

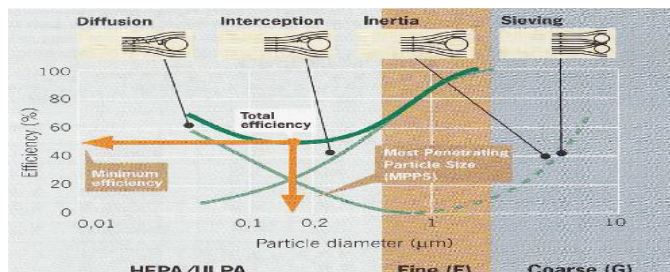
PCR Work Station with Touch Screen System



- SASTEC Vertical Laminar Flow Clean Bench is a made-in Malaysia product with advance technologies features. They are superior to most other established brand available in Malaysia. The Clean Bench has been tested for safety and performance accordance to ISO 14001: 2004, US Federal Standard Class 10, 209E standards. All materials used are suitable for operation in cleanroom environment.
- Thus enable the activation of UV light function to sterile the works surface. The UV function will be disconnected when the sash is being lifted and the motor blower will resume the normal function.
- The components of the Laminar Flow Clean Bench has CE Marking, UKAS registration and conform to 93/42/EEC, EN 60601-1: 1990 + A1: 1993 + A2 + 1995 + A13: 1995. ULPA filters tested to a typical efficiency of >99.9995% for 0.1 to 0.3 micron 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.
- Digital touch screen controller for the power, air flow speed, UV and fluorescent 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
- Intelligent UV Cut-Off function when glass sash is in open position.
- UV safe Polyglass sash and both sides provide maximum viewing.
- Electronic ballast featured lamp provides excellent lighting inside the working chamber.
- Lamps are located at the top front, away from the eye contact with the operator.
- Work top constructed with AISI 304 stainless steel, chip and rust free.
- Low noise centrifugal with speed adjustable from the digital touch screen controller.
- Two electrical socket, gas tap and support stand are standard features.
- 12 months warranty period against manufacturer's defect on non consumable parts.
- Supply with test report.

Filter Engineering Theory

Minimum efficiency of air filters



The overall efficiency of an air filter is a result of combination of 4 basic filtration mechanisms (sieving, inertia, interception and diffusion), so that the efficiency curve of an air filter adopts a characteristic V shape showing a minimum level of efficiency. This minimum efficiency corresponds to a particle size called MPPS (Most Penetrating Particle Size). In other words, the MPPS is the particle size that is the most difficult to stop. The MPPS is situated between 0.1 and 0.2 µm depending on the filter type, and the speed of air flow through the filtering media.

Touch screen controls: -

- Motor Adjustment from Speed 1 to Speed 3
- Airflow speed 0.3 m/s to 0.60 m/s
- Light ON and OFF
- UV lamp ON and OFF
- Electrical socket ON and OFF
- Live airflow count
- Live date and time
- Filter change count down timer
- UV light change count down timer

Specification of PCR Work Station with Touch Screen System			
Model	ST-PCR3	ST-PCR4	
Power (W)	120W		
Voltage	220V 50Hz		
Vibration	< 3µm	< 3 µm	
Noise Level	< 58dB(A)	≥58 dBa	
Control System	Touch Screen		
Fluorescent Light	Intensity >500 Lux		
UV Light (Watt) Wavelength (nm)	30 (Watt) 254 (nm)	36 (Watt) 254 (nm)	
Overall Dimension (W x D x H) mm	1080 x 780 x 1906	1400 x 780 x 1906	
Working Zone (W x D x H) mm	1045 x 704 x 556	1365 x 704 x 556	
Weight	120 kg	145 kg	
Construction	Cabinet	Powder Coated E.G Steel	
	Sash	UV Safe Polycarbonate	
	Work Base	Stainless Steel AISI 304	
Touch Screen Operating Panel	Security	User Password	
	Pre-UV Timer	Selectable Timer (1 ~ 30 minutes)	
	Air Select Speed	3 Steps	
	ULPA Filter 6,000 Hours	Count Down Hour	
	UV Light 2,000 Hours	Count Down Hour	
	Real Time and Date	Yes	
	UV & Filter Change Remain Indicator	Yes	
Filter	Main Filter	ULPA	
	Filter Efficiency	99.9995% (0.1µm-0.2µm)	
	Pre-Filter	Washable	
	Arrestance	80-85%	
Air Flow System	Step 1	0.3±0.015 m/s	
	Step 2	0.4 ±0.015 m/s	
	Step 3	0.5 ±0.015 m/s	
	Inside Volume of Working Space	0.430 m³	0.534 m³
	Volume of Treated Air per hour	790 m³/hour	1071 m³/hour