

# 10 type inclined biosafety cabinet

## Class II A2

Front slide shutter is an inclined type that is easy to work, and the standard opening height is 250mm.  
Possible to set to 200mm if requested.



\* Foot cover is an optional extra.

- BHC-1310 II A2 is a JACA certified model.
- JIS self-declaration of conformity product.  
\* (JIS K 3800:2021)
- Front slide shutter is an inclined type that is easy to work, and the standard opening height is 250mm.  
\* We conduct factory shipment inspections and on-site inspections of the front shutter height as requested by the customer, so it is possible to use it at the requested height.
- Power-saving model that uses a high-efficiency brushless DC motor and a long-life LED light.  
\* Possible to adjust the brightness in 5 levels
- Interlock linked to the opening and closing of the front shutter allows you to turn the device, lighting, and germicidal light on / off.  
Prevents exposure to ultraviolet rays from germicidal light.
- Operation panel uses touch-type switch and an LCD screen for good operability and visibility and displays various information.
- Possible to maintain and inspect the main equipment such as the fan and HEPA filter from the top of the front.
- Main body is coated with antibacterial coating.

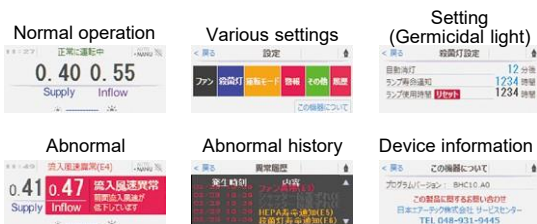
### Operation panel

LCD screen and touch-type switch



### LCD touch panel

Touch panel screen displaying various information



### Front slide shutter

When the opening height is 250 mm  
\* Possible to set 200 mm



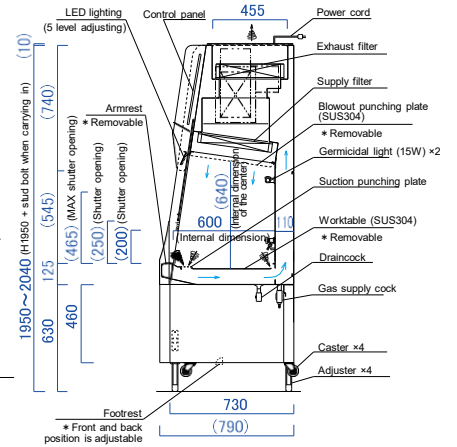
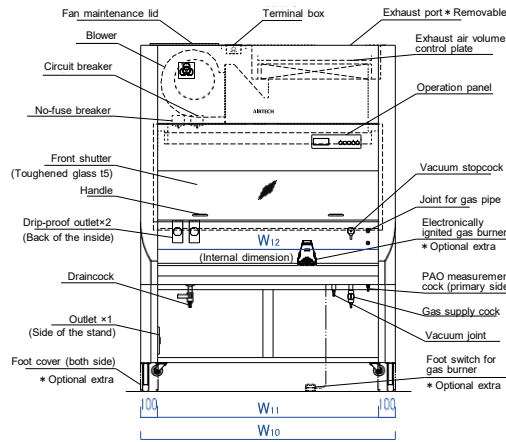
### Main body structure

Maintenance of the main equipment from the front

## BHC-1010 II A2 BHC-1310 II A2

Model	BHC-1010 II A2	BHC-1310 II A2
W <sub>10</sub>	1200	1500
W <sub>11</sub>	1000	1300
W <sub>12</sub>	1000	1300

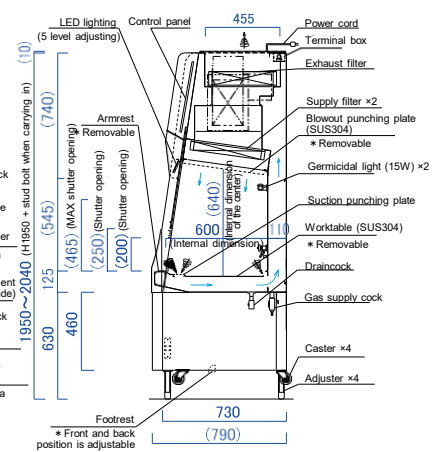
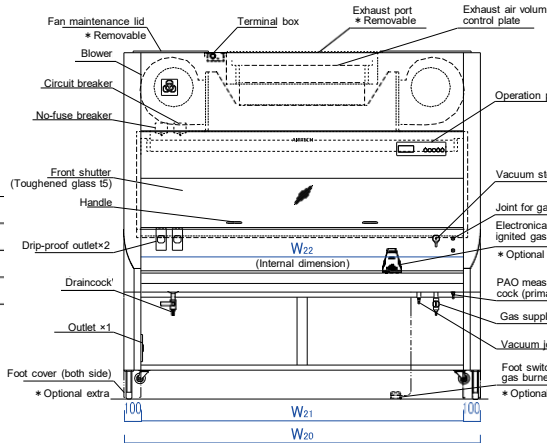
Unit : (mm)



