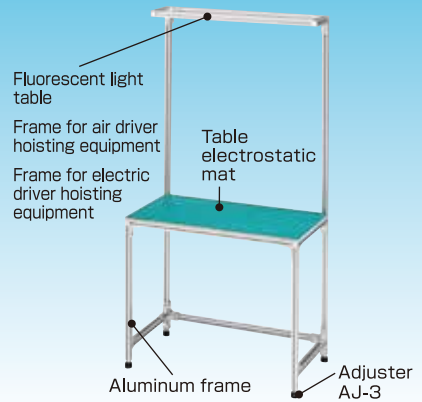
Aluminum frame series

Aluminum frame and bracket

Suitable for order-made clean booths, clean benches, working tables, etc. Aluminum material has excellent strength and can be assembled into any shape. It can be used to create complex equipment covers.



Example of creating a working table



■ Groove cover	
Code	02-42201
Model number	L-2000
length	2000mm

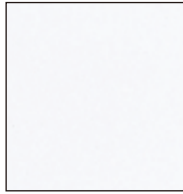
AS
Curtain series

Antistatic curtain / sheet

AS-1 Antistatic crystal

(0.3, 0.5, 1.0mm × W1370mm 0.1, 0.3mm × W1830mm)

An epoch-making, antistatic sheet with high transparency has been developed from our special compounding technology. The material is fire resistant and is suitable for electrical and electronic equipment manufacturing, precision mechanical equipment manufacturing, and for clean rooms.



Performance Example of test product standards, actual measured value of 0.3 mm thickness and #490 hardness.

Test items	Achilles antistatic crystal	General film
Volume resistance	$4.48 \times 10^9 \Omega \text{cm}$	$8.11 \times 10^{13} \Omega \text{cm}$
Surface resistance	$3.90 \times 10^{11} \Omega$	$3.22 \times 10^{15} \Omega$
Static decay time	50% Attenuation	0.01 seconds
	90% Attenuation	0.03 seconds
	100% Attenuation	0.06 seconds
Friction-charged electrostatic potential	15V	More than 3000V
Height of tobacco ash adherence	Less than 1cm	Attached at 10cm

*If the static electricity of an individual piece is less than $10^{11} \Omega$, leakage is easy and can be considered safe.
*Generally the degree of fire retardant capacity is determined according to the standards of Japan Fire Retardant Association.
(Notification of the registered fire retardant test no. can be issued upon request)



Antistatic curtain A type



Antistatic curtain B type

AS-11 Antistatic crystal black

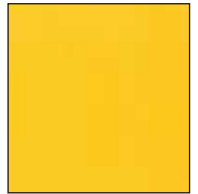
The antistatic sheet with light-blocking performance provides 0% light transmittance based on antistatic crystal basic performance. Surface specific resistance value is $7.5 \times 10^9 \Omega$. It is suitable for places where outside light should be shut out, such as a black room within the clean room.



AS-5 Flamirror electrostatic and insect-proof

(0.3mm × W1370mm)

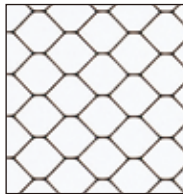
As well as blocking UV light, the sheet has an orange color which is not visible to insects, providing high insect-proofing. Highly transparent and flame retardant, it is suitable for food processing, printing, painting, chemical, and fertilizer plants.



AS-2 Antistatic F

(0.1, 0.3, 0.5mm × W1370mm)

An epoch-making, antistatic sheet with high transparency, developed from our special compounding technology. The material is fire resistant and is suitable for electrical and electronic equipment manufacturing, precision mechanical equipment manufacturing, and for clean rooms.



AS-6 Flamirror electrostatic welding

(0.3mm × W1370mm)

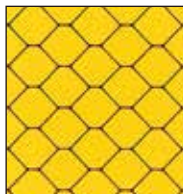
The bronze color sheet cuts UV light, and 80% of visible light. It has fire resistant properties, and is suitable as a partition for welding and light shielding.



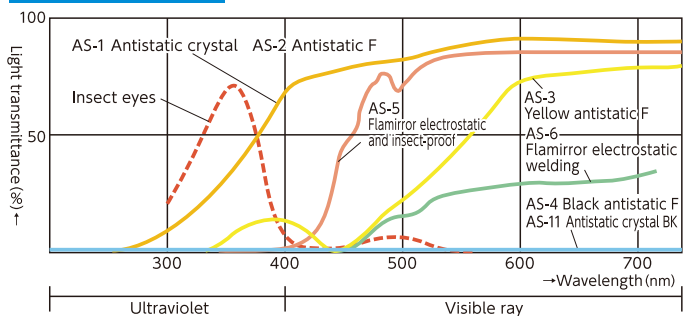
AS-3 Yellow antistatic F

(0.3mm × W1370mm)

Blocks hazardous ultraviolet rays, protecting products and devices. This sheet is highly transparent, and non-combustible.



Spectral characteristics



AS-4 Black antistatic F

(0.3mm × W1370mm)

Complete block out sheet with 0% light transmittance rate. Flame retardant sheet best suited for operations which require light screening or shielding.

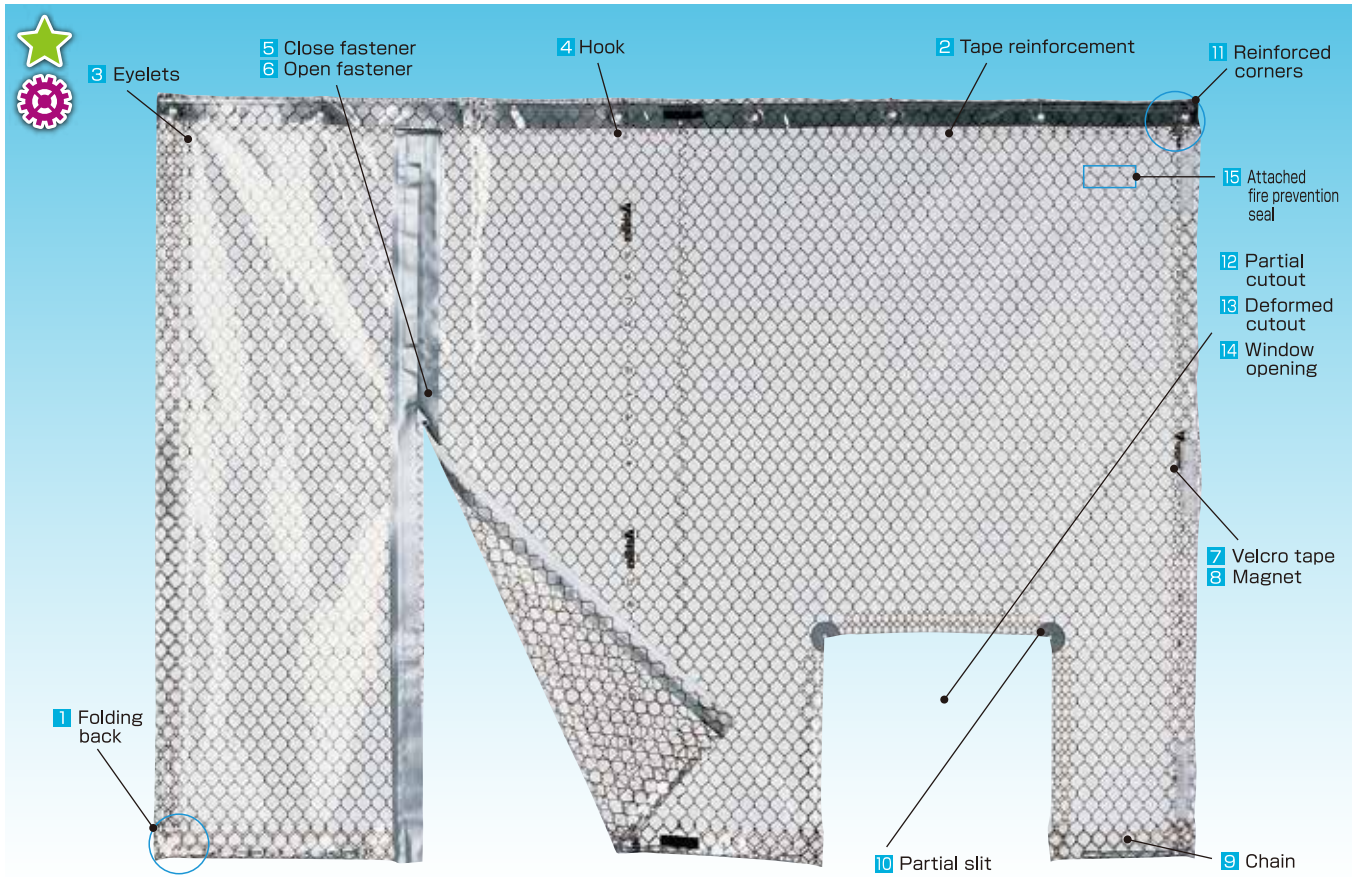


*Can be processed to any size. Please feel free to ask for details.

Code	02-110	02-111	02-120	02-130	02-140	02-150	02-160
Product Name / Model	AS-1 Antistatic crystal	AS-11 Antistatic crystal black	AS-2 Antistatic F	AS-3 Yellow antistatic F	AS-4 Black antistatic F	AS-5 Flamirror electrostatic and insect-proof	AS-6 Flamirror electrostatic welding
Code	01			02		03	
Type	Curtain A type (0.3mm × W900 × H1800mm)			Curtain B type (0.3mm × W900 × H1800mm)		Sheet (roll) (0.3mm × W1370mm × 30m)	

Antistatic curtain / sheet manufacturing example

※AS-2 Antistatic F curtain / sheet



1 Folding back
The folded back edge is reinforced by welding.



2 Tape reinforcement
Reinforcing tape is added to strengthen the hook attachment and prevent rips by the screw.



3 Eyelets
Holes are punched to create eyelets for hooks and screws.



4 Hook attachment
Hooks are attached to hang the curtain on a runner, etc.



5 Close fastener
Close fasteners are attached to the entrance and exit.
6 Open fastener
Open fasteners are attached for opening and closing and connecting.



7 Velcro tape
Velcro tape is used for opening and closing.



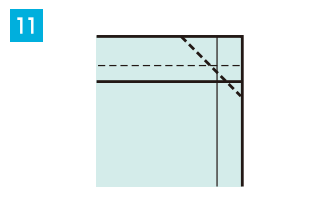
8 Magnet
Magnets are used for opening and closing.



9 Chain
Chain to reduce curtain movement.



10 Partial slit
Slit for entrance and exit.



11 Reinforced corners
Corners which are subject to exceptional stress are reinforced.



12 Partial cutout
13 Deformed cutout
14 Window holes
Window holes for piping, avoiding parts, and monitoring (cover flap attachment is available)

15 A fire prevention sticker issued by Japan Fire Retardant Association is attached

Fan filter unit / Particle counter

Clean room equipments

PS01-AD Fan filter unit series

Pure space

A compact and simple clean environment is constructed. Simply connect the unit to an AC100V outlet, and air is supplied through the HEPA filter at a rate of approx. 1 m³/min. Pre-filter on the top is easy to replace. The unit is lightweight as a result of the resin body.

Code	02-71401
Model number	PS01-AD
Overall size	W260 × D260 × H149mm
HEPA filter	W200 × D200 × H50mm
Airflow	1 m ³ /min
Air speed	0.5m/s
Dust collection efficiency	More than 99.97% (0.3μm)
Body material	ABS resin
Power source cord motor	Length 1.8m with 2P plug AC motor
Electric capacity	AC100V 50/60Hz 36/38W
Weight	3.2kg

Code	02-71402	02-71403
Model number	PS01-1AD	PS01-PF
Specifications	Antibacterial / Deodorization HEPA filter	Pre-filter for replacement

*Air volume setting : Cannot be remote-controlled.



PS01-AD

PSV-AD/PSX-AD Fan filter unit series

Pure space

Total control of multiple units is possible, providing a clean the environment that does not waste time.

- 5-step air volume adjustment is possible. Multiple units can be connected to a PC/remote controller and centrally controlled through one unit.
- Speed clean mode is built-in. Use in cases where quick cleaning is desired, such as when starting work operations.
- Energy-saving effect Air volume can be adjusted in 4 steps other than the default setting.
- Multiple unit control. Multiple units can be sequentially connected by the pure space remote control system, and can provide unified air volume. PSV-AD and PSX-AD can be used together.
- The remote controller cable can be extended. The standard 2 m cable can be extended using a PC LAN cable.

Code	02-71404	02-71405
Model number	PSV-AD	PSX-AD
Overall size	W494 × D494 × H134mm	W654 × D654 × H134mm
HEPA filter	W450 × D450 × H50mm	W610 × D610 × H50mm
Airflow	5-step adjustment 5m ³ /min (standard) 4, 3, 2m ³ /min (silent) 6m ³ /min (speedclean)	5-step adjustment 10m ³ /min (standard) 8, 6, 4m ³ /min (silent) 11m ³ /min (speedclean)
Air speed	Standard 0.5m/s (minimum 0.2m/s)	
Cleanliness of the outlet	Class 100	
Body material	ABS resin	
Remote control cord length	2m	
Motor	DC brushless motor	
Electric capacity	AC100V 50/60Hz 52W	AC100V 50/60Hz 86W
Weight	8.6kg	11kg



PSV-AD

PSX-AD

Code	02-71406	02-71407	02-71408
Model number	PSVX-PF	PSV-05AD	PSX-10AD
Specifications	Pre-filter for replacement	Antibacterial / Deodorization HEPA filter	Antibacterial / Deodorization HEPA filter

HHPC2+/3+ Particle counter series

Hand held type air particle counter

Code	02-71451	02-71452
Model number	HHPC 2 +	HHPC 3 +
Light source	Laser diode	
Measurement channel number	2	3
Minimum measurable grain diameter (fixed)	0.5μm	0.3μm
Grain size classification	Select 1-grain diameter from 1.0/2.0/5.0μm	Select 2-grain diameter from 0.5/1.0/2.0/5.0/10.0μm
Flow rate	2.83L/min	
Proofreading	by PSL (polystyrene latex) particles	
Maximum particle density	70000 pieces/L (number count loss less than 10%)	140000 pieces/L (number count loss less than 10%)
Conversion unit	Count (no conversion), select from number of pieces/ft ³ , pieces/L, pieces/M ³	
Data memory	10000 data (21CFR Part11 The corresponding data is 5000 data)	
Interface	USB memory, USB cable, Ethernet	
Use temperature and humidity range	10~40°C, 20~90% RH (however, no condensation)	
Security function	21CFR Part11 correspondence (excel data) Standard equipment	
Display part	3.5 inches Color crystal panel (LED back light type)	
Display language	Japanese / English	
Battery / Power source	5 hours for continuous use (10 hours for regular use) / AC100~240V, 50/60Hz	
Dimensions / Weight	W99 × D53 × H245mm / 690g (batteries included)	
Application specifications	ISO 21501-4 / JIS B9921	
Standard accessories	Zero count counter, Adapter for zero count filter, Power supply, USB cable (A-mini-B), Carrying case, Inspection results certificate, Calibration certificate, Traceability system diagrams	
Options	Communication stand	



Air shower / Pass box

AS-S/AS-D

Air shower series

Air shower

Dust and bacteria which is attached to a person when entering a clean room or goods brought in, are blown off by automatic jet air and operations are automatically stopped by timer. Can also be used for multi-connection equipment, route changes, changes in jet blow direction. Ask for details.

Specification

Body material : Steel plate baking finish
 Power supply : AC200V 3 phase 50/60Hz
 H E P A filter : Wood panel, paper separator specification
 Dust collection efficiency
 More than 99.97% (0.3µm)

Manual door type



Automatic door type



Code	Model number	Overall size	HEPA filter	Jet airflow	Door	Weight	Consumption current
02-59112	AS-D-1000	W1500 × D1000 × H2060mm	2	Dual side outlet type	One-side opening	350kg	1.0kW/1.2kW
02-59113	AS-D-1000-WD	W2500 × D1000 × H2060mm	2	Dual side outlet type	Both-side opening	400kg	1.0kW/1.2kW
02-59117	AS-D-1500	W1500 × D1500 × H2060mm	2	Dual side outlet type	One-side opening	450kg	1.8kW/2.5kW
02-59119	AS-D-2000	W1500 × D2000 × H2060mm	4	Dual side outlet type	One-side opening	700kg	2.0kW/2.4kW
02-59121	AS-D-3000	W1500 × D3000 × H2060mm	6	Dual side outlet type	One-side opening	1050kg	3.0kW/3.6kW
02-59123	AS-D-1000-SAD	W1500 × D1000 × H2140mm	2	Dual side outlet type	One-side automatic door	450kg	1.0kW/1.2kW
02-59125	AS-D-1500-SAD	W1500 × D1500 × H2140mm	2	Dual side outlet type	One-side automatic door	550kg	1.8kW/2.6kW
02-59126	AS-D-1500-DAD	W1500 × D1500 × H2140mm	2	Dual side outlet type	Both-side automatic door	550kg	1.8kW/2.6kW
02-59127	AS-D-2000-SAD	W1500 × D2000 × H2140mm	4	Dual side outlet type	One-side automatic door	750kg	1.0kW/1.2kW
02-59128	AS-D-2000-DAD	W1500 × D2000 × H2140mm	4	Dual side outlet type	Both-side automatic door	800kg	2.0kW/2.4kW
02-59129	AS-D-3000-SAD	W1500 × D3000 × H2140mm	6	Dual side outlet type	One-side automatic door	1150kg	3.0kW/3.6kW
02-59130	AS-D-3000-DAD	W1500 × D3000 × H2140mm	6	Dual side outlet type	Both-side automatic door	1150kg	3.0kW/3.6kW
02-59131	AS-D-1000-WDAD	W2200 × D1000 × H2140mm	2	Dual side outlet type	Both-side automatic door	500kg	1.0kW/1.2kW
02-59132	AS-D-1500-WDAD	W2200 × D2000 × H2140mm	2	Dual side outlet type	Both-side automatic door	600kg	1.8kW/2.6kW
02-59133	AS-D-2000-WDAD	W2200 × D3000 × H2140mm	4	Dual side outlet type	Both-side automatic door	850kg	2.0kW/2.4kW

*One-side outlet type is also available. Ask for details.

