

ULPASAFE Biohazard with Touch Pad Microprocessor System Class II A



- Manufactured and design to comply with NSF49, EN12469, BS5726, AS/NZS 2252-2, Standard, under an accredited ISO 9001 QMS.
- SASTEC ULPASAFE Biological Safety Cabinet Class II A is a made-in Malaysia product with advance technological features. .
- All material used are suitable for operation in cleanroom environment.
- Digital Touch Pad Microprocessor controller for the power, air flow speed, UV and fluorescent light.
- The controller comes with count down timer for UV light and ULPA filter
- An activation of UV light function to sterile the works surface.
- The UV fuction will be disconnected when the sash is being lifted and the motor blower will resume the normal function.
- Filter is mounted and protected by aluminium frame work with gasket to provide leak-free condition.
- Real time and date
- Australian Certified blower
- Stainless steel interior
- UV safe explosion proof front sash
- Front sash height alarm when exceeded 200mm.
- Work top constructed with AISI 304 stainless steel, chip and rust free with three removable work top.
- Internal one piece stainless steel with rounded corners.
- Standard features with 2 electrical sockets, gas tap, UV Light, Fluorescent light and stand with locking castors.
- 12 months warranty period against manufacturer's defect on non consumable parts.
- Supply with test report.
- Live Airflow Monitoring

Specification of ULPASAFE BIOHAZARD CLASS IIA

Model		ULPASAFE IIA 3FT	ULPASAFE IIA 4FT	ULPASAFE IIA 5FT	ULPASAFE IIA 6FT
Power (W)		315W			
Voltage		220V 50Hz			
Vibration		<3µm			
Noise Level		≥58 dBa		<60 dBa	
Control System		Touch Pad Microprocessor			
Fluorescent Light		Intensity >850 Lux			
Overall Dimension (W x D x H) mm		920W x 750D x 1410H	1270W x 800D x 1410H	1570W x 800D x 1410H	1870W x 800D x 1410H
Working Zone (W x D x H) mm		870W x 700D x 600H	1220W x 700D x 600H	1520W x 700D x 600H	1820W x 700D x 600H
Weight		150Kg	180Kg	210Kg	250Kg
Construction	Top Hood	Powder Coated E.G Sheet			
	Sash	UV Safe Acrylic, Framless			
	Work Base/ Hood Wall	Stainless Steel AISI 304			
Digital Operating Panel	Security	User Password			
	Pre UV Timer	Selectable Timer			
	ULPA Filter 6,000 Hours	Count Down Hour			
	UV Light 2,000 Hours	Count Down Hour			
	Over Sash (>200mm)	Alarm			
	Filter Fail or Break	Warning Screen			
	Real Time and Date	Yes			
	Working Time	Yes			
Filter	Main Filter	ULPA			
	Filter Efficiency	99.9995% (0.1µm - 0.2µm)			
Air Flow System	Downflow Velocity	0.45 ±0.015 m/s			
	Inflow Velocity	0.65 ±0.015 m/s			
	Exhaust	100%			
	Inside Volume of Working Space	0.365m ³	0.508 m ³	0.63m ³	0.758 m ³
	Volume of Treated Air Per Hour	829m ³ / hr	1125 m ³ /hour	1422 m ³ /hour	1718m ³ /hour

