

# Safety Storage & Cabinet



	Description	Note	Model	Page
Safe-type	<b>Dangerous flammable goods</b> <ul style="list-style-type: none"> <li>Safe storage of flammable/combustible materials in the event of a surrounding fire</li> <li>Designed according to the strictest European standards EN 14470-1</li> </ul>	Type 30, 60, 90	SC3-F SC2-F	200
	<b>Acid/Base</b> <ul style="list-style-type: none"> <li>Acid/Base reagents can be safely stored for a long period of time</li> <li>Solid steel structure with corrosion-resistant interior finish</li> </ul>	Anti-corrosion interior finish	SC-C PCC	209
Filter-type	<b>Filtering</b> <ul style="list-style-type: none"> <li>The harmful gas is filtered by the filter included inside</li> <li>Economical reagent cabinets that does not require external duct connection</li> </ul>	Closed internal circulation type	FSC	214
Each use	<b>High-pressure cylinder cabinets</b> <ul style="list-style-type: none"> <li>Safeguards gas cylinders from external impact</li> <li>Stores gas cylinders so that they do not fall over</li> </ul>	Gas cylinder	DS-GC	218
	<b>Multipurpose cabinets</b> <ul style="list-style-type: none"> <li>Store small apparatus, parts, etc. systematically and efficiently</li> <li>Easy access to stored items with 11-level shelf-type structure</li> </ul>	Multi-drawers	DS-OR	219
General type	<b>Steel window</b> <ul style="list-style-type: none"> <li>Extremely convenient to check inside storage with glass window door</li> <li>Convenient drawer-type structure with excellent chemical resistance due to PP material</li> </ul>	Stand type	DS-OW	220
		Tabletop type	DS-TW	
	<b>Steel drawer</b> <ul style="list-style-type: none"> <li>Reagent cabinet with solid steel structure and excellent durability</li> <li>Suitable for long-term storage without exposure to sunlight</li> </ul>	Stand type	DS-S, C	222
		Tabletop type	DS-TT	
Under table type	DS-UT, UD			

※ The contents of the above and the contents of this catalog may differ depending on the specific model and conditions of use. For the information about the features and specifications that applying to each models, please check the information on the corresponding page of each models.



Satisfaction with the requirements of European regulations and guidelines.



Real-time equipment monitoring and control system using mobile app.



30 minute fire resistance confirmed.



60 minute fire resistance confirmed.



90 minute fire resistance confirmed.



Door locking system with key.



Excellence in acid/alkaline storage with a corrosion-resistant structure and exhaust system.



Exhaust via duct connection.



Purifies and discharges harmful gas through internal filter.



2 year warranty Free A/S.

## Rational storage according to purpose



### > Storage of flammable / combustible materials

In case of an unexpected fire that may occur at any time, flammable and combustible materials must be stored in a suitable location. Lab Companion's flammable hazardous material storage cabinets, to be certified the strictest EN 14470-1 standard, is the best choice.



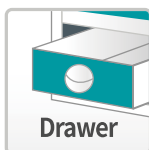
### > Storage of corrosive substances such as strong acids and strong bases

The structure is optimized for long-term safe storage of corrosive substances such as strong acids and strong bases used in experiments and processes. It is composed of a solid steel structure and corrosion-resistant interior material, and provides differentiated safety performance due to its space specific exhaust structure.



### > Reagent cabinet with built-in circulation filter

It is a reagent cabinet in which air flow is uniformly formed and the harmful gas is adsorbed through the internal filter. It is safe from fine particles and gas as it is equipped with Lab Companion's exclusive carbon filter and HEPA filter.



### > Physically / chemically sturdy cabinets

It is a reagent cabinet consisting of a polypropylene drawer and a stable structure with a rigid steel frame coated with epoxy. Choice provided depending on the usage, including glass window door type, no sunlight exposure, tabletop type, under table type, etc.



### > Safe storage of high-pressure cylinders

Cylindrical high-pressure containers must be prevented from falling and must be properly protected from unexpected external impact. High-pressure cylinders can be safely stored in Lab Companion's exclusive solid steel storage cabinets.



## > Extraction module (option)

This is harmful gas exhaust equipment (EM-33) equipped with Lab Companion's exclusive filter. It can be installed and used on Lab Companion's storage cabinets and reagent cabinet.



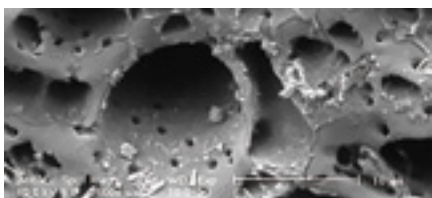
Cat. No.	Description (W x D x H, mm/inch)
AAAF1536	EM-33, 348 x 498 x 343 / 13.7 x 19.6 x 13.5, 230V, 60Hz

- It is installed at the upper part of the storage cabinet without a separate duct connection to filter and remove the harmful gas inside.
- Pre-filter is included as standard, and up to 2 filters can be added depending on the stored material. (for example: HEPA filter + carbon filter)
- Applicable to Lab Companion's dangerous and flammable goods storage cabinets, acid/base cabinets, general reagent cabinet series, small fume hood, etc.

## > Lab Companion's exclusive filter

The exclusive filter series developed by JEIO TECH has been objectively verified by an accredited laboratory.

- The Lab Companion's carbon filter is an excellent amorphous adsorbent with a high surface area, has fine pores and is manufactured through a multi-level impregnation process.
- Made of 100% impregnated filter, it is more than twice as efficient as general filters.
- Has the efficiency of an excellent composite filter as it simultaneously performs physical adsorption and chemical adsorption.



- Electron microscopic photographs of Lab Companion's carbon filter confirms development of numerous pores such as Macropores (diameter of more than 500Å), Mesopores (diameter of 20-500Å), and Micropores. (diameter of 20Å or less)

Filter	Description	Mounted on EM-33
<b>Complex Carbon</b>	Filters a wide range of chemicals, including acid, ammonia, and aldehyde.	<b>AAAB6354</b>
<b>Acid</b>	Filters acid gases such as HCl, HF, H <sub>2</sub> S and CH <sub>3</sub> COOH	<b>AAAB6356</b>
<b>Formaldehyde</b>	Filters formaldehyde, Acete aldehyde, etc.	<b>AAAB6358</b>
<b>Ammonia / Amines</b>	Filters Basic Gases Such As NH <sub>3</sub> , (CH <sub>3</sub> ) <sub>3</sub> N etc.	<b>AAAB6359</b>
<b>HEPA</b>	Filters 99.99% of toxic dust and other 0.3µ m particles	<b>AAAB6353</b>

- ※ The appropriate filter is selected according to the chemical used.
- ※ Built-in pre-filter primarily filters particles to extend the life of the other filters.

## > Chemical test completed according to SEFA-8 standard

Lab Companion's cabinets and reagent series uses materials that have passed the SEFA (The Scientific Equipment and Furniture Association) standard test, and the equipment has excellent acid resistance, alkali resistance, heat resistance and durability.



Alkali resistance

### Exterior Epoxy Powder Coated Steel

The exterior has excellent durability and excellent chemical resistance due to epoxy powder coating.



### Drawer Polypropylene (PP)

The drawer part made by solid mold injection is made of polypropylene with excellent chemical resistance.

# Fire Safety Storage Cabinet

## Basic, Type 30, 60, 90

Proven refractory performance to safeguard flammable hazardous materials from fire



Flammable Storage Cabinet  
EN 14470-1 : 2004



**SC3-90F-0806D1D-C**  
Standard : Bottom Sump 1ea

**SC3-90F-0812D2D-C**  
Standard : Bottom Sump 2ea

**SC3-90F-1906D1-C**  
Standard : Shelves 3ea & Bottom Sump 1ea  
Option : Fume Extraction Module & Filters

**SC3-90F-1912D2-C**  
Standard : Shelves 3ea & Bottom Sump 1ea  
Option : Fume Extraction Module & Filters

### Diverse Certifications Obtained



Awarded the Safe Korean Technology Prize by the Ministry of the Interior and Safety.

- > Obtained CE (EN 14470-1) certification.
- > Acquired Certificate of Excellent Product from the Public Procurement Service in Korea.
- > Acquired performance certification from the Ministry of SMEs and Startup in Korea.
- > Awarded the 2018 Safe Korean Technology Prize by the Ministry of the Interior and Safety.

\*EN14470-1 verifies that the equipment meets the European safety standards for dangerous goods containers such as fire resistance, internal ventilation, shelf stability, and automatic door closure.

#### Fire resistance performance 90-minutes type

Type	Model
Stand	SC3-90F-1912D2-C
	SC3-90F-1906D1-C
Under	SC3-90F-0812D2D-C
	SC3-90F-0806D1D-C

#### Fire resistance performance 60-minutes type

Type	Model
Under	SC2-60F-0806D1-CL
	SC2-60F-0806D1-CR
	SC2-60F-0706D1-C

#### Fire resistance performance 30-minutes type

Type	Model
Stand	SC3-30F-1912D2-C
	SC3-30F-1906D1-C
Under	SC3-30F-0812D2D-C
	SC3-30F-0806D1D-C



## Safe Storage From Fire

- > **High fire resistance**  
Fire resistance performance is in accordance with the strictest European standard, with the internal temperature kept below 180K for up to 90 minutes in the event of fire.
- > **Fire response sealing system**  
When the temperature reaches 50°C, the door automatically closes. When the ambient temperature reaches 70±10°C, the exhaust holes and ventilation openings are automatically closed, totally blocking the flow of heat from the outside in the event of fire.
- > **The right model for the application can be selected**  
Possible to suppress fire at the natural ignition point of the dangerous goods being handled.  
Model selected considering the prediction time, etc.
- > **Chemical resistant interior material**  
Excellent chemical resistance even for long-term use with the interior material coated with polyphenol resin.
- > **Under bench type height-adjustable (SC3 Under-type Model)**  
75 mm/820 mm height can be selected considering the work height when hood is installed at the bottom.