*AS-S-1000-3D is three-direction door.

PB

Pass box series

Pass box

Includes interlock equipment to prevent the outer air from flowing into the clean room. Inside the path box can be confirmed by the glass window (transparent glass).

Specification

Body material : Baking finish steel plate
 Inner floor surface : SUS304 hair-line finishing
 W i n d o w : Glass (transparent) 3t
 I n t e r l o c k : Mechanical type



Code	Model number	Overall size	Effective inside dimension
02-58111	PB-400	W550 × D500 × H480mm	W400 × D400 × H400mm
02-58112	PB-500	W650 × D600 × H580mm	W500 × D500 × H500mm
02-58113	PB-600	W750 × D700 × H680mm	W600 × D600 × H600mm
02-58114	PB-700	W850 × D800 × H780mm	W700 × D700 × H700mm

KCB/KB

Assembled booth series

Assembled clean booth / Assembled booth

Simplified clean booth using conductive piping in the frame. Easy assembly/disassembly and transport, and ensuring a clean zone is simple. By choosing the frame length, a wide range can be handled, from tabletop to a several meter long booth. Like aluminum frame booths, semi-order made curtains are available.



KB-112 (Assembled booth)



KCB-112 (Assembled clean booth)

Specification

F r a m e : Conductive property ABS resin covered steel pipe $\phi 28$

J o i n t : Hot-rolled sheet steel metal joint

Surroundings / ceiling : Antistatic crystal curtain 0.3t

KCB only

F i l t e r : Fan filter unit 1 Pre-filter 1

Dust collection efficiency : More than 99.99% (0.3 μ m)

Cleanliness class : 10000

Code	Model number	Overall size	Ventilation frequency	Cleanliness area	Airflow	Electric capacity
02-42005	KCB-112	W1500 × D1500 × H2000mm	40	2.25m ²	3.0m ³ /min	AC100V 1 ϕ 40VA
02-42006	KCB-122	W1500 × D2000 × H2000mm	50	3m ²		
02-42007	KCB-222	W2000 × D2000 × H2000mm	37.5	4m ²	5.0m ³ /min	AC100V 1 ϕ 50VA
02-42008	KB-112	W1500 × D1500 × H2000mm	—	—	—	—
02-42009	KB-122	W1500 × D2000 × H2000mm				
02-42010	KB-222	W2000 × D2000 × H2000mm				

Assembled dark room clean booth / Assembled dark room booth

Inside remains dark using a black curtain. This is best suited for optic tests and inspections which require a high degree of cleanness.



KB-112B (Assembled dark room booth)



KCB-112B (Assembled dark room clean booth)

Specification

F r a m e : Conductive property ABS resin covered steel pipe $\phi 28$

J o i n t : Hot-rolled sheet steel metal joint

Surroundings / ceiling : Antistatic crystal black curtain 0.3t

Fluorescent lamp : 40 W × 1 light bulbs × 1 unit

KCB only

F i l t e r : Fan filter unit 1 Pre-filter 1

Dust collection efficiency : More than 99.99% (0.3 μ m)

Cleanliness class : 10000

Code	Model number	Overall size	Ventilation frequency	Cleanliness area	Airflow	Electric capacity
02-42011	KCB-112B	W1500 × D1500 × H2000mm	40	2.25m ²	3.0m ³ /min	AC100V 1 ϕ 120VA
02-42012	KCB-122B	W1500 × D2000 × H2000mm	50	3m ²		
02-42013	KCB-222B	W2000 × D2000 × H2000mm	37.5	4m ²	5.0m ³ /min	AC100V 1 ϕ 130VA
02-42014	KB-112B	W1500 × D1500 × H2000mm	—	—	—	AC100V 1 ϕ 80VA
02-42015	KB-122B	W1500 × D2000 × H2000mm				
02-42016	KB-222B	W2000 × D2000 × H2000mm				

Clean hood / Clean bench

CCF-1/2/3

Clean hood series

Simplified clean hood

This simplified clean hood uses an aluminum frame. Strong and light-weight, easy to carry, and best suited to ensure a clean zone on the working table.

Specification

Cleanliness: Class 100^{*2}
Clean zone: W660 × D370 × H480mm (CCF-1)
 W760 × D470 × H480mm (CCF-2)
 W1160 × D470 × H480mm (CCF-3)
F i l t e r: Fan filter unit 1 Pre-filter 1
 W260 × D260 × H149mm
Dust collection efficiency: More than 99.97% (0.3μm)
A i r f l o w: 1m³/min
Top / Side / Back: Antistatic PVC 3t
Frame material: Aluminum alumite treatment
Electric capacity: AC100V 1A

*CCF-1 can be used in combination with Acty cart AC-2.

*2 Actual measurement values directly under the clean module



CCF-1

Code	Model number	Overall size*1
02-26001	CCF-1	W700 × D400 × H500mm
02-26002	CCF-2	W800 × D500 × H500mm
02-26003	CCF-3	W1200 × D500 × H500mm

*1 The fan filter unit is not included in the outer dimensions.

CCB-1S/2S/3S

Clean bench series

Simplified clean bench

This simplified clean bench combines SUS pipes and anti-static vinyl sheet. Assembly is easy and light-weight, and is best suited to ensure a simple clean zone.



CCB-1S

Specification

Cleanliness: Class 100
Clean zone: W670 × D385 × H485mm (CCB-1S)
 W770 × D485 × H485mm (CCB-2S)
 W1170 × D485 × H485mm (CCB-3S)
F i l t e r: Fan filter unit 1 Pre-filter 1
 W260 × D260 × H149mm
Dust collection efficiency: More than 99.97% (0.3μm)
A i r f l o w: 1m³/min
Frame material: SUS304 φ13 Pipe
All surroundings: Antistatic vinyl sheet 0.3t
Electric capacity: AC100V 1A

*CCB-1S can be used in combination with Acty cart AC-2.

Code	Model number	Overall size*1
02-27001	CCB-1S	W700 × D400 × H500mm
02-27002	CCB-2S	W800 × D500 × H500mm
02-27003	CCB-3S	W1200 × D500 × H500mm

*1 The fan filter unit is not included in the outer dimensions.

CCB-1B/2B/3B

Clean bench series

Simplified clean bench

This simplified clean bench uses an aluminum frame. Light-weight, easy to carry, and best suited to ensure a clean zone on the working table. The position of the door can raised or lowered be to match the operation.

Specification

Cleanliness: Class 100
Clean zone: W660 × D370 × H480mm (CCB-1B)
 W760 × D470 × H480mm (CCB-2B)
 W1160 × D470 × H480mm (CCB-3B)
F i l t e r: Fan filter unit 1 Pre-filter 1
 W260 × D260 × H149mm
Dust collection efficiency: More than 99.97% (0.3μm)
A i r f l o w: 1m³/min
Top / Side / Back: Antistatic PVC 3t
D o o r: Antistatic PVC 3t 50mm pitch variable
Frame material: Aluminum alumite treatment
Electric capacity: AC100V 1A

*CCB-1B can be used in combination with Acty cart AC-2.



CCB-1B

Code	Model number	Overall size*1
02-45001	CCB-1B	W700 × D423 × H500mm
02-45002	CCB-2B	W800 × D523 × H500mm
02-45003	CCB-3B	W1200 × D523 × H500mm

*1 The fan filter unit is not included in the outer dimensions.

MGB-600

Glove box series

Small size stainless steel glove box

Specification

Overall size : W600 × D500 × H500mm
 Inside dimensions : W590 × D495 × H420mm
 Main body opening : 550 × 305mm
 Electrical equipment : 10W × 1 piece / 15W × 1 piece
 Weight : 14kg
 Body material : Body : SUS304
 Window : Polycarbonate



EGX-350N

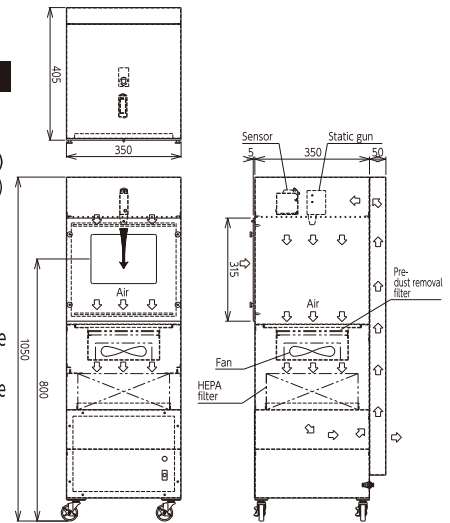
Dust collector series

Dust collecting static blower

This device blows ionized air on the work piece in the washing box, removing dust and static electricity at the same time. The compressed air nozzle is attached from the top and can be quickly removed. Air blowing is automatically operated by sensors. Removed dust is collected by the HEPA filter, preventing contamination of the air in the room environment.

Specification

Window opening dimensions : W200 × H150mm
 Body material : Steel plate baking
 Front door : Antistatic PVC (transparent)
 Exhaust air fan : Airflow 5.5/6.5m³/min (maximum)
 Wind speed 1.1/1.3m/s
 HEPA filter : W280 × D280 × 98t
 Dust collection efficiency
 More than 99.97% (0.3μm)
 Dust removal filter : W215 × D215 × 10t
 Dust-collecting particles 10μm or more
 Pre-filter : W215 × D215 × 3t
 Dust-collecting particles 30~50μm or more
 Air blow switch : Photoelectric sensor
 Supply air inlet : φ6 tube joint
 Ionizer : 6kV
 Electric capacity : AC100V 1A



Code	Model number	Overall size
02-44003	EGX-350N	W350 × D405 × H1050mm

EG-1200

Dust collector series

Dust collecting static air gun

Compressed ionized air is blown onto the product in the washing box, removing dust and static electricity at the same time. Air blowing is automatically operated by sensors. Removed dust is collected by the HEPA filter, preventing contamination of the air in the room environment.

Specification

Window opening dimensions : W180 × H180mm
 Body material : PVC (ivory)
 Exhaust air fan : Airflow 5.5/6.5m³/min (maximum)
 Wind speed 1.1/1.3m/s (maximum)
 HEPA filter : W220 × D220 × 75t
 Dust collection efficiency
 More than 99.97% (0.3μm)
 Dust removal filter : Polyester W240 × D240 × 20t
 Dust-collecting particles 10μm or more
 Pre-filter : Polyester W240 × D240 × 5t
 Dust-collecting particles 30~50μm or more
 Air blow switch : Photoelectric sensor
 Supply air inlet : φ6 one touch joint
 Ionizer : 6kV
 Electric capacity : AC100V 0.5A



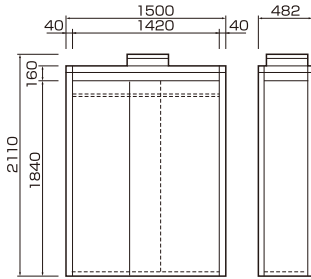
Code	Model number	Overall size
02-37002	EG-1200	W456 × D253 × H373mm

Clean locker

SCR-1500B Clean locker series

Clean locker

Clean wear can be stored in the clean-processed locker. Taking clean wear in and out of the locker is carried out by opening and closing the transparent antistatic curtain. To save space, the curtain opens left to right.



Specification

Effective inside dimension : W1420 × D460 × H1800mm
F i l t e r : Fan filter unit 1 Pre-filter
 Dust collection efficiency : More than 99.99% (0.3μm)
A i r f l o w : 3.0/3.5m³/min
B o d y f r a m e : Aluminium frame
A l l s u r f a c e s : Antistatic curtain (transparent)
 Side / Top / Back / Bottom : Aluminum composite plate



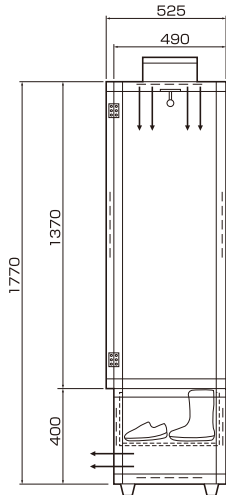
Code	Model number	Overall size	Electric capacity
02-44001	SCR-1500B	W1500 × D482 × H2110mm	AC100V 28/36W

CL/CLC

Clean locker series

Clean locker

Clean wear, boots, and shoes can be stored in the clean-processed locker. The double-door magnet packing type locker can be easily opened with one hand. Design specifications, such as size and degree of cleanness, can be adjusted.



Specification

F i l t e r : Fan filter unit 1 Pre-filter 1 (CL-600 / CLC-600)
 : Fan filter unit 2 units
 Pre-filter 2 pieces (CL-850 / CLC-850)
 W260 × D260 × H150mm
 Dust collection efficiency : More than 99.97% (0.3μm)
D o o r : Magnet packing type
W i n d o w m a t e r i a l : Antistatic PVC (transparent)
F r a m e m a t e r i a l : Aluminum alumite treatment (CL-600 / CL-850)
 : Aluminum Electrodeposited alumite treatment (CLC-600 / CLC-850)

W e i g h t : 45kg

*Can be manufactured to different cleanness and size criteria according to the place of installation and the environment.



CL-850

Code	Model number	Overall size	Side / Top / Back / Bottom	Cleanliness class	Airflow	Electric capacity
02-29001	CL-850	W850 × D525 × H1935mm	Aluminum composite plate	1000	2.0m ³ /min	AC100V 104/98W
02-29002	CL-600	W600 × D525 × H1935mm	(silver)		1.0m ³ /min	AC100V 52/47W
02-30001	CLC-850	W850 × D525 × H1935mm	Aluminum composite plate		2.0m ³ /min	AC100V 104/98W
02-30002	CLC-600	W600 × D525 × H1935mm	(white)		1.0m ³ /min	AC100V 52/47W

Battery-powered clean wagon / Transport wagon

CWB-1

Clean wagon series

Battery-powered clean wagon

Transport wagon equipped with a battery-powered clean unit. Convenient to transport products between clean rooms.

Specification

Unilocular frontage : W497 × H990mm
 Door : Draw latch type
 Top / Side / Back : Antistatic PVC (transparent) plate
 Frame material : Aluminum alumite treatment
 Shelf board material : SUS430 punched
 Shelf board size : 494 × 460mm
 The number of shelf board : 3 sheets
 Caster : Nylon φ65 Adjustable
 Cleanliness : Class 100
 Electric capacity : AC100V 2A

Code	Model number	Overall size
02-33101	CWB-1	W537 × D525 × H1526mm



CWB-1

Installation examples



Clean room equipments

Battery type fan filter unit

Specification

Body material : Steel plate baking (ivory)
 Weight : 16kg
 Dust collection efficiency : More than 99.97% (0.3μm)
 Filter : HEPA filter 1 Pre-filter 1
 Air flow : 1.2m³/min
 Operating time : Continuous operation is possible for 1.5 hours after a full charge.
 When connected to an AC 100 V source, voltage is switched from DC and to provide continuous operation.
 Protection circuit : Overcharge / discharge prevention circuit
 Electric capacity : AC100V 2A



When connected to an outlet, the fan recharge while operating.

W-8

Transport wagon series

8" wafer transport wagon

This wafer transport wagon exhibits high vibration-free performance. Stable movement even over grating is possible due to the silicone gel vibration-proof materials and the urethane rubber casters. When not in use, it can be stored compactly due to the N-shape leg structure.

Specification

Overall size : W640 × D350 × H1120mm
 (when attached to an auxiliary table : W930)
 Body material : SUS304
 Weight : 13kg

*The protection box is not included with the product. Various box dimensions, such as 6", 8", or 12", can be manufactured for the protection carrier wagon.

Code	Model number
02-35001	W-8



Illustration of storage condition



Vibration-proofing gel / collapse prevention tool



Caster

Reticle storage cabinet

R5-215

Storage cabinet series

Reticle storage cabinet

A fan filter unit is installed, ensuring a clean inner area. The reticle case ensures storage in a clean environment. Made to order according to the aluminum frame specifications, number of tiers and lanes of the storage reticle case.



