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DAIHAN Catalog QR

# 2024 DAIHAN Scientific “SAFETY” New Filtering Innovation

- ▶ *Biological Safety Cabinet (BSC)* ..... P. 2~3
- ▶ *Clean Bench / PCR Workstation* ..... P. 4
- ▶ *Filtered Reagent Storage Cabinet, PP* ..... P. 5
- ▶ *Filtering Fume Hood-Ductless* ..... P. 6~7
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Since 1980



DAIHAN  
SCIENTIFIC  
GROUP

Your Neighborhood Friend  
SOUTH KOREA

Sales & Service  
- by Distributors

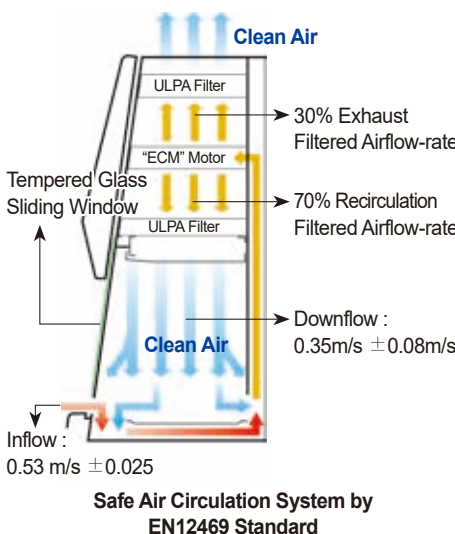
DAIHAN® Class II Type A2 Biological Safety Cabinet "BSC", with 2 × ULPA-U15 Filter & UV Lamp, w1200 · 1500 · 1800mm BioSafety Level 1~3, "ECM" DC Motor, Real-time Air-flow & Air-Speed Monitoring System, 7 inch Touch TFT LCD Controller Portable Benchtop Form, Multi-Safety Function, Compliance with EN12469, 생물안전작업대 "BSC", 안전등급 BSL 1~3, 이동 탁상용, 안전 저소음 설계



Class II Type A2 Biological Safety Cabinet(BSC), "BSC-15" Model

2-Year Warranty

**Re. Approx Size of Particulate Matter**  
 - PM1.0 극초미세먼지 ;  $\leq 1.0\mu\text{m}$  Particles  
 - Fume(Acids) ;  $\leq 1.0\mu\text{m}$  (이하) Particles  
 - Bacteria ;  $0.5\mu\text{m} \sim 0.5\mu\text{m}$  Particles  
 - Virus ;  $0.018 \sim 0.4\mu\text{m}$  Particles  
 • VOCs ; Gas (기체)



- Supplied by DAIHAN Korea
- PL(Product Liability) Insurance
- with Certificate & Traceability : Controlled by Serial Number, Certificate, Delivery-information, and Traceable Data Base System
- Compliance with Biological Safety Cabinet European Standard EN12469 : Exhaust of 30% Filtered Airflow-rate & Recirculation of 70% Filtered Airflow-rate
- Class II Type A2 Protection for the Operator, Environment and Sample at BSL 1~3
- 2ea ULPA-U15(Ultra Low Particulate Air) Filter for Recirculation & Exhaust :
  - $\geq 0.12\mu\text{m}$  Particles Removal 99.9995% by High Quality Dense Glass Fiber
  - Recommended Replacement Cycle of ULPA-U15 Filter : Every 6 ~ 12 months
- ▶ Movable Benchtop. Ensuring High Performance Exhaust Filtering without Duct
- ▶ Electronically Commutated "ECM" DC Motor :
  - High Energy Efficient (70% Energy Efficiency Higher than General AC motor)
  - Low Noise Level (Less than 60dB) - Ensuring Stable Air-speed
- ▶ Intuitive User Interface of 7" Full Touch TFT LCD Controller :
  - Monitoring Function for Real-time Circulation Airflow & Airspeed
  - Maintenance of ULPA-U15 filter Operation Time - Error Status Recording Function.



- \* Adjustable Height UV Protection Tempered Glass Sliding Sash :
- Safety Height-zone Alarm Function(Alarm sound over 200mm height).
- \* Timeless Usage based on Built-in Comfortable Armrest
- \* Easy to Clean Working-table
- \* IP68 AC Inlet allows Desktop Equipment to be able to Positioned Inside

### Specifications & Ordering information

Spec.	Model	"BSC-12" w1200	"BSC-15" w1500	"BSC-18" w1800
Working Space		1250×450×h700mm 360Lit	1550×450×h700mm 450Lit	1850×450×h700mm 540Lit
Air Flow-type		Down Flow, Vertical Recirculation Air Flow-type (Recirculation 70%, Exhaust 30% by EN12469 Standard)		
Air Volume		460 m <sup>3</sup> /h	580 m <sup>3</sup> /h	700 m <sup>3</sup> /h
Air Velocity		Inflow : 0.53 m/s ± 0.025, Downflow : 0.35 m/s ± 0.08m/s		
Bactericidal UV Lamp		1×Powerful 254nm UV Decontamination, 30W		
Filter and the Replacement Cycle		* 2ea ULPA-U15(Ultra Low Penetration Air) Filter (1×for Exhaust & 1×for Recirculation), ≥ 0.12μm Particles Removal 99.9995% * Replacement Cycle of ULPA Filter : 6 ~ 12 months		
Motor		1.25kW Electronically Commutated "ECM" DC Motor		
Window		UV Protection Tempered Glass Sliding Window		
Controller		Full Touch Screen 7" TFT LCD		
Noise Level(dB)		≤ 60 dB		
Internal Lighting		2×15W LED Lamp(800Lux)		
Material		Internal : Stainless-steel(#304), External : Powder Coated Steel		
Utility Device		2×AC Outlet(220V, IP68), 1× Vacuum Cock(3/8" NPT)		
Dimension(mm)	Outer	1360×870×h1570	1560×870×h1570	1860×870×h1570
	Inner	1250×450×h700	1550×450×h700	1850×450×h700
Electric Reqts.		1 Phase, AC 120V, 60Hz or AC 230V, 50/60Hz		
Cat. No. (Without Stand)	230V	DH.BSC12	DH.BSC15	DH.BSC18
	120V	DH.BSC121	DH.BSC151	DH.BSC181
Price, Each. ₩				

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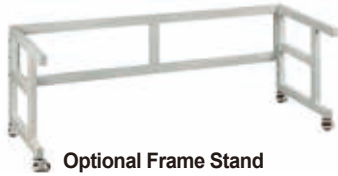
\* 운임 별도

Articles

Cat. No

Description

<Continued From...DAIHAN® Class II Type A2 Biological Safety Cabinet "BSC">



Optional Frame Stand



Spare ULPA Filter Kit(2×Filters) :  
1ea for Recirculation & 1ea for Exhaust

**Optional Frame Stand for Biological Safety Cabinet, Powder Coated Steel**

- DH.BSC12S Stand, Biological Safety Cabinet, For w1200 Model, 1360×870×h700
- DH.BSC15S , For w1500 Model, 1560×870×h700
- DH.BSC18S , For w1800 Model, 1860×870×h700

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Ea. Price, ₩

**Spare ULPA-U15 Filter Kit, ≥0.12µm Particles Removal 99.9995%**

- DH.BSC12F ULPA-U15 Filter Kit, Included 2×ULPA Filter for **w1200 Model**,  
1× For Recirculation : 1220×457×h65mm,  
1× For Exhaust : 657×455×h85mm
- DH.BSC15F ULPA-U15 Filter Kit, Included 2×ULPA Filter for **w1500 Model**,  
1× For Recirculation : 1520×457×h65mm,  
1× For Exhaust : 857×455×h85mm
- DH.BSC18F ULPA-U15 Filter Kit, Included 2×ULPA Filter for **w1800 Model**,  
1× For Recirculation : 1820×457×h65mm,  
1× For Exhaust : 1057×455×h85mm

Ea. Price, ₩



Inspection Certificate of Filters  
MADI (주)마디 CERTIFIED



- ※ Please get in touch with DAIHAN as Filter System Replacement requires Airflow Validation
- ※ Filter System Replacement Cycle depends on the Environment but 6-12 Month is Recommended

▶ **Caution ! Please Replace the Polluted Filters in Good Time ! 오염된 필터들을 적시에 교체하세요 !**

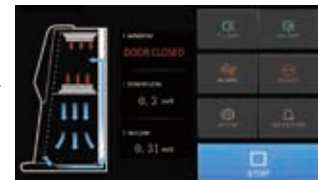
<User Convenience of "BSC">



Safety Height-Zone Alarm Function  
(Alarm sound over 200mm height).