## Solid and Secure Shelf Structure

- > **Solid shelf structure**  
It is a solid structure allowing for up to 80kg to be held per shelf and it can be fixed firmly to the left and right inside walls.
- > **Safe shelf design**  
With 30mm-deep shelf shape for safe storage, it is designed to be safe even if the stored contents are leaked.
- > **Right shelf selection**  
The built-in shelf is excellent in chemical resistance due to epoxy powder coating. Also, stainless steel shelves and PP trays can be selected. (option)

### Patented system with safe exhaust structure

System with optimally designed exhaust structure that effectively removes flammable vapor at normal times while preventing external flames from flowing directly into the interior.



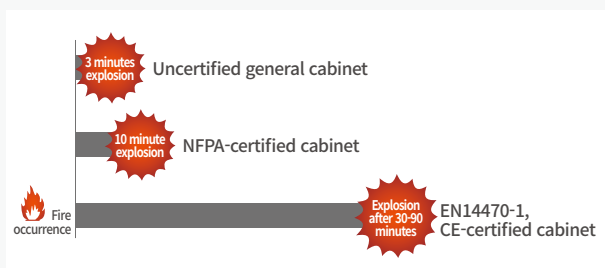
(Patent Registration No. 10-1605164)

Award Excellent Patent Award (in Korea)

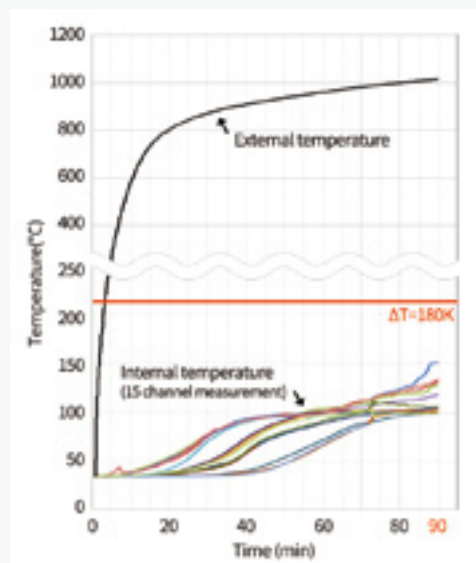
## Proven Fireproof Performance!

### Items proven by testing

- > 30 minutes / 60 minutes / 90 minutes fire resistance performance test
- > For fire test according to standards of EN 1363-1, the time required for AT to be kept below 180°C is expressed as fire resistance. (EN 14470-1)



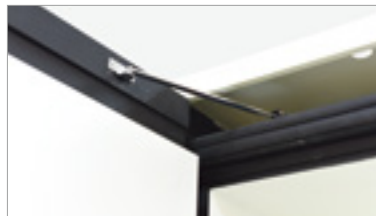
Comparison of fire resistance performance based on certification



SC3-90F-1912D2-C fire test results

➤ **Convenient reagent In/Out**

Equipped with door closure to stop the door at the desired position for easy insertion and removal of flammable reagents.



➤ **Automatically sealed ventilation**

When the ambient temperature reaches  $70 \pm 10^\circ\text{C}$  in case of surrounding fire, the exhaust opening, and ventilation opening are designed to be automatically closed to completely prevent the inflow of external heat.



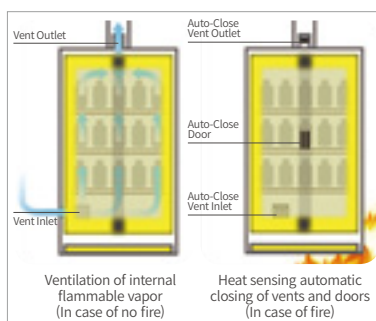
➤ **Anti-static charge through ground**

The ground to prevent static spark accidents caused by inside the cabinet where flammable vapors may be generated. For proper installation, each shelf should be connected with busbar inside of cabinet. Also the conduction bolt (located on upper part behind the cabinet) should be connected with distribution panelboard. (In case of ground can not be connected with distribution panelboard, please use grounded plug. (Option))



➤ **Safe ventilation of flammable vapor**

It is possible to discharge gas easily through the vent inlet and vent outlet to prevent accidents due to accumulation of flammable vapor, and to protect the health of the experimenter.



➤ **Configurable with lab safety workbench**

It is composed of a fume hood and a testing bench bottom, making it excellent for storing hazardous materials and waste liquids.





**Effluent reservoir**

Safe handling in the event of stored material leakage and prevention of leakage out of the cabinets.



**Key lock device**

Key lock is provided as standard to block unauthorized access.



**Safe stored materials handling**

Ergonomic structure with easy access to shelves for user's safety and convenience.



**Convenient moving and installation**

Forklift fork space for convenient movement. Leveling feet for stable installation.



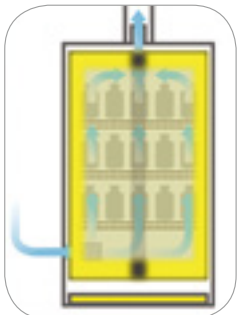
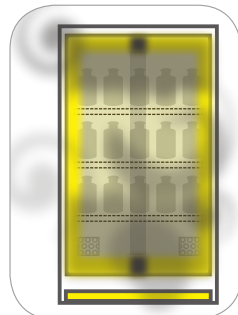
**Extraction module (option)**

Filters flammable gas inside the cabinet with a carbon filter without connecting a separate duct.



**Select a suitable shelf**

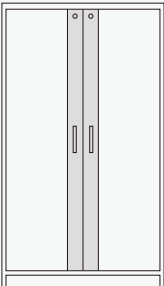

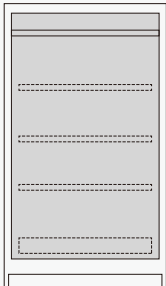
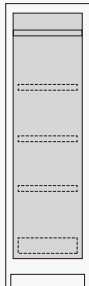
Providing the 3ea of shelf (up to 80kg storage) for stand type cabinet, and can be exchanged to drawer. (option)

	EN 14470-1	NFPA 30
<b>Fire resistance performance</b>	O	O
	Fire test according to EN 1363-1, 15 min.- 90 min. (15 min. / 30 min. / 60 min. / 90 min.)	NFPA 251 standard fire resistance test, 10 minute level
<b>Flammable vapor ventilation</b>	O	X
	Flammable vapor ventilation is recommended. Check sound pressure formation inside the cabinet during ventilation.	Ventilation is not recommended. (Recommended to use level of container recommended in NFPA 30)
	 <p>Keeps flammable vapors below the LEL concentration and removes smell(odors) through ventilation.</p>	 <p>It seals the ventilation holes, and an smell(odors) occurs inside the storage cabinet. The risk of ignition is increased as the concentration of flammable vapor increases.</p>
<b>Fire detection, automatic door and ventilation closure</b>	O	X
	Automatic door and ventilation closure during fire test.	In the case of a fire test, test with the ventilation hole blocked. Fire safety not considered when connecting to external ventilation facilities.

Comparison of EN 14470-1 and NFPA 30 International Standards



## Specification (Type 90)

Model	SC3-90F-1912D2-C	SC3-90F-1906D1-C
Internal volume (L / cu ft)	763 / 26.9	357 / 12.6
Interior dimensions (W x D x H, mm / inch)	968 x 484 x 1629 / 38.1 x 19.1 x 64.1	453 x 484 x 1629 / 17.8 x 19.1 x 64.1
Exterior dimensions (W x D x H, mm / inch)	1116 x 625 x 1952 / 43.9 x 24.6 x 76.9	601 x 625 x 1952 / 23.7 x 24.6 x 76.9
Quantity of shelf (standard / max.)	3 / 5	3 / 5
Max. load per shelf (kg / lbs) <sup>1)</sup>	80 / 176.3	80 / 176.3
Bottom collecting sump set <sup>2)</sup> (Volume : L / cu ft)	42 / 1.48	22 / 0.85
Weight (kg / lbs)	420 / 925.9	220 / 485.0
CE certification	O	O
Cat. No.	AAAF390170	AAAF390140
Product appearance		
Product interior		

- 1) Providing Epoxy powder coated shelf (standard), change to Stainless Steel shelf (option) or Drawer type. (option) Additional shelf is possible.  
 2) Providing Epoxy powder coated bottom collecting sump set (standard), change to Stainless Steel material. (option)

## Accessories (Type 90)

Accessory	Description (W x D x H, mm / inch)	SC3-90F-1912D2-C	SC3-90F-1906D1-C
Shelf	Epoxy powder coated steel	AAAF35014 (965 x 444 x 30 / 38.0 x 17.5 x 1.2)	AAAF35013 (451 x 444 x 30 / 17.8 x 17.5 x 1.2)
	Stainless steel	AAAF35004 (965 x 444 x 30 / 38.0 x 17.5 x 1.2)	AAAF35003 (451 x 444 x 30 / 17.8 x 17.5 x 1.2)
Drawer	Epoxy powder coated steel	AAAF35313 (798 x 452 x 100 / 31.4 x 17.8 x 3.9)	AAAF35312 (350 x 452 x 100 / 13.8 x 17.8 x 3.9)
	Stainless steel	AAAF35303 (798 x 452 x 100 / 31.4 x 17.8 x 3.9)	AAAF35302 (350 x 452 x 100 / 13.8 x 17.8 x 3.9)
Fume extraction module (EM-33)	348 x 498 x 343 / 13.7 x 19.6 x 13.5 (230V, 60Hz)	AAAF1536	AAAF1536

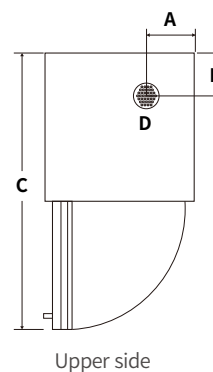
※ Please refer to page 199 for details on EM-33 compatible filter.

