

***GBPI***<sup>®</sup>

MASK TESTING MACHINE



Guangzhou Biaoji Packaging Equipment Co., Ltd.

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# ABOUT US

GBPI(Guangzhou Biaoji Packaging Equipment Co.,ltd) is a professional manufacturer focused on developing and producing mask testing instruments and packaging material test instruments. Founded in 2002 the company has received IOS 9001 certification and recognized as high-tech enterprise and software enterprise by national authority. We hold numerous technology patents and software certificates from the national authority, and gained awards for technological progress.

Our main products are face mask particulate filtration efficiency tester, bacterial filtration efficiency tester, water vapor permeability analyzer , oxygen permeability analyzer, gas transmission analyzer, universal tensile tester , coefficient of friction tester, heat seal tester, Spout sealing machine and so on. We are the lab solution and testing service provider for the food, pharmaceutical, packaging, printing industries, research institution and college with qualified instruments & service.The machines are running well in over 30,000 laboratories to guarantee the highest quality and service .

With over 8,000 square meter factory, laboratory and developing center , more than 50 experts come from chemical, electronic, mechanical and software field at home and abroad, we have been continuously researching and developing new products and improving our products, and provide the best technical service for customers. It is great honor to be a technical innovation enterprise and gain the government support.

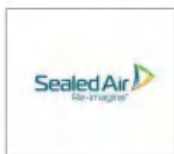
GBPI provide twenty four hour hotline service for international and domestic customers. Local agent and offices provide instant support. Our technical and after-sale service team help you to solve all the problems for easy operation and friendly using.

## OUR QUALIFICATION



## OUR REPRESENTATIVE CLIENTS

### Printing and packaging:



### Drink:



### Cosmetic&skin care:



### Food:



### Pharma&Health care:



### Research institute:



PRODUCT QUALITY IS OUR LIFE,  
CUSTOMER SATISFACTION IS OUR AIM.





## Application

It is to test the filtering efficiency of particulate protective masks and medical masks and to determine the resistance of ordinary fabrics and medical protective masks to the constant flow of airflow.

Applicable to medical device inspection centers, safety protection inspection centers, labor protection inspection centers, drug inspection centers, disease prevention and control centers, textile inspection centers, hospitals, mask manufacturers, etc.

Applicable (1) Glass fiber filter material (2) PP filter material (3) Covered film.

## Standards

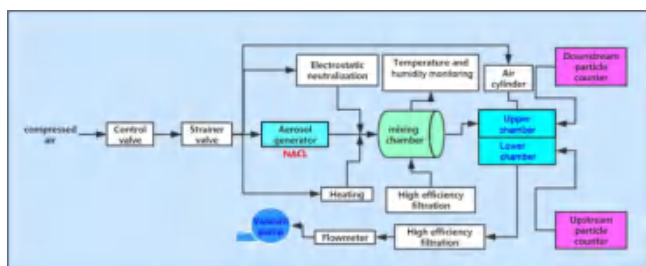
GB/T32610-2016, GB2626-2006, GB19082-2009, GB19083-2010  
GB24539-2009, YY0469-2011, YYT0969-2013

## Features

1. The cold-generating aerosol generator is used to produce continuous and stable aerosol particles, which is convenient for filling the solution.
2. The mixing chamber is adopted to stabilize the gas path design to stabilize the aerosol concentration and effectively monitor the temperature and humidity of the aerosol.
3. The Domestic brand particle counter is used, and the automatic cleaning function is added to prevent the particle counter from clogging and the test value is more accurate.
4. The particle leakage prevention design in the whole process protects the safety of experiment personnel.
5. Equipped with aerosol particles electrostatic charge neutralization device.
6. The pneumatic clamp is equipped with a protection device, which is safe and convenient to use.
7. Control system: The computer controls the test process, automatically collects data, and is equipped with a dedicated computer and test software.
8. The computer automatically tests the gas concentration and automatically calculates the filtration efficiency; it can save, output, query, and print the test data.
9. Industrial computer touch screen control, simple and intuitive operation.

