

# Cytotoxic Safety Cabinet

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***Cytotoxic Safety Cabinet***



## CYTOTOXIC SAFETY CABINET

### **DESCRIPTION**

Cytotoxic safety cabinets are applied to the preparation and handling of cytotoxic drugs, preparation and manipulation of antineoplastic chemotherapeutics and CMR drugs.

Operations with cytostatic agents and other drugs or chemicals with CMR or cytotoxic potential materials

## FEATURES

### **SmartFlow Triple Filtration System**

SmartFlow design triple filters meet standard EN13091:1999 and EN 1822-1, downflow filter, exhaust filter and pre-filters are H14 HEPA filters (efficiency 99.995% @0.3  $\mu\text{m}$ )

### **Automatic Compensation Blower System**

World-Famous brand DC EMC brushless motor ensures stable and automatic compensation for filter loading.

The blower complies with ISO 2710 for low noise, low vibration and long life cycle.

### **CAV (Constant Air Volume) Technology and CPAS (Constant Pressure Apheresis System)**

The products are featured with CAV (Constant Air Volume) technology and CPAS (Constant Pressure Apheresis System) effectively ensure the safety cabinets working in a stable and safety status all the time.

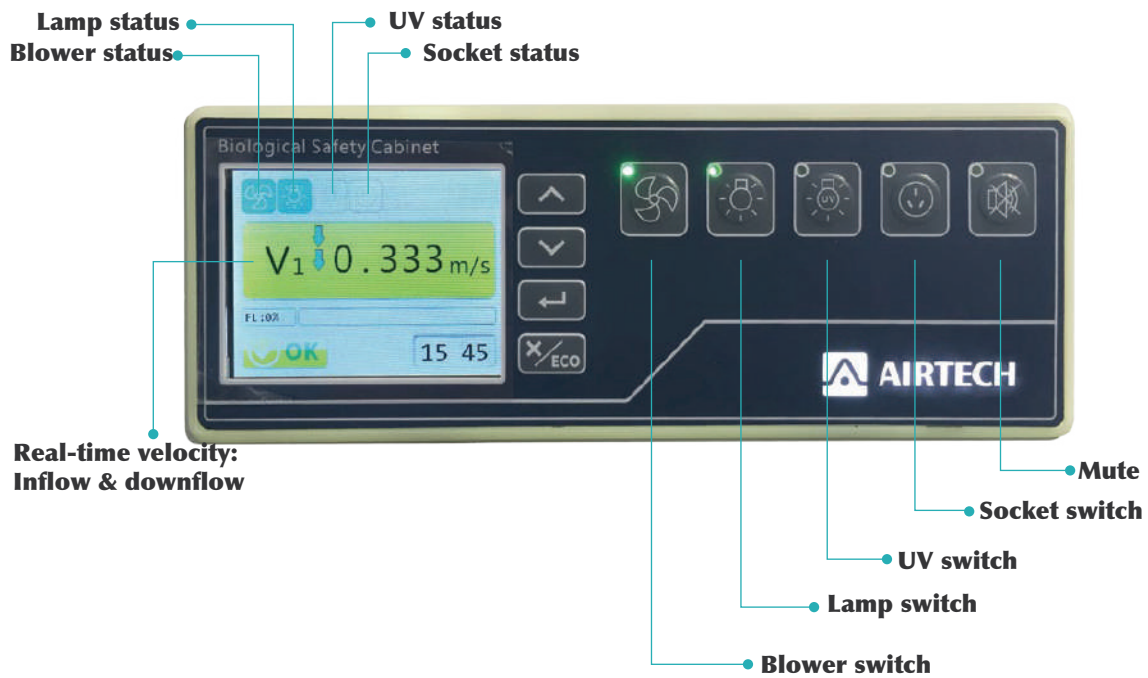
### **6-degree inclined air supply mode**

The 6-degree inclined air supply mode increases the fullness rate of the clean airflow in the working area by 7%, and greatly optimizes the airflow uniformity at sash window area.

### **Unique Negative Pressure and Anti-Leakage Design**

Unique negative pressure surrounds the double-layer wall. Cabinet body is Anti-Leakage design ensures no leakage for the safety cabinet under static pressure 500Pa, meets DIN 12980-2017 standard.

## Microprocessor Control System



### Control System

- All cabinet function is managed by a programmable microprocessor control system
- The microprocessor controller is mounted on the main control panel facing down toward the user.
- The controller includes soft-touch keypad controls and backlit LCD displays to permit operation of the blower/motor, light, UV lamp, electrical outlet(s) and menu.
- When programmed ON, the start-up protocol performs an automatic pre-purge and postpurge cycle to ensure proper cabinet operation.
- The controller includes a blower/motor hours meter to display aggregate motor running time to assist in predictive maintenance.
- Airflow is monitored by a temperature compensating, thermistor-based, true air velocity sensor mounted in the cabinet.