## Dimension

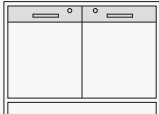

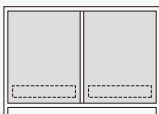

(Unit: mm / inch)

Model	A	B	C <sup>1)</sup>	D (Diameter)
SC3-90F-1912D2-C	170 / 6.7	160 / 6.3	1135 / 44.7	76 / 3
SC3-90F-1906D1-C	170 / 6.7	160 / 6.3	1135 / 44.7	76 / 3

1) C is the maximum depth when the door is opened.



## Specification (Type 90)

Model	SC3-90F-0812D2D-C	SC3-90F-0806D1D-C
Internal volume (L / cu ft)	244 / 8.6	110 / 3.9
Interior dimensions (W x D x H, mm / inch)	496 x 396 x 622 * 2ea / 19.5 x 15.6 x 24.5 * 2ea	448 x 396 x 622 / 17.6 x 15.6 x 24.5
Exterior dimensions (W x D x H, mm / inch)	1200 x 560 x 730 (or 820) / 47.2 x 22.0 x 28.7 (or 32.3)	600 x 560 x 730 (or 820) / 23.6 x 22.0 x 28.7 (or 32.3)
Quantity of shelf	-	-
Max. load (kg / lbs)	40 * 2ea / 88.2 * 2ea	40 / 88.2
Bottom collecting sump set <sup>1)</sup> (Volume : L / cu ft)	24 / 0.85 x 2ea	22 / 0.78
Weight (kg / lbs)	220 / 485.0	134 / 295.4
CE certification	O	O
Cat. No.	AAAF390130	AAAF390120
Product appearance		
Product interior		

1) Providing Epoxy powder coated bottom collecting sump set (standard), change to Stainless Steel material. (option)  
 ※ Possible to set the exclusive guide for Safety Waste Disposal System. (option)

## Accessories (Type 90)

Accessory	Description (W x D x H, mm / inch)	SC3-90F-0812D2D-C	SC3-90F-0806D1D-C
Plinth (side)	480 x 340 x 350 / 18.9 x 13.4 x 13.8	AAAF15364	AAAF15364
Fume extraction module (EM-33)	348 x 498 x 343 / 13.7 x 19.6 x 13.5	AAAF1536	AAAF1536

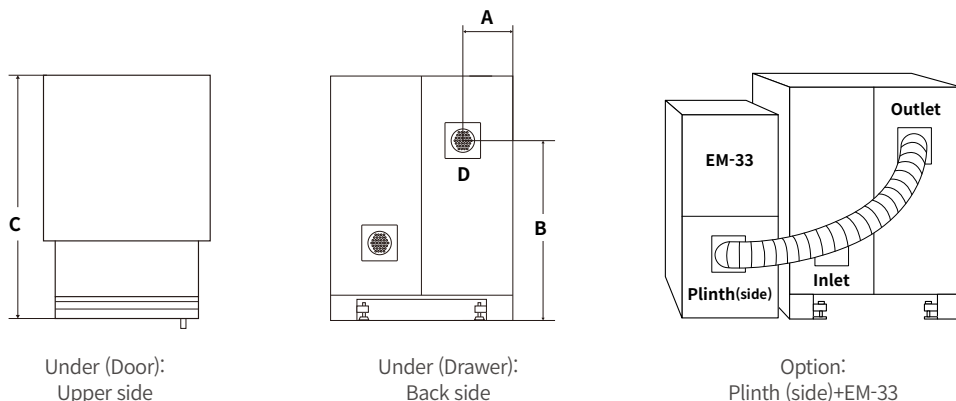
※ Please refer to page 199 for details on EM-33 compatible filter.

## Dimension

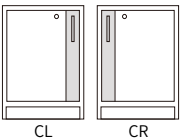



(Unit: mm / inch)

Model	A	B	C <sup>1)</sup>	D (Diameter)	
Under (Drawer)	SC3-90F-0812D2D-C	185 / 7.3	255 / 10.0	840 / 33.1	60 / 2.4
	SC3-90F-0806D1D-C	165 / 6.5	255 / 10.0	840 / 33.1	60 / 2.4

1) C is the maximum depth when the Drawer is opened.



## Specification (Type 60)

Model	SC2-60F-0806D1-CL / SC2-60F-0806D1-CR	SC2-60F-0706D1-C
Internal volume (L / cu ft)	89 / 3.1	76 / 2.7
Interior dimensions (W x D x H, mm / inch)	505 x 419 x 422 / 19.9 x 16.5 x 16.6	505 x 419 x 362 / 19.9 x 16.5 x 14.3
Exterior dimensions (W x D x H, mm / inch)	600 x 610 x 820 / 23.6 x 24.0 x 32.3	600 x 610 x 720 / 23.6 x 24.0 x 28.3
Max. load (kg / lbs)	80 / 176.4	80 / 176.4
Bottom collecting sump set <sup>1)</sup> (Volume : L / cu ft)	7 / 0.25	7 / 0.25
Weight (kg / lbs)	106 / 233.7	100 / 220.5
Cat. No.	AAAF360310 / AAAF360311	AAAF360110
Product appearance		
Product interior		

1) Providing Epoxy powder coated bottom collecting sump set (standard), change to Stainless Steel material. (option)

## Accessories (Type 60)

Accessory	Description (W x D x H, mm / inch)	SC2-60F-0806D1-CL / SC2-60F-0806D1-CR	SC2-60F-0706D1-C
Plinth (side)	480 x 340 x 350 / 18.9 x 13.4 x 13.8	AAAF15364	AAAF15364
Fume extraction module (EM-33) (230V, 60Hz)	348 x 498 x 343 / 13.7 x 19.6 x 13.5	AAAF1536	AAAF1536

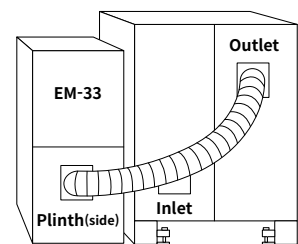
※ Please refer to page 199 for details on EM-33 compatible filter.

## Dimension

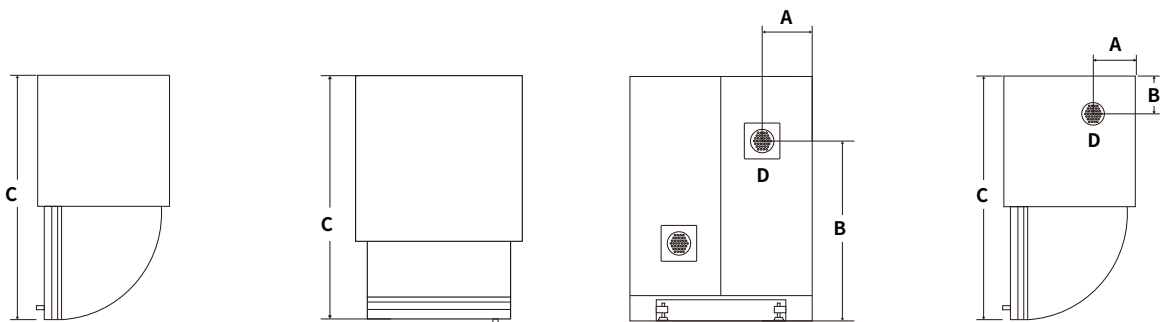
(Unit: mm / inch)

Model	A	B	C <sup>1)</sup>	D (Diameter)	
Under (Door)	SC2-60F-0806D1-CR/CL	125 / 4.9	530 / 20.9	1070 / 42.1	102 / 4.0
	SC2-60F-0706D1-C	125 / 4.9	480 / 18.9	1070 / 42.1	102 / 4.0
Under (Drawer)	SC3-30F-0812D2D-C	160 / 6.3	235 / 9.3	840 / 33.1	60 / 2.4
	SC3-30F-0806D1D-C	160 / 6.3	235 / 9.3	840 / 33.1	60 / 2.4
Tall	SC3-30F-1912D2-C	180 / 7.1	170 / 6.7	1095 / 43.1	76 / 3.0
	SC3-30F-1906D2-C	180 / 7.1	170 / 6.7	1120 / 44.1	76 / 3.0

1) C is the maximum depth when the door is opened.



Option:  
Plinth (side)+EM-33



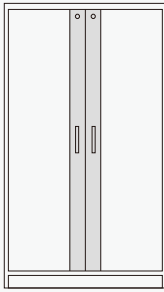

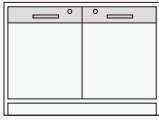

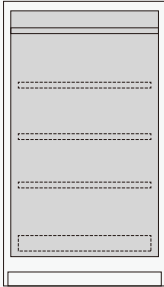
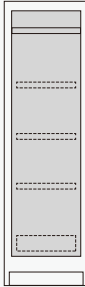

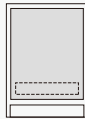
Under (Door): Upper side

Under (Drawer): Upper side

Under: Back side

Tall: Upper side

## Specification (Type 30)

Model	SC3-30F-1912D2-C	SC3-30F-1906D1-C	SC3-30F-0812D2D-C	SC3-30F-0806D1D-C
<b>Internal volume (L / cu ft)</b>	802 / 28.3	375 / 13.2	252 / 8.9	116 / 4.1
<b>Interior dimensions (W x D x H, mm / inch)</b>	968 x 507 x 1635 / 38.1 x 20.0 x 64.4	453 x 507 x 1635 / 17.8 x 20.0 x 64.4	506 x 415 x 602 * 2ea / 19.9 x 16.3 x 23.7 * 2ea	468 x 415 x 602 / 18.4 x 16.3 x 23.7
<b>Exterior dimensions (W x D x H, mm / inch)</b>	1101 x 630 x 1951 / 43.3 x 24.8 x 76.8	586 x 630 x 1951 / 23.1 x 24.8 x 76.8	1200 x 560 x 820 / 47.2 x 22.0 x 32.3	600 x 560 x 820 / 23.6 x 22.0 x 32.3
<b>Quantity of shelf (standard / max.)</b>	3/5	3/5	-	-
<b>Max. load per shelf (kg / lbs)</b>	80 / 176.4	80 / 176.4	40*2ea <sup>1)</sup> / 88.2*2ea	40 <sup>1)</sup> / 88.2
<b>Bottom collecting sump set<sup>2)</sup> (Volume : L / cu ft)</b>	42 / 1.48	22 / 0.78	26 / 0.92 x 2ea	24 / 0.85
<b>Weight (kg / lbs)</b>	330 / 727.5	220 / 485.0	200 / 440.9	120 / 264.6
<b>Cat. No.</b>	<b>AAAF330470</b>	<b>AAAF330440</b>	<b>AAAF330430</b>	<b>AAAF330420</b>
<b>Product appearance</b>				
<b>Product interior</b>				

1) Drawer type is the maximum load for the drawer.

