ULPASAFE Biohazard Class II B, Total Exhaust

- SASTEC ULPASAFE Biological Safety Cabinet Class II B is a made-in Malaysia product with advance technologies features.
- With Australian Certified blower. All material used are suitable for operation in cleanroom environment.
- Digital Controller for the power, air flow speed, UV and fluoresent light.
- The controller comes with count down timer for UV light and ULPA filter enable operator replace UV light and ULPA filter when reach setting time thus enable the 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
- Explosion proof front sash
- Front sash height alarm
- Work top constructed with AISI 304 stainless steel, chip and rust free also removable one piece work top
- Internal one piece stainless steel with rounded corners
- Standard features with 2 electrical sockets, gas tap, UV Light, Fluorescent light and stand
- 12 months warranty period against manufacturer's defect on non consumable parts.
- Supply with test report

Specification of ULPASAFE BIOHAZARD CLASS IIB				
Model		ULPASAFE IIB 4FT	ULPASAFE IIB 5FT	ULPASAFE IIB 6FT
Power (W)		120W		
Voltage		220V 50Hz		
Vibration		<3μm		
Noise Level		≥60 dBa	<62 dBa	
Control System		Digital Microprocessor		
Fluorescent Light		Intensity >1150 Lux		
Overall Dimension (W x D x H) mm		1270W x 800D x 2160H	1570W x 800D x 2160H	1870W x 800D x 2160H
Working Zone (W x D x H) mm		1220W x 700D x 600H	1520W x 700D x 600H	1820W x 700D x 600H
Weight		180Kg	210Kg	250Kg
Construction	Top Hood	Chemical Resistant & E.G Sheet		
	Sash	UV Safe		
	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% (0.12μm - 0.3μm)		
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	0.508 m^3	0.63m^3	0.758 m^3
	Volume of Treated Air Per Hour	1125 m^3/hour	1422 m^3/hour	1718m^3/hour

