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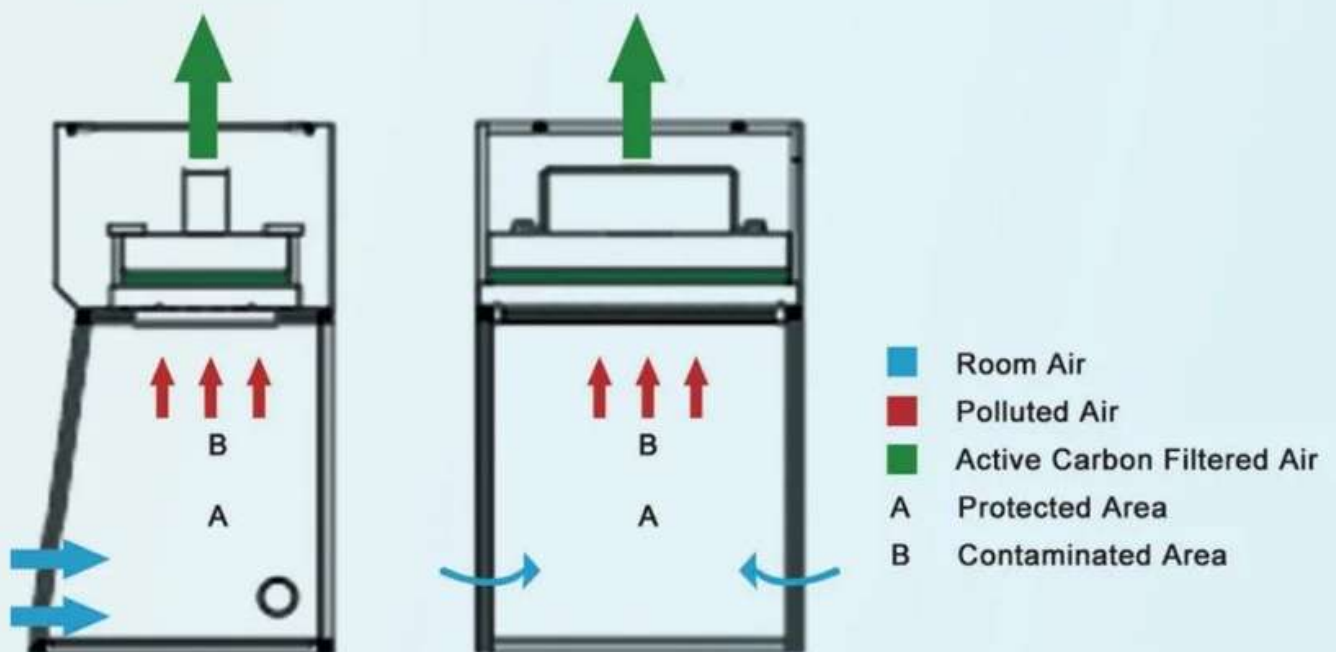
AirGuard Fume Hood Functional Guide and Technical Specification



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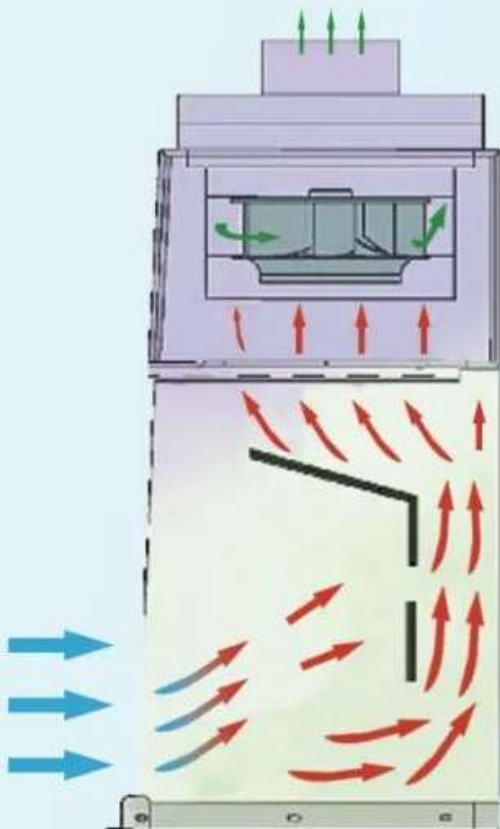
In the chemical laboratory, various harmful odorous gases, odors, moisture and corrosive substances will be generated during the experimental operation. In order to protect the safety of users and prevent the pollutants in the experiment from spreading to the laboratory, it should be used Asiaebuy AirGuard Fume Hood near the pollution source. Asiaebuy Fume Hood is used to protect lab environment and operator during general chemical applications. It actively protects operator from inhaling toxic vapors and dramatically reduces the risk of fire and explosion. By installing proper filter, it can also protect environment.