2) Providing epoxy powder coated bottom collecting sump set (standard), change to stainless steel material. (option)

## Accessories (Type 30)

Accessory	Description (W x D x H, mm / inch)	SC3-30F-1912D2-C	SC3-30F-1906D1-C	SC3-30F-0812D2D-C	SC3-30F-0806D1D-C
<b>Shelf</b>	Epoxy powder coated steel	<b>AAAF35014</b> (965 x 444 x 30 / 38.0 x 17.5 x 1.2)	<b>AAAF35013</b> (451 x 444 x 30 / 17.8 x 17.5 x 1.2)	-	-
	Stainless steel	<b>AAAF35004</b> (965 x 444 x 30 / 38.0 x 17.5 x 1.2)	<b>AAAF35003</b> (451 x 444 x 30 / 17.8 x 17.5 x 1.2)	-	-
<b>Drawer</b>	Epoxy powder coated steel	<b>AAAF35313</b> (798 x 452 x 100 / 31.4 x 17.8 x 3.9)	<b>AAAF35312</b> (350 x 452 x 100 / 13.8 x 17.8 x 3.9)	-	-
	Stainless steel	<b>AAAF35303</b> (798 x 452 x 100 / 31.4 x 17.8 x 3.9)	<b>AAAF35302</b> (350 x 452 x 100 / 13.8 x 17.8 x 3.9)	-	-
<b>Plinth (Side)</b>	480 x 340 x 350 / 18.9 x 13.4 x 13.8	-	-	<b>AAAF15364</b>	<b>AAAF15364</b>
<b>Fume extraction module (EM-33) (230V, 60Hz)</b>	348 x 498 x 343 / 13.7 x 19.6 x 13.5	<b>AAAF1536</b>	<b>AAAF1536</b>	<b>AAAF1536</b>	<b>AAAF1536</b>

※ Please refer to page 199 for details on EM-33 compatible filter.

# Safety Waste Disposal System



## Easy to collect and store various chemicals and waste liquids generated in the lab.

### > Safe device to prevent leakage

- Safety funnel dedicated to waste fluid treatment, which is convenient for handling due to wide funnel inlet opening.
- 80 % level bar is standard to make it easier to know when to replace the disposal fluid level in container, and can be replaced 70% level bar as required by the experimenter.

### > Classified emission according to the type of chemical properties

- Different colors of the safety funnel lid depending on the chemical properties to clearly distinguish when treating waste liquid treatment.
- Safety labels can be attached to the top of the safety funnel to prevent the mixing of waste fluids with different properties.

### > Pressure and gas treatment by reaction

- Hinge-type lid minimizes the discharge of vapors from the waste solution into the lab.
- Removes bad odors and harmful gas. (carbon filter can be replaced easily without remove existing attachment without the use of any tools) (option)

### > Anti-static protection

- Anti-Static protection via special plastic material and ground cable. (SF model)
- Ease of ground wire cleanup when configured with a flammable material storage cabinets. (sold separately)



**SF-14P & WT-20P**

with Carbon Filter (option)

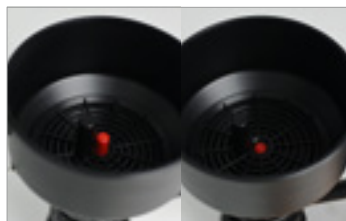


**SF-14C & WT-20C**

with Carbon Filter (option)



Wide inlet of waste liquid funnel.



Waste liquid level notification function.



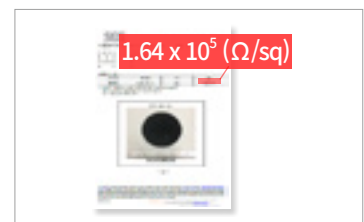
Classified color label and lid color according to chemical properties.



Hinge-type lid.



A dedicated flammable material storage cabinets to contain waste disposal system. (only for SC3-90F drawer type)



Anti-static material to prevent static electricity generation.

## Specification

Model	SF-14C	SF-14P	WT-20C	WT-20P
<b>Description</b>	Anti-static Safety funnel for collection of waste liquid	General use Safety funnel for collection of waste liquid	Anti-static liquid waste container	General-purpose liquid waste container
<b>Dimension (W x D x H, mm / inch)</b>	160 x 142 x 270 / 6.3 x 5.6 x 10.6	160 x 142 x 270 / 6.3 x 5.6 x 10.6	220 x 300 x 380 / 8.7 x 11.8 x 15.0	220 x 300 x 380 / 8.7 x 11.8 x 15.0
<b>Inlet (ø, mm / inch)</b>	135 / 5.3	135 / 5.3	45 / 1.8	45 / 1.8
<b>Lid size (ø, mm / inch)</b>	142 / 5.6	142 / 5.6	65 / 2.6	65 / 2.6
<b>Volume (L / cu ft)</b>	1 / 0.04	1 / 0.04	22 / 0.78	22 / 0.78
<b>Material</b>	PP	PP	HDPE	HDPE
<b>Cat. No.</b>	<b>AAAM6001</b>	<b>AAAM6002</b>	<b>AAAM6011</b>	<b>AAAM6012</b>

## Accessories

Description	Dimension (ø x H, mm / inch)	Cat. No.
<b>Carbon Filter</b>	76 x 150 / 3.0 x 5.9	<b>AAAM6051</b>
<b>Grounded Plug</b>	52 x 70 / 2.0 x 2.8	<b>00SCF0000213</b>

※ In case of ground can not be connected with distribution panelboard, please use grounded plug. (option)



# Acid Corrosive Cabinet Small type



## Compact size enables efficient space utilization

### > Safe storage from corrosive substances

- Full injection molding of polyethylene materials with excellent chemical resistance for durability and corrosion resistance.
- Suitable for storage of small amounts of corrosive reagents. (Max. 18ea based on a 1L reagent basis)
- Inside of cabinet is designed by with no steel structure for corrosion protection.

### > Convenient and safe ventilation

- Use duct connection of existing facility or dedicated hazardous gas removal Fume Extraction Module (EM-33 option) connection.
- Dedicated the hazardous gas removal module(EM-33) can be selected the validated filter from JeioTech. (EM-33 and filter is option)



### PCC-720

with Fume Extraction Module (EM-33) (option) + Plinth-PCC (option)

## Specification

	Model	PCC-720
<b>Material</b>	Body	PE (Polyethylene)
	Door / Guide	PE (Polyethylene)
<b>Dimension</b>	Exterior (W x D x H, mm / inch)	720 x 472 x 535 / 28.3 x 18.6 x 21.1
	Front opening (W x D, mm / inch)	560 x 320 / 22.0 x 12.6
	Duct hole (O.D., mm / inch)	150 / 5.9
	Net weight (kg / lbs)	9.7 / 21.4
<b>Cat. No.</b>		<b>AAAF61001</b>

# Acid/Corrosive Cabinet

## Safety cabinets for long-term storage of acid/base substances



### SC-C1912D4

with Shelves 4ea, Tray 8ea (standard)

### SC-C1906D2

with Shelf 1ea, Tray 2ea (standard),  
Fume Extraction Module & Filters (option)



#### Filter-type harmful gas exhaust (option)

Filters harmful gas inside the cabinet with a carbon filter without connecting a separate duct. (see page 199 for details)



#### Key lock device

Key lock is provided as standard to block unauthorized access.



#### Corrosion-resistant PP Tray

Spill tray to prevent leakage of stored materials.



#### Safe stored materials handling

Ergonomic structure with easy access to shelves for user's safety and convenience.



#### Convenient moving and installation

Forklift fork space for convenient movement  
Leveling feet for stable installation.



#### Identification pictogram stickers provided

Easy to classify stored materials with the provision of removable acid/base stickers.



## Safe Storage From Corrosive Substances

- > **EN 14727 standards test completed**  
Reliable acid/base material container that has passed laboratory cabinet testing for performance and durability according to the strictest European standards.
- > **Completed SEFA standards chemical tests**  
Verified suitability for long-term storage of acid/base materials with testing of corrosion-resistant interior material, polypropylene shelf and exhaust outlet coated with polyphenol resin on the inside.
- > **Solid steel structure**  
Stable construction of steel frame prevents structural deformation, and it has excellent external chemical resistance due to epoxy coating.
- > **No steel structure inside storage cabinet**  
Stainless steel shelves, shelf racks, bolts, door catches, exhausts etc. are not used inside to prevent internal corrosion.
- > **Space-efficient internal compartments**  
The internal compartment structure allows materials stored in one reagent cabinet to be classified according to their characteristics, allowing for safe storage. (except SC-C-0706D1)

## Optimized For Categorized Storage

- > **Obtained performance certification**  
Acquired certification from the Ministry of SMEs (in Korea) for preventing mixing of samples (solutions, exhaust gases) between storage compartments.