Comfortable Armrest



**7" Full Touch TFT LCD Controller for User Convenience**

- Monitoring Function for Real-time Airflow & Airspeed
- Real-time Error Alarm
- Maintenance of ULPA filter Operation Time

**Installed Utility Device**



1× Vacuum Cock  
(3/8" NPT)



2× 220V AC Outlet  
(IP68)



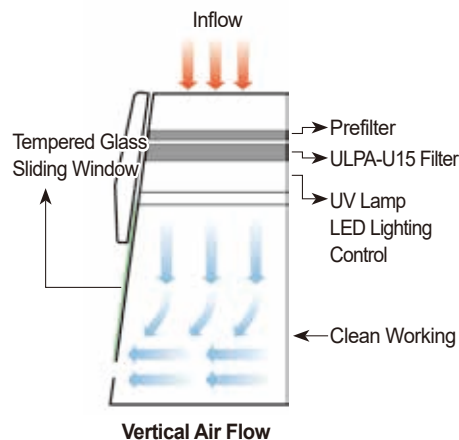
Pressure Gauge  
for Downflow  
Air Circulation

DAIHAN® Filtering Vertical Clean Bench / PCR Workstation “CBV”, Clean Class-10, ULPA-U15 & Pre-Filter, w1,200 · 1,500 · 1,800mm With Bactericidal UV Lamp, Touch-type Controller, 8 Steps Vertical Air Velocity(0.3~0.6m/s), 2×LED Lamp, Vacuum Cock, and 2×AC Outlet Portable Benchtop Form, Ideal for Sensitive Biological Applications, 크린벤치 / PCR 워크스테이션, 이동 탁상용, 수직 기류형, 8단계 풍속 조절



**Re. Approx Size of Particulate Matter**

- Fume(Acids) ;  $\leq 1.0\mu\text{m}$  (이하) Particles
- Bacteria ;  $0.5\mu\text{m} \sim 0.5\text{m/m}$  Particles
- Virus ;  $0.018 \sim 0.4\mu\text{m}$  Particles
- VOCs ; Gas (기체)



- Supplied by DAIHAN Korea
- PL(Product Liability) Insurance
- with Certificate & Traceability : Controlled by Serial Number, Certificate, Delivery-information, and Traceable Data Base System
- ULPA-U15(Ultra Low Particulate Air) Filter for Vertical Air Flow(Clean Class-10) :
  - $\geq 0.12\mu\text{m}$  Particles Removal 99.9995% by High Quality Dense Glass Fiber
  - Recommended Replacement Cycle of ULPA-U15 Filter : Every 6~12 months
- Polyester Pre-Filter( $\geq 3\mu\text{m}$  Particle) for Main Filter Protection From Dust
- Filter Replacement Cycle Alarm Function : 필터 교체 Alarm기능
- ▶ Movable Benchtop. Ensuring High Performance Exhaust Filtering without Duct
- ▶ Powerful AC Motor : Ensuring Stable Air-speed, Low Noise Level(Less than 65dB)
- \* Utility Devices for Various Applications : 2×AC Outlet(220V, IP68), 1×Vacuum Cock(3/8" NPT)
- \* Adjustable Height UV Protection Tempered Glass Sliding Sash
- \* Optimized Air Flow System for Uniform Air Flow & Velocity
- \* Easy to Clean Working-table
- \* IP68 AC Inlet allows Desktop Equipment to be able to Positioned Inside

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Spec.	Model	"CBV-12" w1200	"CBV-15" w1500	"CBV-18" w1800
Air Flow-type		Vertical Air Flow-type		
Working Space		1250×450×h700mm 360Lit	1550×450×h700mm 450Lit	1850×450×h700mm 540Lit
Air Volume		1,350m <sup>3</sup> /h	1,700m <sup>3</sup> /h	2,020m <sup>3</sup> /h
Air Flow Velocity		8 Steps Vertical Air Flow Velocity(0.3~0.6 m/s)		
Bactericidal UV Lamp		1×Powerful 254nm UV Decontamination, 30W		
Filter and the Replacement Cycle		* 1ea ULPA-U15(Ultra Low Penetration Air) Filter (Clean Class-10) $\geq 0.12\mu\text{m}$ Particles Removal 99.9995% * 1ea Polyester Pre-Filter( $\geq 3\mu\text{m}$ Particles) * Replacement Cycle of ULPA & Pre-Filter : 6~12 months		
Motor		150W AC Motor		
Display / Controller		Back Light LCD / Microprocessor Digital Controller with Touch UI		
Internal Lighting		2×15W LED Lamp(800Lux)		
Noise Level		$\leq 65\text{dB}$		
Window		UV Protection Tempered Glass Sliding Window		
Utility Device		2×AC Outlet(220V, IP68), 1×Vacuum Cock(3/8" NPT)		
Material		Internal : Stainless-steel(# 304), External : Powder Coated steel		
Dimension(mm)	Outer	1360×870×h1370	1560×870×h1370	1860×870×h1370
Without Stand	Inner	1250×450×h700	1550×450×h700	1850×450×h700
Electric Reqts.		1 Phase, AC 120V, 60Hz or AC 230V, 50/60Hz		
Cat. No. (Without Stand)	230V	DH.CBV12	DH.CBV15	DH.CBV18
	120V	DH.CBV121	DH.CBV151	DH.CBV181
Price, Each. ₩				

**Optional Frame Stand for Clean Bench, Powder Coated Steel**

※ 운임 별도

DH.BSC12S Stand, Clean Bench, For w1200 Model, 1360×870×h700  
 DH.BSC15S , For w1500 Model, 1560×870×h700  
 DH.BSC18S , For w1800 Model, 1860×870×h700

Ea. Price, ₩

**Spare ULPA-U15( $\geq 0.12\mu\text{m}$  Particles Removal 99.9995%) and  $3\mu\text{m}$  Polyester Pre-Filter ; Easy to Replace Filters**

DH.CBV12FP Prefilter for-w1200, 1220×457×h65mm  
 DH.CBV15FP -w1500, 1520×457×h65mm  
 DH.CBV18FP -w1800, 1820×457×h65mm  
 DH.CBV12FU ULPA-U15 Filter for-w1200, 1220×457×h65mm  
 DH.CBV15FU -w1500, 1520×457×h65mm  
 DH.CBV18FU -w1800, 1820×457×h65mm

Ea. Price, ₩

▶ **Caution ! Please Replace the Polluted Filters in Good Time !**  
 오염된 필터들을 적시에 교체하세요 !