Case receivers can be manufactured according to the shape and size of the reticle case.

Specification

- F i l t e r : Fan filter unit 1 Pre-filter 1
- A i r f l o w : 1.0/0.8m³/min
- B o d y m a t e r i a l : Aluminum composite plate
- F r a m e m a t e r i a l : Aluminum alumite treatment
- D o o r s u r f a c e m a t e r i a l : Antistatic PVC (transparent) plate
- D o o r : Magnet packing type
- C a s e r e c e i v e d : Nylon
- R e t i c l e c a s e s t o r a g e n u m b e r : 5 inch reticle case
15 tiers × 2 lines = 30 pieces stored

Code	Model number	Overall size
02-46101	R5-215	W538 × D330 × H1270mm



Customization example

Reticle storage cabinet



Stainless reticle storage cabinet



Stainless punching plate reticle storage cabinet



Guide rail receiving type



Roller receiving type



Guide rail receiving type



Customization example

Mask storage cabinet

A fan filter unit is installed, ensuring a clean inner area. Ultra-high molecular weight polyethylene with excellent wear resistance for the receiver material is used to control dust. Photomask and liquid crystal cells can be stored in a clean environment.



Slide rail included

Specification

Overall size : W1104 × D525 × H1191mm
 F i l t e r : Fan filter unit 1 Pre-filter 1
 Dust collection efficiency : More than 99.99% (0.3μm)
 A i r f l o w : 3.4/4.5m³/min
 D o o r : Hermetic handle type
 B o d y : Antistatic PVC
 Shelf board material : With slide groove Ultra-high molecular weight polyethylene
 Frame material : Aluminum alumite treatment

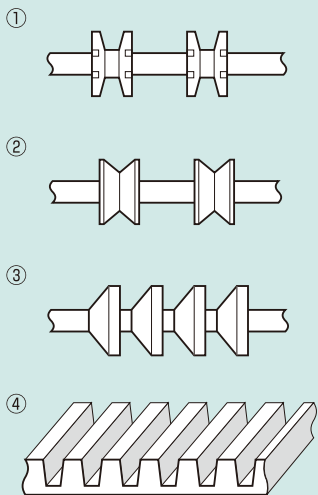


Specification

Overall size : W950 × D930 × H1410mm
 F i l t e r : Fan filter unit 1 Pre-filter 1
 Dust collection efficiency : More than 99.97% (0.3μm)
 A i r f l o w : 3.4/4.5m³/min
 B o d y : SUS304 polish
 F r o n t : Antistatic PET
 Lower roller : Ultra-high molecular weight polyethylene
 Upper roller : Teflon



Roller reference example



Desiccators



A desiccator is a container used to store items which are vulnerable to humidity, by creating a dry environment. Valuable samples and precision devices can be stored in low humidity and a specific air composition environment.

Application

■ Dehumidification / Dry Storage

Outside air is shut out and the dry condition is maintained. Silica gel is a common desiccant, but dehumidification performance relatively low because it uses moisture absorption and chemical change. Silica gel absorbed moisture can be recycled by heat treatment. An extremely moistened sample is usually stored in a desiccator after circulation drying, etc.

【Specific Application】

Storage of glass utensils
Storage of test drugs and samples
Storage of highly absorbent material (powder material, filter paper, etc.)
Storage of sample showing deliquescency (NaOH, CaCl₂, etc.)
Storage of the products which easily oxidize
Storage of samples and seeds
Storage of optical products for cameras, microscopes, etc.

■ Storage of optical products

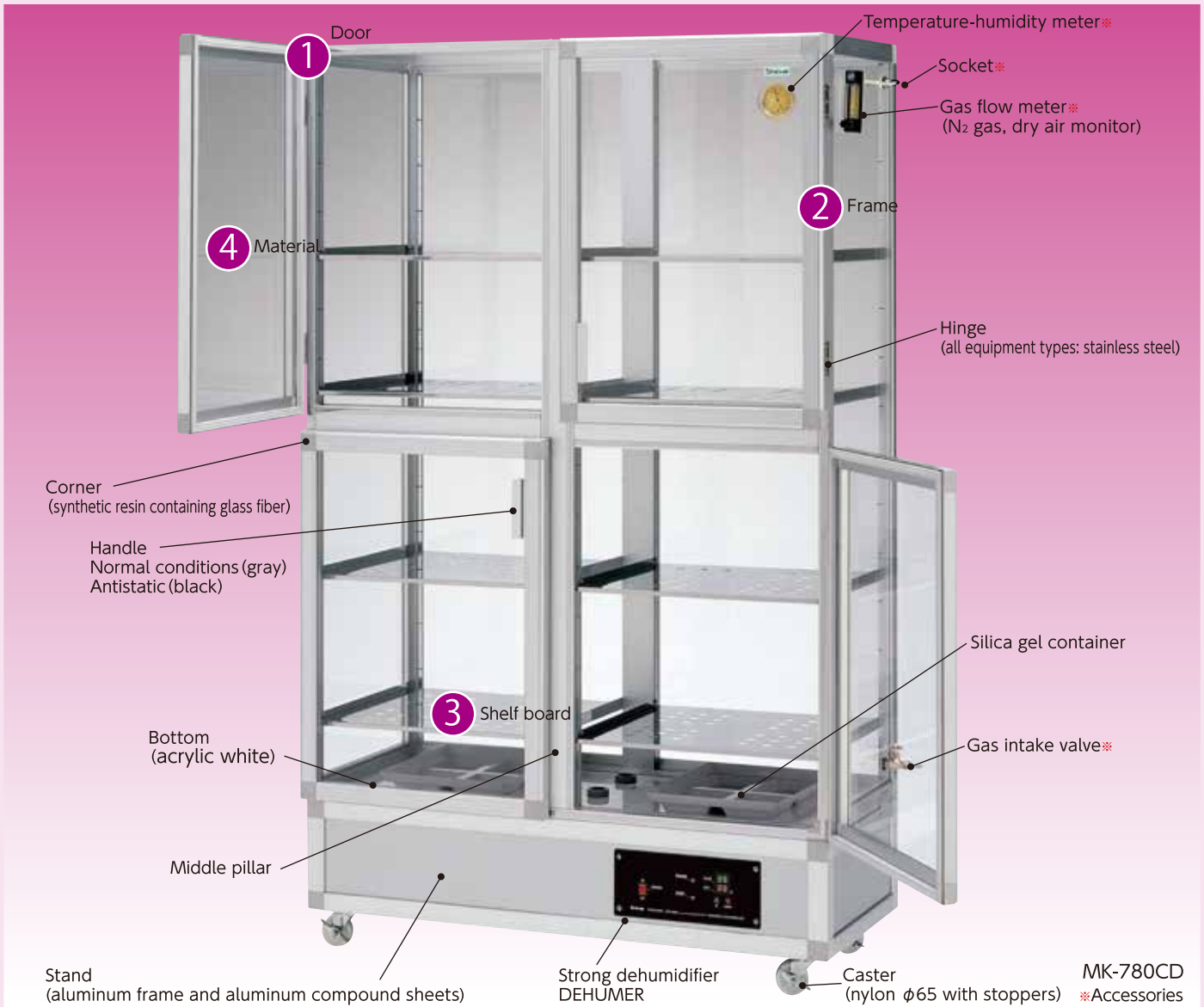
Performance of optical products for camera lenses and microscopes can deteriorate due to moldy storage conditions. A desiccator equipped with a strong dehumidifier is recommended. For a small sized desiccator, silica gel can be used. Moreover, for a simplified method, storage with a dehumidifying agent included for mold prevention in sealed container is sometimes seen. (*Mold cannot be completely prevented simply by dehumidification and/or drying.)

■ Preventing materials from oxidizing

When stronger dehumidification is needed, or when the material is oxy-phobic, air composition can also managed along with the humidity. Common methods include replacing air in the desiccator with inactive gases such as nitrogen and argon, or creating a vacuum environment by venting the air in the desiccator. A vacuum desiccator is also used for experimental operations such as vacuum drying, deaeration, and defoaming by decompression.

Basic specifications of the desiccator

This is a high quality product overflowing with technology from our company, a leading company in aluminum frame desiccator manufacturing.



1 Door

Magnet packing door

The magnet packing door can be easily opened and closed by one hand, and magnetized stainless steel is used in the main body, providing excellent air tightness. **Hermetic handles** and **latches** to emphasize air tightness can also be selected.



Hermetic handle type

Draw latch type



Magnet packing Magnetic stainless steel

2 Frame

Aluminum alumite processed (original shape)

An aluminum frame in pursuit of functionality with a simple design is used. This is our original extrusion molding product.

Fitting groove

The fitting strength of the frame groove and the plate material is enhanced by increasing the sealing level, and is shaped to minimize stray of the silicone.



3 Shelf board

The position can be freely adjusted.

Shelf board (SUS430 φ20 Punching 36 holes)

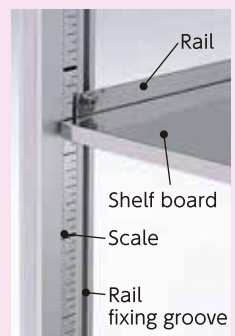
Material of the shelf board is strong stainless, with a surface polishing processing for cleanliness. 36 holes are created by 20mm diameter punching for better air convection in storage.

Rail(SUS430)

Constructed of stainless steel for excellent strength and abrasion resistance

Rail fixing groove / scale

Square-nuts are embedded in the rail fixing groove, and the position of the rail can be freely adjusted while looking at the scale. According to the size of the storing material, the space in the storage can be effectively utilized.



Rail
Shelf board
Scale
Rail fixing groove

























4 Material (Window / Side / Top / Back)

Standard plate material is transparent acrylic. However, any of the following plate materials can be selected. *Price will vary depending on the material.

- Acrylic : transparent, light-resistant, other color plates
- Antistatic PVC : transparent, light-resistant
- PET resin
- Stainless composite plate
- Aluminum composite plate

About the type of desiccator

Our desiccators are mainly divided into five types according to dehumidifying method: standard, powerful dehumidifying, mezo-blend dryer, gas conversion, and vacuum.

		Large size		Medium size		Small size		Wagon type																							
Type	Size																														
Desiccators	Dehumidification capacity	Standard type Absorbs moisture in the storage area by a desiccant agent such as silica gel. Maintenance, such as replacement/replenish of desiccant agent, is needed. This is the most common and inexpensive type.	780L	360L	250L	180L	140L	110L	400L																						
			 	 	 	 	 																								
			MK-780C ▶P23	MK-360C ▶P24	MB-250 ▶P25	MB-180 ▶P25	ML-140 ▶P25	ML-110 ▶P26	MF-110 ▶P26	MF-90 ▶P26	MW-400C ▶P27	MW-300C ▶P27																			
			Stainless steel construction If you need chemical resistance and durability, choose our stainless steel desiccator. Products for use in a clean room can be order-made.																												
			<table border="1"> <thead> <tr> <th>Type</th> <th>Size</th> <th>Large size</th> <th>Medium size</th> <th>Small size</th> </tr> </thead> <tbody> <tr> <td rowspan="2">Standard type</td> <td></td> <td></td> <td>190L</td> <td>40L</td> </tr> <tr> <td></td> <td></td> <td>S-190C ▶P28</td> <td>S-40 ▶P28</td> </tr> <tr> <td rowspan="2">Vacuum type</td> <td></td> <td>100L</td> <td>45L</td> <td></td> </tr> <tr> <td></td> <td>VS-100 ▶P38</td> <td>VS-45 ▶P38</td> <td></td> </tr> </tbody> </table>									Type	Size	Large size	Medium size	Small size	Standard type			190L	40L			S-190C ▶P28	S-40 ▶P28	Vacuum type		100L	45L		
Type	Size	Large size	Medium size	Small size																											
Standard type			190L	40L																											
			S-190C ▶P28	S-40 ▶P28																											
Vacuum type		100L	45L																												
		VS-100 ▶P38	VS-45 ▶P38																												
High	Membrane dryer type A dehumidifier with a desiccant agent is used and air in the storage area is circulated. The desiccant is automatically replenished for easy maintenance and economic efficiency.	780L	360L	250L																											
		 																													
		MK-780CD ▶P29	MK-360CD ▶P30	MB-250CD ▶P31																											
		Gas replacement type This desiccator includes a built-in membrane dryer. Compressed air is forced through a hollow fiber type membrane. A desiccant agent is not required, and excellent dehumidification performance is provided. *Installation of air piping is required.	780L	360L																											
			 																												
MK-780CM ▶P32	MK-360CM ▶P32																														
Vacuum type Dehumidification is performed by decompression by vacuum pump. Suitable for storing unstable samples and material, the same as gas conversion. Moreover, this is also suitable for experimental operations such as vacuum drying, deaeration and defoaming.	780L		360L	180L × 4 room	180L × 2 room																										
	 		 																												
	NC-780C ▶P33	NC-360C ▶P33	N-1804CX ▶P34	N-1802C ▶P34																											
	110L	48L	30L	12L	7L																										
	 		 																												
V-110 ▶P35	V-48 ▶P35	V-30 ▶P36	V-12 ▶P36	V-7 ▶P36																											

Wide lineup

Our line up varies in size from large 780L capacity desiccators to small 90L desiccators. Partial made to order desiccators which include products for ultraviolet countermeasures, static electricity countermeasures, and vibrational absorption casters are also available.

Partial made to order

Door [Front and back side door
Slide storage door] Shelf board [Slide rail shelf board
Reinforced load-resistant shelf board]
Material modifications (for ultraviolet countermeasures, static electricity countermeasures, etc.), vibration absorbing casters, etc.

Special order

We accept special orders to meet your desired specifications and specific functions. Please feel free to ask for details.

Example of desiccator Special order ● Clean carrier wagon ● Reticle storage cabinet ● Mask storage cabinet ● Aging equipment ● Ultraviolet exposure equipment ● Glove box, etc.

Customization example

*Manufacturing to special specifications is available.



Gas replacement stainless steel desiccator (8-room specification)



Gas replacement stainless steel desiccator (Conforms to use in a clean room)



Desiccator for storing wafers

Large size desiccator to store 8-inch wafers.



Cassette storage cabinet

Ultra heavy glass cassette cases can be stored. A fan filter unit is installed, to maintain clean conditions inside the storage.



Humidification storage cabinet Panel stocker

Storage for articles which require humidification. The front door is of double layer construction, and has specifications to avoid dew condensation.

Prevents dust accumulation using super-high-molecular polyethylene for the shelf boards. The shelf boards can be inserted and removed by the slide rail.

Panel clean stocker

The panel stocker is equipped with a clean module unit on the top. Storage inside remains clean.

Large size vacuum desiccator

(Stainless steel construction)

The super-size vacuum desiccator is constructed of stainless steel. The front surface is clear acrylic, allowing for confirmation of internal conditions.

Large size vacuum desiccator

(Acrylic construction)

The large size vacuum desiccator is constructed of acrylic. The bench is manufactured with an aluminum frame.



Desiccator - Standard type

MK-780C
780 series

Standard desiccator

Standard type / Large size

High airtightness has been achieved by the special frame structure. The large size standard type desiccator absorbs moisture in the storage area using silica gel. Magnet packing type doors which are easy to open and close, and close handle type doors to maintain high airtightness can be selected.



MK-780CS

Stainless steel composite plate
The stainless steel composite boards have excellent electrical conductivity, chemical resistance, and corrosion resistance and are suitable for storing electronic parts and drugs.



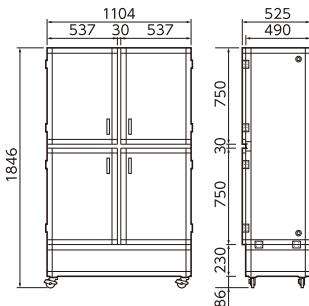
MK-780CA

Aluminum composite plate
Aluminum composite boards with good conductivity are used and are suitable for use as static electricity countermeasures.



MK-780CE

PET resin
PET resin from recycled pet bottles is used. This is an environment friendly product that reduces global garbage.