## Strong and Secure Shelf Structure

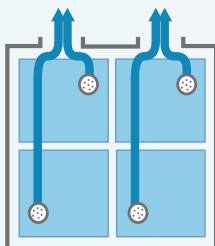
- > **Strong shelf structure**  
It is a solid structure allowing for up to 80kg to be held per shelf and it can be fixed firmly to the left and right inside walls.
- > **Safe shelf design**  
The shelf tray with a minimum depth of 30mm is made of polypropylene and is designed to be safe even when storage spills out. The corresponding tray is provided as standard for each model.

## Convenient and Safe Ventilation System

- > **Ventilation opening per inner compartment**  
It is possible to achieve maximum exhaust with there being a ventilation opening inside each compartment, preventing accumulation of gas.
- > **Connection of exhaust system (option)**  
The exhaust port can be conveniently connected to the exhaust system, making it easy to remove harmful gas.

### Safe storage with separate gas discharge path according to storage characteristics

Outlets for contaminated air are designed for each internal space, so there is no heterogeneous gas mixing inside the storage compartment, and safe storage is possible as materials are stored according to their characteristics.

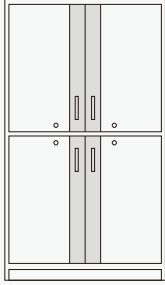
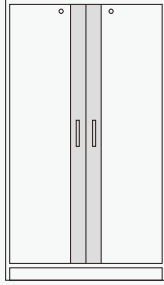


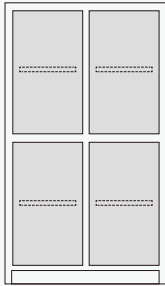
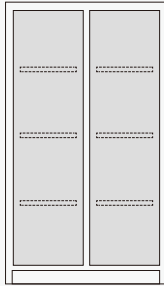




(Patent Registration No. 10-1614122)





## Specification (Tall Type)

Model	SC-C-1912D4	SC-C-1912D2	SC-C-1906D2	SC-C-1906D1
<b>Internal volume (L / cu ft)</b>	852 (213 x 4ea) / 30.1 (7.5 x 4ea)	894 (447 x 2ea) / 31.6 (15.8 x 2ea)	426 (213 x 2) / 15.0 (7.5 x 2ea)	445 / 15.7
<b>Interior dimensions (W x D x H, mm / inch)</b>	561 x 466 x 818 * 4ea / 22.1 x 18.3 x 32.2 * 4ea	561 x 466 x 1712 * 2ea / 22.1 x 18.3 x 67.4 * 2ea	561 x 466 x 818 * 2ea / 22.1 x 18.3 x 32.2 * 2ea	558 x 466 x 1712 / 22.1 x 18.3 x 67.4
<b>Exterior dimensions (W x D x H, mm / inch)</b>	1255 x 555 x 1900 / 49.4 x 2.2 x 74.8	1255 x 555 x 1900 / 49.4 x 2.2 x 74.8	655 x 555 x 1900 / 25.8 x 2.2 x 74.8	655 x 555 x 1900 / 25.8 x 2.2 x 74.8
<b>Quantity of shelf (standard / max.)</b>	4 / 8	6 / 12	2 / 4	3 / 6
<b>Quantity of tray (standard / max.)</b>	8 / 12	8 / 14	4 / 6	4 / 7
<b>Distance of between shelves (mm / inch)</b>	120 / 4.7	100 / 3.9	130 / 5.1	100 / 3.9
<b>Max. load per shelf (kg / lbs)</b>	80 / 176.4	80 / 176.4	80 / 176.4	80 / 176.4
<b>Weight (kg / lbs)</b>	284 / 626.1	257 / 566.6	160 / 352.7	146 / 321.9
<b>Cat. No.</b>	<b>AAAF60043</b>	<b>AAAF60025</b>	<b>AAAF60023</b>	<b>AAAF60011</b>
<b>Product appearance</b>				
<b>Product interior</b>				

※ If combustible vapor is delayed without ventilation during storage of corrosive materials such as acid/base materials, this may affect the durability of the product, or the inside air may become contaminated. Therefore, it is recommended to connect to the ventilation system of the building or to a separate exhaust system.

※ There is an exhaust vent at the top of the cabinets, so it can be used by connecting to the forced exhaust or purifier.

## Accessories



Tray (PP)



Extraction Module (option)



Plinth (Side) + EM-33

Accessories	Description (W x D x H, mm / inch)	SC-C-1912D4	SC-C-1912D2	SC-C-1906D2	SC-C-1906D1
<b>Tray</b>	545 x 419 x 33 / 21.5 x 16.5 x 1.3 (Polypropylene)	<b>00SCF0000037</b> (8 included as standard)	<b>00SCF0000037</b> (8 included as standard)	<b>00SCF0000037</b> (8 included as standard)	<b>00SCF0000037</b> (8 included as standard)
<b>Fume extraction module (EM-33)</b>	348 x 498 x 343 / 13.7 x 19.6 x 13.5 (230V, 60Hz)	<b>AAAF1536</b>	<b>AAAF1536</b>	<b>AAAF1536</b>	<b>AAAF1536</b>
<b>Plinth (Top)</b> <sup>1)</sup>	852 x 480 x 49 / 33.5 x 18.9 x 1.9	<b>AAAF15362</b>	<b>AAAF15362</b>	-	-

1) In case of using the 1ea extraction module, one plinth (top) need to order together. But when you ordered the 2ea extraction module, don't need to order extra plinth (top)

## Specification (Under Type)

Model	SC-C-0812D2	SC-C-0809D2	SC-C-0806D1	SC-C-0706D1
<b>Internal volume (L / cu ft)</b>	312 (156 x 2ea) / 11.0 (5.5 x 2ea)	226 (113 x 2ea) / 8.0 (4.0 x 2ea)	146 / 5.2	115 / 4.1
<b>Interior dimensions (W x D x H, mm / inch)</b>	543 x 456 x 634 * 2ea / 21.4 x 18.0 x 25.0 * 2ea	393 x 456 x 634 * 2ea / 15.5 x 18.0 x 25.0	505 x 456 x 634 / 19.9 x 18.0 x 25.0	505 x 421 x 542 / 19.9 x 18.0 x 21.3
<b>Exterior dimensions (W x D x H, mm / inch)</b>	1200 x 548 x 820 / 47.2 x 21.6 x 32.3	900 x 548 x 820 / 35.4 x 21.6 x 32.3	600 x 548 x 820 / 23.6 x 21.6 x 32.3	600 x 510 x 650 / 23.6 x 20.1 x 25.6
<b>Quantity of tray</b>	2	2	1	1
<b>Max. load per tray (kg / lbs)</b>	80 / 176.4	80 / 176.4	80 / 176.4	80 / 176.4
<b>Weight (kg / lbs)</b>	110 / 242.5	92 / 202.8	65 / 143.3	52 / 114.6
<b>Cat. No.</b>	<b>AAAF60122</b>	<b>AAAF60121</b>	<b>AAAF60113</b>	<b>AAAF60012</b>
<b>Product appearance</b>				
<b>Product interior</b>				

※ If combustible vapor is delayed without ventilation during storage of corrosive materials such as acid/base materials, this may affect the durability of the product, or the inside air may become contaminated. Therefore, it is recommended to connect to the ventilation system of the building or to a separate exhaust system.

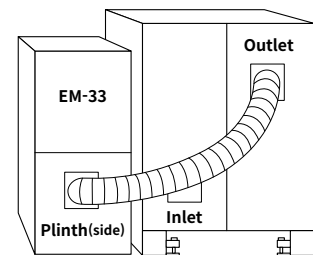
## Accessories

Accessory	Description (W x D x H, mm / inch)	SC-C-0812D2	SC-C-0809D2	SC-C-0806D1	SC-C-0706D1
<b>Tray</b>	PP (545 x 419 x 33 / 21.5 x 16.5 x 1.3)	<b>00CBN0000010</b>	-	-	-
	PP (470 x 370 x 100 / 18.5 x 14.6 x 3.9)	-	-	<b>00CBN0000010</b>	<b>00CBN0000010</b>
	PVC (390 x 450 x 37 / 15.3 x 17.7 x 1.5)	-	<b>00SCF0000100</b>	-	-
<b>Plinth (side)</b>	480 x 340 x 350 / 7.1 x 13.4 x 13.8	<b>AAAF15364</b>	<b>AAAF15364</b>	<b>AAAF15364</b>	<b>AAAF15364</b>

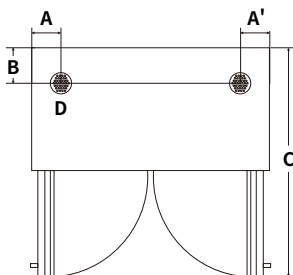
## Dimension

(Unit: mm / inch)

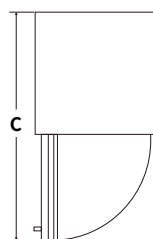
	Model	A	A'	B	C	D (Dia.)
<b>Tall</b>	<b>SC-C-1912D4</b>	315 / 12.4	315 / 12.4	75 / 3.0	1110 / 43.7	102 / 4.0
	<b>SC-C-1912D2</b>	315 / 12.4	315 / 12.4	75 / 3.0	1110 / 43.7	102 / 4.0
	<b>SC-C-1906D2</b>	325 / 12.8	-	75 / 3.0	1120 / 44.1	102 / 4.0
	<b>SC-C-1906D1</b>	325 / 12.8	-	75 / 3.0	1120 / 44.1	102 / 4.0
<b>Under</b>	<b>SC-C-0812D2</b>	130 / 5.1	520 / 20.5	605 / 23.8	1190 / 46.9	102 / 4.0
	<b>SC-C-0809D2</b>	130 / 5.1	370 / 14.5	605 / 23.8	940 / 37.0	102 / 4.0
	<b>SC-C-0806D1</b>	130 / 5.1	-	605 / 23.8	1060 / 41.7	102 / 4.0
	<b>SC-C-0706D1</b>	130 / 5.1	-	435 / 17.1	1060 / 41.7	102 / 4.0