DAIHAN® Premium Filtering Utility-Fume Hood "FHF", For Acids · VOCs · Dust · Smell & Bacteria, w900 · 1200 · 1500mm Assembling Body & Filters, Ductless, 5-Filters of 3µm Pre · 0.3µm HEPA · 2 × Coated Active Carbon · Active Carbon, 3-Side Clear Viewing With 11° Slanted Front Sash Door of 2 Step Opening, and 2 × ϕ 220mm Holes on Lower Door for Easy Hand Work, Compliance with ASHRAE 110-1995 필터식 복합 흡후드 / 조립식 Portable 만능 흡후드-산 · 암모니아 · 휘발성 유기화합물(VOCs) · 포름알데히드 · 미세먼지 · 약취 · 세균 등을 정화, 무덕트 이동 탁상형



**조립식 Portable 필터형 FUME HOOD 와 별매품인(Optional) Steel Frame Stand 구성!**

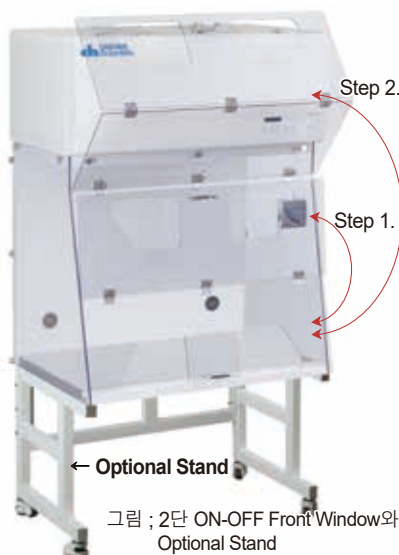
- Supplied by DAIHAN Korea    ■ PL(Product Liability) Insurance
- Compliance with Laboratory Fume Hood Standard ASHRAE 110-1995
- with Certificate & Traceability : Controlled by Serial Number, Certificate, Delivery-information, and Traceable Data Base System
- Safe and Easy to move Workspace for Harmful Gas without Duct Facility
- ▶ Movable Benchtop. Ensuring High Performance Exhaust Filtering without Duct
- \* 8 Levels Air Velocity for Various Test Application with Powerful BLDC Fan Motor
- \* Operation Time Monitoring Function For Filter Replacement.
- ▶ 5 × Framed Filters - Interchangeable System ; 2-Type of I. Standard Hood Unit with 3µm Prefilter(Polyester) Only, and II. Complete Hood-Attached 5 Filters All.
- ▶ Filter Replacement Cycle Alarm Function :
  - BLDC 모터 사용 시간을 카운트하여 필터 교체 알람(6개월) - 필터교체 주기는 약 6~12개월로
  - Fume Hood의 전면부 상부 패널을 열어 직접 손쉽게 필터 교체 가능함. - Next Page 참조.

**Ductless-Filtering - Benchtop ; 조립식 흡후드**

- 좌 · 우 · 전면 투명 내약품 PVC Panel.
- 11° 경사의 전면 2단 투명 개 · 폐 Window
- 하부문에 2개의 작업 Hole(ϕ220mm)이 있어 편안하고 안전한 실험

**Re. Approx Size of Particulate Matter**

- PM2.5 초미세먼지 ; 1.0 ~ 2.5µm Particles
- PM1.0 극초미세먼지 ; ≤ 1.0µm Particles
- Fume(Acids) ; ≤ 1.0µm (이하) Particles
- Bacteria ; 0.5µm ~ 0.5µm Particles
- Virus ; 0.018 ~ 0.4µm Particles
- VOCs ; Gas (기체)



**Standard Specifications**

※ 운임 별도 <L1>

Spec.	Model	"FHF-09" w900	"FHF-12" w1200	"FHF-15" w1500
Working Space w × d × h (mm), Lit.		884 × 580 × h800mm, 410Lit	1184 × 580 × h800mm, 549Lit	1484 × 580 × h800mm, 688Lit
Air Velocity(m/s)		0.4m/s ~ 1m/s, 8 Levels		
Motor		70W, BLDC Motor		
5 × Framed Filters		- (1) 3µm Prefilter(Polyester) Included ; Protects the Main Filters From Dust. - Optional 4 × Filters of (2) 0.3µm HEPA-H14, (3) Acids, (4) Ammonia+Formaldehyde, and (5) Organics(VOCs)+Formaldehyde.		
Material	Fume Hood Head	Powder-coated Steel		
	3-Side Viewing	Chemical Resistant Clear PVC(Polyvinyl Chloride) - 8mm Thick.		
	Working Plate	Stainless-steel #304		
Clear PVC Front Window		- 11° Slanted Sash Door of 2-Steps Opening(Clear PVC)-Optimal Visibility.		
Working Holes, ϕ mm		- 2 × ϕ 220mm Holes on Lower Door for Easy Hand Work.		
Noise Level(dB)		≤ 60dB		
Controller		Digital PID Controller with Touch-button		
Internal Lighting		1ea 17W LED Lamp(600Lux)	1ea 29W LED Lamp(600Lux)	
Utility Device		Air Velocity Meter		
Utility Device Hole		2 × ϕ 50mm ON-OFF Hole(PC) : 기타장비의 코드선 등의 In-Out 용		
Dimension(mm)	Outer	900 × 610 × h1180	1200 × 610 × h1180	1500 × 610 × h1180
	Without Stand Inner	884 × 580 × h800	1184 × 580 × h800	1484 × 580 × h800
Electric Reqts.		1 Phase, AC 230V, 50/60Hz		

▶ Optional Frame Stand for Hoods, Powder Coated Steel.

	Ea. Price, ₩
DH.FHF09S Stand, Fume Hood, For w900 Model , 900 × 610 × h730mm	518,000
DH.FHF12S , For w1200 Model, 1200 × 610 × h730mm	563,000
DH.FHF15S , For w1500 Model, 1500 × 610 × h730mm	630,000

**I. Standard Hood Unit, Attached Pre-Filter Only. ECONOMICAL OPERATION**

경제적 운영 ; 실험 여건상 필요한 필터만을 구입 사용, Stand 별도

	Ea. Price, ₩
DH.FHF09 Fume Hood Unit, with Prefilter, "FHF-09", w900 Model.	4,224,000
DH.FHF12 , "FHF-12", w1200 Model.	4,505,000
DH.FHF15 , "FHF-15", w1500 Model.	4,832,000

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<Continued From...DAIHAN® Premium Filtering Multi-Fume Hood "FHF" >

## Assembling Body & Filters 조립형 본체와 교체형 필터

### ► Filters & Air Flow

Max. 5 Framed Filters  
Interchangeable

- (5) VOCs / CH<sub>2</sub>O Filter
- (4) NH<sub>3</sub> / CH<sub>2</sub>O Filter
- (3) Acids Filter
- (2) HEPA-H14 Filter
- (1) Polyester Pre-filter



2-Steps Front Window  
; ON-OFF Clear PVC

Fume/Gas

Outside Air  
Inflow



Shape of Framed Filters

## II. Complete Hood, Attached 5 Filters All. The Best SAFETY WORKSTATION

가장 안전 후드 ; 1대의 Hood로 모든 유해물질의 Vapors · 먼지 · 세균 등을 정화, Stand 별도

5 Framed Filters :

- (1) 3 $\mu$ m Pre-Filter(Polyester) ; Protects the Main Filters From Dust.
- (2) 0.3 $\mu$ m HEPA-H14 Filter ; 0.3 $\mu$ m 이상의 모든 유해성 Particles를 99.995% 여과 정화.
- (3) Chemical Coated Active Carbon Filter ; Acids의 Fume/Vapors를 Adsorption & Filtering 흡착여과, 2mm Molecule
- (4) Chemical Coated Active Carbon Filter ; Ammonia & Formaldehyde의 Fume/Vapors를 Adsorption & Filtering 흡착여과, 2mm Molecule
- (5) Active Carbon Filter ; Organics(VOCs) & Formaldehyde Gas를 Adsorption & Filtering 흡착여과, 2mm Molecule

<L1>

DH.FHF09C Fume Hood Complete with 5-Filters, "FHF-09C", w900 Model.

DH.FHF12C "FHF-12C", w1200 Model.

DH.FHF15C "FHF-15C", w1500 Model.