Specification

Overall size : W1104 × D525 × H1846mm

Effective inside dimension : W1064 × D470 × H1490mm

Cubic capacity : 780L

Unilocular frontage : W497 × H710mm

Shelf board size : W494 × D460mm

Shelf board material : Punched shelf board
SUS430 φ20 × 36 holes

The number of shelf board : 8 sheets

Shelf board load : 12kg uniform distributions

Silica gel container : 2 sheets

Frame material : Aluminum alumite treatment

Corner material : Synthetic resin containing glass fiber

Stand material : Aluminum frame
Composite panel plate (silver)

Caster : Nylon φ65 with stoppers

Whole withstand load : 120kg

Weight : 62kg

Accessories : Spare shelf board, Silica gel,
Purge flow meter, Gas filling valve,
Greenhouse clock

MK-780C Magnet packing type Caster

Code	Model number	Door type	Window / Side / Top / Back	Bottom
01-02001	MK-780C	Magnet packing type	Acrylic (transparent)	Acrylic (white)
01-02002	MK-780CN		Antistatic PVC (transparent)	Antistatic PVC (ivory)
01-02003	MK-780CB		Acrylic (light-shielding)	Acrylic (white)
01-25001	MK-780CS		Stainless steel composite plate *Window: Antistatic PVC (transparent)	Stainless steel composite plate
01-44001	MK-780CA		Aluminum composite plate *Window: Antistatic PVC (transparent)	Aluminum composite plate
01-47002	MK-780CE		PET resin (transparent)	PET resin (white)
01-02004	HK-780C	Sealed handle type	Acrylic (transparent)	Acrylic (white)
01-02005	HK-780CN		Antistatic PVC (transparent)	Antistatic PVC (ivory)
01-02006	HK-780CB		Acrylic (light-shielding)	Acrylic (white)
01-25002	HK-780CS		Stainless steel composite plate *Window: Antistatic PVC (transparent)	Stainless steel composite plate
01-44002	HK-780CA		Aluminum composite plate *Window: Antistatic PVC (transparent)	Aluminum composite plate
01-47014	HK-780CE		PET resin (transparent)	PET resin (white)
01-36001	T-1	Spare shelf board (with rails)		

MK-360C

360 series

Standard desiccator

Standard type / Large size

High airtightness has been achieved by the special frame structure. The large size standard type desiccator absorbs moisture in the storage area using silica gel. Draw latch type doors which are easy to open and close, and close handle type doors to maintain high airtightness can be selected.



MK-360CS

Stainless steel composite plate
The stainless steel composite boards have excellent electrical conductivity, chemical resistance, and corrosion resistance and are suitable for storing electronic parts and drugs.



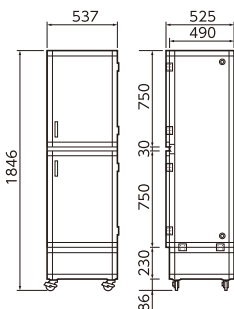
MK-360CA

Aluminum composite plate
Aluminum composite boards with good conductivity are used and are suitable for use as static electricity countermeasures.



MK-360CE

PET resin
PET resin from recycled pet bottles is used. This is an environment friendly product that reduces global garbage.



MK-360C Magnet packing type Caster

Specification

- Overall size : W537 × D525 × H1846mm
- Effective inside dimension : W497 × D470 × H1490mm
- Cubic capacity : 360L
- Unilocular frontage : W497 × H710mm
- Shelf board size : W494 × D460mm
- Shelf board material : Punched shelf board SUS430 φ20 × 36 holes
- The number of shelf board : 4 sheets
- Shelf board load : 12kg uniform distributions
- Silica gel container : 1 sheet
- Frame material : Aluminum alumite treatment
- Corner material : Synthetic resin containing glass fiber
- Stand material : Aluminum frame Composite panel plate (silver)
- Caster : Nylon φ65 with stoppers
- Whole withstand load : 120kg
- Weight : 35kg
- Accessories : Spare shelf board, Silica gel, Purge flow meter, Gas filling valve, Greenhouse clock

Code	Model number	Door type	Window / Side / Top / Back	Bottom
01-04001	MK-360C	Magnet packing type	Acrylic (transparent)	Acrylic (white)
01-04002	MK-360CN		Antistatic PVC (transparent)	Antistatic PVC (ivory)
01-04003	MK-360CB		Acrylic (light-shielding)	Acrylic (white)
01-27001	MK-360CS		Stainless steel composite plate *Window:Antistatic PVC (transparent)	Stainless steel composite plate
01-44016	MK-360CA		Aluminum composite plate *Window:Antistatic PVC (transparent)	Aluminum composite plate
01-47004	MK-360CE		PET resin (transparent)	PET resin (white)
01-04004	PK-360C	Draw latch type	Acrylic (transparent)	Acrylic (white)
01-04005	PK-360CN		Antistatic PVC (transparent)	Antistatic PVC (ivory)
01-04006	PK-360CB		Acrylic (light-shielding)	Acrylic (white)
01-27002	PK-360CS		Stainless steel composite plate *Window:Antistatic PVC (transparent)	Stainless steel composite plate
01-44017	PK-360CA		Aluminum composite plate *Window:Antistatic PVC (transparent)	Aluminum composite plate
01-47013	PK-360CE		PET resin (transparent)	PET resin (white)

MB-250

250 series

Standard desiccator

Standard type / Medium, Small size

High airtightness has realized the special frame structure. This mid- to small-size standard type desiccator absorbs moisture in the storage area using silica gel. Magnet packing type doors which are easy to open and close, and latch type doors to maintain high airtightness can be selected.



MB-250 Magnet packing type Rubber foot

Specification

Overall size : (Rubber foot) W537 × D525 × H1050mm
 : (Caster) W537 × D525 × H1116mm
 Effective inside dimension : W497 × D470 × H990mm
 Cubic capacity : 250L
 Unilocular frontage : W497 × H990mm
 Shelf board size : W494 × D460mm
 Shelf board material : SUS430 φ20 × 36 holes
 The number of shelf board : 4 sheets

Shelf board load : 12kg uniform distributions
 Silica gel container : 1 sheet
 Frame material : Aluminum alumite treatment
 Corner material : Synthetic resin containing glass fiber
 Leg / Caster : Rubber foot / Nylon φ65 with stoppers
 Whole withstand load : 120kg
W e i g h t : 26kg
Accessories : Spare shelf board, Silica gel, Purge flow meter, Gas filling valve, Greenhouse clock, Top board

Code	Model number	Door type/Foot	Window / Side / Top / Rear	Bottom
01-43001	MB-250	Magnet packing type	Acrylic (transparent)	Acrylic (white)
01-43002	MB-250N		Antistatic PVC (transparent)	Antistatic PVC (ivory)
01-43003	MB-250B		Acrylic (light-shielding)	Acrylic (light-shielding)
01-46001	MB-250A	Rubber foot	Aluminum composite plate *Window:Antistatic PVC (transparent)	Aluminum composite plate
01-43004	MB-250C	Magnet packing type	Acrylic (transparent)	Acrylic (white)
01-43005	MB-250CN		Antistatic PVC (transparent)	Antistatic PVC (ivory)
01-43006	MB-250CB		Acrylic (light-shielding)	Acrylic (light-shielding)
01-46002	MB-250CA	Casters	Aluminum composite plate *Window:Antistatic PVC (transparent)	Aluminum composite plate
01-43007	PB-250	Draw latch type	Acrylic (transparent)	Acrylic (white)
01-43008	PB-250N		Antistatic PVC (transparent)	Antistatic PVC (ivory)
01-43009	PB-250B		Acrylic (light-shielding)	Acrylic (light-shielding)
01-46003	PB-250A	Rubber foot	Aluminum composite plate *Window:Antistatic PVC (transparent)	Aluminum composite plate
01-43010	PB-250C	Draw latch type	Acrylic (transparent)	Acrylic (white)
01-43011	PB-250CN		Antistatic PVC (transparent)	Antistatic PVC (ivory)
01-43012	PB-250CB		Acrylic (light-shielding)	Acrylic (light-shielding)
01-46004	PB-250CA	Casters	Aluminum composite plate *Window:Antistatic PVC (transparent)	Aluminum composite plate
01-36001	T-1	Spare shelf board (with rails)		

Specification

Overall size : W537 × D525 × H825mm
 Effective inside dimension : W497 × D470 × H765mm
 Cubic capacity : 180L
 Shelf board size : W494 × D460mm
 Shelf board material : SUS430 φ20 × 36 holes
 The number of shelf board : 2 sheets
 Shelf board load : 12kg uniform distributions

Silica gel container : 1 sheet
 Frame material : Aluminum alumite treatment
 Corner material : Synthetic resin containing glass fiber
L e g : Rubber foot
 Whole withstand load : 120kg
W e i g h t : 20kg
Accessories : Spare shelf board, Silica gel, Purge flow meter, Gas filling valve, Greenhouse clock, Top board

Code	Model number	Door type	Window / Side / Top / Rear	Bottom
01-08001	MB-180	Magnet packing type	Acrylic (transparent)	Acrylic (white)
01-08002	MB-180N		Antistatic PVC (transparent)	Antistatic PVC (ivory)
01-08003	MB-180B		Acrylic (light-shielding)	Acrylic (light-shielding)
01-22001	MB-180A		Aluminum composite plate *Window:Antistatic PVC (transparent)	Aluminum composite plate
01-08004	PB-180	Draw latch type	Acrylic (transparent)	Acrylic (white)
01-08005	PB-180N		Antistatic PVC (transparent)	Antistatic PVC (ivory)
01-08006	PB-180B		Acrylic (light-shielding)	Acrylic (light-shielding)
01-22002	PB-180A		Aluminum composite plate *Window:Antistatic PVC (transparent)	Aluminum composite plate
01-36001	T-1	Spare shelf board (with rails)		

Specifications

Overall size : W447 × D525 × H740mm
 Effective inside dimension : W407 × D470 × H680mm
 Cubic capacity : 140L
 Shelf board size : W403 × D460mm
 Shelf board material : SUS430 φ20 × 36 holes
 The number of shelf board : 3 sheets
 Shelf board load : 12kg uniform distributions

Silica gel container : 1 sheet
 Frame material : Aluminum alumite treatment
 Corner material : Synthetic resin containing glass fiber
L e g : Rubber foot
 Whole withstand load : 120kg
W e i g h t : 16kg
Accessories : Spare shelf board, Silica gel, Thermo-hygrometer, Top board

Code	Model number	Door type	Window / Side / Top / Rear	Bottom
01-09001	ML-140	Magnet packing type	Acrylic (transparent)	Acrylic (white)
01-09002	ML-140N		Antistatic PVC (transparent)	Antistatic PVC (ivory)
01-09003	ML-140B		Acrylic (light-shielding)	Acrylic (light-shielding)
01-09004	PL-140	Draw latch type	Acrylic (transparent)	Acrylic (white)
01-09005	PL-140N		Antistatic PVC (transparent)	Antistatic PVC (ivory)
01-09006	PL-140B		Acrylic (light-shielding)	Acrylic (light-shielding)
01-36002	T-2	Spare shelf board (with rails)		



MB-180 Magnet packing type Rubber foot

ML-140

140 series



ML-140 Magnet packing type Rubber foot

ML-110

110 series

Standard desiccator

Standard type / Medium, Small size

High airtightness has realized the special frame structure. This mid- to small-size standard type desiccator absorbs moisture in the storage area using silica gel. Magnet packing type doors which are easy to open and close, and latch type doors to maintain high airtightness can be selected.



ML-110 Magnet packing type Rubber foot

Specification

Overall size : W447 × D525 × H580mm
 Effective inside dimension : W407 × D470 × H520mm
 Cubic capacity : 110L
 Shelf board size : W403 × D460mm
 Shelf board material : SUS430 φ20 × 36 holes
 The number of shelf board : 2 sheets
 Shelf board load : 12kg uniform distributions
 Silica gel container : 1 sheet

Frame material : Aluminum alumite treatment
 Corner material : Synthetic resin containing glass fiber
 L e g : Rubber foot
 Whole withstand load : 120kg
 W e i g h t : 12kg
 Accessories : Spare shelf board, Silica gel, Thermo-hygrometer, Top board

Code	Model number	Door type	Window / Side / Top / Rear	Bottom
01-10001	ML-110	Magnet packing type	Acrylic (transparent)	Acrylic (white)
01-10002	ML-110N		Antistatic PVC (transparent)	Antistatic PVC (ivory)
01-10003	ML-110B		Acrylic (light-shielding)	Acrylic (light-shielding)
01-10004	PL-110	Draw latch type	Acrylic (transparent)	Acrylic (white)
01-10005	PL-110N		Antistatic PVC (transparent)	Antistatic PVC (ivory)
01-10006	PL-110B		Acrylic (light-shielding)	Acrylic (light-shielding)
01-36002	T-2	Spare shelf board (with rails)		

MF-110

110 series



MF-110 Magnet packing type Rubber foot

Specification

Overall size : W447 × D422 × H740mm
 Effective inside dimension : W407 × D367 × H680mm
 Cubic capacity : 110L
 Shelf board size : W403 × D357mm
 Shelf board material : SUS430 φ20 × 36 holes
 The number of shelf board : 3 sheets
 Shelf board load : 12kg uniform distributions
 Silica gel container : 1 sheet

Frame material : Aluminum alumite treatment
 Corner material : Synthetic resin containing glass fiber
 L e g : Rubber foot
 Whole withstand load : 120kg
 W e i g h t : 14kg
 Accessories : Spare shelf board, Silica gel, Thermo-hygrometer, Top board

Code	Model number	Door type	Window / Side / Top / Rear	Bottom
01-11001	MF-110	Magnet packing type	Acrylic (transparent)	Acrylic (white)
01-11002	MF-110N		Antistatic PVC (transparent)	Antistatic PVC (ivory)
01-11003	MF-110B		Acrylic (light-shielding)	Acrylic (light-shielding)
01-11004	PF-110	Draw latch type	Acrylic (transparent)	Acrylic (white)
01-11005	PF-110N		Antistatic PVC (transparent)	Antistatic PVC (ivory)
01-11006	PF-110B		Acrylic (light-shielding)	Acrylic (light-shielding)
01-36003	T-3	Spare shelf board (with rails)		

MF-90

90 series



MF-90 Magnet packing type Rubber foot

Specification

Overall size : W447 × D422 × H580mm
 Effective inside dimension : W407 × D367 × H520mm
 Cubic capacity : 90L
 Shelf board size : W403 × D357mm
 Shelf board material : SUS430 φ20 × 36 holes
 The number of shelf board : 2 sheets
 Shelf board load : 12kg uniform distributions
 Silica gel container : 1 sheet

Frame material : Aluminum alumite treatment
 Corner material : Synthetic resin containing glass fiber
 L e g : Rubber foot
 Whole withstand load : 120kg
 W e i g h t : 10kg
 Accessories : Spare shelf board, Silica gel, Thermo-hygrometer, Top board

Code	Model number	Door type	Window / Side / Top / Rear	Bottom
01-12001	MF-90	Magnet packing type	Acrylic (transparent)	Acrylic (white)
01-12002	MF-90N		Antistatic PVC (transparent)	Antistatic PVC (ivory)
01-12003	MF-90B		Acrylic (light-shielding)	Acrylic (light-shielding)
01-12004	PF-90	Draw latch type	Acrylic (transparent)	Acrylic (white)
01-12005	PF-90N		Antistatic PVC (transparent)	Antistatic PVC (ivory)
01-12006	PF-90B		Acrylic (light-shielding)	Acrylic (light-shielding)
01-36003	T-3	Spare shelf board (with rails)		

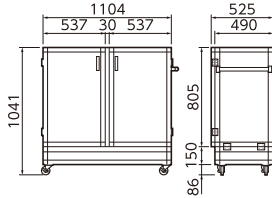
Desiccator - Wagon type

MW-400C
400 series

Wagon desiccator

Standard type / Wagon type

A handle is attached to the desiccator to use as a carrier wagon. Magnet packing type doors which are easy to open and close, and close handle type doors to maintain high airtightness can be selected.