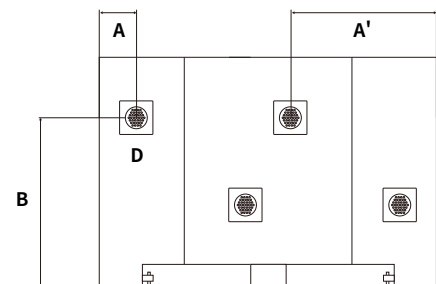
Option: Plinth (side)+EM-33



Tall: Upper side



Under: Upper side



Under: Back side

# Filtering Storage Cabinet

The internal carbon filter removes harmful gas in the reagent cabinet to protect the experimenter

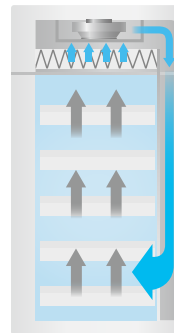


**FSC-140**

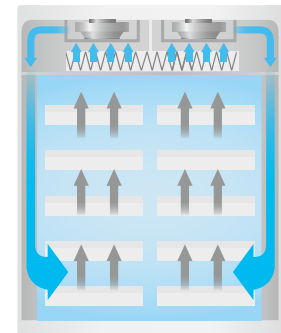
with Drawer Shelves 5ea (standard)

**Completed hazardous gas removal capability/capacity verification and door durability test.**

- Ability to remove harmful gases / Capacity Test. (SPS-KACA 002-132)  
Completed verification of high-efficiency hazardous gas rates.  
Apply composite carbon filter. (VOC, acid, base)
- Door durability test. (KS G 2020 specification)  
40,000 open/close test verification completed.



FSC-140



FSC-280



**Easy to use as a drawer-type shelf**  
Drawer-type shelf for convenient handling of inner samples installed as standard.



**Brightness control LED lamp**  
Easy to observe the inside with LED lamp, and possible to adjust the brightness to 5 levels.



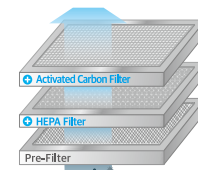
**Safe with effluent storage container**  
Safe handling in the event of stored material leakage and prevention of leakage out of the reagent cabinet.



**Structure convenient for moving and installation**  
Structure allows it to be moved and fixed and it can be also be safely installed horizontally.



**Key lock device**  
Key lock is provided as standard to block unauthorized access.



**Possible to two filters installed at the same time**  
Two filters can be installed at the same time, except the pre-filter provided as standard.



## Suitable for Storing Sealed Reagents

- > **No external exhaust system connection required**  
A filter is installed inside the cabinet to remove harmful gas using internal air circulation.
- > **Air-conditioning energy reduction**  
It is a closed structure that does not allow the inside air to be discharged through the exhaust device, thus saving energy used for indoor cooling/heating.
- > **Efficient fan speed control**  
Convenient 0~5 step fan speed control function increases filter life and minimizes energy consumption.
- > **Turbo mode for pleasant use**  
In order to minimize exposure to harmful gas, the fan speed is temporarily maximized when opening the door.

## Outstanding Safety

- > **Internal temperature rise warning**  
High temperature warning alarm function in case of temperature rise inside the reagent.
- > **Air circulation detection and warning**  
Notification of internal air flow abnormality with detection of fan operation.
- > **Sturdy epoxy powder coating**  
Excellent chemical and corrosion resistance and durability even for long-term use.
- > **External sensor connection possible**  
Can be connected with external sensor (option) so that alarm is generated when the set limit is exceeded.

## Various Functions Convenient for Management

- > **Efficient use with sleep mode**  
Operates only at the set time (for example, working time period) to save energy and extend the filter life.
- > **Displays various information**  
Displays useful information such as VOC, temperature, humidity, filter check notification, etc. in real time.
- > **Filter configuration customizable for application**  
Various custom filter configurations supported depending on the chemical nature of the reagents to be stored. (see page 217 for details)
- > **Structure allows for convenient filter management**  
It is very convenient to check filter saturation and replace by opening the front part of the reagent cabinet.
- > **Check filter saturation with Gas Detector**  
Saturation of the complex carbon filter is easily checked using dedicated gas detector. (option)
- > **Filter check notification function**  
Filter maintenance notification function of 1-24 month cycle makes it easy to manage the filter according to the usage environment.
- > **Filter history management function**  
Supports efficient filter management by saving filter usage time and checking history.
- > **Recording system for filter management**  
Records the filter check time, material name and concentration value in the controller.



Gather information at a glance

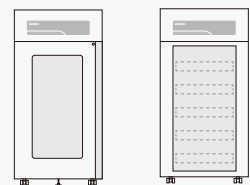
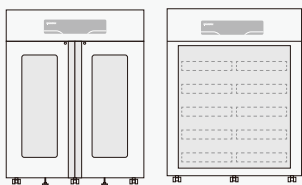


Simple replacement



Checking filter saturation

## Specification

Model		FSC-140		FSC-280	
Internal volume (L / cu ft)		604 / 21.3		1317 / 46.5	
Capacity (L or quantity of 1 L bottle)		140		280	
Airflow rate (m <sup>3</sup> /min)		0.67		1.34	
Noise level (dB)		< 50		< 55	
Safety	Warning / Alarm	High Temperature, Door Open, Fan Fail, Sensor Error Check Filter, External Input Error			
	Protection	Over Temperature Protection, Over Current Protection			
Dimensions	External (W x D x H, mm / inch)	930 x 636 x 1890 / 36.6 x 24.8 x 74.4		1868 x 636 x 1890 / 73.5 x 24.8 x 74.4	
	Internal (W x D x H, mm / inch)	795 x 578 x 1315 / 31.3 x 22.8 x 51.8		1733 x 578 x 1315 / 68.2 x 22.8 x 51.8	
	Drawer (W x D x H, mm / inch)	613 x 478 x 109 / 24.1 x 18.8 x 4.3		613 x 478 x 109 / 24.1 x 18.8 x 4.3	
	Spill tray (W x D x H, mm / inch)	670 x 526 x 34 (1ea) / 26.4 x 20.7 x 1.3 (1ea)		670 x 526 x 34 (2ea) / 26.4 x 20.7 x 1.3 (2ea)	
Weight (kg / lbs)		300 / 661.4		495 / 1091.3	
Quantity of drawer (standard / max.)		5 / 10		10 / 20	
Max. load capacity per drawer (L or quantity of 1 L bottle)		28		28	
Max. load per drawer (kg / lbs)		40 / 88.2		40 / 88.2	
Electrical requirements (230V)		60Hz, 0.5A	50Hz, 0.5A	60Hz, 1.0A	50Hz, 1.0A
Cat. No		<b>AAHF1121K</b>	<b>AAHF1122K</b>	<b>AAHF1131K</b>	<b>AAHF1132K</b>
Electrical requirements (120V)		60Hz, 1.0A		60Hz, 2.0A	
Cat. No		<b>AAHF1123U</b>		<b>AAHF1133U</b>	
		 <p><b>Product appearance</b>      <b>Product interior</b></p>		 <p><b>Product appearance</b>      <b>Product interior</b></p>	

- See page 242 (chapter on Refrigerator for laboratory/medical use) for filter-type refrigerating cabinet with filtering and cold storage functions.

Model	FSR-650G		FSR-1400G	
Internal volume (L / cu ft)	660 / 22.3		1451 / 51.2	
Exterior dimension (W x D x H, mm / inch)	770 x 850 x 1955 / 30.3 x 33.5 x 77.0		1550 x 850 x 1955 / 61.0 x 33.5 x 77.0	
Interior dimension (W x D x H, mm / inch)	650 x 700 x 1450 / 25.6 x 27.6 x 57.1		1430 x 700 x 1450 / 56.3 x 27.6 x 57.1	
Cat. No.	230V / 60hz	230V / 50hz	230V / 60hz	230V / 50hz
	<b>AAHF13111K</b>	<b>AAHF13112K</b>	<b>AAHF13121K</b>	<b>AAHF13122K</b>
	120V / 60Hz		120V / 60Hz	
	<b>AAHF13113U</b>		<b>AAHF13123U</b>	

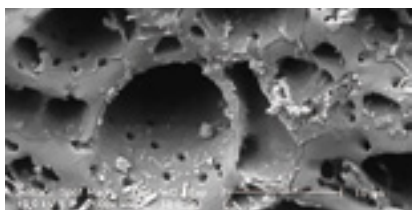




## Accessories

### Lab Companion's Filter Series

- The Lab Companion's carbon filter is an excellent amorphous adsorbent with a high surface area, has fine pores and is manufactured through a multi-level impregnation process.
- Made of 100% impregnated filter, it is more than twice as efficient as general filters.
- Has the efficiency of an excellent composite filter as it simultaneously performs physical adsorption and chemical adsorption.



- Electron microscopic photographs of Lab Companion's carbon filter confirms development of numerous pores such as Macropores (diameter of more than 500Å), Mesopores (diameter of 20-500Å), and Micropores. (diameter of 20Å or less)

Filter	Description	Cat. No.
<b>Complex Carbon</b>	Filters a wide range of chemicals, including acid, ammonia, and aldehyde	<b>AAAF1537</b>
<b>Acid</b>	Filters acid gases such as HCl, HF, H <sub>2</sub> S and CH <sub>3</sub> COOH	<b>AAAF1539</b>
<b>Formaldehyde</b>	Filters formaldehyde, Acete aldehyde, etc.	<b>AAAF1541</b>
<b>Ammonia / Amines</b>	Filters Basic Gases Such As NH <sub>3</sub> , (CH <sub>3</sub> ) <sub>3</sub> N etc.	<b>AAAF1542</b>
<b>HEPA</b>	Filters 99.99% of toxic dust and other 0.3µm particles	<b>00FSC0000083</b>

- ※ Above filter should be ordered two when you apply the FSC -280.
- ※ The appropriate filter is selected according to the chemical used.
- ※ Built-in pre-filter primarily filters particles to extend the life of the other filters.