Ea. Price, ₩
6,308,000
7,613,000
7,939,000

### ◆ Selection Guide of Framed Filters

Filter	Target	Material	Method	Description
(1) Polyester Pre-Filter	Particles	Synthetic Micro Fiber	Physical	≥3 $\mu$ m Particles을 필터링 하여 메인필터를 보호하여 필터수명을 증대시킴
(2) HEPA-H14 Filter	Particles	Ultra Micro Glass Fiber	Physical	≥0.3 $\mu$ m 모든입자(세균·먼지·흡 등)를 99.995% 여과 정화.
(3) Acids Filter	Fume Vapors	Chemical-coated Active Carbon	Chemical	특정한 화학물질이 코팅된 활성탄에 Fume/Vapor(Acids, NH <sub>3</sub> , S, etc.)나 먼지 등을 흡착 여과 정화, 2nm Molecule
(4) Ammonia NH <sub>3</sub> + Formaldehyde CH <sub>2</sub> O Filter	Fume Vapors	Chemical-coated Active Carbon	Chemical	특정한 화학물질이 코팅된 활성탄에 암모니아, 아민, 포름알데하이드 등의 Fume/Vapor를 흡착 여과 정화. 2nm Molecule
(5) VOCs + Formaldehyde CH <sub>2</sub> O Filter	Gas	Active Carbon	Chemical Physical	활성탄에 VOCs(휘발성 유기화합물의 총칭) CH <sub>2</sub> O Gas나 먼지 등을 흡착 여과 정화. 2nm Molecule

■ Size of Framed Filters ; \* Prefilters Thick-10mm, HEPA-H14 Filter Thick-80mm

For w1200 ; 760×410×T40mm For w900 ; 460×410×T40mm For w1500 ; 1060×410×T40mm

### Ordering Information for Framed Filters

Framed Filter Description	For w900 Models		For w1200 Models		For w1500 Models	
	Cat. No.	Price, ₩	Cat. No.	Price, ₩	Cat. No.	Price, ₩
(1) 3 $\mu$ m Prefilter ; Particles	DH.FHF09.F1	67,000	DH.FHF12.F1	78,000	DH.FHF15.F1	112,000
(2) HEPA-H14 Filter ; ≥0.3 Particles 99.995% 정화	DH.FHF09.F2	397,000	DH.FHF12.F2	442,000	DH.FHF15.F2	475,000
(3) Acids Filter ; Coated Active Carbon ; Fume / Vapors	DH.FHF09.F3	563,000	DH.FHF12.F3	889,000	DH.FHF15.F3	1,238,000
(4) Ammonia / CH <sub>2</sub> O Filter ; Coated Active Carbon, Fume / Gas	DH.FHF09.F4	563,000	DH.FHF12.F4	889,000	DH.FHF15.F4	1,238,000
(5) VOCs / CH <sub>2</sub> O Filter ; Active Carbon ; Gas	DH.FHF09.F5	563,000	DH.FHF12.F5	889,000	DH.FHF15.F5	1,238,000

### ► Easily Quick Replacement of Framed Filters 쉽고 신속한 필터교체 DIY

\* Hood의 전면 상부 패널을 열어 직접 손쉽게 필터를 교체 가능



후드의 전면 패널을 위로 연다

전면의 필터 보호 커버를 제거한다

교체할 필터를 순서대로 제거한 후 역순으로 새로운 필터를 끼워 넣는다

필터커버와 후드 전면 패널을 다시 닫는다.



Inspection Certificate of Filters  
MADI (주)마디 CERTIFIED

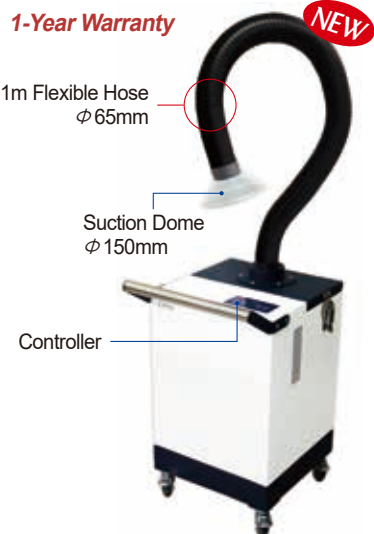
CAFU™ Filtering Fume Multi Gas Purifier of Acids · Dust · Organics(VOCs) · Smell · Bacteria, ≥0.3μm, 100 & 430 CMH(m³/h)  
 4-Layer Filters of 1μm Micro Bag · Ceramic Carbon · Active Carbon · HEPA-H13, 흡 복합정화기-산 · 초미세먼지 · 휘발성 유기화합물 · 악취 · 세균-필터식 이동형

**4-Layer Perfect Filter**



- ① - 1μm Micro Fiber Bag Filter ; For CAFU-A19  
 - 1μm Fiber Bag(5 Room) Filter ; For CAFU-A14
- ② Ceramic Honeycomb Carbon Filter
- ③ Impregnated Active Carbon Filter
- ④ 0.3μm Sterilization HEPA-H13 Filter

**Re. Approx Size of Particulate Matter**  
 - PM2.5 초미세먼지 ; 1.0 ~ 2.5μm Particles  
 - PM1.0 극초미세먼지 ; ≤1.0μm Particles  
 - Fume(Acids) ; ≤1.0μm (이하) Particles  
 - Bacteria ; 0.5μm ~ 0.5m/m Particles  
 - Virus ; 0.018 ~ 0.4μm Particles  
 • VOCs ; Gas (기체)



I. CAFU-A19, 기본형



II. CAFU-A14, 대용량

- Made in Korea ■ CE · KC · PSE · FCC · ISO-14001(환경) / 45001(안전) CERTIFIED.
- Suction of Polluted air / Toxic Gas Through Flexible Hose and Purifying by Filtering & Adsorption. 유해가스를 플렉시블 호스로 흡입 복합 필터로 정화(여과 / 흡착)하여 청정공기로 배출.
- KCL(한국건설 생활 환경 시험 연구원) 톨루엔, 자일렌, 아세트산, 폼알데하이드, 암모니아 등 95% 제거 테스트.
- 연구 / 실험실, VOCs 및 Acids 취급, 납땀 및 각종 도색 작업장 등에서 발생하는 유해가스를 효과적으로 정화하여 배출.
- 4-Layer Safety Filtering System / 4겹 필터링 구조 ; Purification and Sterilization of Contamination Source
  - ① - 1μm Micro Fiber Bag Filters ; 1μm 이상의 모든 유해물 제거 ; CAFU-A19용  
 - 1μm Fiber Bag(5 Room) Filters ; 1μm 이상의 모든 유해물 제거 ; CAFU-A14용
- 3-Layer Main Filter Kit ;
  - ② Ceramic Honeycomb Carbon Filter ; For the Vapors of VOCs / C<sub>2</sub>H<sub>2</sub> / CH<sub>2</sub>O / Acids / NH<sub>3</sub>, O<sub>3</sub>, and Bacteria. 휘발성 유기화합물 VOCs(벤젠 · 아세치렌, etc) 독성 가스, 산 / 암모니아 등의 흡, 악취, 세균 등을 흡착 / 여과 제거.
  - ③ Impregnated Activated Carbon Filter ; For the Fume / Vapor of Acids / Ammonia / H<sub>2</sub>S / VOCs / C<sub>2</sub>H<sub>2</sub> / CH<sub>2</sub>O, and Bacteria. 산 / 암모니아 / 황화수소 등의 흡, VOCs 휘발성 유기화합물의 독성가스, 악취, 세균 등을 흡착 / 여과 제거.
  - ④ Sterilizing HEPA-H13 Filter ; ≥0.3μm Particles(세균, 흡, 미세먼지, etc)를 99.95% 여과 제거, 극세 유리섬유.
- Filter 교체 Indicator 및 교체 주기 설정 ; CAFU-A19  
 - Filter 교체 차압계 Alarm Sensor 작동 ; CAFU-A14
- \* Configurable Filter Replacement Cycle \* Easy and Simple Filter Replacement  
 \* Power Consumption Reduced with a Brushless Direct Current(BLDC) Motor  
 \* Excellent Chemical · Heat · Weather · Wear Resistance



CAFU-A14 필터교체 알람

**Specifications**

Spec.	Model	I. "CAFU-A19", 기본형	II. "CAFU-A14", 대용량
Airflow Rate (Suction Capacity)		100 CMH(m³/h)	430 CMH(m³/h)
Air Speed		14m/s	15m/s
Air Suction Dome (PP)		φ 150mm	φ 250mm
Flexible Hose (PP)		φ 65 × 1,000mm	φ 110 × 1,000mm
Filters and the Replacement Cycle		- 1μm Micro Fiber Bag Filter : 분진이 1/3 찼을 때 - 3-Layer Filter Kit ; 3~6 Month	- 1μm Fiber Bag(5 Room) Filter : when Sensor Sounds - 3-Layer Filter Kit ; 3~6 Month
Noise Level		≤45db	≤50db
Controller		Touch PCB, Anti-Static	
Material		Steel Plate 1.2t with Epoxy Powder Coated	
Dimension (w×d×h) & Weight		340×340×h560mm, 18kg	470×425×h790mm, 30kg
Power Consumption		120W	290W
Electrical Reqts.		220V, 50/60Hz	

