

## GL-1000 Mask particle filtration efficiency tester

(Dual channel : Both with Nacl and Oil)



### Product overview

PFE tester is used to test the filtration performance, filtration efficiency and filtration effect of the mask. At present, the mask is mainly divided into air filtration mask and air supply mask. This testing instrument is applicable to medical equipment testing center, safety protection testing center, labor protection testing center, drug testing center, disease prevention and control center, textile testing center, hospital, mask and respirator manufacturing enterprises, etc. It meets the technical requirements of GB 2626-2006 respiratory protective equipment - self suction filtration type particle respirator, GB 19083-2010 medical protective mask, and GB / T 32610-2016 daily protective mask.



## Equipment composition and principle

The instrument is composed of Salt spray generator (NaCl), Oil mist generator (DOP), data acquisition software, testing product tooling device, concentration detector, filtered concentration detector, computer data calculation device, pressure regulating device and tooling pipeline testing auxiliary device.

It is implemented by the photometer in the system to detect the concentration of mask before and after filtration, so as to detect the protective efficiency of mask particles.

## Technical features

1. With 7-inch high-definition LCD touch screen, the content is more intuitive and the operation is more simple.
2. It is equipped with a special salt spray generator and oil mist generator, which can generate aerosols of specific particle size and concentration;
3. Equipped with a series of special clamps, suitable for the detection of various masks.
4. Built in high life sensor module, sampling time accumulation.
5. Automatic control of aerosol generation, automatic calculation of capture efficiency, and reduction of human intervention.
6. Built in high-precision electronic flowmeter and high-performance sampling pump to ensure flow stability.
7. With automatic pneumatic clamping function.
8. Equipped with electrostatic eliminator.
9. Three levels of authority of GMP users.
10. Single and group statistical analysis of test results can be carried out.
11. With ISP online control and upgrade function, the test function can be changed remotely as required.
12. The special computer communication software can carry out the real-time display of the test, the analysis and processing of the data, and the data storage.



## Technical parameters

Item	Model	GL-1000 Mask particle filtration efficiency tester (Dual channel)
Detection range of filter efficiency		0-99.999%
Accuracy		Grade 1
Range of Flow controller for filter efficiency detection		32L/min, 85L/min, 95L/min (automatic flow control)
Flow controller accuracy		Grade 1.5
Sampling frequency		1-9999 times/min
Count median diameter		Salt particles (0.075 ± 0.02) μm Oil particles (0.185 ± 0.02) μm
Geometric standard deviation of particle size distribution		salt particles ≤ 1.86 oil particles ≤ 1.60
Power supply		AC220V 50Hz
Net weight		100kg

## Instrument configuration

Mainframe, Professional software, Salt spray generator (NaCl), Oil mist generator (DOP) , Automatic flow controller.