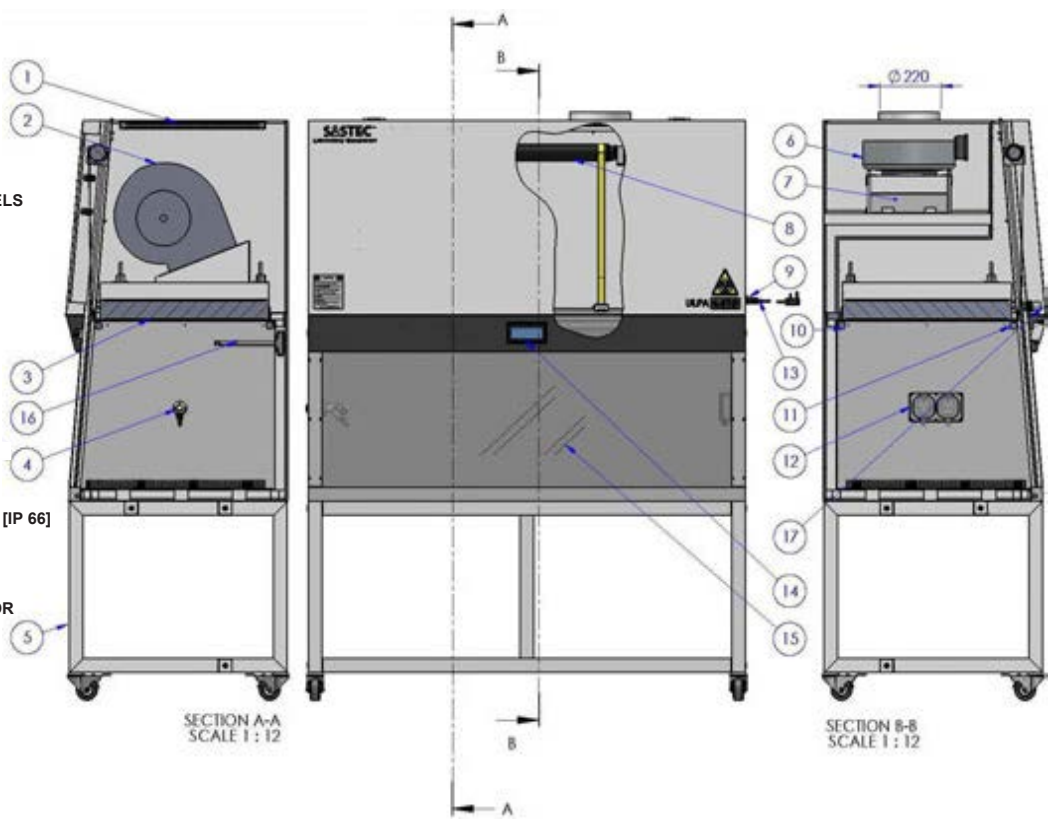
Sensor

Infrared Sensor

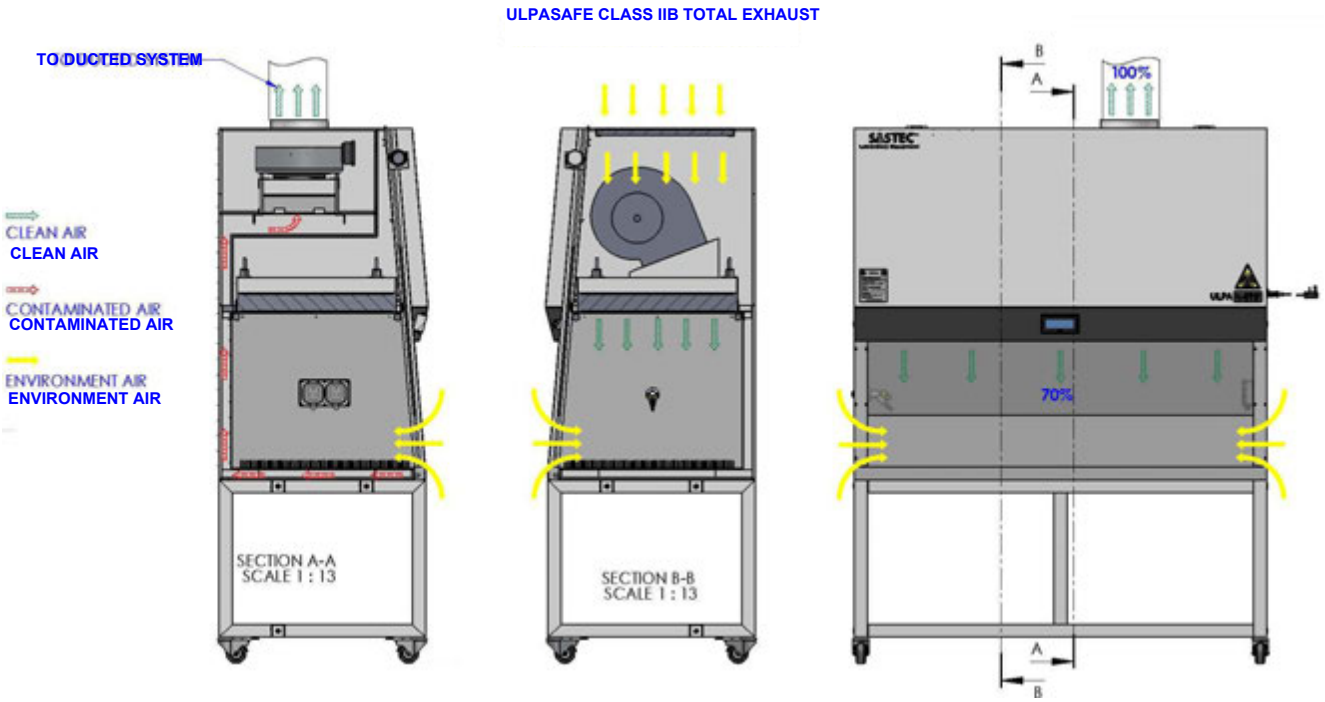
Airflow Sensor

Technical Drawing

1. PRE FILTER
2. DOWNFLOW BLOWER
3. DOWNFLOW FILTER
4. GAS TAP
5. FRAME C/W CASTER WHEELS
6. EXHAUST BLOWER
7. EXHAUST FILTER
8. TUBULAR MOTOR
9. ON/ OFF SWITCH
10. GERMICIDAL LIGHT
11. FLUORESCENT LIGHT
12. DOUBLE SOCKET SWITCH [IP 66]
13. POWER CORD
14. DIGITAL MICROPROCESSOR
15. SASH DOOR
16. AIR FLOW SENSOR
17. INFRARED SENSOR

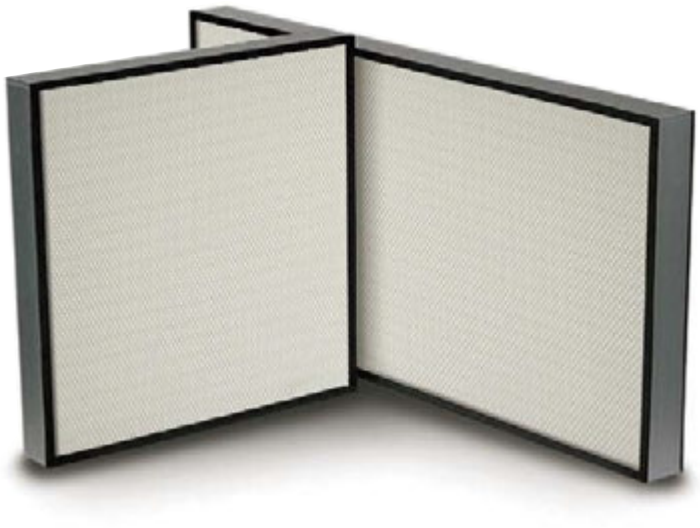


Air Flow Diagram



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 beches

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.

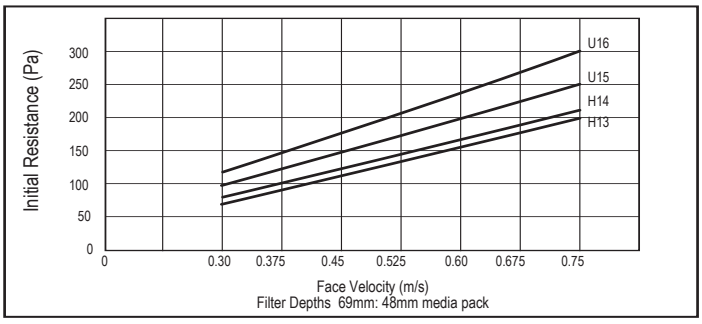
meeting the classifications ranging from H13 to U17 in accordance with EN1822

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.