Sensor

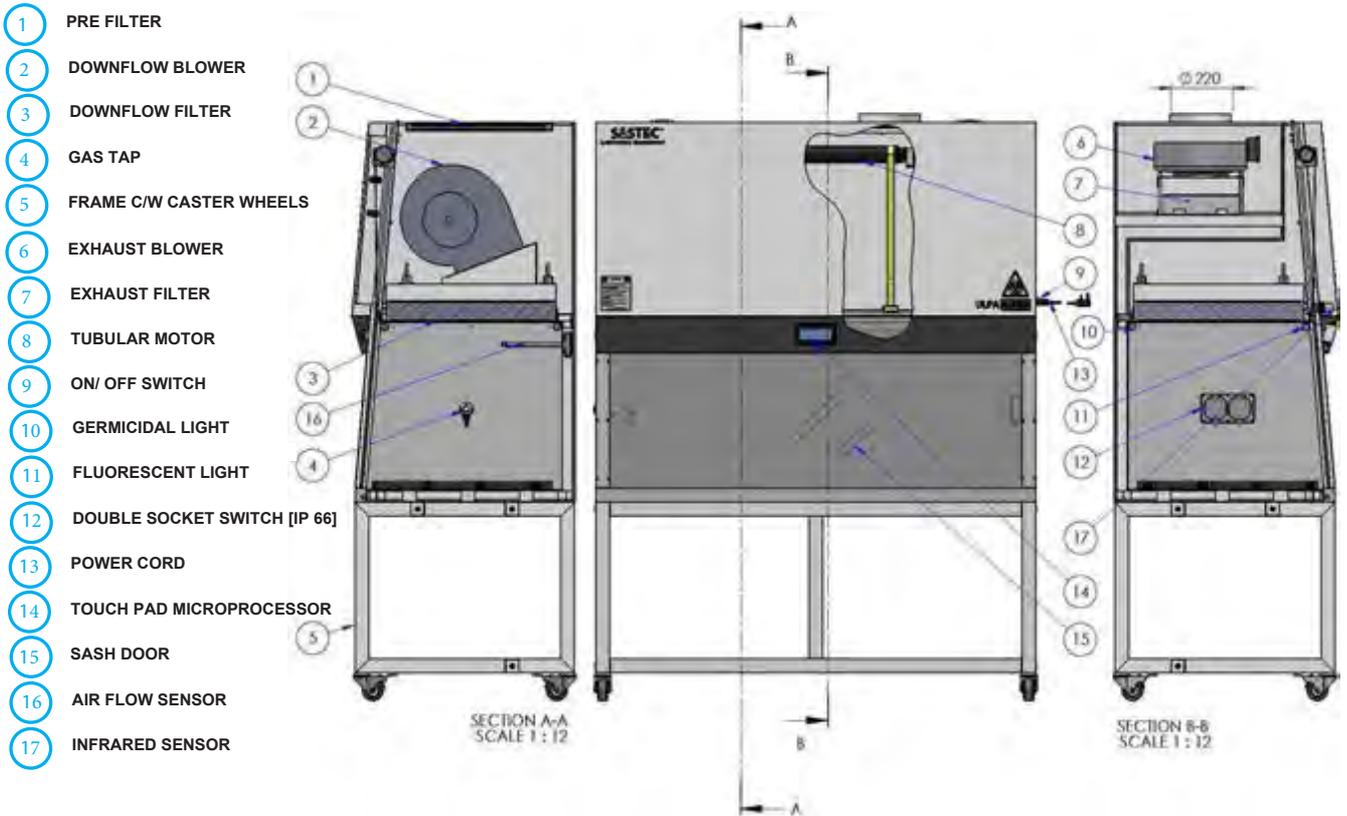


Infrared Sensor

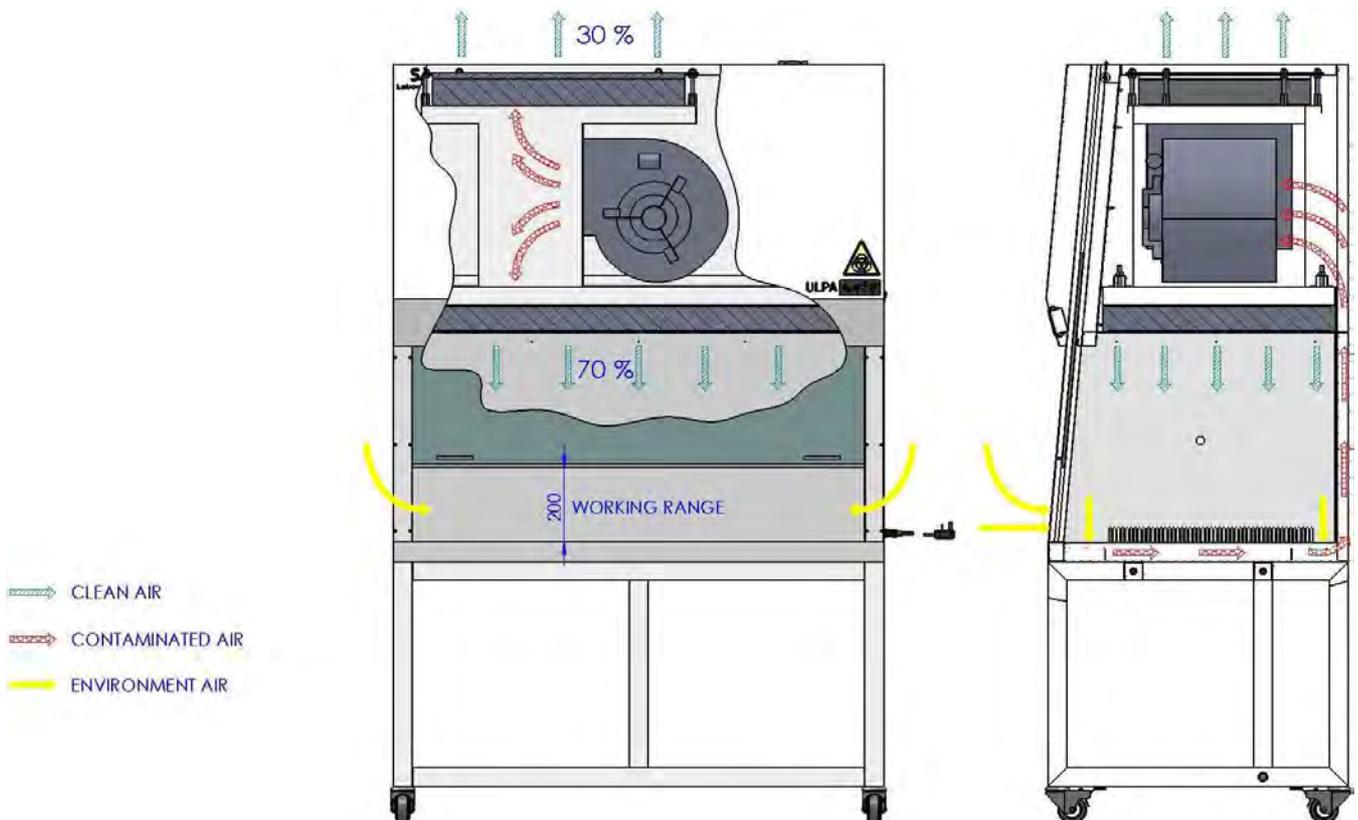


Airflow Sensor

Technical Drawing



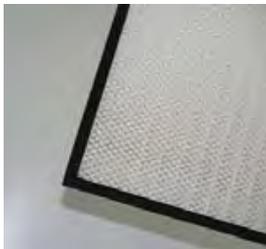
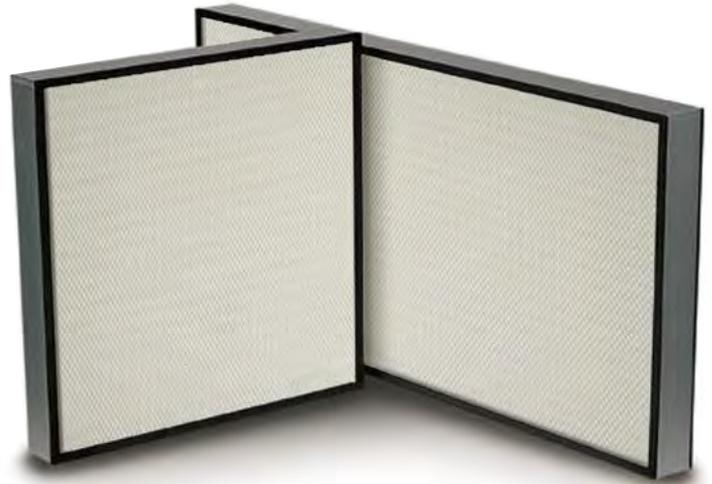
Air Flow Diagram



Filtration Efficiency

ULPAFlow Mini-Pleat Filter

- Mini-pleat design lowers operating costs
- Lightweight and compact
- Low off-gassing components
- Wide range of efficiencies
- Leak and/or scan tested



Neoprene Gasket

The Gasket seal frame is designed for use in clean benches

ULPA filters specially designed to meet the demanding airflow and particulate control requirements of cleanroom applications. It is available with knifeedge or gasket seal frames for installation in any type of grid system or frame.

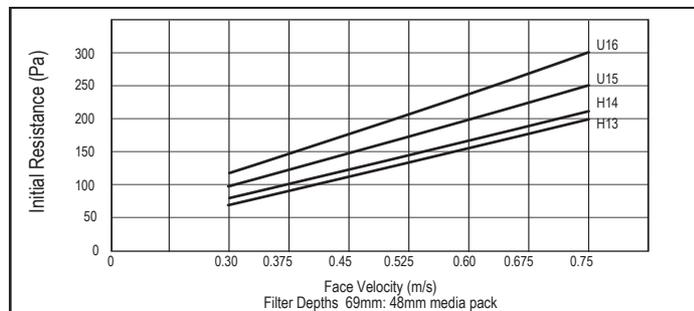
meeting the classifications ranging from H13 to U17 in accordance with EN1822

ULPAFlow Mini-Pleat Filter are designed for use in cleanrooms, clean benches, semiconductor, pharmaceutical, biotech, food processing, and other industries in which airborne contaminants must be carefully controlled.

The mini-pleat design combines maximum efficiency with low pressure drop, thus reducing operating costs.

Special thermoplastic heads are used to maintain equal spacing between pleats for optimal airflow, resulting in high dust holding capacity and full use of the entire depth of the filter.

Initial Resistance vs Face Velocity



All ULPA filters are leak tested and ULPA filters are scanned with a laser spectrometer with PSL particles to determine the overall efficiency in accordance with IES-RP-CCO34-1.