Specification

- Overall size : W1104 × D525 × H1041mm
- Effective inside dimension : W1064 × D470 × H765mm
- Cubic capacity : 400L
- Unilocular frontage : W497 × H765mm
- Shelf board size : W494 × D460mm
- Shelf board material : SUS430 φ20 × 36 holes
- The number of shelf board : 6 sheets
- Shelf board load : 12kg uniform distributions
- Silica gel container : 2 sheets
- Frame material : Aluminum alumite treatment
- Corner material : Synthetic resin containing glass fiber
- Push handle : SUS304 φ25
- C a s t e r : Nylon φ65 with stoppers
- Stand material : Aluminum frame
Composite panel plate (silver)
- Whole withstand load : 100kg
- W e i g h t : 40kg
- Accessories : Spare shelf board, Silica gel, Thermo-hygrometer, Top board



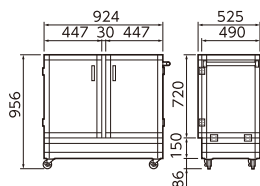
MW-400C Magnet packing type Caster



Example of top panel attachment

Code	Model number	Door type	Window / Side / Top / Rear	Bottom
01-16001	MW-400C	Magnet packing type	Acrylic (transparent)	Acrylic (white)
01-16002	MW-400CN		Antistatic PVC (transparent)	Antistatic PVC (ivory)
01-16003	MW-400CB		Acrylic (light-shielding)	Acrylic (white)
01-45001	MW-400CA		Aluminum composite plate *Window: Antistatic PVC (transparent)	Aluminum composite plate
01-16004	HW-400C	Sealed handle type	Acrylic (transparent)	Acrylic (white)
01-16005	HW-400CN		Antistatic PVC (transparent)	Antistatic PVC (ivory)
01-16006	HW-400CB		Acrylic (light-shielding)	Acrylic (white)
01-45002	HW-400CA		Aluminum composite plate *Window: Antistatic PVC (transparent)	Aluminum composite plate
01-36001	T-1	Spare shelf board (with rails)		
01-36014	TO-11	Top board		

MW-300C
300 series



Specification

- Overall size : W924 × D525 × H956mm
- Effective inside dimension : W884 × D470 × H680mm
- Cubic capacity : 300L
- Unilocular frontage : W407 × H680mm
- Shelf board size : W403 × D460mm
- Shelf board material : SUS430 φ20 × 36 holes
- The number of shelf board : 6 sheets
- Shelf board load : 12kg uniform distributions
- Silica gel container : 2 sheets
- Frame material : Aluminum alumite treatment
- Corner material : Synthetic resin containing glass fiber
- Push handle : SUS304 φ25
- C a s t e r : Nylon φ65 with stoppers
- Stand material : Aluminum frame
Composite panel plate (silver)
- Whole withstand load : 60kg
- W e i g h t : 34kg
- Accessories : Spare shelf board, Silica gel, Thermo-hygrometer, Top board



MW-300C Magnet packing type Caster



Example of top panel attachment

Code	Model number	Door type	Window / Side / Top / Rear	Bottom
01-16007	MW-300C	Magnet packing type	Acrylic (transparent)	Acrylic (white)
01-16008	MW-300CN		Antistatic PVC (transparent)	Antistatic PVC (ivory)
01-16009	MW-300CB		Acrylic (light-shielding)	Acrylic (white)
01-45003	MW-300CA		Aluminum composite plate *Window: Antistatic PVC (transparent)	Aluminum composite plate
01-16010	HW-300C	Sealed handle type	Acrylic (transparent)	Acrylic (white)
01-16011	HW-300CN		Antistatic PVC (transparent)	Antistatic PVC (ivory)
01-16012	HW-300CB		Acrylic (light-shielding)	Acrylic (white)
01-45004	HW-300CA		Aluminum composite plate *Window: Antistatic PVC (transparent)	Aluminum composite plate
01-36002	T-2	Spare shelf board (with rails)		
01-36015	TO-9	Top board		

Desiccator - Stainless steel type

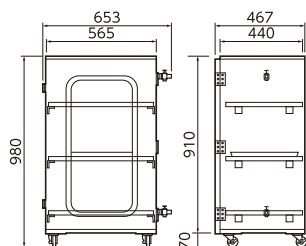
S-190C

Stainless steel series

Stainless steel desiccator

Standard type / Stainless steel type / Medium size

This is a stainless steel desiccator with exceptional chemical resistance and durability.
Can be used as a gas desiccator with the standard equipped gas sealed valve. (simple sealed type)



Specification

Effective inside dimension : W515 × D440 × H860mm
 Cubic capacity : 190L
 D o o r s : Draw latch type
 Body packing : Neoprene rubber
 Body material : SUS430
 Window material : Acrylics (transparent)
 Shelf board size : W540 × D410 × H25mm
 Shelf board material : SUS430 φ20 × 20 holes
 Shelf board space : 40mm pitch
 The number of shelf board : 3 sheets
 Shelf board load : 20kg uniform distributions
 Gas intake valve : φ6 tube joint
 Silica gel container : SUS430 1 sheet
 C a s t e r s : Nylon φ50 with stoppers 2
 Without stopper 2
 Whole withstand load : 60kg
 W e i g h t : 32kg
 Accessories : Spare shelf board, Silica gel, Thermo-hygrometer

*Glass is also available for window material.

*However, a greenhouse clock cannot be attached to a glass window.



Draw latch type | Caster

Code	Model number	Overall size
01-28001	S-190C	W565 × D467 × H980mm
01-36004	T-8	Spare shelf board (with bracket)

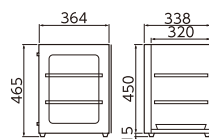
S-40

Stainless steel series

Stainless steel desiccator

Standard type / Stainless Steel type / Small size

This is a stainless steel desiccator with exceptional chemical resistance and durability.
This is a space-saving compact type and can be used for multiple applications.



Specification

Effective inside dimension : W310 × D320 × H420mm
 Cubic capacity : 40L
 D o o r s : Draw latch type
 Body packing : Neoprene rubber
 Body material : SUS430
 Window material : Acrylics (transparent)
 Shelf board size : W309 × D304 × H12mm
 Shelf board material : SUS430 φ20 × 25 holes
 Shelf board space : 70mm pitch
 The number of shelf board : 2 sheets
 Shelf board load : 20kg uniform distributions
 Silica gel container : SUS430 1 sheet
 Whole withstand load : 40kg
 W e i g h t : 10kg
 Accessories : Spare shelf board, Silica gel, Thermo-hygrometer

*Glass is also available for window material.

*However, a greenhouse clock cannot be attached to a glass window.



Draw latch type | Rubber foot

Code	Model number	Overall size
01-28002	S-40	W364 × D338 × H465mm
01-36005	T-9	Spare shelf board

Desiccator - Strong dehumidifier type

MK-780CD
780 series

Desiccator with strong dehumidifier

Strong dehumidifier type / Large size

With the strong built-in dehumidifier, even a large quantity of products can be stored without worry. The special frame structure maintains high airtightness. Magnet packing type doors which are easy to open and close, and close handle type doors to maintain high airtightness can be selected.

Desiccators



MK-780CSD

Stainless steel composite plate
The stainless steel composite boards have excellent electrical conductivity, chemical resistance, and corrosion resistance and are suitable for storing electronic parts and drugs.



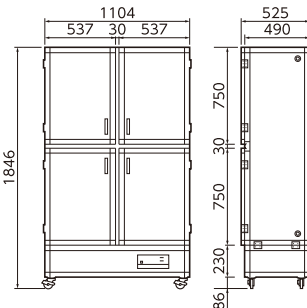
MK-780CAD

Aluminum composite plate
Aluminum composite boards with good conductivity are used and are suitable for use as static electricity countermeasures.



MK-780CED

PET resin
PET resin from recycled pet bottles is used. This is an environment friendly product that reduces global garbage.



MK-780CD Magnet packing type Caster

Specification

- Overall size : W1104 × D525 × H1846mm
- Effective inside dimension : W1064 × D470 × H1490mm
- Cubic capacity : 780L
- Unilocular frontage : W497 × H710mm
- Shelf board size : W494 × D460mm
- Shelf board material : SUS430 φ20 × 36 holes
- The number of shelf board : 8 sheets
- Shelf board load : 12kg uniform distributions
- Dry air flow : Compulsive convection type opening-and-closing control of a valve
- Dehumidification cycle : 1. Setting Humidity Un-Reaching
A repetition of dryness 25 minutes and dehumidification 50 minutes
2. After set humidity reach
ON-OFF-controls by the Semiconductors sensors
- Temperature settings : 20% - ambient humidity
- Temperature display : Humidity in warehouse : Green lamp
Set humidity : Red lamp
- Frame material : Aluminum alumite treatment
- Corner material : Synthetic resin containing glass fiber
- Stand material : Aluminum frame
Composite panel plate (silver)
- Caster : Nylon φ65 with stoppers
- Whole withstand load : 120kg
- Electric capacity : AC100V 1A
(when reproducing the desiccant)
- Weight : 63kg
- Accessories : Spare shelf board, Greenhouse clock

Code	Model number	Door type	Window / Side / Top / Back	Bottom
01-01001	MK-780CD	Magnet packing type	Acrylic (transparent)	Acrylic (white)
01-01002	MK-780CND		Antistatic PVC (transparent)	Antistatic PVC (ivory)
01-01003	MK-780CBD		Acrylic (light-shielding)	Acrylic (white)
01-24001	MK-780CSD	Sealed handle type	Stainless steel composite plate *Window: Antistatic PVC (transparent)	Stainless steel composite plate
01-44011	MK-780CAD		Aluminum composite plate *Window: Antistatic PVC (transparent)	Aluminum composite plate
01-47001	MK-780CED		PET resin (transparent)	PET resin (white)
01-01004	HK-780CD	Sealed handle type	Acrylic (transparent)	Acrylic (white)
01-01005	HK-780CND		Antistatic PVC (transparent)	Antistatic PVC (ivory)
01-01006	HK-780CBD		Acrylic (light-shielding)	Acrylic (white)
01-24002	HK-780CSD	Sealed handle type	Stainless steel composite plate *Window: Antistatic PVC (transparent)	Stainless steel composite plate
01-44012	HK-780CAD		Aluminum composite plate *Window: Antistatic PVC (transparent)	Aluminum composite plate
01-47011	HK-780CED		PET resin (transparent)	PET resin (white)
01-36001	T-1		Spare shelf board (with rails)	

MK-360CD

360 series

Desiccator with strong dehumidifier

Strong dehumidifier type / Large size

With the strong built-in dehumidifier, even a large quantity of products can be stored without worry. The special frame structure maintains high airtightness. Magnet packing type doors which are easy to open and close, and latch type doors to maintain high airtightness can be selected.



MK-360CSD

Stainless steel composite plate
The stainless steel composite boards have excellent electrical conductivity, chemical resistance, and corrosion resistance and are suitable for storing electronic parts and drugs.



MK-360CAD

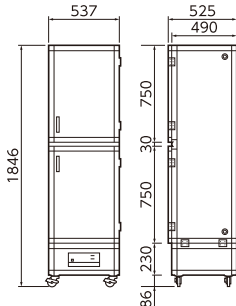
Aluminum composite plate
Aluminum composite boards with good conductivity are used and are suitable for use as static electricity countermeasures.



MK-360CED

PET resin

PET resin from recycled pet bottles is used. This is an environment friendly product that reduces global garbage.



Specification

Overall size : W537 × D525 × H1846mm

Effective inside dimension : W497 × D470 × H1490mm

Cubic capacity : 360L

Unilocular frontage : W497 × H710mm

Shelf board size : W494 × D460mm

Shelf board material : SUS430 φ20 × 36 holes

The number of shelf board : 4 sheets

Shelf board load : 12kg uniform distributions

Dry air flow : Compulsive convection type opening-and-closing control of a valve

Dehumidification cycle : 1. Setting Humidity Un-Reaching
A repetition of dryness 25 minutes and dehumidification 50 minutes
2. After set humidity reach
ON-OFF-controls by the Semiconductors sensors

Temperature settings : 20% - ambient humidity

Temperature display : Humidity in warehouse : Green lamp
Set humidity : Red lamp

Frame material : Aluminum alumite treatment

Corner material : Synthetic resin containing glass fiber

Stand material : Aluminum frame
Composite panel plate (silver)

Caster : Nylon φ65 with stoppers

Whole withstand load : 120kg

Electric capacity : AC100V 1A
(when reproducing the desiccant)

Weight : 36kg

Accessories : Spare shelf board, Greenhouse clock



MK-360CD Magnet packing type Caster

Code	Model number	Door type	Window / Side / Top / Back	Bottom
01-03001	MK-360CD	Magnet packing type	Acrylic (transparent)	Acrylic (white)
01-03002	MK-360CND		Antistatic PVC (transparent)	Antistatic PVC (ivory)
01-03003	MK-360CBD		Acrylic (light-shielding)	Acrylic (white)
01-26001	MK-360CSD		Stainless steel composite plate *Window:Antistatic PVC (transparent)	Stainless steel composite plate
01-44021	MK-360CAD		Aluminum composite plate *Window:Antistatic PVC (transparent)	Aluminum composite plate
01-47003	MK-360CED		PET resin (transparent)	PET resin (white)
01-03004	PK-360CD	Draw latch type	Acrylic (transparent)	Acrylic (white)
01-03005	PK-360CND		Antistatic PVC (transparent)	Antistatic PVC (ivory)
01-03006	PK-360CBD		Acrylic (light-shielding)	Acrylic (white)
01-26002	PK-360CSD		Stainless steel composite plate *Window:Antistatic PVC (transparent)	Stainless steel composite plate
01-44022	PK-360CAD		Aluminum composite plate *Window:Antistatic PVC (transparent)	Aluminum composite plate
01-47012	PK-360CED		PET resin (transparent)	PET resin (white)
01-36001	T-1	Spare shelf board (with rails)		

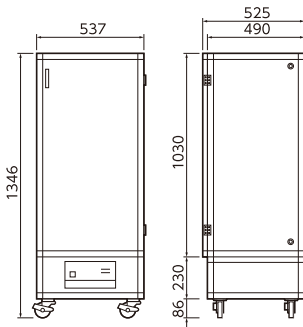
Desiccator - Strong dehumidifier type

MB-250CD
250 series

Desiccator with dehumer

Strong dehumidifier type / Medium size

With the strong built-in dehumidifier, even a large quantity of products can be stored without worry. The special frame structure maintains high airtightness. Magnet packing type doors which are easy to open and close, and close handle type doors to maintain high airtightness can be selected.



Specification

Overall size : (Rubber foot) W537 × D525 × H1280mm
(Caster) W537 × D525 × H1346mm

Effective inside dimension : W497 × D470 × H990mm

Cubic capacity : 250L

Unilocular frontage : W497 × H990mm

Shelf board size : W494 × D460mm

Shelf board material : SUS430 φ20 × 36 holes

The number of shelf board : 4 sheets

Shelf board load : 12kg uniform distributions

Dry air flow : Compulsive convection type opening-and-closing control of a valve

Dehumidification cycle : 1. Setting Humidity Un-Reaching
A repetition of dryness 25 minutes and dehumidification 50 minutes
2. After set humidity reach
ON-OFF-controls by the Semiconductors sensors

Temperature settings : 20% - ambient humidity

Temperature display : Humidity in warehouse : Green lamp
Set humidity : Red lamp

Frame material : Aluminum alumite treatment

Corner material : Synthetic resin containing glass fiber

Stand material : Aluminum frame

Composite panel plate (silver)

Leg/Caster : Rubber foot/Nylon φ65 with stoppers

Whole withstand load : 120kg

Electric capacity : AC100V 1A
(when reproducing the desiccant)

Weight : 27kg

Accessories : Spare shelf board, Greenhouse clock

*Ask for details regarding the desiccant.



MB-250CD Magnet packing type Caster

Code	Model number	Door type / Foot	Window / Side / Top / Back	Bottom
01-41001	MB-250D	Magnet packing type	Acrylic (transparent)	Acrylic (white)
01-41002	MB-250ND	Rubber foot	Antistatic PVC (transparent)	Antistatic PVC (ivory)
01-41003	MB-250BD	Rubber foot	Acrylic (light-shielding)	Acrylic (light-shielding)
01-41004	MB-250CD	Magnet packing type	Acrylic (transparent)	Acrylic (white)
01-41005	MB-250CND	casters	Antistatic PVC (transparent)	Antistatic PVC (ivory)
01-41006	MB-250CBD	casters	Acrylic (light-shielding)	Acrylic (light-shielding)
01-41007	PB-250D	Draw latch type	Acrylic (transparent)	Acrylic (white)
01-41008	PB-250ND	Rubber foot	Antistatic PVC (transparent)	Antistatic PVC (ivory)
01-41009	PB-250BD	Rubber foot	Acrylic (light-shielding)	Acrylic (light-shielding)
01-41010	PB-250CD	Draw latch type	Acrylic (transparent)	Acrylic (white)
01-41011	PB-250CND	casters	Antistatic PVC (transparent)	Antistatic PVC (ivory)
01-41012	PB-250CBD	casters	Acrylic (light-shielding)	Acrylic (light-shielding)
01-36001	T-1		Spare shelf board (with rails)	

Desiccator - Membrane dryer type

MK-780CM
360 · 780 series

Membrane dryer desiccator

Membrane dryer type / Large size

This desiccator includes a built-in membrane dryer. Compressed air is forced through a hollow fiber type membrane.

A large quantity of products can be stored due to the strong dehumidification performance.

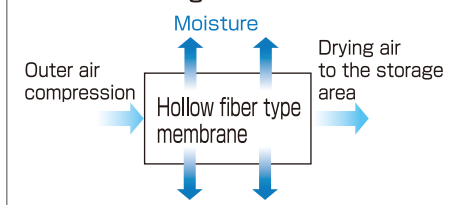


Membrane dryer unit

Principle

Based on the principle that dry air can be generated by passing compressed air through a hollow fiber type membrane device.

Schematic diagram



MK-360CM

*Specifications for MK-360CM are different. Ask for details.

