

Ulpaflow Horizontal Laminar Flow with Analog System



- SASTEC Laminar Flow Clean Bench is a made-in Malaysia product.
- All materials used are suitable for operation in cleanroom environment.
- Product certified by MIDA & JKPDNKK as "Buatan Malaysia".
- Compliance to IEST-RP-CC034-1 in accordance with EN1822.
- Ulpa filters tested to a typical efficiency of >99.9995% for 0.1 ~ 0.3 or larger particles.
- Typical life span of ULPA filter is well over 3 years subjected to operation environment.
- Filter is mounted and protected by aluminium frame work with gasket to provide leak-free condition.
- UV safe Polyglass sash and both sides provide maximum visibility
- Electronic ballast lamp provides excellent lighting inside the working chamber.
- Lamps are located at the top front, away from the eye contact with the operator.
- Auto Sash, Epoxy powder coating for internal and external structure.
- Work top constructed with AISI 304 stainless steel, chip and rust free.
- Two electrical socket, gas tap and support stand are standard features.
- Supply with test report.

Specification of Ulpaflow Horizontal Laminar Flow with Analog System

Model	ST-3HA	ST-4HA	ST-5HA	ST-6HA	
Power (W)	120W			120W x 2	
Voltage	220V 50Hz				
Vibration	< 3um				
Noise Level	<58 dB (A)		< 60dB(A)		
Control System	Switches				
Fluorescent Light	Intensity >890 Lux				
Overall Dimension (W x D x H) mm	920W x 720D x 1906H	1220W x 720D x 1906H	1520W x 720D x 1906H	1820W x 720D x 1906H	
Working Zone (W x D xH) mm	870W x 545D x 650H	1170W x 545D x 650H	1470W x 545D x 650H	1770W x 545D x 650H	
Weight	120 kg	145 kg	180 kg	210 kg	
Construction	Cabinet	Powder Coated E.G Steel			
	Sash	UV Safe Polyglass			
	Work Base	Stainless Steel AISI 304			
Filter	Main Filter	HEPA			
	Filter Efficiency	99.995% (0.3um)			
	Pre-Filter	Washable			
	Arrestance	80-85%			
Working Zone	Inside Volume of Working Space	0.275 m ³	0.415 m ³	0.510 m ³	0.607 m ³
	Volume of Treated Air per hour	739 m ³ /hour	1070 m ³ /hour	1318 m ³ /hour	1581 m ³ /hour

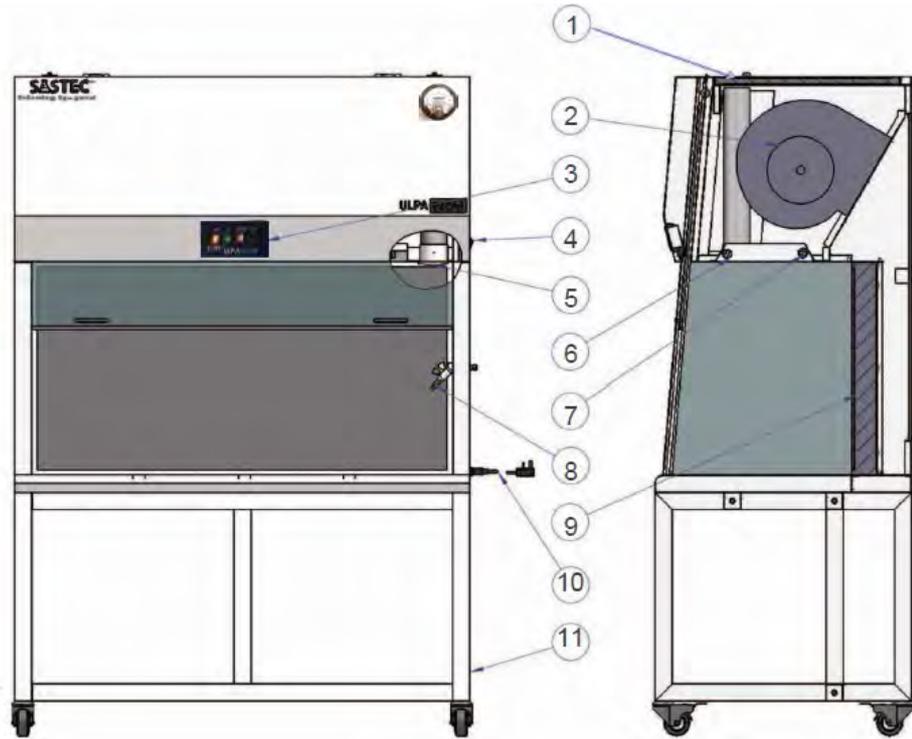


The Magnehelic Gauge is the industry standard of measure fan and blower pressure, filter resistance, air velocity and pressure drop.



Technical Drawing

- ① PRE FILTER
- ② BLOWER
- ③ CONTROL SWITCHES
- ④ ON/OFF SWITCH
- ⑤ SOCKET OUTLET 2 GANGS
- ⑥ FLUORESCENT LIGHT
- ⑦ GERMICIDAL LAMP
- ⑧ GAS TAP
- ⑨ HEPA FILTER
- ⑩ POWER CORD
- ⑪ FRAME C/W CASTER WHEEL



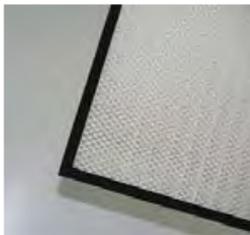
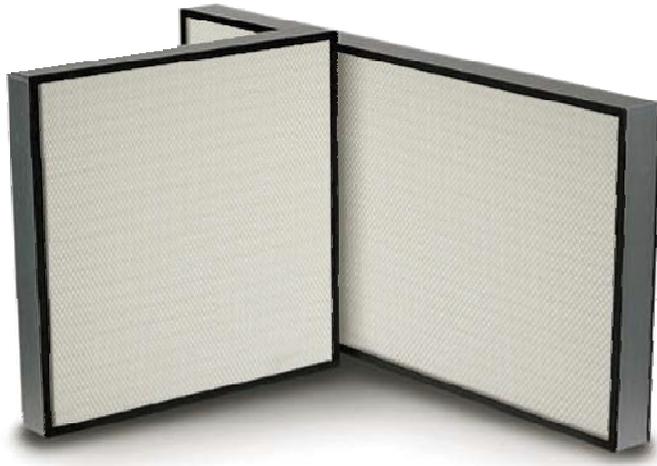
Air Flow Diagram



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.

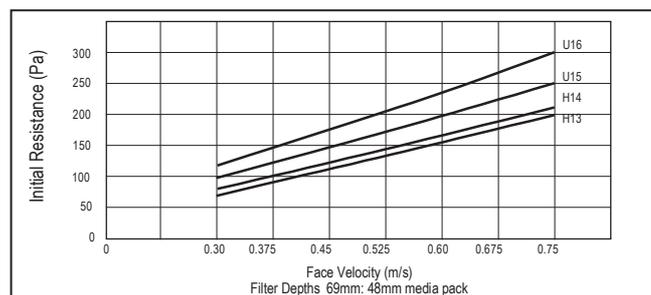
meeting the classifications ranging from H13 to U17 in accordance with EN1822

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.