## Principle

It is designed and manufactured in accordance with the standards of YY0469-2011 <Technical Requirements for Medical Surgical Masks> and GB2626-2006 <Respiratory Protective Equipment Self-priming Filtered Particle Respirators>. At the same time, it also refers to the advanced design concept of similar international equipment (such as the United States TSI company), based on the principle of <European Standard EN1822-3:1998 Single Filter Material Test>, but it is suitable for the current testing status of domestic related industries.

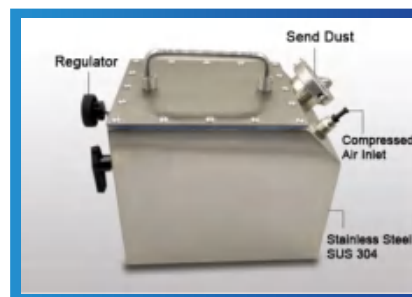


## Specifications

Item	Specification
Test range	0-99.999%
Filtration Efficiency	(20-100) L/min
Test Resistance Range	0-1000pa
Particle size	0.3、0.5、1.0、2.5、5.0、10.0μm
Dust source	Salt aerosol (NaCl solution)
Standard test area	100 cm <sup>2</sup> (Mask fixture can be selected)
Dimension	1220*630*1225mm
System power	<1500W
weight	250kg
Power supply	AC 220V, 50Hz

## Configuration

1, Aerosol generator 2, Aerosol mixing chamber 3, Air drier 4, Ultra-quiet vacuum pump 5, Domestic brand particle counter 6, Electrostatic neutralizer 7, Temperature and humidity monitor for mixing chamber

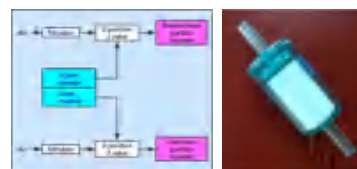


(9-1)



Schematic Diagram Mixing Chamber Mechanism

(9-2)



(9-3)

0.1um filter



### Application

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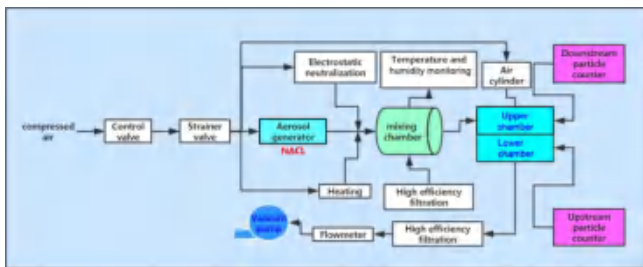
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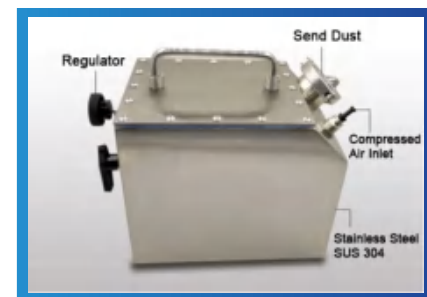
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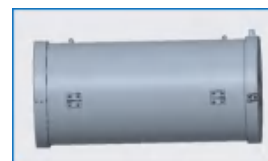


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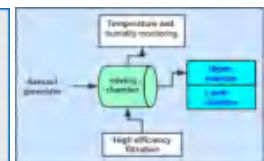
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(9-2)



(9-3)