### Gas Detector & Tube & Drawer Set

- Check the condition of the Complex Carbon filter for the currently used chemical and determine the replacement time of the filter.

Item	Cat. No.
<b>Gas Detector</b>	KITAGAWA AP-20 <b>AAAB2531</b>
<b>Gas Detecting Tube</b>	Benzene, GASTEC-121SP (0.5-10 ppm) <b>AAAB1550</b>
	Toluene, GASTEC-122L (1-100 ppm) <b>AAAB1551</b>
	Acetic acid, GASTEC-81L (0.125-25 ppm) <b>AAAB1552</b>
	Chloroform, GASTEC-137 (4-400 ppm) <b>AAAB1553</b>
	Formaldehyde, GASTEC-91LL (0.05-1 ppm) <b>AAAB1554</b>
	Ammonia, GASTEC-3L (0.5-60 ppm) <b>AAAB1555</b>
<b>Drawer set</b>	Drawer shelf (slide) set <b>AAAF1512</b>



# Gas Cylinder Cabinet



## Safe storage of high-pressure cylinders

- > **Stable storage environment**  
Solid steel cabinet prevents external impact and prevents cylinders from falling over.
- > **Consideration of gas piping connection**  
The structure features a hole in the upper space for the connection of a gas regulator and piping.
- > **Door Lock**  
Key lock is provided as standard to block unauthorized access.
- > **Convenient internal observation**  
Inspection windows provided on the front to allow for checking of the gas valves and remaining amount.
- > **Plastic chain provided**  
Plastic chain for fixing cylinders included as standard.  
Plastic material prevents scratches to cylinders/product.
- > **Convenient cylinder replacement**  
Includes folding ramp, which is convenient for replacing heavy cylinders.



### DS-GC

with Plastic Chain, Folding Ramp (standard)

## Specification

Model	DS-GC (Height: 1800 mm)		
Depth : 550 mm / 21.7inch	Cat. No.	AAAF1070	AAAF1071
	Model	DS-GC-18074N2	DS-GC-18107N2
Width (mm / inch)		740 / 29.1	1070 / 42.1
Gas Cylinder (Ø230 mm / 9.1 inch) Storage quantity		2	3



Plastic chain for fixing cylinders



Folding ramp for convenient cylinder replacement

# Multiple Drawer Cabinet



## Solid and convenient storage

- > **Solid structure**  
Solid design with steel body and 11 vertical shelves.
- > **Convenient drawer-type shelf**  
Drawer-type shelf structure with sliding rails for convenient handling of stored materials located inside.
- > **Height-adjustable shelf structure**  
Designed to allow for adjustment of the height of the shelf, making it possible to store materials of various sizes simultaneously.
- > **Solid shelf structure**  
Each shelf can accommodate up to 40kg, and the polypropylene material provides excellent chemical resistance.
- > **Shelf interior partition provided**  
There are adjustable partitions inside each shelf to make it more convenient to organize stored materials.



**DS-OR-18091N2**

with Drawers (standard)

## Specification

DS-OR series (Height : 1800 mm)					
Depth : 550 mm / 21.7inch	Cat. No.	AAAF1090	AAAF1091	AAAF1092	AAAF1093
	Model	DS-OR-18047N1	DS-OR-18055N1	DS-OR-18091N2	DS-OR-18108N2
Width (mm / inch)		472 / 18.6	556 / 21.9	915 / 36.0	1083 / 42.6
No. of Drawer (standard/max.)		11 / 11	11 / 11	22 / 22	22 / 22

## Accessories

### Drawer set

Cat. No.	Suitable for	Description
AAAF1507	DS-OR-	18047N1, 18091N2
AAAF1508		18055N1, 18108N2
AAAF1509		18047N1, 18091N2
AAAF1510		18055N1, 18108N2
		Epoxy Painted Steel Drawer with Tray
		Stainless Steel Drawer with Tray

### Tray partitions

Cat. No.	Description	Suitable for
00CBN0000018	370 mm / 14.6 inch (Wide)	DS-OR-
00CBN0000019	450 mm / 17.7 inch (Wide)	
		18047N1, 18091N2
		18055N1, 18108N2



# Multipurpose Cabinet

## Window type

Door with glass window on the front for easy checking of stored materials



### DS-OW-1810N2

with Drawer Set, Partition, Name Plate (standard)



### DS-TW-09108N2

with Drawer Set, Partition, Name Plate (standard)



#### Key lock device

Key lock is provided as standard to block unauthorized access.



#### Name plates provided

Name plates are provided for each shelf to allow for easy identification of stored material information.



#### Floor anchor

Anchor (option) for fixing the cabinet to the floor to help prevent accidents.



#### Tray and partition provided

Adjustable partition provided according to type and size of stored material.



#### Extraction Module (option)

Filters harmful gas inside the cabinet with a carbon filter without connecting a separate duct. (see page 199 for details)



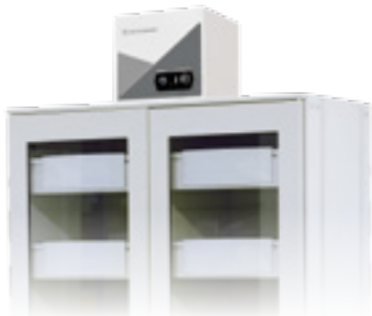
#### Drawer-type shelf

Convenient storage possible even in the back of the shelf.



## Convenient and Durable Structure

- Front glass window door**  
 Front glass window door for easy checking of stored materials inside.  
 Easy information management for stored materials due to provision of name plates for each drawer.
- Solid steel structure**  
 Stable structure with steel frame prevents structural deformation, and it has excellent external chemical resistance due to epoxy coating.
- Door Sealing & Fixing**  
 Safe and secure sealing and fixing of glass window door with door packing and by applying magnet fixtures on the upper and lower parts.
- Exhaust system connection**  
 Fume extraction module (option) for connection to the exhaust system of the installation site.



Fume Extraction Module (option)

## Improved User Convenience

- Solid shelf structure**  
 Each shelf can accommodate up to 40kg, and the polypropylene material provides excellent chemical resistance.
- Convenient drawer-type shelf**  
 Drawer-type shelf structure with sliding rails for convenient handling of stored materials located inside.
- Height-adjustable shelf structure (option)**  
 It is possible to add holes to the appropriate height so that the height of the shelf can be adjusted.
- Shelf interior partitions provided**  
 There are adjustable partitions inside each shelf to make it more convenient to organize stored materials.  
 (4 partitions provided for each shelf as standard)

## Specification

### Stand Type

Model	DS-OW-18047N1	DS-OW-18055N1	DS-OW-18091N2	DS-OW-18108N2	DS-TW-09091N2	DS-TW-09108N2
Exterior width (mm / inch)	472 / 18.6	556 / 21.9	915 / 36.0	1083 / 42.6	915 / 36.0	1083 / 42.6
Exterior depth (mm / inch)	550 / 21.7	550 / 21.7	550 / 21.7	550 / 21.7	550 / 21.7	550 / 21.7
Exterior height (mm / inch)	1800 / 70.9	1800 / 70.9	1800 / 70.9	1800 / 70.9	900 / 35.4	900 / 35.4
Quantity of drawer (standard/max.)	6 / 11	6 / 11	12 / 22	12 / 22	6 / 10	6 / 10
Max. load per shelf (kg / lbs)	30 / 66.1	30 / 66.1	30 / 66.1	30 / 66.1	30 / 66.1	30 / 66.1
Quantity of name plate	6	6	12	12	6	6
Cat. No.	AAAF1050	AAAF1051	AAAF1052	AAAF1053	AAAF1056	AAAF1057

# Multipurpose Cabinet

## Drawer type

Convenient drawer-type structure with excellent chemical resistance



**Tabletop Type**  
**DS-TT-09056-N2**

with Tray, Partition, Name Plate (standard)

### DS-C Series

with Tray, Partition, Name Plate (standard)



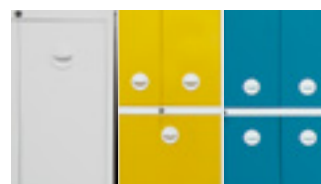
#### Key lock device

Key lock is provided as standard to block unauthorized access.



#### Name plates provided

Name plates are provided for each shelf to allow for easy identification of stored material information.



#### Choice of 3 colors

Light gray, yellow, and persian blue for classification and interior aesthetics.



#### Floor anchor

Anchor (option) for fixing the cabinet to the floor to help prevent accidents.



#### Solid combined structure

When multiple storage cabinets are attached, they can be joined to the side connection holes for sturdier and well balanced placement.



#### Built-in tray and partitions

Makes separate storage easy.



## Convenient and Durable Structure

- > **Solid steel structure**  
Stable structure with steel frame prevents structural deformation, and it has excellent external chemical resistance due to epoxy coating.
- > **Safe upper shelf**  
The upper shelves do not all open at the same time, so it doesn't fall over even with large loads.
- > **Hanging device for each shelf**  
When a shelf is closed, it is automatically fixed by a latching device.
- > **Interconnected structure**  
Interconnected structure for placement of multiple reagent cabinets, resulting in a neater appearance and sturdiness.
- > **Exhaust system connection**  
Fume extraction module (option) for connection to the exhaust system of the installation site.