Specification

Overall size : W1104 × D525 × H1846mm

Effective inside dimension : W1064 × D470 × H1490mm

Cubic capacity : 780L

Unilocular frontage : W497 × H710mm

Shelf board size : W494 × D460mm

Shelf board material : SUS430 φ20 × 36 holes

The number of shelf board : 8 sheets

Air used : Compressed air

Gas IN side : 6mm Joint for tube

Entrance air pressure : 0.3~0.85MPa

Shelf board load : 12kg uniform distributions

Frame material : Aluminum alumite treatment

Corner material : Synthetic resin containing glass fiber

Stand material : Aluminum frame

Composite panel plate (silver)

Caster : Nylon φ65 with stoppers

Whole withstand load : 120kg

Weight : 65kg

Air dryer unit : Mist separator / micro mist separator included
Regulator included

Accessories : Spare shelf board, Greenhouse clock



MK-780CM Magnet packing type Caster

Code	Model number	Door type	Window / Side / Top / Back	Bottom
01-52001	MK-780CM	Magnet packing type	Acrylic (transparent)	Acrylic (white)
01-52002	MK-780CNM	Magnet packing type	Antistatic PVC (transparent)	Antistatic PVC (ivory)
01-52011	HK-780CM	Sealed handle type	Acrylic (transparent)	Acrylic (white)
01-52012	HK-780CNM	Sealed handle type	Antistatic PVC (transparent)	Antistatic PVC (ivory)
01-52013	MK-360CM	Magnet packing type	Acrylic (transparent)	Acrylic (white)
01-52014	MK-360CNM	Magnet packing type	Antistatic PVC (transparent)	Antistatic PVC (ivory)
01-52015	PK-360CM	Draw latch type	Acrylic (transparent)	Acrylic (white)
01-52016	PK-360CNM	Draw latch type	Antistatic PVC (transparent)	Antistatic PVC (ivory)
01-36001	T-1	Spare shelf board (with rails)		

Desiccator - Gas controlled type

Gas controlled desiccator

This desiccator converts air in the storage area to inert gases such as nitrogen and argon. Effective operation is ensured by controlling the gasflow rate by a timer when the door is opened or closed.

Gas replacement type / Large size

NC-780C
780 series

Specification

Overall size : W1104 × D525 × H1846mm
 Effective inside dimension : W1064 × D470 × H1490mm
 Cubic capacity : 780L
 Unilocular frontage : W497 × H710mm
 Shelf board size : W494 × D460mm
 Shelf board material : Punched shelf board
 SUS430 φ20 × 36 holes
 The number of shelf board : 8 sheets
Flow meter : 0~5L/min Flow adjustment valve
Gas IN side : φ6 Joint for tube
T i m e r : 0~30 minutes
 Inert gas supply time when the door is closed
Inert gas control : After supply OFF when door is opened and supply ON when closed, repeat OFF after the ON timer set time has passed and ON after the OFF timer set time has passed
Shelf board load : 12kg uniform distributions
Frame material : Aluminum alumite treatment
Corner material : Synthetic resin containing glass fiber
Stand material : Aluminum frame
 Composite panel plate (silver)
C a s t e r : Nylon φ65 with stoppers
Whole withstand load : 120kg
W e i g h t : 68kg
Accessories : Spare shelf board,
 Thermo-hygrometer

*A small amount of dust is generated, please ask about clean specifications.



NC-780C Magnet packing type Caster

Code	Model number	Door type	Window / Side / Top / Back	Bottom
01-50001	NC-780C	Magnet	Acrylic (transparent)	Acrylic (white)
01-50002	NC-780CN	packing type	Antistatic PVC (transparent)	Antistatic PVC (ivory)
01-36001	T-1	Spare shelf board (with rails)		

NC-360C
360 series

Specification

Overall size : W537 × D525 × H1846mm
 Effective inside dimension : W497 × D470 × H1490mm
 Cubic capacity : 360L
 Unilocular frontage : W497 × H710mm
 Shelf board size : W494 × D460mm
 Shelf board material : Punched shelf board
 SUS430 φ20 × 36 holes
 The number of shelf board : 4 sheets
Flow meter : 0~5L/min Flow adjustment valve
Gas IN side : φ6 Joint for tube
T i m e r : 0~30 minutes
 Inert gas supply time when the door is closed
Inert gas control : After supply OFF when door is opened and supply ON when closed, repeat OFF after the ON timer set time has passed and ON after the OFF timer set time has passed
Shelf board load : 12kg uniform distributions
Frame material : Aluminum alumite treatment
Corner material : Synthetic resin containing glass fiber
Stand material : Aluminum frame
 Composite panel plate (silver)
C a s t e r : Nylon φ65 with stoppers
Whole withstand load : 120kg
W e i g h t : 40kg
Accessories : Spare shelf board,
 Thermo-hygrometer

*A small amount of dust is generated, please ask about clean specifications.



NC-360C Magnet packing type Caster

Code	Model number	Door type	Window / Side / Top / Back	Bottom
01-50003	NC-360C	Magnet	Acrylic (transparent)	Acrylic (white)
01-50004	NC-360CN	packing type	Antistatic PVC (transparent)	Antistatic PVC (ivory)
01-36001	T-1	Spare shelf board (with rails)		

Desiccator - Gas replacement type

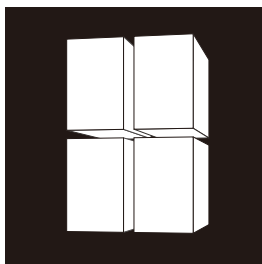
Gas replacement desiccator

This desiccator converts air in the storage area to inert gases such as nitrogen and argon. Each room is independent, minimizing the effect of opening and closing the door.

Gas replacement type / Large size

N-1804C

180×4 series



4 independent rooms



N-1804CX Magnet packing type Caster

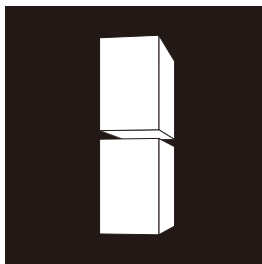
Specification

Effective inside dimension : W497 × D470 × H765mm × 4 rooms
 Cubic capacity : 180L × 4 rooms
 Unilocular frontage : W497 × H765mm
 Door : Magnet packing type
 Window / Side / Top / Back : Acrylics (transparent)
 bottom surface : Acrylic (white)
 Shelf board size : W494 × D460mm
 Shelf board material : Punched shelf board
 SUS430 φ20 × 36 holes
 The number of shelf board : 8 sheets
 Shelf board load : 12kg uniform distributions
 Flow meter : 0~5L/min Valve attached × 4
 Independent piping
 with φ6 tube joint (only CX type)
 Gas intake valve : Connection diameter
 φ8 × 4 (only CX type)
 Caster : Nylon φ65 with stoppers
 Frame material : Aluminum alumite treatment
 Corner material : Synthetic resin containing glass fiber
 Stand material : Aluminum frame
 Composite panel plate (silver)
 Whole withstand load : 120kg
 Weight : 80kg
 Accessories : Spare shelf board,
 Thermo-hygrometer,
 Shelf board (with rails)

Code	Model number	Overall size
01-51001	N-1804C	W1104 × D525 × H1856mm
01-51002	N-1804CX	
01-36001	T-1	Spare shelf board (with rails)

N-1802C

180×2 series



2 independent rooms



N-1802C Magnet packing type Caster

Specification

Effective inside dimension : W497 × D470 × H765mm × 2 rooms
 Cubic capacity : 180L × 2 rooms
 Unilocular frontage : W497 × H765mm
 Door : Magnet packing type
 Window / Side / Top / Back : Acrylics (transparent)
 bottom surface : Acrylic (white)
 Shelf board size : W494 × D460mm
 Shelf board material : Punched shelf board
 SUS430 φ20 × 36 holes
 The number of shelf board : 4 sheets
 Shelf board load : 12kg uniform distributions
 Flow meter : 0~5L/min Valve attached × 2
 Independent piping
 with φ6 tube joint (only CX type)
 Gas intake valve : Connection diameter
 φ8 × 4 (only CX type)
 Caster : Nylon φ65 with stoppers
 Frame material : Aluminum alumite treatment
 Corner material : Synthetic resin containing glass fiber
 Stand material : Aluminum frame
 Composite panel plate (silver)
 Whole withstand load : 120kg
 Weight : 40kg
 Accessories : Spare shelf board,
 Thermo-hygrometer,
 Shelf board (with rails)

Code	Model number	Overall size
01-51003	N-1802C	W537 × D525 × H1856mm
01-51004	N-1802CX	
01-36001	T-1	Spare shelf board (with rails)

Desiccator - Vacuum type

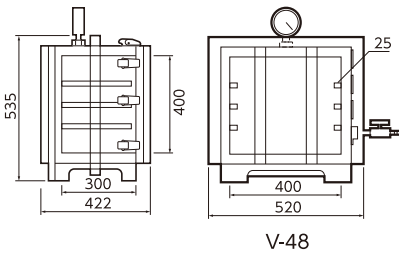
Vacuum type / Large size

U-48/U-110

Vacuum series

Vacuum desiccator

A vacuum pump decompresses the storage area, removing humidity and oxygen. For use in experimental operations such as vacuum drying, deaeration, and defoaming, as well as for dry storage and oxidation prevention.



V-48



V-48 Draw latch type

Code	01-29001	01-29006
Model number	V-48	V-110
Overall size	W520 × D422 × H535mm	W720 × D617 × H810mm
Effective inside dimension	W400 × D300 × H400mm	W520 × D400 × H550mm
Cubic capacity	48L	110L
Door type	Draw latch type	
Body material	Acrylics (transparent) 25t	
Shelf board size	W395 × D260 × 5t	W515 × D385 × 5t
Shelf board material	Acrylics (transparent) φ10 × 12 holes	Acrylics (transparent) φ10 × 18 holes
Shelf board space	3 shelves Fixed 90mm	4 shelves Fixed 133mm
The number of shelf board	2 sheets	
Shelf board load	5kg uniform distributions	
Door sealing	Silicorn rubber φ8	
Air valve	2 pieces, φ8 Caliber	
Vacuum gauge	0~0.1MPa	
Max vacuum level	133Pa (1Torr)	
Weight	40kg	82kg
Code	01-36030	01-36034
Spare shelf board	T-48	T-110



V-110 Draw latch type



Decompression regulator valve

Customization example

*Manufacturing to special specifications is available.



Large vacuum desiccator (ultraviolet protection specifications)



Large vacuum desiccator



Large vacuum desiccator

U-30

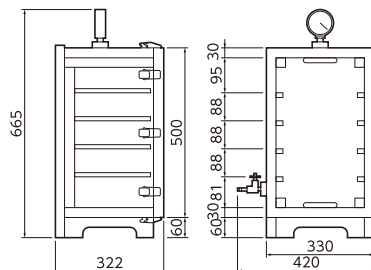
Vacuum series

Specification

Effective inside dimension : W260 × D235 × H440mm
 Cubic capacity : 30L
 Door : Draw latch type
 Body material : Acrylics (transparent) 30t
 Shelf board size : W257 × D220 × 5t
 Shelf board material : Acrylics (transparent)
 φ10 × 10 holes
 Shelf board space : 4 shelves Fixed 88mm
 The number of shelf board : 3 sheets
 Shelf board load : 5kg uniform distributions
 Door sealing : Silicorn rubber φ8
 Air valve : 2 pieces φ8 Caliber
 Vacuum gauge : 0~0.1MPa
 Max vacuum level : 133Pa (1Torr)
 Weight : 32kg



Draw latch type



Code	Model number	Overall size
01-29002	V-30	W330 × D322 × H565mm
01-36031	T-30	Spare shelf board

U-12

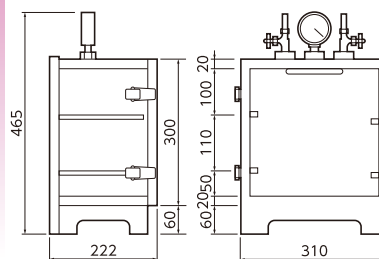
Vacuum series

Specification

Effective inside dimension : W260 × D180 × H260mm
 Cubic capacity : 12L
 Door : Draw latch type
 Body material : Acrylics (transparent) 20t
 Shelf board size : W257 × D170 × 5t
 Shelf board material : Acrylics (transparent)
 φ10 × 8 holes
 Shelf board space : 2 shelves Fixed 110mm
 The number of shelf board : 2 sheets
 Shelf board load : 5kg uniform distributions
 Door sealing : Silicorn rubber φ8
 Air valve : 2 pieces φ8 Caliber
 Vacuum gauge : 0~0.1MPa
 Max vacuum level : 133Pa (1Torr)
 Weight : 12kg



Draw latch type



Code	Model number	Overall size
01-29003	V-12	W310 × D222 × H365mm
01-36032	T-12	Spare shelf board

U-7

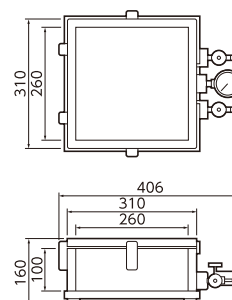
Vacuum series

Specification

Effective inside dimension : W260 × D260 × H100mm
 Cubic capacity : 7L
 Door : Draw latch type
 Body material : Acrylics (transparent) 20t
 Shelf board size : W257 × D257 × 5t
 Shelf board material : Acrylics (transparent)
 φ10 × 8 holes
 Shelf board space : 1 shelves Fixed
 The number of shelf board : 1 sheet
 Shelf board load : 5kg uniform distributions
 Door sealing : Silicorn rubber φ8
 Air valve : 2 pieces φ8 Caliber
 Vacuum gauge : 0~0.1MPa
 Max vacuum level : 133Pa (1Torr)
 Weight : 9kg



Draw latch type Rubber foot



Code	Model number	Overall size
01-29004	V-7	W310 × D310 × H160mm
01-36033	T-7	Spare shelf board

Desiccator - Vacuum type

UT-12 Vacuum series

Vertical vacuum desiccator

The lid of this vacuum desiccator opens upward.

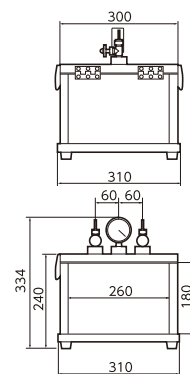
Vacuum type / Small size

Specification

Effective inside dimension : W260 × D260 × H180mm
 Cubic capacity : 12L
 Door : Draw latch type
 Body material : Acrylics (transparent) 20t
 Shelf board size : W257 × D257 × 5t
 Shelf board material : Acrylic φ10 × 8 holes
 Shelf board space : 1 shelves Fixed
 The number of shelf board : 1 sheet
 Shelf board load : 5kg uniform distributions
 Door sealing : Silicorn rubber φ8
 Air valve : 2 pieces φ8 Caliber
 Vacuum gauge : 0~0.1MPa
 Max vacuum level : 133Pa (1Torr)
 Weight : 10.5kg



Draw latch type Rubber foot



Code	Model number	Overall size
01-29005	VT-12	W310 × D310 × H240mm
01-36033	T-7	Spare shelf board

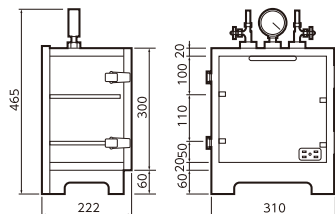
Desiccators

UC-12/30 Vacuum series

Vacuum desiccator with an electrical outlet

This vacuum desiccator can use electricity since an electrical outlet has been installed in the desiccator.

Vacuum type / Medium, Small size



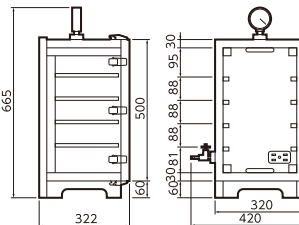
Specification

Effective inside dimension : W260 × D180 × H260mm
 Cubic capacity : 12 L
 Door : Draw latch type
 Body material : Acrylics (transparent) 20t
 Shelf board size : W257 × D170 × 5t
 Shelf board material : Acrylics (transparent) φ10 × 8 holes
 Shelf board space : 2 shelves Fixed 110mm
 The number of shelf board : 2 sheets
 Shelf board load : 5kg uniform distributions
 Door sealing : Silicorn rubber φ8
 Air valve : 2 pieces φ8 Caliber
 Vacuum gauge : 0~0.1MPa
 Max vacuum level : 133Pa (1Torr)
 Outlet : AC100V 10A 3-socket Cord 2P with 2m
 Weight : 13kg



Draw latch type

Code	Model number	Overall size
01-30002	VC-12	W310 × D222 × H365mm
01-36032	T-12	Spare shelf board



Specification

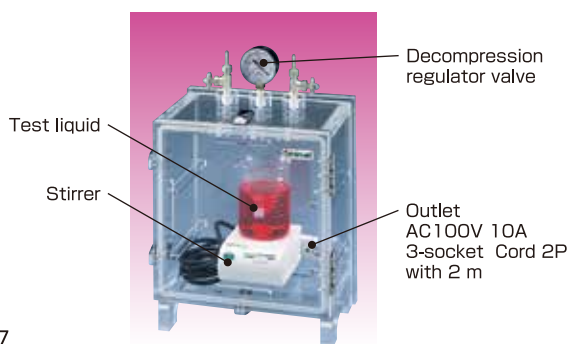
Effective inside dimension : W260 × D235 × H440mm
 Cubic capacity : 30 L
 Door : Draw latch type
 Body material : Acrylics (transparent) 30t
 Shelf board size : W257 × D220 × 5t
 Shelf board material : Acrylics (transparent) φ10 × 10 holes
 Shelf board space : 4 shelves Fixed 88mm
 The number of shelf board : 3 sheets
 Shelf board load : 5kg uniform distributions
 Door sealing : Silicorn rubber φ8
 Air valve : 2 pieces φ8 Caliber
 Vacuum gauge : 0~0.1MPa
 Max vacuum level : 133Pa (1Torr)
 Outlet : AC100V 10A 3-socket Cord 2P with 2m
 Weight : 33kg



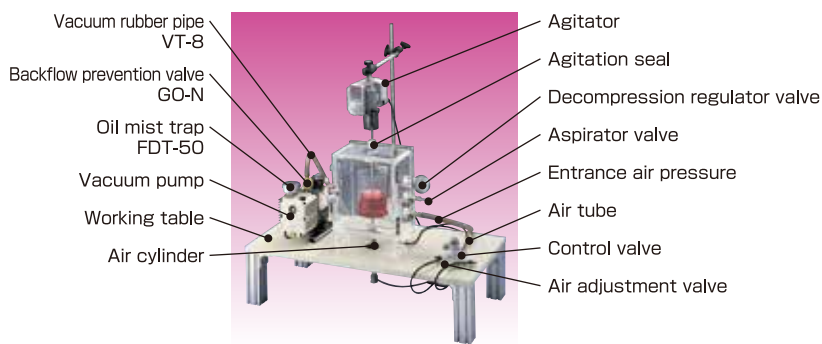
Draw latch type

Code	Model number	Overall size
01-30001	VC-30	W330 × D322 × H565mm
01-36031	T-30	Spare shelf board

Example of using vacuum desiccator with an electrical outlet



Example of using the desiccator for stirring or vacuum defoaming



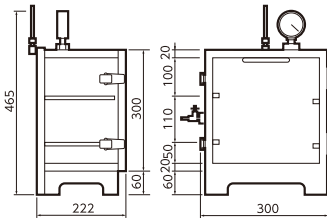
UD-12/30

Vacuum series

Desiccator for stirring and vacuum degassing

Vacuum type / Medium, Small size

By attaching a stirring bar inside the desiccator, vacuum defoaming operations using an agitator can be performed. Can be used as a standard vacuum desiccator by utilizing a blank cap.