0.1um filter

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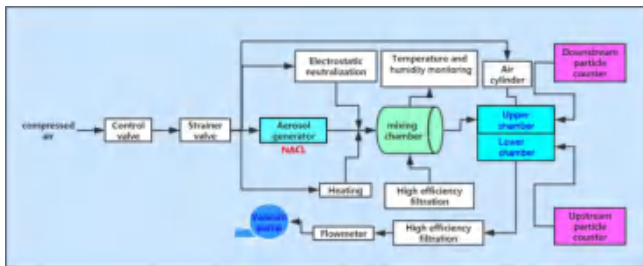
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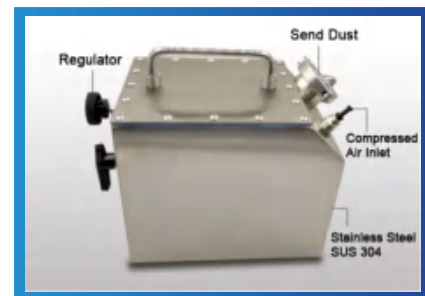


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Dust source	Oily Aerosol (DEHS/Paraffin Oil)
Standard test area	100 cm <sup>2</sup> (Mask fixture can be selected)
Dimension	1220*630*1225mm
System power	<1500W
weight	250kg
Power supply	AC 220V, 50Hz

## Configuration

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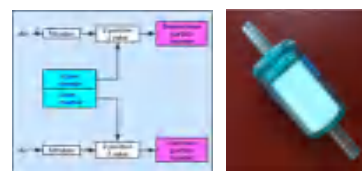


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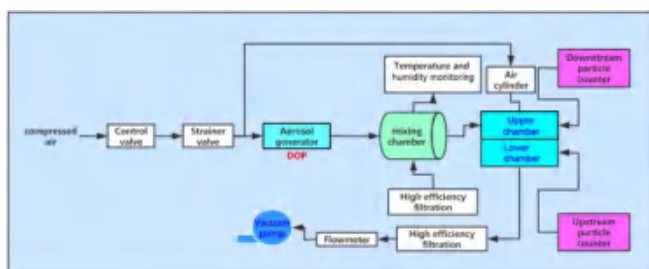
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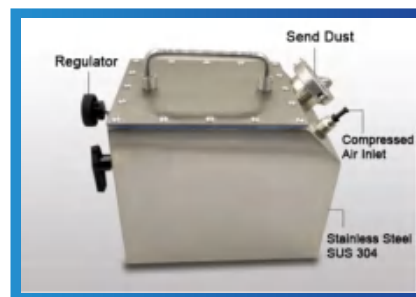
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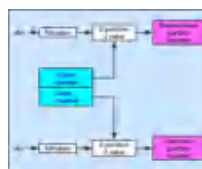


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Schematic Diagram Mixing Chamber Mechanism

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(9-3)



0.1um filter

### Configuration

1, Aerosol generator 2, Aerosol mixing chamber 3, Ultra-static vacuum pump 4, Import brand particle counter 5, Touch screen industrial computer 6, Temperature and humidity monitor for mixing chamber



### 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, ASTM F2101, 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)°C	0.1°C	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		Φ16×150mm test 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)	



### Technical Parameters

Item	Technical Parameters
Flowmeter range	0 L/min~100L/min
Flowmeter range accuracy	±2%
Micro-pressure measuring range	-1000Pa~1000Pa
Micromanometer accuracy	1Pa
Pumping capacity of suction	Not less than 100L / min
Ventilation	Constant (85 ± 1) L / min
Power Supply	AC220V, 50Hz

### Application

The respiratory resistance tester is suitable for determining the inhalation resistance and exhalation resistance of respirators and mask protective products under specified conditions, and for the related testing and inspection of common mask products by manufacturers of national labor protection article inspection agencies.