**I. 기본형 "CAFU-A19" 흡 정밀 복합정화기, 100 CMH(m³/h)**

※ 운임 별도

- 4-Layer Filter System  
 ① 1.0μm Micro Fiber Bag Filter ; Particles & Fume 여과 정화  
 ② & ③ Ceramic Carbon and Impregnated Carbon Filter ; Fume(Acids) & VOCs Gas 흡착 & 여과 정화 <B3>  
 ④ 0.3μm HEPA-H13 Filter ; Bacteria/Particles/Fume 살균 여과 정화

CC.5CAFU.A19 Fume Multi-Purifier, Portable	Ea. Price, ₩	1,294,390
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**II. 대용량 "CAFU-A14" 흡 복합정화기, 430 CMH(m³/h)**

- 4-Layer Filter System  
 ① 1.0μm Fiber Bag(5 Room) Filter ; Particles 여과 정화  
 ② & ③ Ceramic Carbon and Impregnated Carbon Filter ; Fume(Acids) & VOCs Gas 흡착 & 여과 정화  
 ④ 0.3μm HEPA-H13 Filter ; Bacteria/Particles/Fume 살균 여과 정화



※ 운임 별도 <B1>

CC.7CAFU.A14 Fume Multi-Purifier, Portable	Ea. Price, ₩	2,772,000
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**Spare Filters**

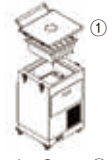
CC.5CAFU.FM	① 1μm Micro Fiber Bag Filter, for "CAFU-A19"	10,200
CC.7CAFU.FM	① 1.0μm Fiber Bag(5 Room) Filter, for "CAFU-A14"	32,040
CC.5CAFU.FK	②+③+④ 3-Layer Filter Kit ; Ceramic Carbon + Active Carbon + HEPA, for "CAFU-A19"	160,160
CC.7CAFU.FK	②+③+④ 3-Layer Filter Kit ; Ceramic Carbon + Active Carbon + HEPA, for "CAFU-A14"	240,240

▶ **Caution ! Please Replace the Polluted Filters in Good Time ! 오염된 필터들을 적시에 교체하세요 !**

**◆ How to Replace Filter, 필터 교체방법**



1. Before Replacing the Filter, Power Off with th POWER Button, and Fix the Wheel.



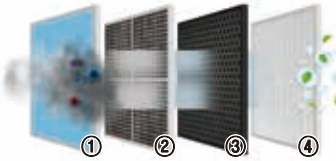
2. Open the Cover ① and Replace the Bag Filter.



3. After Opening Cover ② and Replace Main Filter, Close Cover ①, ②

CAFU™ Portable Filtering Toxic Gas Multi-Purifier of Organics(VOCs) · Acids · Smell & Dust, 70 · 170 · 500 CMH(m<sup>3</sup>/h)  
 4-Layer Filters of 0.3μm HEPA · Ceramic Carbon · Active Carbon & Antibacteria, 이동형 유해가스 복합정화기-휘발성 유기화합물 · 산 · 악취 · 미세먼지-필터식

**4-Layer Perfect Filter**



- ① 10μm Anti-bacterial Prefilter
- ② Ceramic Honeycomb Carbon Filter
- ③ Impregnated Active Carbon Filter
- ④ 0.3μm Sterilization HEPA-H13 Filter

**Re. Approx Size of Particulate Matter**

- PM2.5 초미세먼지 ; 1.0 ~ 2.5μm Particles
- PM1.0 극초미세먼지 ; ≤1.0μm Particles
- Fume(Acids) ; ≤1.0μm (이하) Particles
- Bacteria ; 0.5μm ~ 0.5m/m Particles
- Virus ; 0.018 ~ 0.4μm Particles
- VOCs ; Gas (기체)



(1) & (2)  
**I. 70 & 170 CMH, 기본형 & 중형**

- Made in Korea ■ CE · KC · PSE · FCC · ISO-14001(환경) / 45001(안전) CERTIFIED.
- Suction of Polluted air / Toxic Gas Through Flexible Hose and Purifying by Filtering & Adsorption. 유해가스를 플렉시블 호스로 흡입 복합 필터로 정화(여과 / 흡착)하여 청정공기로 배출.
- KCL(한국건설 생활 환경 시험 연구원) 톨루엔, 자일렌, 아세트산, 폼알데하이드, 암모니아 등 95% 제거 테스트.
- 연구 / 실험실, VOCs 및 Acids 취급, 납땀 및 각종 도색 작업장 등에서 발생하는 유해가스를 효과적으로 정화하여 배출.
- 4-Layer Safety Filtering System / 4겹 필터링 구조 ; Purification and Sterilization of Contamination Source
  - ① Anti-bacterial Prefilter ; Protects the Main Filter Kit from ≥10μm Dust & Bacteria 메인필터 보호 수명연장 3-Layer Main Filter Kit ;
  - ② Ceramic Honeycomb Carbon Filter ; For the Vapors of VOCs / C<sub>2</sub>H<sub>2</sub> / CH<sub>2</sub>O / Acids / NH<sub>3</sub>, O<sub>2</sub>, and Bacteria. 휘발성 유기화합물 VOCs(벤젠·아세치렌, etc) 독성 가스, 산 / 암모니아 등의 흡, 악취, 세균 등을 흡착 / 여과 제거.
  - ③ Impregnated Activated Carbon Filter ; For the Fume / Vapor of Acids / Ammonia / H<sub>2</sub>S / VOCs / C<sub>2</sub>H<sub>2</sub> / CH<sub>2</sub>O, and Bacteria. 산 / 암모니아 / 황화수소 등의 흡, VOCs 휘발성 유기화합물의 독성가스, 악취, 세균 등을 흡착 / 여과 제거.
  - ④ Sterilizing HEPA-H13 Filter ; ≥0.3μm Particles(세균, 흡, 미세먼지, etc)를 99.95% 여과 제거, 극세 유리섬유.
- 필터수명/교체시기 Alarm Lamp. ■ Filter Replacement ; See the Previous Page!
- \* Configurable Filter Replacement Cycle \* Easy and Simple Filter Replacement
- \* Power Consumption Reduced with a Brushless Direct Current(BLDC) Motor
- \* Excellent Chemical · Heat · Weather · Wear Resistance



필터수명 교체 알람(점등)

**I. 70 & 170 CMH(m<sup>3</sup>/h) Models CAFU-A12 & -A02 ; 기본형 & 중형**

<B3>

Spec.	Model	(1) "CAFU-A12" (기본형)	(2) "CAFU-A02" (중형)
Airflow Rate (Suction Capacity)		70 CMH(m <sup>3</sup> /h)	170 CMH(m <sup>3</sup> /h)
Air Speed		12m/s	13m/s
Air Suction Dome(PP)		φ 150mm	φ 250mm
Flexible Hose(POM)		φ 50 × 1,000mm	φ 77 × 1,000mm
Filters and the Replacement Cycle		- Anti-bacterial Prefilter : 1 Month - 3-Layer Filter Kit ; 3~6 Month	- Anti-bacterial Prefilter : 200 hours - 3-Layer Filter Kit ; 3~6 Month
Noise Level		≤ 55db	≤ 50db
Controller		Touch PCB, Anti-Static	Push Botton Controller
Material		Steel Plate 1.0t with Epoxy Powder Coated	Steel Plate 1.2t with Epoxy Powder Coated
Dimension (w×d×h) & Weight		330×300×h550mm, 16kg	390×390×h705mm, 26kg
Power Consumption		60W	120W
Electrical Reqts.		220V, 60Hz	220V, 50/60Hz
Cat. No.		<b>CC.1CAFU.A12</b>	<b>CC.2CAFU.A02</b>
Price, Each. ₩		1,274,000	2,517,200