### **One piece integrated side-wall**

- One piece integrated side-wall without perforations, return air slots and concealed areas which can contain contaminants.
- The stainless steel work tray is multi-piece and removable. The cabinet is free of sharp edges, nonfunctional protrusions, bolts, screws or hardware and all metal edges are deburred.
- The cabinet exterior top is slanted to discourage placement of foreign objects and to maintain proper exhaust airflow

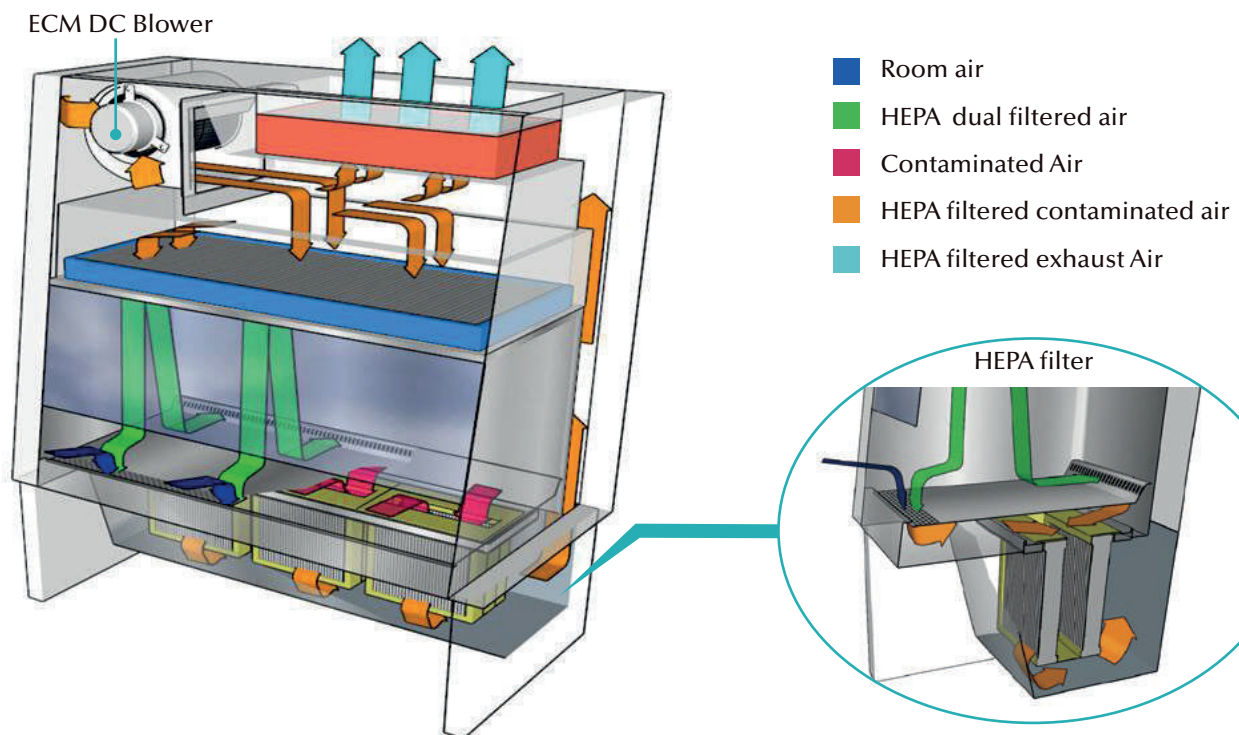
### **Ergonomic Design and Safety**

- The cabinet is designed with an 8° angled front to optimize user comfort, reduce glare and maximize reach into the work area.
- The arm rest is raised above the front air grille to prevent airflow blockage and improve comfort.
- The cabinet provides a 245 mm (9.6") knee space inward for sitting operators.
- The cabinet is freestanding on castor wheels with leveling rod supports.
- LED lamps are mounted behind the control panel module out of the work zone. Electronic ballasts are used to eliminate flicker, extend lamp life and reduce heat output.
- The UV lamp is mounted behind the control panel and away from the user's line of site for protection.
- The UV lamp operates via an automatic timer with automatic shut-off managed by the microprocessor controller and is interlocked with the blower/motor and LED lights for safety.

## Alarm System

- Blower works abnormal alarm
- Velocity exceed tolerance of setting value alarm
- Front sash glass height is not positioned alarm
- HEPA filter life alarm

## Excellent Airflow Filtration System



The primary filters are in 3 sets (6 HEPA filters) , increases the filtration efficient .  
(Model: BSC-1004IIA2-C , 4 HEPA/2 sets)

## TECHNICAL SPECIFICATIONS

Model		BSC-1004IIA2-C	BSC-1304IIA2-C	BSC-1604IIA2-C
Nominal size		1 meters (3 feet)	1.3meters (4 feet)	1.6 meters (5feet)
Work area Dimension (WxDxH)		1000x630x600mm	1300x630x600mm	1600x630x600mm
Exterior Dimension (WxDxH)		1200x820x2050mm	1500x820x2050mm	1800x820x2050mm
Window Open		200mm		
HEPA filter Filtration Efficiency		HEPA(@0.3µm≥99.995%)		
Velocity	Downflow	≥0.30m/s		
	Inflow	≥0.53m/s		
Air volume	Inflow	660m3/h	860m3/h	1050m3/h
	Exhaust	360m3/h	470m3/h	580m3/h
	Total	1020m3/h	1330m3/h	1630m3/h
Noise		≤67dBA		
Power		AC220~240V, 50/60Hz(1φ)		
Protection testing	Operator Protection	"Total colony in impaction sampler ≤10CFU./time		
		Total colony in Slit sampler ≤5CFU./time"		
	Product Protection	Total colony in culture dish ≤5CFU./time		
	Cross Contamination	Total colony in culture dish ≤2CFU./time		
Main unit Power(without spare socket)		560W	560W	560W
Weight		320KG	380KG	460KG
LED light		24.5Wx①	31Wx①	36Wx①
Illumination (Lx)	Lumin	≥900	≥900	≥900
Exhaust Air Direction		Top out		
Power		AC 220V/10A		
Qty.of Socket		AC 220/3A, 2 Pcs		





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