The biggest purpose of using a fume hood is to discharge the harmful gases generated in the experiment and protect the health of the experimenters, that is to say, there must be a high degree of safety and superior operability during the experiment, which requires fume hood to have the following functions:

- 1) **Release function:** The AirGuard Fume Hood should be equipped to dilute the harmful gas generated inside the hood by absorbing the gas outside the hood and then discharging it to the outside.
- 2) **Non-backflow function:** It should have the function of preventing harmful gas from flowing back into the room from the inside of the fume hood by the airflow generated by the exhaust fan inside the fume hood. In order to ensure the realization of this function, it is the best way to connect a fume hood and exhaust fan with a single pipe.
- 3) **Supplementary function:** The fume hood shall be a passage or alternative device for sucking air from outside the fume hood when discharging harmful gases





4) Wind speed control function: In order to prevent harmful gases from escaping in the fume hood, a certain intake speed is required. The factor that determines the intake speed of the air inlet is the relationship between the heat generated by the experimental content and the number of air changes, which is mainly determined by the experimental content and the nature of the harmful substances. In order to ensure such a wind speed, the exhaust fan should have the necessary static pressure, that is the frictional resistance of the air when it passes through the ventilation duct.

5) Heat resistance and acid and alkali corrosion resistance: AirGuard Fume Hood need to be equipped with electric furnaces, and some experiments produce a large amount of acid and alkali and other toxic and harmful gases, which are extremely corrosive. Therefore, all accessories in the fume hood should have an anti-corrosion function. In any laboratory where strong acids are used, it is also required that the overall material of the fume hood must be resistant to acid and alkali, and be made of stainless steel, or PVC.





AirGuard Ducted Fume Hood E Series



Advantage:

1. Adjustable air speed: 9 levels.
2. Microprocessor control system, LED display.
3. Resistant to moderate acid and alkali.
4. Manual front glass window, height adjustable.
5. Built-in PP centrifugal blower; low noise, easy installation.



LED Display
Digital LED display:
Airflow Level



**Waterproof
Socket**



Universal Wheel



**Water Remote
Control**



Water Tap



**Water Tap &
Water Sink**

Technical Parameter

Model	AirGuard-10E	AirGuard-12E	AirGuard-15E	AirGuard-18E
External Size (WxDxH) mm	1000x800x2515	1200x800x2515	1500x800x2515	1800x800x2515
Internal Size (W*D*H)	790x600x870	990x600x870	1290x600x870	1590x600x870
Work Surface Height	900mm			



AirGuard Ducted Fume Hood E Series

Technical Parameter

Model	AirGuard-10E	AirGuard-12E	AirGuard-15E	AirGuard-18E
Max Opening	750 mm			
Air Velocity	0.3 - 0.8 m/s			
Exhaust Duct	PVC, Standard length: 4 meters			
Blower	Built in PP centrifugal blower; Speed adjustable			
Material	Exterior: 1.0mm Cold-rolled steel with anti-bacteria powder coating			
	Interior: Compact laminate board with good acid and alkali resistance function			
Standard accessory	Wall-fed air cock(except AirGuard-10E); Air supply flow control valve(except AirGuard-10E); PP water sink; LED Lamp; Total load of 2 waterproof sockets: 500W, Built-in PP blower fan; 4.3 meters exhaust duct with diameter 300mm; base cabinet; Pipe strap, water tap			
Optional Accessory	Gas Tap			



AirGuard Ducted Fume Hood A Series



Advantage:

1. UV lamp for sterilization.
2. Resistant to weak acid and alkali.
3. Adjustable air speed: 9 levels
4. Motorized front window, height adjustable.
5. Microprocessor control system, LED display.
6. With memory function in case of power-failure.
7. The polluted air could be purified by active carbon filter (optional) before exhausting through the duct.
8. Built-in centrifugal blower (exhaust fan).



LED Display



Waterproof Socket



Water&Gas Remote Control



Double Layer
1.2mm sheet metal surface,
melamine board inward,

Technical Parameter

Model	AirGuard-10A	AirGuard-12A	AirGuard-15A	AirGuard-18A
External Size (WxDxH) mm	1040x800x2200	1240x800x2200	1540x800x2200	1840x800x2200
Internal Size (W*D*H)	820x670x730	1020x670x730	1320x670x730	1620x670x730
Work Surface Height	850 mm			