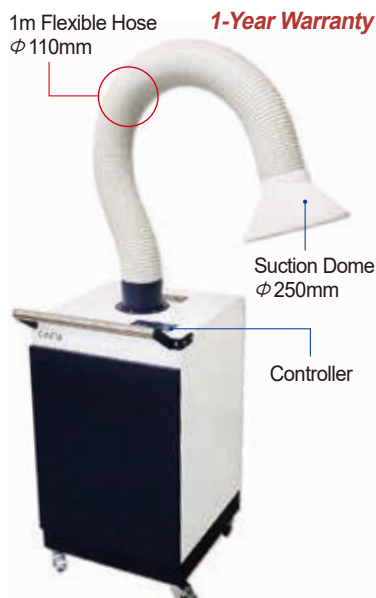
※ 운임 별도

**Spare Filters**

		Ea. Price, ₩
CC.1CAFU.FP	① Anti-Bacterial Prefilter, for "CAFU-A12"	7,560
CC.2CAFU.FP	, for "CAFU-A02"	9,080
CC.1CAFU.FK	②+③+④ 3-Layer Filter Kit ; Ceramic Carbon & Active Carbon & HEPA, for "CAFU-A12"	160,160
CC.2CAFU.FK	, for "CAFU-A02"	240,240

**II. 500 CMH(m<sup>3</sup>/h) Model CAFU-A13 ; 대용량/Heavy Duty**

<B2>



**II. 500 CMH, 대용량**

Spec.	Model	"CAFU-A13" (대용량)
Airflow Rate (Suction Capacity)		500 CMH(m <sup>3</sup> /h)
Air Speed		17m/s
Air Suction Dome(PP)		φ 250mm
Flexible Hose(PP)		φ 110 × 1,000mm
Filters and the Replacement Cycle		- Anti-bacterial Prefilter : 1 Month - 3-Layer Filter Kit : 3~6 Month
Noise Level		≤ 60db
Controller		Touch PCB, Anti-Static
Material		Steel Plate 1.2t with Epoxy Powder Coated
Dimension (w×d×h) & Weight		440×455×h770mm, 32kg
Power Consumption		290W
Electrical Reqts.		220V, 50/60Hz
Cat. No.		<b>CC.3CAFU.A13</b>
Price, Each. ₩		2,567,550

※ 운임 별도

**Spare Filters**

		Ea. Price, ₩
CC.3CAFU.FP	① Anti-Bacterial Prefilter for "CAFU-A13"	9,080
CC.3CAFU.FK	②+③+④ 3-Layer Filter Kit ; Ceramic Carbon & Active Carbon & HEPA, for "CAFU-A13"	240,240

▶ **Caution ! Please Replace the Polluted Filters in Good Time ! 오염된 필터들을 적시에 교체하세요 !**

CAFU™ Potable Filtering Dust Collector of Fine Dust · Fume · Bacteria “CAFU-21”, 150 CMH(m³/h)  
2-Layer Filters of 1µm Micro Bag & 0.3µm HEPA-H13, 이동형 집진기-작업장의 먼지·흄·세균등의 정화, 필터형식

2-Layer Perfect Filter



- ▶ 가공, 연마, 레이저 작업장 등에서 발생하는 먼지 및 흄, 박테리아를 효과적으로 정화하여 배출.
- Made in Korea ■ CE · KC · PSE · FCC · ISO-14001(환경) / 45001(안전) CERTIFIED.
- Suction of Polluted air / Through Flexible Hose and Purifying by Filtering.
- 작업장 먼지를 플렉시블 호스로 흡입 복합 필터로 정화(여과)하여 청정공기로 배출.
- KCL(한국건설 생활 환경 시험 연구원) 부유미생물 저감 시험 세균감소율 99.9% 테스트 통과.
- 2Layer Filtering System / 2겹 필터링 구조 ;
  - ① 1µm Fiber Bag(5 Room) Filters ; 1µm 이상의 모든 유해물 입자 95% 제거
  - ② Sterilizing HEPA-H13 Filter ; ≥0.3µm Particles(세균, 흄, 미세먼지, etc)를 99.95% 여과 제거, 극세 유리섬유.
- \* Filter 교체 차압계 알람 Sensor 작동 \* Filter Replacement ; See Page 8!
- \* Power Consumption Reduced with a Brushless Direct Current(BLDC) Motor

Re. Approx Size of Particulate Matter

- PM2.5 초미세먼지 ; 1.0 ~ 2.5µm Particles
- PM1.0 극초미세먼지 ; ≤1.0µm Particles
- Fume(Acids) ; ≤1.0µm (이하) Particles
- Bacteria ; 0.5µm ~ 0.5m/m Particles

1-Year Warranty



Specifications

<B2>

Spec.	Model	“CAFU-21”, 중형
Airflow Rate (Suction Capacity)		150 CMH(m³/h)
Air Speed		14m/s
Air Suction Dome(PP)		ϕ 150mm
Flexible Hose(POM)		ϕ 77 × 1,000mm
Filters and the Replacement Cycle		- 1µm Fiber Bag(5 Room) Filter ; ≥ 1µm 입자 95% 제거 : when Sensor Sounds(차압계 센서가 울릴때 교체!) - 0.3µm Sterilizing HEPA-H13 Filter ; 3~6 Month에 교체!
Noise Level		≤ 70db
Controller		POWER 버튼 : Operation and Stop (Toggle Switch) VOLUME 버튼 : Wind Speed Adjustment (Jog-controller)
Material		Plate 1.2t with Epoxy Powder Coated
Dimension (w × d × h) & Weight		390 × 390 × h600mm, 25kg
Power Consumption		140W
Electrical Reqts.		220V, 50/60Hz
Cat. No.		CC.6CAFU.21
Price, Each. ₩		1,834,560

Spare Filters

		Ea. Price, ₩
CC.6CAFU.FM	1.0µm Fiber Bag(5 Room) Filter, for “CAFU-21”	32,040
CC.6CAFU.FH	0.3µm Sterilization HEPA-H13 Filter, for “CAFU-21”	71,350

▶ Caution ! Please Replace the Polluted Filters in Good Time ! 오염된 필터들을 적시에 교체하세요 !

, Toxic Gas Purifier Box

Ductless Filtering Multi Gas/Fume Purifier Box for Chemicals Storage Cabinets “SCF90-F”, Additional Apparatus  
With 4 Filters of HEPA · Acids · VOCs · NH<sub>3</sub>/CH<sub>2</sub>O and 2 × ϕ 60mm Connecting Device Hole for In- & Out-let  
약품장용 유해가스 종합 정화기 박스, 부가 설치용, 무덕트 필터링형, 사용종인(사용할) 약품장에 부가적으로 설치함



Ductless Filtering Multi Gas/Fume Purifier Box

- 설치법 ; 사용 종인(사용할) 약품장 상부에 ϕ 60mm Hole이 있거나 혹은 뚫어서, 본 정화기와 PVC Flexible Hose ϕ 50으로 연결
- 안전 캐비닛 내에 유해가스 발생 시 덕트없이 필터 여과 정화, 청정 공기 실내에 공급.
- Powerful Forced Airflow and Low Noise by High Performance BLDC Motor
- Complete 4 Filter Set with (1) HEPA-H14, (2) Active Carbon, (3) & (4) 2 × Chemical Coated Active Carbon for ≥0.3µm All Particles Fume/Particles, from Acids, and VOCs Gas(휘발성 유기화합물). Details ; See the Selection Guide.
- Filter Replacement Cycle Alarm Function : 필터교체 주기는 약 6~12개월로 사용 조건에 따라 다를 수 있음 <L1>

		Ea. Price, ₩
DH.SCF90F	Filtering Gas Purifier Box, 480 × 303 × h440mm, Powder-Coated Steel, With Complete 4Filter Set (Details ; See the Selection Guide)	1,983,000

Spare Framed Filters For Vapors Purifier Box.

		Ea. Price, ₩
* The Size of Framed Filters ; 300 × 300 × h100mm		
DH.SCF90F2	HEPA-H14 Filter ; ≥ 0.3µm Particles(Bacteria · Fume · Dust, etc.) 99.995% 여과정화	145,000
DH.SCF90F3	Chemical Coated Active Carbon ; Fume(Acids) 흡착여과	295,000
DH.SCF90F4	; Ammonia & Formaldehyde 흡착여과	337,000
DH.SCF90F5	Active Carbon Filter ; Organics(VOCs) & Formaldehyde Gas 흡착여과	337,000

▶ Filter Selection Guide : See Page 13!



