



Mask Bacterial Filtration Efficiency (BFE) Tester GT-RA02



Application:

Mask Bacterial Filtration Efficiency Tester is applied to test the filtration efficiency of mask, can be used in metering calibration department, scientific research institution, mask manufacturer and other related departments.

Standards:

YY 0469-2004 Technical requirements for surgical mask;

BS EN 14683-2014 Medical face masks - Requirements and test methods ;

ASTM F2100-2019 Standard Specification for Performance of Materials Used in Medical Face Masks;

ASTM F2101 Standard Test Method for Evaluating the Bacterial Filtration Efficiency (BFE) of Medical Face Mask Materials, Using a Biological Aerosol of *Staphylococcus aureus*;
NBR 15052

Feature

- 1.Bacterial Filtration Efficiency Tester Of Mask: Negative pressure testing system, which can protect operator's safety.
- 2.Peristaltic pump was built in the negative pressure cabinet, A & B two routes 6 level Andersen sampling head.
- 3.The flow speed of peristaltic pump can be set.
- 4.The spray flow of bacterial liquid inside the special microbial aerosol generator can be set.
- 5.BFE tester good atomization effect.
- 6.Embedded high speed industrial microcomputer control.
- 7.10.4 "industrial high brightness color touch screen display.
- 8.USD connector, support USB data archived
- 9.Mask BFE Tester high brightness light installed in the cabinet.
- 10.Switching type glass door in front of the machine, easy to observe by the operator.

Key Specification

Model	GT-RA02		
Key Specification	Specification Range	Resolution	Max.permissible errors
A Route Sampling Flow	28.3L/min	0.1L/min	Within $\pm 2.0\%$
B Route Sampling Flow	28.3L/min	0.1L/min	Within $\pm 2.0\%$
Spray Flow	(0.1~10)L/min	0.1L/min	Within $\pm 5.0\%$
Peristaltic Pump Flow	(0.001 ~ 3.0)mL/min	0.001ml/min	Within $\pm 2.0\%$
Negative Pressure of the Chamber	(-90~-120)Pa	0.1Pa	Within $\pm 1.0\%$
Working Temperature	0-50°C		
Data Save Ability	> 500000 sets (Scalable capacity)		
High Efficiency Particulate	$\geq 99.995\% @ 0.3\mu\text{m}$, $\geq 99.995\% @ 0.12\mu\text{m}$		

Air Filter Properties	
Median diameter of aerosol generator mass	Average diameter: $(3.0 \pm 0.3) \mu\text{m}$; Geometric Standard Deviation ≤ 1.5
Double Routes 6-lever Andersen Sampling apparatus	Level I $> 7 \mu\text{m}$; Level II: $(4.7 \sim 7) \mu\text{m}$; Level III: $(3.3 \sim 4.7) \mu\text{m}$; Level IV: $(2.1 \sim 3.3) \mu\text{m}$; Level V: $(1.1 \sim 2.1) \mu\text{m}$; Level VI: $(0.6 \sim 1.1) \mu\text{m}$
Size of Aerosol Chamber	$600 \times 80 \times 3 \text{mm}$ (Length×Diameter×Thickness)
Total number of positive quality control sampler particles	$(2200 \pm 500) \text{cfu}$
Negative Chamber Flow Speed	$\geq 5 \text{m}^3/\text{min}$
Size of Main Machine	$1300 \times 700 \times 2100 \text{mm}$ (L×W×H)
Power Supply	AC220V $\pm 10\%$, 50Hz
Noise of the Tester	$< 65 \text{dB(A)}$
Weight	$\approx 300 \text{kg}$
Power Consumption	$< 1500 \text{W}$