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How to detect a qualified mask according to the standard of each country



Mask Bacterial Filtration Efficiency (BFE) Tester

Product No: WKS-1010

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Description

WKS-1010 Mask Bacterial Filtration Efficiency (BFE) Tester is used to test the percentage of the mask material to filter out the suspended particles containing bacteria under the specified flow rate. It is suitable for the performance test of the bacterial filtration efficiency of medical surgical masks by metrological inspection departments, scientific research institutes, medical mask manufacturers and other related departments.

**Standard:**  
YY0469-2011、YY/T 0969-2013

Specifications:

Main parameter	Parameter range	Resolution	Accuracy
Sampling flow	28.3L/min	0.1L/min	Better than ±2.5%
Spray flow	(8 ~ 10)L/min	0.1L/min	Better than ±2.5%
Peristaltic pump flow	(0.006 ~ 3.0)ml/min	0.001ml/min	Better than ±2.5%
Front pressure of flowmeter	(-20 ~ 0)KPa	0.01KPa	Better than ±2.5%
Front pressure of Spray flowmeter	(0 ~ 300)KPa	0.1KPa	Better than ±2.5%
Ambient temperature	(-40 ~ 99)°C	0.1°C	Better than ±2.5%
Negative pressure of aerosol chamber	(-90 ~ -120)Pa	0.1Pa	Better than ±2.0%
Negative pressure of cabinet	-50 ~ -200Pa		
Data storage capacity	>100000 groups		
Specification and quantity of vortex mixer test tube	Φ16×150mm tube;8		
High efficiency air filter characteristics	Filtration efficiency for particles above 0.3um≥99.99%		
Mass median diameter of aerosol generator	3.0± 0.3μm , Geometric standard deviation≤1.5		
Integrated 6 Grades Andersen Sampler capture particle size	Grade I > 7μm , Grade II(4.7 ~ 7)μm , Grade III(3.3 ~ 4.7)μm , Grade IV(2.1 ~ 3.3)μm , Grade V(1.1 ~ 2.1)μm , Grade VI(0.6 ~ 1.1)μm		
Aerosol chamber specifications	60cm ( Length ) ×8.5 cm ( Diameter ) × 3cm ( Thickness )		
Total number of particles of positive quality control sampler	2200±500cfu		
Ventilation flow of negative pressure cabinet	≥5m3/min		
Size of negative pressure cabinet	755×400×990mm (W×D×H)		
Size of host	1200×630×2100mm (W×D×H)		
Instrument noise	<65dB(A)		
Total Weight	About150kg		
Power supply	AC220V±10% , 50Hz		
Power consumption	<1500W		

Features:

- Negative pressure experiment system to ensure the safety of operators;
- Negative pressure cabinet built-in peristaltic pump, integrated 6 Grades Andersen;
- The flow rate of the peristaltic pump can be set;
- The special microbial aerosol generator bacterial liquid spray flow rate can be set, and the atomization effect is good;
- Embedded high-speed industrial microcomputer control;
- 10.4 inch industrial grade high-brightness color touch screen;
- USB interface, support U disk data transfer;
- Built-in high-brightness lighting lamp in the cabinet;
- Built-in leakage protection switch to protect the safety of operators;
- Heat insulation and flame retardant between the inner and outer layers;
- The front opening and closing glass door is convenient for the experimenter to observe and operate;