

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) (ISO Class 5, US Federal Class 100)
- 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 optional stand, HEPA filter, gas cock

Completed internal cleanliness evaluation and microbiological testing compatibility test.

- Internal cleanliness rating (ISO 14644-1 standard)
Equivalent to ISO Class 2
- 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.

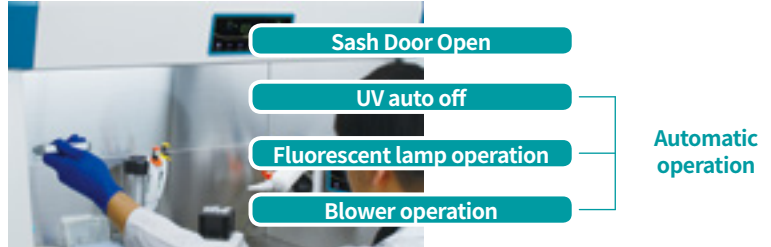
Built-in gas and air connection valves and power outlet

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



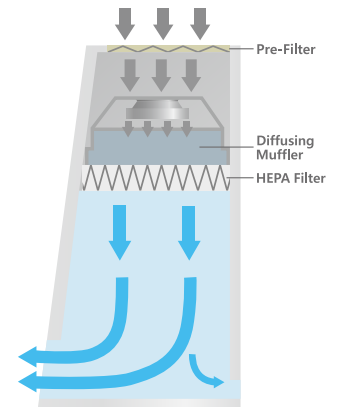
Smart Door System (patent registered)

- When the sash door is opened during UV sterilization, the UV lamp is automatically turned off to protect from UV exposure and the fluorescent lamp and blower are automatically operated. (registration 10-1451382)



Smart Maintenance

- HEPA filter replacement notification**
Real time monitoring of HEPA filter status with digital differential pressure sensor and automatic replacement notification.
- 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, 1ph, A)		60Hz / 1.25 50Hz / 1.38		60Hz / 1.57 50Hz / 1.73		60Hz / 2.09 50Hz / 2.30	
Cat. No.		AAHA5011K AAHA5012K		AAHA5021K AAHA5022K		AAHA5031K AAHA5032K	
Electrical requirements (120V, 1ph, A)		60Hz / 2.62		60Hz / 3.27		60Hz / 4.36	
Cat. No.		AAHA5013U		AAHA5023U		AAHA5033U	

Accessories **Page 185** HEPA Filter, Pre-filter, Stand, Gas Cock, Differential Pressure Gauge