AirGuard Ducted Fume Hood A Series

Technical Parameter

Model	AirGuard-10A	AirGuard-12A	AirGuard-15A	AirGuard-18A
Max Opening	520 mm			
Air Velocity	0.3 - 0.8 m/s			
Exhaust Duct	PVC, Standard length: 4 meters			
Blower	Built in centrifugal blower; Speed adjustable			
UV Lamp	Emission of 253.7 nanometers for most efficient decontamination			
Material	Exterior: 1.0mm Cold-rolled steel with anti-bacteria powder coating			
	Interior: Compact laminate board with good acid and alkali resistance function			
Standard accessory	UV lamp, LED lamp, Water tap, Gas tap, Water sink, Base cabinet, Total load of 2 waterproof socket: 500W, 4.3 meter PVC exhaust duct, pipe strap.			
Optional Accessory	Active carbon filter			



AirGuard Ducted Fume Hood X Series



Advantage

1. UV lamp for sterilization.
2. Motorized front glass window.
3. Resistant to weak acid and alkali.
4. Adjustable air speed: 9 levels.
5. Alarm when filter working time 3500 hours.
6. With memory function in case of power-failure.
7. Back side air compensation, to avoid turbulence in work area.
8. 8° slope front ergonomics design, fatigue-free working posture.
9. Microprocessor control system, LED display shows filter working time.
10. Transparent side glass windows maximize light and visibility inside the cabinet, providing a bright and open working environment.

Technical Parameter

Model	AirGuard-10X	AirGuard-12X	AirGuard-15X	AirGuard-18X
External Size (WxDxH) mm	1000x840x2150	1200x840x2150	1500x840x2150	1800x840x2150
Internal Size (W*D*H)	880x730x745	1080x730x745	1380x730x745	1680x730x745
Work Surface Height	750 mm			



AirGuard Ducted Fume Hood X Series

Technical Parameter

Model	AirGuard-10X	AirGuard-12X	AirGuard-15X	AirGuard-18X
Max Opening	520 mm			
Air Velocity	0.3 - 0.8 m/s			
Exhaust Duct	PVC, Standard length: 4 meters			
Blower	Built-in centrifugal blowers; Speed adjustable with 9 levels			
System exhaust volume	630m ³ /h	780m ³ /h	990m ³ /h	1210m ³ /h
UV Lamp	Emission of 253.7 nanometers for most efficient decontamination			
Material	Exterior: Cold-rolled steel with anti-bacteria powder coating			
	Work table: Chemical resistant phenolic resin			
Standard accessory	Water tap, Gas tap, Water sink, Base stand, UV lamp*2, LED lamp, Socket, 4 meters exhaust duct, Active carbon filter, Foot switch.			
Optional Accessory	HEPA Filter			



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AirGuard Eco Filtered Fume Hood



In chemical laboratories, a lot of odors, moisture and corrosive substances will be generated during the experiment. To protect the safety of users and prevent the spread of pollutants in laboratories, fume hoods are used. Ductless fume hoods, sometimes called carbon-filtered enclosures or filtered fume hoods, are self-contained, filtered laboratory enclosures that remove hazardous fumes, vapours and particles from the laboratory. Unlike traditional fume hoods, installation costs are very low and **no ductwork is required**.

Advantage:

1. LCD Touch screen control panel, easy to operate.
2. With memory function in case of power failure.
3. 8" slope front ergonomics design, fatigue-free working posture.
4. Temperature and humidity sensors, can detect indoor temperature and humidity.
5. Three side transparent acrylic windows, front window reversal design, easy to operate.
6. Double-layer structure: 1mm sheet metal surface; Chemical resistant phenolic resin work table.
7. Electronic control system, anti-overload, anti-electric shock, stable performance, long service life.
8. Inside and outside probes, detect indoor air pollution and filter conditions. Audible and visual alarm for changing the filter.



LCD Display
LCD Touch Screen
Control Panel



Waterproof
Socket



Water & Gas tap
reserve mouth



AirGuard Eco Filtered Fume Hood

Technical Parameter

Model	AirGuard-10C	AirGuard-12C	AirGuard-15C	AirGuard-18C
External Size (WxDxH) mm	1000x830x2140	1200x830x2140	1500x940x2140	1800x940x2140
Internal Size (W*D*H)	910x690x740	1110x690x740	1410x690x740	1710x690x740
Work Surface Height	900 mm			
Max Opening	650 mm			
Air Velocity	0.4 – 0.6 m/s			
Airflow Volume	136m³/h		432m³/h	547m³/h
Blower	Built in centrifugal blower; Speed adjustable			
Chemical Filter	2 pcs		4 pcs	
Material	Exterior: Cold-rolled steel with anti-bacteria powder coating			
	Side Window: Acrylic Window; Work table: Chemical resistant phenolic resin			
Standard accessory	Fluorescent Lamp, Base cabinet, Total load of 2 waterproof sockets: 500W;Chemical Filter			
Optional Accessory	Water tap, Gas tap, Water sink, Electric height, Adjustable base stand, HEPA Filter, USB module,UV Lamp			



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