### Standard

GB2626-2006, GB/T32610-2016

### Features

1. The instrument consists of an air source that can adjust the flow rate, a human head mold specified in the standard, two intubation systems for inhalation and exhalation, and a respiratory resistance measurement system.
2. The flow sensor has high sensitivity and has a very small starting flow.
3. The flow sensor chip uses a thermal mass flow meter, which does not require temperature and pressure compensation, ensuring high-precision measurement of the sensor.
4. Multiple sensors are integrated on a single flow sensor chip, which greatly improves the range ratio of the sensor.
5. The zero point stability of the flow sensor is high, with full range and high stability, high accuracy over the full range, excellent repeatability, low power consumption, low pressure loss and fast response speed.
6. The data logger uses a graphic dot matrix LCD with a resolution of 128 × 64 and a full Chinese interface, which is easy to operate.
7. The data logger has 4M memory for measurement value recording.
8. The micromanometer sensor uses a two-wire system, with high accuracy and good stability; it is safe and reliable to use an explosion-proof design.
9. The range and zero point of the micromanometer sensor are continuously

adjustable, the damping is adjustable, there is no mechanical moving part, and the maintenance workload is small.

10. The whole instrument adopts special gas path conversion elements, which ensures the convenient and fast conversion of the two-pipe system of exhalation and inhalation.

11. Applicable to the latest national standard requirements, compatible with labor protection protective masks and daily protective mask standards



### Specifications

Item	Technical Parameters
Gas Source	Compressed Air
Air Flow	Adjustable 1 - 10L/min, (Standard Air Flow 8L/min)
Sample Size	Φ25mm
Differential Pressure Sensor Range	0~500Pa
Display Mode	Touch Screen
Power Supply	220V, 50Hz

### Application

Used for face mask air flow resistance and differential pressure testing to check breathability and can also be used to check differential pressure of textile materials gas exchanger.

### principle

The output of the air flow is set by a gas flow meter, the air flow passes through a certain area of the test sample, the current pressure is detected by a pressure sensor, and the pressure difference is calculated.

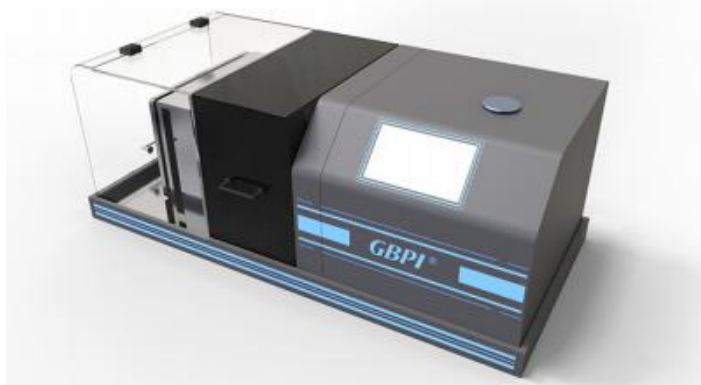
### Standards

EN 14683, YY0469-2011, YY0969-2013

### Features

- Equipped with special sample grip, easy to use.
- Built-in HD touch screen.
- Built-in micro printer, easy to print test results.
- Equipped with high-precision differential pressure sensor, digitally display the pressure difference between the two sides of the sample;
- Equipped with high-precision gas flow control, real-time digital display of air flow to stably control air flow, manually setting available.
- Test time can be adjusted according to test requirements





### Application

GB-BF20010 Mask Synthetic Blood Penetration Tester is suitable for the resistance of masks to the penetration of synthetic blood under different levels of test pressure.

### Principle

The mask material was tested with synthetic blood under continuous applied pressure, and the penetration of synthetic blood on the material was visually checked.

### Features

The instrument uses a gas source that can provide  $(20 \pm 1)$  kPa pressure to continuously pressurize the sample without being limited by the space of the test site.

The instrument has a pressure gauge to display the pressure, the pressure can be adjusted.

Use pressurized medium: compressed air.

The special stainless steel penetrating test slot ensures that the sample is firmly clamped, and the synthetic blood is prevented from splashing around.

Square metal barrier net: open space  $\geq 50\%$ ; bending  $\leq 5\text{mm}$  at 20kPa.

Digital display timer, accuracy  $\pm 1$  second.

The instrument has a clamp that can generate 13.5Nm torque.