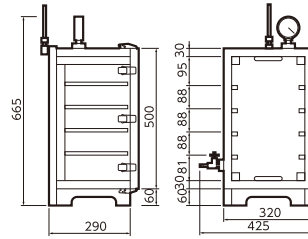
Specification

Effective inside dimension : W260 × D180 × H260mm
 Cubic capacity : 12L
 Door : Draw latch type
 Body material : Acrylics (transparent) 20t
 Shelf board space : 2 shelves Fixed
 Door sealing : Silicorn rubber ϕ 8
 Air valve : 2 pieces ϕ 8 Caliber
 Vacuum gauge : 0~0.1MPa
 Max vacuum level : 133Pa (1Torr)
 Stand bar : ϕ 16 × L400 Cr Plating
 Weight : 12kg
 Options : Shelf board:
 W257 × D170 × 5t
 Acrylics (transparent)
 ϕ 10 × 8 holes



With stand bar ϕ 16

Code	Model number	Overall size
01-31002	VD-12	W310 × D222 × H365mm
01-36032	T-12	Spare shelf board



Specification

Effective inside dimension : W260 × D235 × H440mm
 Cubic capacity : 30L
 Door : Draw latch type
 Body material : Acrylics (transparent) 30t
 Shelf board space : 4 shelves Fixed 88mm
 Door sealing : Silicorn rubber ϕ 8
 Air valve : 2 pieces ϕ 8 Caliber
 Vacuum gauge : 0~0.1MPa
 Max vacuum level : 133Pa (1Torr)
 Stand bar : ϕ 16 × L400 Cr Plating
 Weight : 31kg
 Options : Shelf board:
 W257 × D220 × 5t
 Acrylics (transparent)
 ϕ 10 × 10 holes



With stand bar ϕ 16

Code	Model number	Overall size
01-31001	VD-30	W330 × D322 × H565mm
01-36031	T-30	Spare shelf board

Desiccators

US-45/100

Vacuum series

Stainless steel vacuum desiccator

Standard type / Stainless steel type / Large, Medium type

This vacuum desiccator is constructed of stainless steel for excellent chemical resistance and durability



Specification

Effective inside dimension : W354 × D410 × H304mm
 Cubic capacity : 45L
 Body material : SUS304
 Window material : Acrylic 25t
 Door sealing : Silicorn rubber ϕ 8
 Air valve : 1 piece ϕ 8 Caliber
 Vacuum gauge : 0~0.1MPa
 Max vacuum level : 133Pa (1Torr)
 Weight : 20kg

Code	Model number	Overall size
01-32001	VS-45	W430 × D530 × H482mm



Specification

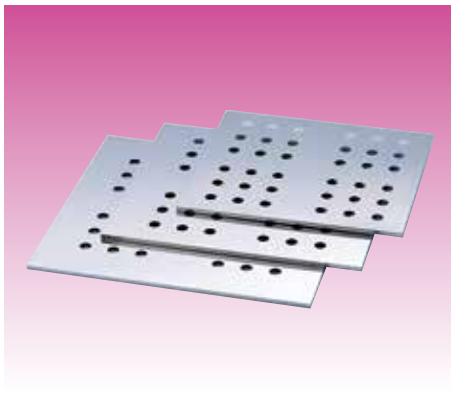
Effective inside dimension : W392 × D543 × H442mm
 Cubic capacity : 100L
 Body material : SUS304
 Window material : Acrylic 25t Reinforcement included
 Door sealing : Silicorn rubber ϕ 8
 Air valve : 2 pieces ϕ 8 Caliber
 Vacuum gauge : 0~0.1MPa
 Max vacuum level : 133Pa (1Torr)
 Weight : 50kg

Code	Model number	Overall size
01-32002	VS-100	W500 × D676 × H550mm

Accessories

Desiccators

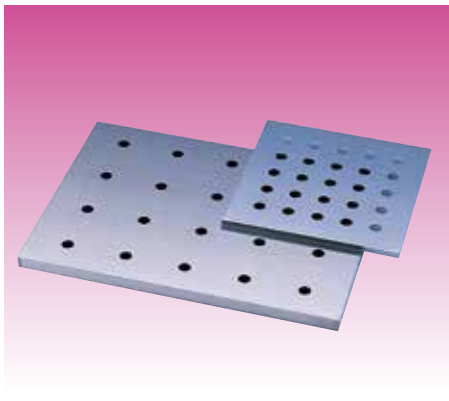
Punched shelf board



Code	Model number	Overall size
01-36001	T-1	W494 × D460mm
01-36002	T-2	W403 × D460mm
01-36003	T-3	W403 × D357mm

Material : SUS430 With rails

Punched shelf board



Code	Model number	Overall size
01-36004	T-8	W540 × D410 × H25mm
01-36005	T-9	W309 × D304 × H12mm

Material : SUS430 With bracket (T-8)
SUS430 (T-9)
T-8 is for S-190C T-9 is for S-40

Punched shelf board with a slide rail



Code	Model number	Overall size
01-36006	ST-1	W463 × D460mm
01-36007	ST-2	W372 × D460mm

Material : SUS430 With Slide rail

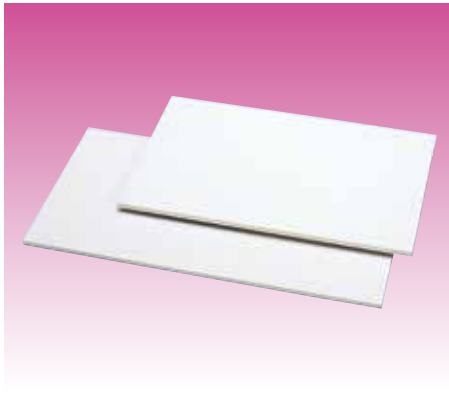
Tray



Code	Model number	Overall size
01-36008	ST-6	W480 × D335mm
01-36009	ST-7	W355 × D445mm

Material : SUS430 With rails

Top board (or experiment / writing table)



Code	Model number	Overall size
01-36014	TO-11	W1104 × D490mm
01-36015	TO-9	W924 × D490mm
01-36016	TO-5	W537 × D490mm
01-36017	TO-4	W447 × D490mm

Material : Melamine plywood 20t

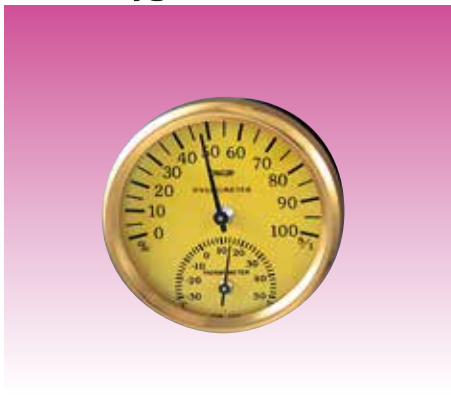
Clean hinges



Code	Model number	Overall size
33-01020	CH-1	W50 × L65mm

Low dust type

Thermo-hygrometer



Code	Model number	外径
01-36018	DM-42	φ68 × 23Hmm

Acrylic bracket attached
Minimum scale mark 2°C 5%

Silicone filler



Code	Model number	内容量
01-36035	PS	330ml

Deoximation type Pure sealant clear

Seal material of interior joint of desiccator and air filter. There is almost no siloxane volatilization.

Digital temperature-humidity meter



Code	Model number	Overall size
01-36034	TH-7	W85 × D75 × H20mm

Acrylic bracket attached
Range : -10~+50°C / 20~90%RH
Measurement precision : ±1°C / ±7%RH

Positive pressure safety device



Code	Model number
01-36019	SD-31

Pressure resistant 30Pa

Socket



Code	Model number
01-36022	SO-1

Standard accessory for big and mid-size desiccators RC1/4

Gas flow meter (for monitors) / One touch joint included



Code	Model number
01-36020	GF-11

5L/min±10%. With bracket, $\phi 6$ joint for tube 2 for N₂

Code	Model number
01-36021	ZL-062

L-type $\phi 6$ joint for tube RC1/4

Gas intake valve



Code	Model number
01-36024	GV-01

Connection $\phi 8$, nickel plating

Gas intake valve



Code	Model number
01-36023	BVL-06

$\phi 6$ for tube

Metal fittings for wall attachment (earthquake proofing)



Code	Model number
01-36027	L-1

Material : SUS304 With tapping screw
Number contained : 2 pieces

Double lock (for security)



Code	Model number	Overall size
01-36025	FC-619	W19 × L60mm

Chrome plated

Latch with key (for security)



Code	Model number	Overall size
01-36026	CC-83	W28 × L45mm

Chrome plated

Door lock (earthquake proofing)



Code	Model number	Overall size
01-36029	BLL-45	W40 × L45mm

Material : SUS304 *Press "PUSH" and remove.

Laboratory equipments

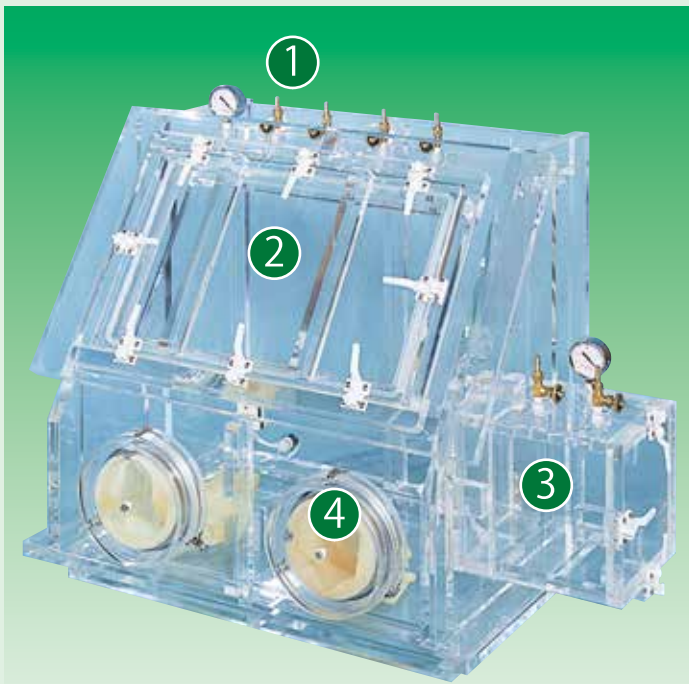
Glove box

A glove box is an operating box with high airtightness designed so that only the operator's hands can enter the box wearing gloves. Operations can be performed in a space/environment completely isolated from outside influence. A representative application is shown below.

- Operations in a temperature and humidity controlled environment
- Materials which are dangerous if directly touched by the operator can be handled
- Operations in a specific air composition environment
- Removal of contamination by the operator for operations in a sterile environment

When a glove box is used, experiment operations can be performed under specific environment conditions. Moreover, safety of the operator can be ensured while handling high risk drugs and materials.

Glove boxes are available in various types, such as gas conversion, vacuum, low dew-point, explosion protection, and clean, for use in various situations in the semi-conductor, optics, and precision device manufacturing fields. Moreover, explosion protection glove box, clean glove box, and isolator (sterile glove box), etc., can be used in bio fields such as medical, pharmaceutical, chemical, biotechnology.



Acrylic type



Stainless type

1 Gas intake valve

2 Window

3 Pass box

4 Glove port

5 Lighting / Sterilization lamp

Fume hood

Table type

The desktop exhaust hood can also be used for a simplified draft system by attaching it to the working table. Our original constructed aluminum frame is used. In addition to size and specifications, main body design, and manufacturing with high degree of freedom to include a table, etc. is possible.*VOC (volatile organic compound) countermeasures are also possible. Please feel free to ask for details.

Personal draft DFH

Specification

Body material: Acrylic (transparent) 3t
 Frame material: Aluminum alumite treatment
 Door material: Acrylic (transparent) 3t 50mm pitch variable
 Guide rail: Ultrahigh molecular weight polyethylene
 Duct: $\phi 38 \times 500\text{L}$ Flexible hose
 Exhaust air: Sirocco fan (teflon coating)
 Fan box: W240 \times D240 \times H166mm PVC (ivory)
 Filter: Three-layer structure
 Activated filter: $\phi 227 \times 8\text{t}$
 Dust removal filter: Non-woven fabric: $\phi 227 \times 20\text{t}$
 Pre-filter: Non-woven fabric: $\phi 227 \times 3\text{t}$
 Electric capacity: AC100V 0.5A
 Fan capability: Maximum air volume 1.6/1.8 m^3/min
 Input 28/32W
 Maximum static pressure 152/221Pa

Code	Model number	Overall size*
06-03001	DFH-1200	W1200 \times D500 \times H500mm
06-03002	DFH-800	W800 \times D500 \times H500mm
06-03003	DFH-700	W700 \times D400 \times H500mm

*The fan box is not included in the outer dimensions.



Personal draft DC



Specification

Body material: Vinyl sheet (transparent) 0.5t
 Frame material: SUS304 13mm
 Curtain material: Vinyl (transparent) 0.5t (zipper open / close type)
 Duct: $\phi 38 \times 500\text{L}$ Flexible hose
 Exhaust air: Sirocco fan (teflon coating)
 Fan box: W240 \times D240 \times H166mm PVC (ivory)
 Filter: Three-layer structure
 Activated filter: $\phi 227 \times 8\text{t}$
 Dust removal filter: Non-woven fabric: $\phi 227 \times 20\text{t}$
 Pre-filter: Non-woven fabric: $\phi 227 \times 3\text{t}$
 Electric capacity: AC100V 0.5A
 Fan capability: Maximum air volume 1.6/1.8 m^3/min
 Input 28/32W
 Maximum static pressure 152/221Pa

Code	Model number	Overall size*
06-04001	DC-1200	W1200 \times D500 \times H500mm
06-04002	DC-800	W800 \times D500 \times H500mm
06-04003	DC-700	W700 \times D400 \times H500mm

*The fan box is not included in the outer dimensions.

Mini-draft MND-1



Specification

Body material: PVC (ivory)
 Duct: $\phi 38 \times 500\text{L}$ Flexible hose
 Exhaust air: Sirocco fan (teflon coating)
 Filter: Three-layer structure
 Activated filter: $\phi 227 \times 8\text{t}$
 Dust removal filter: Non-woven fabric: $\phi 227 \times 20\text{t}$
 Pre-filter: Non-woven fabric: $\phi 227 \times 3\text{t}$
 Electric capacity: AC100V 0.5A
 Fan capability: Maximum air volume 1.6/1.8 m^3/min
 Input 28/32W
 Maximum static pressure 152/221Pa

Code	Model number	Overall size*
06-05001	MND-1	W240 \times D165 \times H240mm

*The flexible hose is not included in the outer dimensions.