DAIHAN® Premium Acids/Corrosives Safety Cabinet "SCC", Compliance with EN14727 EU Standard, 124~836Lit.  
 Powder Coated Steel with Safety Melamine Coated Anti-Corrosive Plywood Interior, Spill-Proof PP Tray, Self Closing Door & Locking Type  
 Ideal for Storage of Acids & Corrosives and Flammables, 내부식성 캐비닛, 산 또는 부식성 유해용액 보관용, Resistant Fume/Gas.

NEW



A. Under Bench-Type, 2 Door Self Closing Door



B. Floor-Type, 2 Doors Self Closing Door



(1) Included Tray : Anti-Corrosive PP



(2) Included Shelf : Safety Melamine Coated Plywood

- Made in Korea ■ 부식성 화학물질을 안전 캐비닛에 보관하여 작업자와 작업실을 보호함.
- Complies with EN14727 EU Standard ■ PL(Product Liability) Insurance
- with Certificate & Traceability : Controlled by Serial Number, Certificate, Delivery-information, and Traceable Data Base System
- \* Highly Secure Door Locking System \* Prevention of Static Electricity by Ground
- \* Includes 4 Adjustable Level Feet \* Easy to move and install Using Forklift
- \* Prevent the Stored Material Leakage by Anti-Leakage Bottom Design
- ▶ Double Wall Safety Construction
  - 1) Safety Melamine Resin-Coated Anti-Corrosive Plywood Interior(Metal-Free) for Excellent Chemical Resistance.
  - 2) Durable 1.2mm Thickness Robust Sheet Steel Structure Prevents Deformation.
- ▶ Included h30mm Spill-Proof & Anti-Corrosive PP Tray Prevents Accidental Spill.
- \* Ductless Filtering Multi Vapors Purifier Box 설치 가능 - Option ! See below !

Specifications & Ordering information

<L1>

Spec.	Model	A. Under Bench-Type		B. Floor-Type		
		"SCC-100"	"SCC-200"	"SCC-400"	"SCC-500"	"SCC-800"
Effective Capacity		124 Lit	248 Lit	418 Lit	500 Lit	836 Lit
Dimension (w×d×h)	Outer (mm)	600×535×692	1200×535×692	659×535×1912	1200×535×1222	1200×535×1912
	Inner (mm)	547×440×518	547×440×518 ×2 Inner Chamber	547×440×1737	547×440×1047 ×2 Inner Chamber	547×440×1737 ×2 Inner Chamber
Material	Internal	Safety Melamine Coated Anti-Corrosive Plywood				
	External	Powder-Coated Steel				
Door ; Self Closing		1 ea	2 ea	1 ea	2 ea	2 ea
Shelf (Melamine-Coated Plywood)		1 ea	-	3 ea	2 ea	6 ea
Shelf Capacity		Max. Load : 50kg				
Tray (PP)		1 ea	2 ea	3 ea	2 ea	6 ea
Vent (Hole Diameter 60mm)		2 ea	3 ea	3 ea	5 ea	5 ea
Weight		90 kg	100 kg	150 kg	200 kg	250 kg
Cat. No.		DH.SCC100	DH.SCC200	DH.SCC400	DH.SCC500	DH.SCC800
Price, Each. ₩		1,348,000	1,844,000	2,365,000	2,794,000	2,984,000

※ 운임 별도

Spare Shelf & Tray For All "SCC" Cabinets

		Ea.	Price, ₩
DH.SCCT	(1) Tray, PP, 540×430×h30mm		63,000
DH.SCCS	(2) Shelf, Melamine(MF) Coated Plywood, 545×435×h15.4mm		32,000

Optional Portable Ductless Filtering Multi Fume/Gas Purifier Box "SCF90-F"  
 유해가스 종합 정화기 박스, 무덕트 필터링형, 별도로 쉽게 설치 DIY

- 설치법 ; 사용 중인(사용할) 약품장 상부에  $\phi 60\text{mm}$  Hole이 있거나 혹은 뚫어서, 본 정화기와 PVC Flexible Hose  $\phi 50$ 로 연결
- 안전 캐비닛 내에 유해가스 발생 시 덕트없이 필터 여과 정화, 청정 공기 실내에 공급.
- Powerful Forced Airflow and Low Noise by High Performance BLDC Motor
- Complete 4 Filter Set with (1) HEPA-H14, (2) Active Carbon, (3) & (4) 2× Chemical Coated Active Carbon for  $\geq 0.3\mu\text{m}$  All Particles Fume/Particles, from Acids, and VOCs Gas(휘발성 유기화합물). Details ; See the Selection Guide.
- 별도로 구매하여 사용자가 직접 Safety Cabinet에 쉽게 연결가능 (※ 자세한 설치 방법은 사용자 매뉴얼 참조)
- Filter Replacement Cycle Alarm Function : 필터교체 주기는 약 6~12개월로 사용 조건에 따라 다를 수 있음

		Ea.	Price, ₩
DH.SCF90F	Filtering Gas Purifier Box, 480×303×h440mm, Powder-Coated Steel, With Complete 4Filter Set (Details ; See the Selection Guide)		1,983,000

Spare Framed Filters For Optional Vapors Purifier Box.

\* The Size of Framed Filters ; 300×300×h100mm

		Ea.	Price, ₩
DH.SCF90F2	HEPA-H14 Filter ; $\geq 0.3\mu\text{m}$ Particles(Bacteria · Fume · Dust, etc.) 99.995% 여과정화		145,000
DH.SCF90F3	Chemical Coated Active Carbon ; Fume(Acids) 흡착여과		295,000
DH.SCF90F4	; Ammonia & Formaldehyde 흡착여과		337,000
DH.SCF90F5	Active Carbon Filter ; Organics(VOCs) & Formaldehyde Gas 흡착여과		337,000

▶ Filter Selection Guide : Page 13 참조 !



▶ Equipped Figure 약품장위에 설치한 그림 On the Chemicals Safety Cabinets

DAIHAN® Premium 90min-resistant Flammables Safety Cabinet "SCF90", Type 90 by EN14470-1 Standard, 103~720 Lit With 5-Layer Fireproof Structure(Powder-coated Steel · Ceramic-fiber Hybrid · Calcium Silicate Microporous · Gypsum · Melamine-coated Plywood) Automatic Self Closing Door, Patented Safe Drawer-type Shelf, 90분 내화 안전 캐비닛, 유해 인화성 물질(용액) 안전 보관용



I. Under Bench-Type, 2 Doors Self Closing Door



II. Floor-Type, 2 Doors Self Closing Door

- Made in Korea
- PL(Product Liability) Insurance
- with Certificate & Traceability : Controlled by Serial Number, Certificate, Delivery-information, and Traceable Data Base System.
- 인화성 화학물질을 안전 캐비닛에 보관하여 작업자를 보호하고 화재 및 폭발 위험을 줄임
- Type 90(90min.) Compliance with Safety Storage Cabinets for Flammable EU Standard EN14470-1 : The Internal Temperature of Safety Cabinet keep under 180K(Temperature Variation 180℃) for up to 90min.
- EN14470-1 시험 기준으로 한국가스안전공사의 인화성 위험물 보관함 성능평가 시험을 통한 안전성 확보.
- 5-Layer Safety Structure ; Complete Fire Resistance & Prevention of Deformation / Explosion. : 5겹의 완벽한 내화 및 항폭발력의 구조임.
  - ① Powder-Coated Steel · ② Hybrid Ceramic-Fiber · ③ Microporous Calcium Silicate · ④ Gypsum · and ⑤ Melamine-Coated Plywood
- 자동잠금 장치 고장시 수동잠금이 가능함  
If the Self Closing Device doesn't work, it can be also Used As a Manual Closing type.
- \* Highly Secure Door Locking System                      \* Prevention of Static Electricity by Ground
- \* 30mm Height Spill-proof Safe Shelf                      \* Installed 4 Adjustable Level Feet
- \* Prevents the Stored Material Leakage by Anti-leakage Bottom Design
- \* Easy to move and install Bottom Design Using Forklift
- ▶ 캐비닛의 도어와 환풍구가 열려 있는 상태에서 화재 발생 시 화염의 유입을 방지하기 위해서 캐비닛 주변온도가 +70℃ ±10℃가 되면 안전을 위해 자동으로 도어와 환풍구가 닫힘.  
Even if the Door and Vent are Opened, it will be Closed Automatically to Prevent the Inflow of Fire when the ambient Temp. Reaches +70℃ ±10℃
- ▶ 특허 등록된 안전 편리형 서랍식 선반 장착.  
Patented Safe Drawer-type Shelf(특허 : 제 10-2476972호) : Roller Sliding Drawer-Self.
- ※ Ductless Filtering Multi Vapors Purifier Box 설치 가능 - Option ! Next Page 참조 !