### Standard

GB 19083-2010, YY0469-2011

### Specifications

Item	Technical Parameter
Pressure Range	0~50KPa
measurement Accuracy	$\pm 0.5\%$ FS
Spray Distance	300mm $\pm$ 10mm Adjustable
Nozzle Diameter	0.84mm
Jet Pressure	10.6 KPa (80 mmHg) 16 KPa (120 mmHg) 21.3 KPa (160 mmHg)
Jet Velocity	450cm/s, 550cm/s, 635cm/s
Dimensions	825mm $\times$ 440mm $\times$ 335mm
Power Supply	AC 220V, 50Hz



## Application

To test the tensile strength, peeling strength, heat sealing strength, tearing strength, piercing strength of plastic film, composite film, tape, soft packaging material, rubber sheets, paper, non-woven fabrics and other packaging materials, widely used in industries of plastic films, food, pharmaceuticals, inspection agency, research institute, college and so on.

## Standard

GB19083-2010, YY0469-2011, GB 2626-2006, YY/T0969-2013, YY/T0681.13-2014, GB/T32610-2016

## Features

Flexible and various interfaces and control methods, which can be used for multiple tests such as stretching, peeling, heat sealing, tearing, puncture, compression, bending, shearing, etc., setting of multiple parameters such as speed, thickness, and pinch.

High measurement accuracy, the test measurement accuracy can reach 0.5 grade.

The whole process is controlled by a computer, and the test is displayed online after the test. It can automatically perform data storage, data analysis and comparison functions, curve overlay recording function, on-line printing function, arbitrary zoom function.

The full digital control system cooperates with imported AC servo system and motor to control the zero displacement.

High-precision ball screw loading, stable loading, long testing machine life, long-term stability and energy saving.

Load / deformation measurement: With multiple sub-channels, it supports extended measurement of multiple sensors.

Wide speed range, suitable for high and low speed tests.

Open data structure, whether it is result parameters or process data, allows users to call randomly, users are very convenient. Self-editing report function, the data can be easily imported into an Excel table for easy post-processing.

Control and measurement unit can choose built-in type (simple appearance, save space) and external type (easy to upgrade, maintain and operate separately from the computer).

Have perfect limit protection, overload protection, emergency stop and other safety protection functions. Make the test run safe and reliable.

High sampling rate (100 times / second), make the test data more accurate.

The core uses imported parts, which is more accurate and more durable

Double-column table structure, beautiful and elegant, good rigidity.

Optional pneumatic fixture, suitable for a variety of fixtures.

## Specifications

Item	Technical parameters
Test force range	0~500N (0~1500N optional), 1400% elongation
Test accuracy	Within $\pm 0.5\%$ of the displayed value (grade 0.5)
Test speed	1-500mm/min (infinitely variable speeds)
Displacement	Within $\pm 0.5\%$ of the displayed value
Test width range	30mm (50mm can be customized)
Travel distance range	750mm
Instrument size	460mm × 525mm × 1430mm
Power	1000W
Power supply	AC 220V, 50Hz
Weight	86kg



### Specifications

Item	Technical Specification
Detector	hydrogen flame detector (FID) (optional for others)
Head space	20 Bits
Column oven size	240×210×240mm
Temperature range	4°C~450°C(Optional in 1°C increments)
Temperature controlling accuracy	0.1%
Temperature gradient	1°C
Air generator (optional)	Oil-free air generator with degreasing and water purification equipment, 3L / min
Hydrogen generator (optional)	Gas production 300ml / min, purity 99.999%
Nitrogen cylinder and pressure reducing valve	Contains 99.999% high-purity nitrogen and pressure reducing valves (preferably purchased locally)
Standard material	Ethylene oxide standard
workstation	Dual-channel, anti-control workstation
Capillary injection system	Split / splitless, with diaphragm cleaning function

### Standard

QBT 2929, GB/T10004-2008, YBB 00132002, GB 19083-2010, YY0469-2011, GB 2626-2006, YY/T0969-2013, YY/T0681.13-2014, GB/T32610-2016

### Brief Introduction

9802-K Ethylene oxide gas chromatography comes with reasonable structure, stable and reliable performance, simple operation and easy maintenance. It can be widely used in the production and scientific research departments such as petroleum, chemical industry, pesticide, medicine and hygiene, commodity inspection, environment protection, college and so on. It is to detect organic solvents, the solvent residue of printed packaging materials and the purity or content of a single solvent.