## BHC-1610 II A2 BHC-1910 II A2

Model	BHC-1610 II A2	BHC-1910 II A2
W <sub>20</sub>	1800	2100
W <sub>21</sub>	1600	1900
W <sub>22</sub>	1600	1900

Unit : (mm)



Model	BHC-1010 II A2	BHC-1310 II A2	BHC-1610 II A2	BHC-1910 II A2
Efficiency	99.99% or higher at 0.3µm particles			
Filter element: Supply filter * Scan tested	HEPA filter x1	HEPA filter x1	HEPA filter x2	HEPA filter x2
: Exhaust filter * Scan tested	HEPA filter x1	HEPA filter x1	HEPA filter x1	HEPA filter x1
Air volume : Supply (m <sup>3</sup> /min) * When front opening dim. is 200 mm (Circulation ratio)	11.0 (Approx. 60%)	14.3 (Approx. 62%)	16.2 (Approx. 62%)	21.0 (Approx. 63%)
* When front opening dim. is 250 mm (Circulation ratio)	13.1 (Approx. 63%)	17.1 (Approx. 62%)	20.0 (Approx. 61%)	25.6 (Approx. 63%)
Air volume : Exhaust (m <sup>3</sup> /min) * When front opening dim. is 200 mm	6.6	8.6	10.2	12.5
* When front opening dim. is 250 mm	8.3	10.7	12.2	14.8
Workspace air velocity (m/s) * When front opening dim. is 200 mm	0.33±0.025	0.33±0.025	0.31±0.025	0.33±0.025
* When front opening dim. is 250 mm	0.40±0.025	0.40±0.025	0.38±0.025	0.41±0.025
Inflow air velocity from the front (m/s) * When front opening dim. is 200 mm	0.55±0.025	0.55±0.025	0.53±0.025	0.55±0.025
* When front opening dim. is 250 mm	0.55±0.025	0.55±0.025	0.51±0.025	0.52±0.025
Power source	AC100V 1φ 50/60 Hz			
Power consumption (W)	Approx. 280	Approx. 400	Approx. 660	Approx. 700
Apparent power (VA)	Approx. 440	Approx. 550	Approx. 280	Approx. 280
LED light * 5 level adjusting	8W x3	11W x3	14W x3	17W x3
Germicidal light	15W x2	15W x2	15W x2	15W x2
Weight (kg)	Approx. 300	Approx. 330	Approx. 410	Approx. 440
Minimum install dimension (mm)	W1200×D730×H1970	W1500×D730×H1970	W1800×D730×H1970	W2100×D730×H1980
Structure	Main body, stand: Steel plate (baking finish), workspace, armrest, blowout punching plate : Stainless steel			

\* Front shutter opening height is set to 200 mm or 250 mm. Please use it at the preset height. \* Air velocity in the work area is a measured value of 335 mm above the work surface when the front opening is 200 mm, and 385 mm above the work surface when the front opening is 250 mm. \* When using an open type duct (canopy hood) for outdoor exhaust, we recommend ensuring exhaust device on the building side that has approx. 1.5 times (150%) the exhaust air volume of the biosafety cabinet. \* Optional duct chamber for outdoor exhaust is required for installation. \* Power consumption does not include the capacity of the power outlet when the fan and lights are in operation. \* Inverter type germicidal light has an interlock mechanism with the shutter. \* Please have a leeway of + approx. 20 mm for the minimum install dimension.

Optional extra    Electronically ignited gas burner (with foot switch), Exhaust filter differential manometer, Automatic pipette, Vacuum pump or aspirator, dedicated hanger pipe, Foot cover, HEPA filter clogging alarm (with display and buzzer) by using a differential pressure switch, Outdoor exhaust chamber (open duct type) + φ250 volume damper

\* When installing a volume damper, please keep it at least 1 m away from the tip of the canopy hood.

Alarm    In the following cases, buzzer and display (indicator) will inform abnormalities.

- 1) Fan malfunction    2) Abnormality in inflow air velocity and supply air velocity
- 3) When the setting of the front shutter opening (200 mm or 250 mm) differs from the use opening height
- 4) Others, when an alarm occurs (please refer to the instruction manual for details)