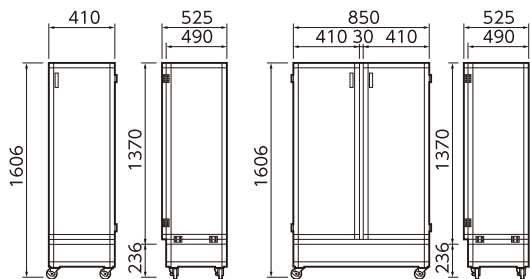
Glassware storage cabinet

GK-500C·220C

GK type

Glassware storage cabinet

This stocker uses magnet packing with high tightness and can store glassware in a clean environment. Shelves can be selected according to the storing items, such as a rack, basket, or tray. The dry shelf and dry wagon can be used together, easily and conveniently.



GK-220C

Specification

Effective inside dimension : GK-500C W810 × D470 × H1330mm
 GK-220C W370 × D470 × H1330mm

Door : Magnet packing type

Window / Side / Top / Back : Acrylic (transparent)

Bottom : Acrylic (white)

Shelf spacing : Optional

Frame material : Aluminum alumite treatment

Water receiving pad : GK-500C 2 sheets GK-220C 1 sheet

Stand material : Aluminum frame Aluminum composite plate (silver)

Castor : Nylon φ65 with stoppers

Weight : GK-500C 45kg GK-220C 28kg

Accessories : Choose your desired shelf from P.44.

Code	Model number	Overall size
05-01001	GK-500C	W850 × D525 × H1606mm
05-01002	GK-220C	W410 × D525 × H1606mm



GK-500C

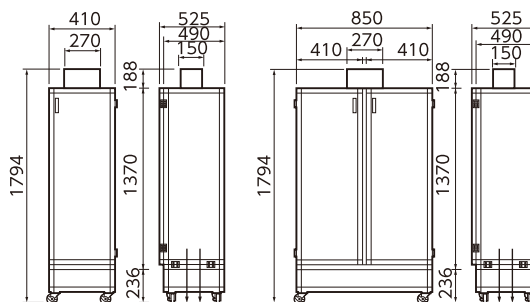
*Basket, Net shelf, etc., are not included in the main body.

DGK-500C·220C

DGK type

Glassware storage cabinet with dryer

This stocker uses magnet packing with high tightness and can store glassware in a clean environment. The heater fan built-in on the top makes drying glass utensils faster. Shelf can be freely set according to the storing items such as a rack, basket, or tray. The dry shelf and dry wagon can be used together, easily and conveniently.



DGK-220C

Specification

Effective inside dimension : DGK-500C W810 × D470 × H1330mm
 DGK-220C W370 × D470 × H1330mm

Door : Magnet packing type

Window / Side / Top / Back : Acrylic (transparent)

Bottom : Acrylic (white)

Shelf spacing : Optional

Frame material : Aluminum alumite treatment

Water receiving pad : DGK-500C 2 sheets DGK-220C 1 sheet

Stand material : Aluminum frame Aluminum composite plate (silver)

Castor : Nylon φ65 with stoppers

Heater : 520W

Warm air : Maximum 6 hours (50Hz) / 5 hours (60Hz) continuous blowing (max 60°C)

Protection equipment : Thermostat Temperature fuse for the heater and motor (119°C)

Electric capacity : AC100V 6A

Weight : DGK-500C 48kg DGK-220C 31kg

Accessories : Choose your desired shelf from P.44.

Code	Model number	Overall size
05-02001	DGK-500C	W850 × D525 × H1794mm
05-02002	DGK-220C	W410 × D525 × H1794mm



DGK-500C

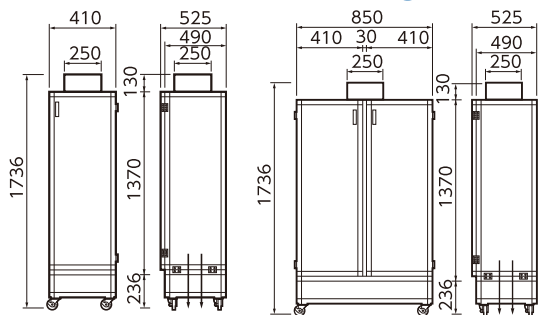
*Basket, Net shelf, etc., are not included in the main body.

CGK-500C·220C

CGK type

Clean dry box

This stoker uses magnet packing with high tightness and can store glassware in a clean environment. A clean module unit is installed, to maintain clean conditions inside the storage. Shelves can be adjusted according to the storing items, such as a rack, basket, or tray. The dry shelf and dry wagon can be used together easily and conveniently.



CGK-220C



CGK-500C

*Basket, Net shelf, etc., are not included in the main body.

Specification

- F i l t e r :** Fan filter unit 1 Pre-filter 1
- Dust collection efficiency :** More than 99.97% (0.3μm)
- A i r f l o w :** 1.0m³/min
- Effective inside dimension :** CGK-500C W810 × D470 × H1330mm
CGK-220C W370 × D470 × H1330mm
- D o o r :** Magnet packing type
- Window / Side / Top / Back :** Acrylic (transparent)
- B o t t o m :** Acrylic (white)
- Frame material :** Aluminum alumite treatment
- Shelf spacing :** Optional
- Water receiving pad :** CGK-500C 2 sheets CGK-220C 1 sheet
- Stand material :** Aluminum frame Aluminum composite plate (silver)
- C a s t e r :** Nylon φ65 with stoppers
- Electric capacity :** AC100V 1A
- W e i g h t :** CGK-500C 49kg CGK-220C 32kg
- A c c e s s o r i e s :** Choose your desired shelf from P.44.

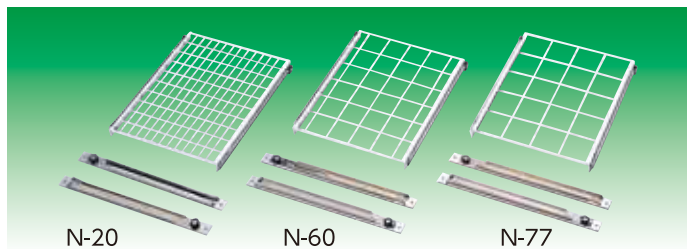
*The filter may be changed.

Code	Model number	Overall size
05-03001	CGK-500C	W850 × D525 × H1736mm
05-03002	CGK-220C	W410 × D525 × H1736mm

Four types of shelves are available-racks, basket, trays, and liquid receptacles according to the use environment and application. Moreover, a shelf board rail can be installed in any position, so the number of shelf board and the space between them can be freely adjusted.

Accessories GK / DGK / CGK series

Net shelf Slide rail included



Code	Model number	Specification
05-04001	N-20	20 × 37mm 130 space
05-04002	N-34	34 × 56mm 56 space
05-04003	N-60	60 × 63mm 24 space
05-04004	N-77	77 × 77mm 20 space

Material : Steel PE coating

Adjustable mesh rack for measuring cylinders N-20 25ml N-34 100ml N-60 500ml N-77 1000ml

Basket Rail included



Code	Model number	Overall size
05-04005	P-165	W360 × D480 × H165mm
05-04006	P-85	W365 × D485 × H85mm

Material : PE

Tray rail included



Code	Model number	Overall size
05-04007	S-60	W355 × D445 × H60mm

Material : SUS304

Water vat with rail



Code	Model number	Overall size
05-04008	P-70	W322 × D442 × H70mm

Material : PE

Dry shelf / Accessories

DRY-580

580 series

Dry shelf

A net type shelf for drying and storing washed glassware. DRY-580 dries glassware faster using a heater fan installed on the top. Glassware storage cabinet and dry wagon can be used together easily and conveniently.

Specification

S h e l f : W910 × D460 × H1500mm Steel Chrome plating
C u r t a i n : Soft PVC
S h e l f b o a r d : Standard mesh rack 2 sheets
 Stitched shelf board 40 × 180mm 1 sheet
 80 × 180mm 1 sheet

Shelf board space : 25mm pitch
Water receiving tray : PVC (ivory)
H e a t e r : 520W
W a r m a i r : Maximum 6 hours(50Hz) / 5 hours (60Hz) continuous blowing (max 60°C)
Protection equipment : Thermostat Temperature fuse for the heater and motor (119°C)
Electric capacity : AC100V 6A
W e i g h t : 24kg
A c c e s s o r i e s : Choose from the following list.

Code	Model number	Overall size
05-15001	DRY-580	W950 × D500 × H1682mm

*Caution : Not to be used as a dryer of wet utensils.



DRY-580

*Basket, net shelf, etc., are not included in the main body.

DS-580

580 series

Specification

S h e l f : W910 × D460 × H1500mm Steel Chrome plating
C u r t a i n : Soft PVC
S h e l f b o a r d : Standard mesh rack 2 sheets
 Stitched shelf board 40 × 180mm 1 sheet
 80 × 180mm 1 sheet

Shelf board space : 25mm pitch
Water receiving tray : PVC (ivory)
W e i g h t : 22kg
A c c e s s o r i e s : Choose from the following list.

Code	Model number	Overall size
05-15007	DS-580	W950 × D500 × H1500mm



DS-580

*Basket, net shelf, etc., are not included in the main body.

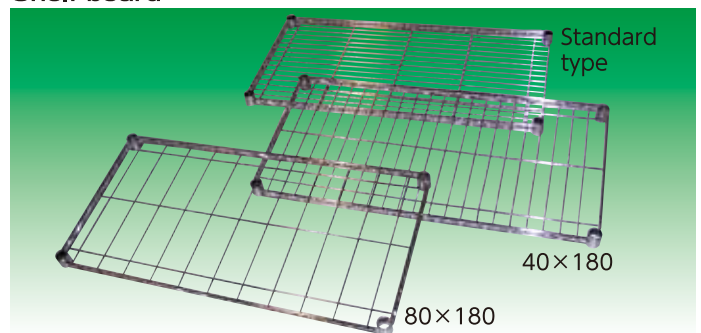
Accessories 580 series

Basket



Code	Product name	Model number	Overall size
05-15002	Basket Deep type	B-165	W360 × D480 × H165mm
05-15003	Basket Shallow type	B-85	W365 × D485 × H85mm

Shelf board



Code	Product name	Model number	Overall size
05-15004	Shelf board (Standard)	DIR-9146	W910 × D460mm
05-15005	Shelf board (40 × 180)	DIR-4018	W910 × D460mm
05-15006	Shelf board (80 × 180)	DIR-8018	W910 × D460mm
04-77116	Caster (4 pieces/set)	UTWB-50B	50mm

NDS/NDW/DW/TW

Dry wagon series

A wagon to dry /and transport washed glassware.
The glassware storage cabinet, dry shelf and dry wagon can be used together easily and conveniently.

Dry wagon NDS



NDS

Specification

Top board material : Melamine plywood 20t
Support pillar : Steel \varnothing 25 Melamine paint
C a s t e r : Rubber 65mm Stopper included
A c c e s s o r i e s : PE basket \times 2 pieces W480 \times D360 \times H165mm
PE vat \times 2 pieces W442 \times D322 \times H70mm
W e i g h t : 11kg

Code	Model number	Overall size
05-05001	NDS	W500 \times D450 \times H730mm

Dry wagon NDW



NDW

Specification

Top board material : Melamine plywood 20t
Support pillar : Steel \varnothing 25 Melamine paint
C a s t e r : Rubber 65mm Stopper included
A c c e s s o r i e s : PE basket \times 4 pieces W480 \times D360 \times H165mm
PE vat \times 4 pieces W442 \times D322 \times H70mm
W e i g h t : 21kg

Code	Model number	Overall size
05-05002	NDW	W900 \times D500 \times H730mm

Dry wagon DW



DW

Specification

Cylinder hanging tool : 66 \times 71mm 60space
Support pillar : Steel \varnothing 19 Steel Chrome plating
C a s t e r : Rubber 65mm Stopper included
A c c e s s o r i e s : PE basket Deep type \times 1 piece W480 \times D360 \times H165mm
PE basket Shallow type \times 1 piece W485 \times D365 \times H85mm
PE vat \times 2 pieces W442 \times D322 \times H70mm
W e i g h t : 10kg

Code	Model number	Overall size
05-05003	DW	W785 \times D474 \times H950mm

Three-tiered wagon TW



TW

Specification

Support pillar : Steel \varnothing 19 Melamine paint
C a s t e r : Rubber 65mm Stopper included
A c c e s s o r i e s : PE basket \times 3 pieces W480 \times D360 \times H165mm
W e i g h t : 6kg

Code	Model number	Overall size
05-05004	TW	W530 \times D361 \times H920mm

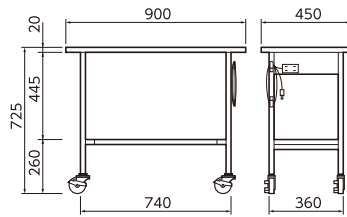
Acty cart

AC-2

Acty cart series

Acty cart

This convenient cart can be used as a simplified experiment table, working table, and carrier table. The casters are equipped with stoppers, and can be left in place during experiment operations.



Specification

T a b l e : W900 × D450 × 20mm
Melamine plywood
Support pillar : Steel ∅25 Melamine paint
Bottom shelf dimensions : W740 × D305 × 15mm
Overall withstand load : 50kg

O u t l e t : AC100V 10A
3-socket Cord 2P with 2m
C a s t e r : Rubber 65mm Stopper included
W e i g h t : 16kg

Code	Model number	Overall size
03-01001	AC-2	W900 × D450 × H725mm



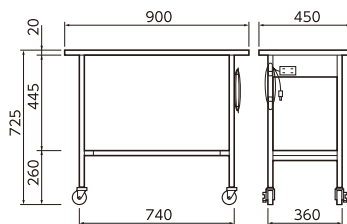
AC-2

AC-2R

Acty cart series

Acty cart (top panel corners rounding model)

In this model, the top panel corners have been rounded.



Specification

T a b l e : W900 × D450 × 20mm
Melamine plywood
Support pillar : Steel ∅25 Melamine paint
Bottom shelf dimensions : W740 × D305 × 15mm
Overall withstand load : 50kg

O u t l e t : AC100V 10A
3-socket Cord 2P with 2m
C a s t e r : Rubber 65mm Stopper included
W e i g h t : 16kg

Code	Model number	Overall size
03-01002	AC-2R	W900 × D450 × H725mm



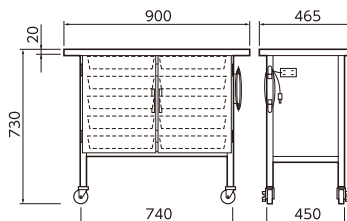
AC-2R

AC-6

Acty cart series

Acty cart (tray storage model)

10 trays can be stored. This model is convenient for storing, organizing, and transporting food.



Specification

T a b l e : W900 × D465 × 20mm
Melamine plywood
Support pillar : Steel ∅25 Melamine paint
D o o r : Acrylic (transparent)
Overall withstand load : 50kg

O u t l e t : AC100V 10A
3-socket Cord 2P with 2m
C a s t e r : Rubber 65mm Stopper included
V a t : PP W445 × D325 × H70mm 10 sheets
W e i g h t : 18kg

Code	Model number	Overall size
03-01008	AC-6	W900 × D465 × H730mm



AC-6

Laboratory equipments

PS-180

Glassware washer and dryer series

Siphon type pipette washer

Pipettes are washed only with tap water, using the siphon principle.
This all-vinyl chloride product has excellent chemical resistance.

Specification

Body material : PVC (transparent)
(washer / washing basket)
Rigid PVC (gray) (sulfuric acid tank)

Code	Model number	Name	Overall size
05-07001	P-18	Washer	Inner diameter ϕ 188 × H730mm
05-07002	P-17	Washing basket	Outer diameter ϕ 167 × H600mm
05-07003	P-20	Sulfuric acid tank	Inner diameter ϕ 200 × H660mm
05-07004	PS-180	Siphon type pipette washer P-18·17 set	



P-18



P-17



P-20

TW-20

Glassware washer and dryer series

Test tube washer

The up/down shower nozzle rotates by water pressure to wash the test tubes.
Please use this for water washing and rinsing processes.

Specification

Body material : PVC (transparent)
Test tube storage basket : SUS304 With 3 pieces
Number of test tubes to be stored : ϕ 16 × 150 pieces
Supply water inlet : ϕ 13
Drain outlet : ϕ 32
Water supply hose : ϕ 12 × ϕ 18 Blade hose

Test tube washer

Code	Model number	Overall size
05-09001	TW-20	ϕ 400 × H450mm

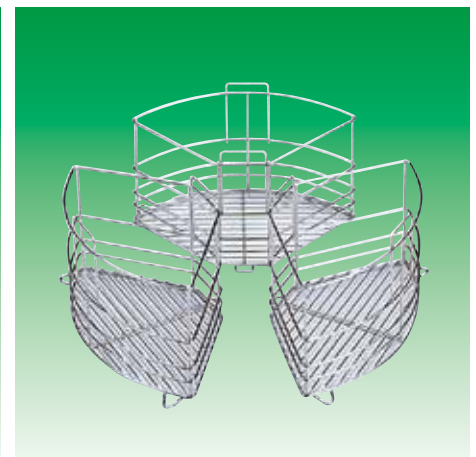
Test tube storage basket

Code	Model number	Shape
05-09002	T-20	Triangle W246 × D143 × H143mm

With one coil spring



TW-20



T-20



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