## Improved User Convenience

- > **Storage without sunlight exposure**  
Designed for long-term storage of reagents that should not be exposed to sunlight.
- > **Solid shelf structure**  
Each shelf can accommodate up to 60kg, and the polypropylene material provides excellent chemical resistance.
- > **Convenient drawer-type shelf**  
Drawer-type shelf structure with sliding rails for convenient handling of stored materials located inside.
- > **Height-adjustable shelf structure**  
Designed to allow for adjustment of the height of the shelf, making it possible to store materials of various sizes simultaneously.
- > **Shelf interior partitions provided**  
There are adjustable partitions inside each shelf to make it more convenient to organize stored materials.



### Anti-fall device

When moving the upper drawers, it is the drawer located next to the drawer being moved is structurally blocked to prevent it from being moved at the same time, preventing heavy weight from moving forward.



### Extraction Module (option)

Filters harmful gas inside the cabinet with a carbon filter without connecting a separate duct. (see page 199 for details)



### Height-adjustable shelf structure






Tray can be adjusted to the desired height.







Fume Extraction Module (option)

## Specification




### Stand Type (DS-S Series)

Model		DS-S-18047N4	DS-S-18056N4	DS-S-18064N4	DS-S-18068N6	DS-S-18093N6
Exterior width (mm / inch)		476 / 18.7	560 / 22.0	644 / 26.1	686 / 27.0	938 / 36.9
Exterior depth (mm / inch)		550 / 21.7	550 / 21.7	550 / 21.7	550 / 21.7	550 / 21.7
Exterior height (mm / inch)		1800 / 70.9	1800 / 70.9	1800 / 70.9	1800 / 70.9	1800 / 70.9
Weight (kg / lbs)		107 / 235.9	119 / 262.4	126 / 277.8	148 / 326.3	178 / 392.4
Quantity of drawer (standard/max.)	Upper	3 / 4	3 / 4	3 / 4	3 / 4	3 / 4
	Lower	4 / 6	4 / 6	4 / 6	4 / 6	4 / 6
Max. load per shelf (kg / lbs)	Upper	30 / 66.1	30 / 66.1	30 / 66.1	30 / 66.1	30
	Lower	60 / 132.3	60 / 132.3	60 / 132.3	60 / 132.3	60 / 132.3
Quantity of name plate		4	4	4	6	6
Cat. No.		AAAF1005	AAAF1006	AAAF1007	AAAF1008	AAAF1009
						




### Combi Type (DS-C Series)

Model		DS-C-18047N4	DS-C-18047N5	DS-C-18056N4	DS-C-18056N5
Exterior width (mm / inch)		476 / 18.7	476 / 18.7	560 / 22.0	560 / 22.0
Exterior depth (mm / inch)		550 / 21.7	550 / 21.7	550 / 21.7	550 / 21.7
Exterior height (mm / inch)		1800 / 70.9	1800 / 70.9	1800 / 70.9	1800 / 70.9
Weight (kg / lbs)		100 / 220.5	108 / 238.1	110 / 242.5	120 / 264.6
Quantity of drawer (standard/max.)	Upper	3 / 4	3 / 4	3 / 4	3 / 4
	Lower	1 / 1	1 / 1	1 / 1	1 / 1
Max. load per shelf (kg / lbs)		30 / 66.1	30 / 66.1	30 / 66.1	30 / 66.1
Quantity of name plate		4	5	4	5
Cat. No.		AAAF1034	AAAF1035	AAAF1036	AAAF1037
					

### Tabletop Type (DS-TT Series)

Model	DS-TT-09047N2	DS-TT-09056N2	DS-TT-09064N2
Exterior width (mm / inch)	476 / 18.7	560 / 22.0	644 / 26.1
Exterior depth (mm / inch)	550 / 21.7	550 / 21.7	550 / 21.7
Exterior height (mm / inch)	900 / 35.4	900 / 35.4	900 / 35.4
Weight (kg / lbs)	54 / 119.0	59 / 130.1	64 / 141.0
Quantity of drawer (standard/max.)	3 / 4	3 / 4	3 / 4
Max. load per shelf (kg / lbs)	30 / 66.1	30 / 66.1	30 / 66.1
Quantity of name plate	2	2	2
Cat. No.	AAAF1023	AAAF1024	AAAF1025
			

### Under Table Type (DS-UT Series)

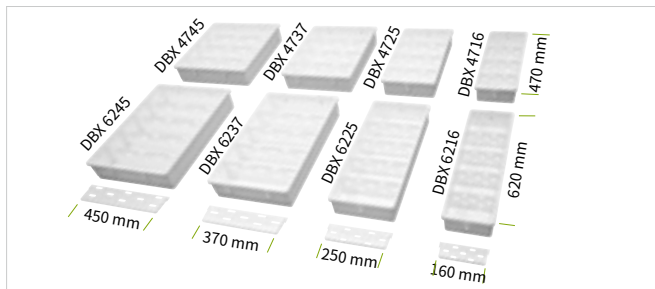
Model	DS-UT-06047N2	DS-UT-06056N2	DS-UT-06064N2
Exterior width (mm / inch)	476 / 18.7	560 / 22.0	644 / 26.1
Exterior depth (mm / inch)	550 / 21.7	550 / 21.7	550 / 21.7
Exterior height (mm / inch)	650 / 25.6	650 / 25.6	650 / 25.6
Weight (kg / lbs)	50 / 110.2	55 / 121.3	60 / 132.3
Quantity of drawer (standard/max.)	3 / 3	3 / 3	3 / 3
Max. load per shelf (kg / lbs)	30 / 66.1	30 / 66.1	30 / 66.1
Quantity of name plate	2	2	2
Cat. No.	AAAF1013	AAAF1014	AAAF1015
			

# Accessories

## Accessories for DS-OW / DS-TW / DS-S / DS-C / DS-TT / DS-UT

### Tray & Partitions

- Polypropylene (PP) material with excellent chemical resistance.
- Tray structure prevents secondary contamination due to storage leaks.



Description	Tray Cat. No.	Tray dividers Cat. No.	Dimension (mm / inch)		
			W	D	H
DBX 4716	00CBN000008	00CBN000016	160 / 6.3	470 / 18.5	80 / 3.1
DBX 4725	00CBN000009	00CBN000017	250 / 9.8	470 / 18.5	90 / 3.5
DBX 4737	00CBN000010	00CBN000018	370 / 14.6	470 / 18.5	100 / 3.9
DBX 4745	00CBN000011	00CBN000019	450 / 17.7	470 / 18.5	110 / 4.3
DBX 6216	00CBN000014	00CBN000016	160 / 6.3	620 / 24.4	80 / 3.1
DBX 6225	00CBN000015	00CBN000017	250 / 9.8	620 / 24.4	90 / 3.5
DBX 6237	00CBN000012	00CBN000018	370 / 14.6	620 / 24.4	100 / 3.9
DBX 6245	00CBN000013	00CBN000019	450 / 17.7	620 / 24.4	110 / 4.3

### Name Plate

- It's easy to check the contents stored on each shelf of the cabinet.
- Convenient adjustment of mounting position with magnets.



Description	Cat. No.	Dimension (mm / inch)	
		W	H
Magnet (A1)	AAAF1521	150 / 5.9	200 / 7.9
Magnet (A2)	AAAF1522	120 / 4.7	165 / 6.5
Insertion (B1)	AAAF1523	320 / 12.6	115 / 4.5

### Extraction Module

Cat. No.	Description	Model
AAAF1536	Extraction Module (Stand type only)	EM-33

### Anchor

Cat. No.	Description
00CBN000036	Anchor

## Accessories for DS-OW / DS-TW

Model	Drawer set (Epoxy painted steel)	Drawer set (Stainless steel)	Tray dividers	Name plate
DS-OW-18047N1	AAAF1501	AAAF1504	00CBN000018	AAAF1523
DS-OW-18055N1	AAAF1502	AAAF1505	00CBN000019	AAAF1523
DS-OW-18091N2	AAAF1501	AAAF1504	00CBN000018	AAAF1523
DS-OW-18108N2	AAAF1502	AAAF1505	00CBN000019	AAAF1523
DS-TW-09091N2	AAAF1501	AAAF1504	00CBN000018	AAAF1523
DS-TW-09108N2	AAAF1502	AAAF1505	00CBN000019	AAAF1523

※ The above drawer set includes a PP-based tray.

## Accessories for DS-S / DS-C / DS-TT / DS-UT

Model	Tray	Tray dividers	Name plate
DS-S-18047N4	00CBN000008	00CBN000016	AAAF1521
DS-S-18056N4	00CBN000008	00CBN000016	AAAF1521
	00CBN000009	00CBN000017	
DS-S-18064N4	00CBN000009	00CBN000017	AAAF1521
DS-S-18068N6	00CBN000008	00CBN000016	AAAF1521
DS-S-18093N6	00CBN000009	00CBN000017	AAAF1521
DS-C-18047N4	00CBN000008	00CBN000016	AAAF1521
	00CBN000010	00CBN000018	
DS-C-18047N5	00CBN000008	00CBN000016	AAAF1521
	00CBN000010	00CBN000018	
DS-C-18056N4	00CBN000008	00CBN000016	AAAF1521
	00CBN000009	00CBN000017	
	00CBN000011	00CBN000019	
DS-C-18056N5	00CBN000008	00CBN000016	AAAF1521
	00CBN000009	00CBN000017	
	00CBN000011	00CBN000019	

Model	Tray	Tray dividers	Name plate
DS-TT-09047N2	00CBN000008	00CBN000016	AAAF1521
DS-TT-09056N2	00CBN000008	00CBN000016	AAAF1521
	00CBN000009	00CBN000017	
DS-TT-09064N2	00CBN000009	00CBN000017	AAAF1521
DS-UT-06047N2	00CBN000008	00CBN000016	AAAF1521
DS-UT-06056N2	00CBN000008	00CBN000016	AAAF1521
	00CBN000009	00CBN000017	
DS-UT-06064N2	00CBN000009	00CBN000017	AAAF1521