

Clean Bench

Advanced type

Easy to use with dual controller and smart system

Structural Functional Features

- Dedicated controller and digital airflow sensor allow for operation at set wind speed even with fluctuations in sash height, minimizing power consumption and dramatically increasing HEPA filter life.
- Polyester fiber pre-filter extends the life of the HEPA filter.
- High-performance HEPA filter provides a clean environment. (99.99% removal of 0.3 μm particles, Class H14 according to EN 1822)
- Formation of reliable and uniform laminar flow through application of specialized diffusing muffler system.
- Easy to replace the filter on the front panel.
- Easy to move and fix the device.

Use Convenience Features

- Displays the temperature and humidity inside the workspace.
- Warning provided when the sash door is opened over the recommended height during operation.
- Easy and smooth sash door operation.
- Provides a quiet environment with minimal noise.
- Easy to operate with clear VFD and touch keys.
- UV lamp, fluorescent lamp, blower-dedicated button.
- Easy to check wind speed, temperature and humidity.

Outstanding Safety

- Smart door system protects the experimenter from UV light exposure.
- Toughened glass sash door blocks UV light.
- Protected from overcurrent.



BC-11H

with Stand, HEPA filter, gas cock (option)
Pre filter, UV Lamp, Fluorescent lamp Electrical socket (standard)

Completed internal cleanliness evaluation and microbiological testing compatibility test.

- Internal cleanliness rating (ISO 14644-1 standard)
Equivalent to ISO Class 2
(Experiment with sterile environment can be carried out from ISO Class 5, US Federal Class 100)
- Microbiological testing (ISO 14698 standard)
ISO Class 5 rating, satisfies the microbiological testing standards



Product Configuration For Easy Use

Easy operation during use with dual controller

- Equipped with the same controller inside and outside, it is convenient to operate the equipment even during work.

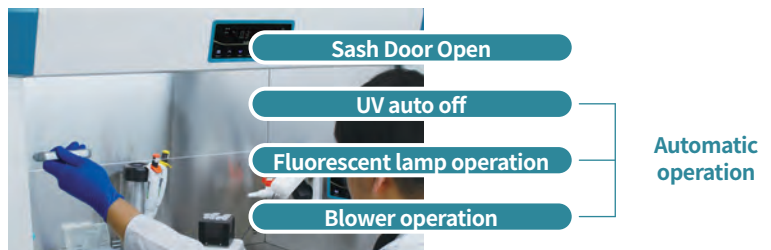
Built-in gas and air connection valves and power outlet

- Valves for gas and air use inside.
- Built-in electrical outlet with cover provided.



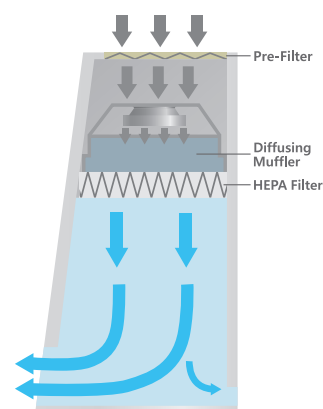
Smart Door System (Patent Granted)

- When the sash door is opened during UV sterilization, the UV lamp is automatically turned off to protect against UV exposure, and the fluorescent lamp and blower are automatically operated. (Korean Patent)



Smart Maintenance

- HEPA filter status checking**
Self-checking of HEPA filter status with a digital differential pressure sensor.
- UV lamp replacement notification**
UV irradiation intensity is monitored by a UV sensor, and an automatic replacement notification is provided when irradiation intensity drops below 80%.



Specification

Model		BC-01H	BC-11H	BC-21H
Air	Air flow type	Vertical Laminar Flow	Vertical Laminar Flow	Vertical Laminar Flow
	Airflow velocity (m/sec/fpm)	0.3 / 59	0.45 / 89	0.3 / 59
	Main filter	HEPA (99.99% at 0.3 μm)	HEPA (99.99% at 0.3 μm)	HEPA (99.99% at 0.3 μm)
	Pre-filter	Polyester Fibers	Polyester Fibers	Polyester Fibers
Illumination	U.V. lamp (254 nm, W)	25 x 1ea	30 x 1ea	25 x 2ea
	Fluorescent lamp (W)	30 x 2ea	30 x 2ea	32 x 2ea
	Fluorescent lamp intensity (Lux)	More than 650	More than 650	More than 650
Dimensions	Exterior with stand (W x D x H, mm / inch)	1135 x 620 x 1860 / 44.7 x 24.4 x 73.2	1435 x 620 x 1860 / 56.5 x 24.4 x 73.2	2035 x 620 x 1860 / 80.1 x 24.4 x 73.2
	Exterior without stand (W x D x H, mm / inch)	1135 x 620 x 1150 / 44.7 x 24.4 x 45.3	1435 x 620 x 1150 / 56.5 x 24.4 x 45.3	2035 x 620 x 1150 / 80.1 x 24.4 x 45.3
	Interior (W x D x H, mm / inch)	945 x 585 x 670 / 37.2 x 23.0 x 26.4	1245 x 585 x 670 / 49.0 x 23.0 x 26.4	1845 x 585 x 670 / 72.6 x 23.0 x 26.4
	Net weight (kg / lbs)	140 / 308.6	185 / 407.9	225 / 496
	Net weight (body + stand) (kg / lbs)	170 / 374.8	215 / 474	255 / 562.2
Noise level (dB)		Less than 65	Less than 65	Less than 65
Electrical requirements (230V, 50/60Hz, 1ph, A)		1.38	1.73	2.30
Cat. No.		AAHA5012K	AAHA5022K	AAHA5032K
Electrical requirements (120V, 60Hz, 1ph, A)		2.62	3.27	4.36
Cat. No.		AAHA5013U	AAHA5023U	AAHA5033U

Accessories



HEPA Filter (option)

- 99.99% efficient HEPA filter, industry standard size for economical replacement.



Pre Filter (1EA included)

- Easy-to-replace pre-filter for trapping larger particles and extending the life of HEPA filters.



Stand with Casters (option)

- Stand with Casters : Mobile stand made of powder-coated steel ideal for easy relocation.



Differential Pressure Gauge (option-only for BC-B)

- Magnehelic differential pressure gauge measuring pressure drop across the HEPA filter to monitor its efficiency.

Filters

Description	BC-01H/B	BC-11H/B	BC-21H/B	PW-01	PW-11	PW-21
HEPA Filter	AAAB1601	AAAB1602	AAAB1603	00EDA0009219	00EDA0009220	00EDA0009221
Pre Filter	AAAB1611	AAAB1612	AAAB1613	AAAB3511	AAAB3512	AAAB3513

Others

Description		BC-01H/B	BC-11H/B	BC-21H/B
Stand with Casters		AAAB1621	AAAB1622	AAAB1623
Gas Cock		AAAB1561	AAAB1561	AAAB1561
Differential Pressure Gauge (Only BC-B)		AAAB1571	AAAB1571	AAAB1571
UV lamp	230V, 50/60Hz	AAAB1631	AAAB1633	AAAB1635
	120V, 60Hz	AAAB1632	AAAB1634	AAAB1636