Mask Bacterial Filtration Efficiency (BFE) Detector
GB-XF1000

GBPI® TESTING INSTRUMENTS

Application

It is used to test the percentage of materials containing bacteria suspended particles at the specified flow rate. The dual gas path simultaneous comparison sampling method is used to improve the accuracy of sampling, which is suitable for the performance testing of bacterial filtration efficiency of medical surgical masks by

Features

1. Negative pressure experiment system to ensure the safety of operators;
2. Negative pressure cabinet with built-in peristaltic pump and A and B two-way six-stage Andersen;
3. The flow rate of the peristaltic pump can be set;
4. Dedicated microbial aerosol generator can set the volume of bacterial liquid spray flow, and the atomization effect is good;
5. Embedded high-speed industrial microcomputer control;
6. 10.4-inch industrial-grade high-brightness color touch display;
7. USB interface, support U disk data transfer;
8. Built-in high-brightness lighting in the cabinet;
9. Built-in leakage protection switch to protect operator safety;
10. Insulation and flame retardant between inner and outer layers;
11. The front switch glass door is convenient for experimenters to observe and operate;
12. Detachable stand, the height of stand is adjustable;
13. Support and move dual-purpose casters.

Standards

ASTMF2100, ASTMF2101, En14683 , YY0469-2011, YY/T 0969-2013

Specifications

Key Specification	Specification Range	Resolution	Accuracy
A Route Sampling Flow	28.3L/min	0.1L/min	Within±2.5%
Spray Flow	(8～10)L/min	0.1L/min	Within±2.5%
Peristaltic Pump Flow	(0.006～3.0)ml/min	0.001ml/min	Within±2.5%
Front Pressure of A Route Sampling Flowmeter	(-20～0)KPa	0.01KPa	Within±2.5%
Front Pressure of Spray Flowmete	(0～300)KPa	0.1KPa	Within±2.5%
Ambient Temperature	(-40～99)℃	0.1℃	Within±2.5%
Negative Pressure of the Aerosol Chamber	(-90～-120)Pa	0.1Pa	Within±2.0%
Negative Pressure of the Cabinet	-50～-200Pa		
Data Storage Ability	>100000 sets		
Vortex Mixer Test Tube Specification and Quantity	Φ16×150mmtest tube, 8pcs		
High Efficiency Particulate	Filter Efficiency≥99.99% for particles> 0.3μm		
Median diameter of aerosol generator mass	Average diameter: (3.0±0.3)μm; Geometric Standard Deviation≤1.5		
Size of Aerosol Chamber	600×85×3mm (Length×Diameter×Thickness)		

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