Specifications & Ordering information

<L1>

Spec.	Model	I. Under Bench-Type		II. Floor-Type		
		"SCF90-100"	"SCF90-200"	"SCF90-300"	"SCF90-400"	"SCF90-700"
Type of Fire Resistance	Type 90; 90min Fire Resistance by EN14470-1 EU Standard					
Effective Cabinet Capacity	103 Lit	221 Lit	337 Lit	405 Lit	720 Lit	
Dimension (w×d×h)	Outer (mm)	592×600×690	1102×600×690	592×600×1912	1102×600×1222	1102×600×1912
	Inner (mm)	455×470×485	970×470×485	455×470×1580	970×470×890	970×470×1580
Material	Internal	Melamine Resin-Coated Plywood				
	Insulation	Ceramic-Fiber Hybrid Board, Calcium Silicate Microporous Board, Gypsum Board				
	External	Powder-Coated Steel				
Door Types & Q'ty	Self Closing type Door					
		1 ea	2 ea	1 ea	2 ea	2 ea
Shelf, Patented Ease of Use	Roller Sliding Drawer-Type ; Powder Coated Steel					
Shelf Load & Q'ty	Max. Load 80kg					
		-	-	3 ea	2 ea	2 ea
Vent, φ 60mm Hole	2ea Vent Holes on the Backside		2ea Vent Holes on the Upperside			
Weight	140kg	220kg	250kg	330kg	430kg	
Cat. No.	DH.SCF9100	DH.SCF9200	DH.SCF9300	DH.SCF9400	DH.SCF9700	
Price, Each. ₩	2,288,000	3,120,000	4,809,000	5,342,000	5,733,000	

※ 운임 별도

※ 5-Layer Fireproof Structure For Complete 90min Fire Resistance & Explosion Resistance.



- (1) Powder-Coated Steel : 파우더 코팅된 스틸을 사용하여 내화특성과 열 변형을 최소화함.
- (2) Ceramic-Fiber Hybrid Board : 100% 무기질 성분으로 연소 시 연기와 악취가 발생하지 않고 내화 단열성능이 우수함.
- (3) Calcium Silicate Microporous Board : 섬유와 필러로 보강된 불연성 매트릭스 광물로서 습기에 강하며 폼알데하이드가 포함되어 있지 않다.
- (4) Gypsum Board : 불연특성의 석고에 무기질 섬유를 보강한 내화성 단열재.
- (5) Melamine-Coated Plywood : 단단하고 열에 강한 멜라민 수지로 코팅된 합판.

<Continued On Next Page>

<Continued From...DAIHAN® Premium 90min-resistant Flammables Safety Cabinet "SCF90">



Patented Safe Drawer-Type Shelves

Spare Safe Drawer Shelves, Roller Sliding Form.

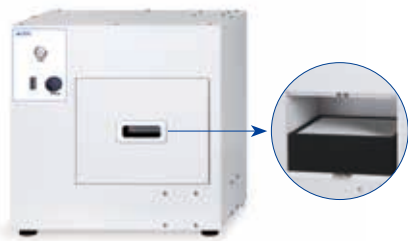
DH.SCF901D1 Shelf, Powder-Coated Steel, For 300 Model, 450×460×h30mm  
 DH.SCF902D2 , For 400 & 700 Model, 965×460×h30mm

<L1>	
Ea. Price, ₩	
	248,000
	330,000

※ 한국가스안전공사 인화성 위험물 보관함 성능평가 완료!!!



EN14470-1 Standard 기준으로 화재 발생 상황을 구현한 한국가스안전공사의 방화시험을 통해 90분 동안 Safety Cabinet 내부 온도 변화 폭이 180℃ 이하로 유지하는 성능평가를 완료함.



Optional Ductless Filtering Vapors Purifier Box

Optional Portable Ductless Filtering Multi Fume/Gas Purifier Box "SCF90-F"  
 유해가스 종합 정화기 박스, 무덕트 필터링형, 별도로 쉽게 설치 DIY

- 설치법 ; 사용 중인(사용할) 약품장 상부에  $\phi 60\text{mm}$  Hole이 있거나 혹은 뚫어서, 본 정화기와 PVC Flexible Hose  $\phi 50$ 으로 연결
- 안전 캐비닛 내에 유해가스 발생 시 덕트없이 필터 여과 정화, 청정 공기 실내에 공급.
- Powerful Forced Airflow and Low Noise by High Performance BLDC Motor
- Complete 4 Filter Set with (1) HEPA-H14, (2) Active Carbon, (3) & (4) 2× Chemical Coated Active Carbon for  $\geq 0.3\mu\text{m}$  All Particles Fume/Particles, from Acids, and VOCs Gas(휘발성 유기화합물). Details ; See the Selection Guide.
- 별도로 구매하여 사용자가 직접 Safety Cabinet에 쉽게 연결가능 (\*자세한 설치 방법은 사용자 매뉴얼 참조)
- Filter Replacement Cycle Alarm Function : 필터교체 주기는 약 6~12개월로 사용 조건에 따라 다를 수 있음

Ea. Price, ₩	
	1,983,000

DH.SCF90F Filtering Gas Purifier Box, 480×303×h440mm, Powder-Coated Steel, With Complete 4Filter Set (Details ; See the Selection Guide)



Spare & Optional Filter



Inspection Certificate of Filters  
 MADI CERTIFIED

Spare Framed Filters For Optional Vapors Purifier Box.

\* The Size of Framed Filters ; 300×300×h100mm

		Ea. Price, ₩	
DH.SCF90F2	HEPA-H14 Filter ; $\geq 0.3\mu\text{m}$ Particles(Bacteria · Fume · Dust, etc.) 99.995% 여과정화		145,000
DH.SCF90F3	Chemical Coated Active Carbon ; Fume(Acids) 흡착여과		295,000
DH.SCF90F4	Ammonia & Formaldehyde 흡착여과		337,000
DH.SCF90F5	Active Carbon Filter ; Organics(VOCs) & Formaldehyde Gas 흡착여과		337,000

※ Filter Selection Guide For Optional Vapors Purifier Box.

Filter	Target	Material	Method	Description
(1) HEPA-H14 Filter	Particle	UltraMicro Glass Fiber	Physical	$\geq 0.3\mu\text{m}$ 모든입자(세균·먼지·흄 등)를 99.995% 여과 정화.
(2) Acids Filter	Fume Vapor	Chemical-coated Active Carbon	Chemical	특정한 화학물질이 코팅된 활성탄에 Fume/Vapor(Acids, NH <sub>3</sub> , S, etc.)나 먼지 등을 흡착 여과 정화, 2nm Molecule
(3) Ammonia NH <sub>3</sub> Formaldehyde Filter	Fume Vapor	Chemical-coated Active Carbon	Chemical	특정한 화학물질이 코팅된 활성탄에 암모니아, 아민, 포름알데하이드 등의 Fume/Vapor를 흡착 여과 정화. 2nm Molecule
(4) VOCs Filter Formaldehyde	Gas	Active Carbon	Chemical Physical	활성탄에 VOCs(휘발성 유기화합물의 총칭) CH <sub>2</sub> O Gas나 먼지 등을 흡착 여과 정화. 2nm Molecule



▶ Equipped Figure 약품장위에 설치한 그림 On the Chemicals Safety Cabinets

A series of horizontal dashed lines for writing.



Horizontal dashed lines for writing.



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