### Product Feature

- Economical and practical, excellent performance and quality.
- Adjustable gas circuit pressure, stable flow, with multiple gas circuit system of nitrogen, hydrogen, air, exhaust, shunt, cleaning.
- LCD screen displays temperature in real time.
- Cellular overall structure design, convenient to install and maintenance.
- Advanced noise resistant system, work quietly.
- Over-temperature protection function, with program protection and circuit protection double insurance.
- With data workstation, professional software support and powerful data analysis function.
- Display working condition and chromatogram curves; curves can be zoomed and moved.
- Professional test report, can export PDF file.
- Manual button switch, its function is equal to "start collecting", which is convenient for sampling.
- Easy to operate detector and baseline calibration.



## Technical Specification

Item	Technical Specification
Head mold automatic movement linear speed	(60±5)mm/s
Flame height	Adjustable 40±4mm
Flame at height from top of burner	(20±2)mm
Flame at temperature from the top of the burner	(800±50)°C
Distance between the top of the burner and the lowest point of the mask	(20±2)mm
Burner height	≤ 30mm
Metal die wall thickness	2~3mm, Flame and combustion resistance
Size	970*550*350mm
After flame time and smolder time timer	0~9999.9 s(±0.1s)
Power Supply	AC220V, 50Hz, 50W

## Standard

GB 19083-2010, YY 0469-2011, GB 2626-2006, GB 19083-2003

## Application

GB-ZR-10 is mainly used to test the combustion performance of masks after it contacts the flame at a certain linear speed. It is a special test instrument for the flame retardancy of a mask.

## Features

1. PLC + touch screen control system; make the test more convenient, operation and visualization.
2. The mask fixture is a metal human head mold, which can fully simulate the actual use of the mask.
3. Burner height is adjustable.
4. Burner positioning automatically.
5. Burning time and flame retardant time are automatically recorded and displayed digitally.
6. Equipped with flame temperature measuring probe and flame temperature display.
7. Automatic control system, automatic ignition.
8. The burner is equipped with a combustible gas interface such as propane (liquefied gas).
9. Automatic timing, automatic storage of test data, easy to retrieve experimental reports.



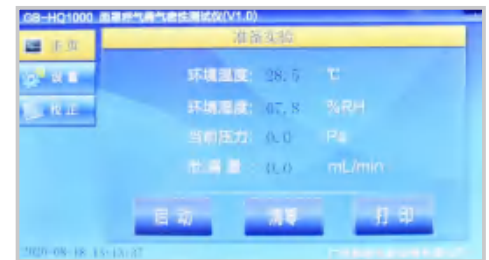


### Standard

GB 2626-2019, NIOSH

### Application

Used to detect the air tightness of the mask breath valve.



### Specifications

Item	Technical Parameter
Air resource	Compressed air
Vacuum pumping rate	About 2 L/min
Buffer container capacity	At least 5 L
Pressure sensor range	-1000Pa – 0Pa, accurate to 1%, resolution 1Pa
Flowmeter range	0 – 100 mL/min, accurate to 1%, resolution 0.1 mL/min
Display way	touch screen
Power Supply	220V, 50Hz

### Features

- Equipped with special sample grip, easy to use.
- Built-in HD touch display.
- Built-in micro printer, easy to print test results.
- Equipped with high-precision differential pressure sensor, digital display of sample leakage and current test pressure.
- Equipped with high-precision gas flow control, real-time digital display of air flow to stably control air flow, manually setting available.
- Equipped with high-precision vacuum pump to accurately control vacuum pressure.