



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.

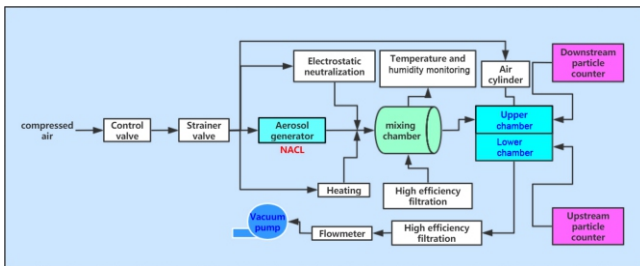
Applicable (1) Glass fiber filter material (2) PP filter material (3) Covered film.

Standards

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

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.

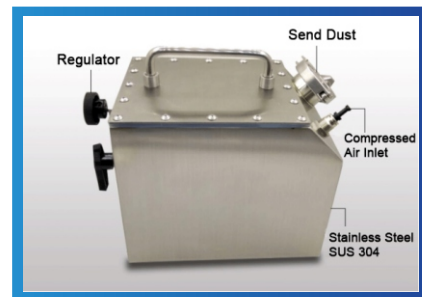


Features

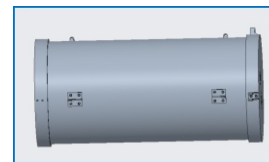
1. The cold-generating aerosol generator is used to produce continuous and stable aerosol particles, which is convenient for filling the solution.
2. The mixing chamber is adopted to stabilize the gas path design to stabilize the aerosol concentration and effectively monitor the temperature and humidity 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.

Specifications

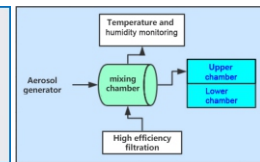
Item	Specification
Test range	0-99.999%
Filtration Efficiency	(20-100) L/min
Test Resistance Range	0-1000pa
Particle size	0.3、0.5、1.0、2.5、5.0、10.0μm
Dust source	Salt aerosol (NaCl solution)
Standard test area	100 cm ² (Mask fixture can be selected)
Dimension	1220*630*1225mm
System power	<1500W
weight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



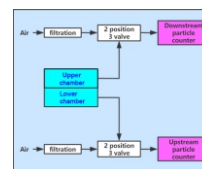
(9-1)



Schematic Diagram Mixing Chamber Mechanism



(9-2)



(9-3)



0.1um filter

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



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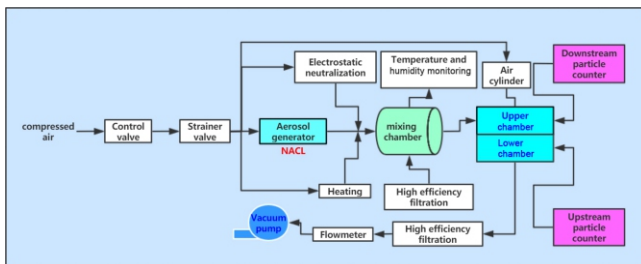
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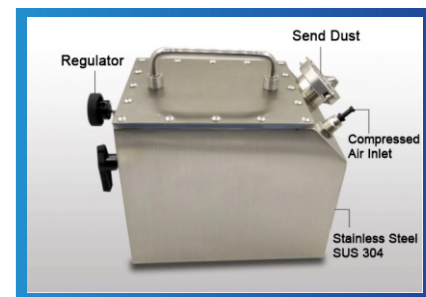
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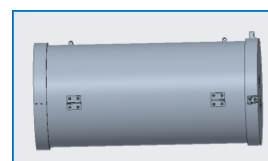


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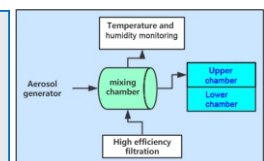
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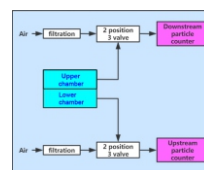
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Schematic Diagram Mixing Chamber Mechanism



(9-2)



(9-3)



0.1um filter

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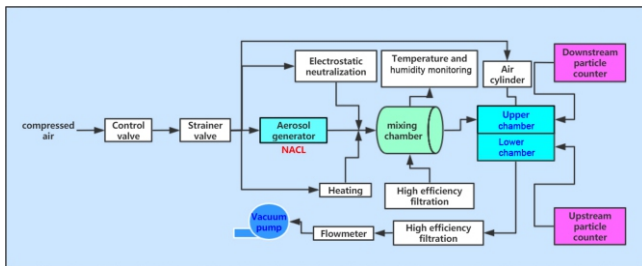
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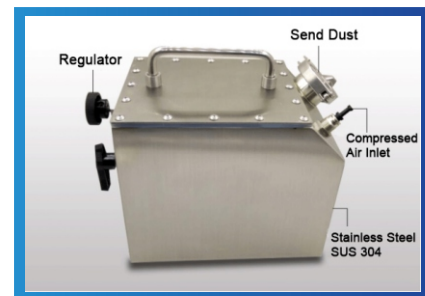
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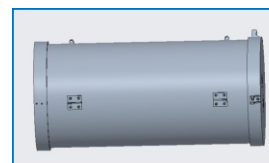


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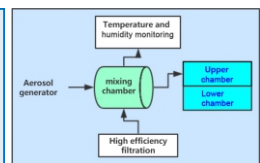
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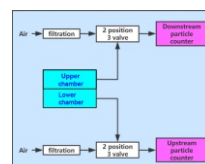
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Schematic Diagram Mixing Chamber Mechanism



(9-2)



(9-3)



0.1μm filter

Configuration

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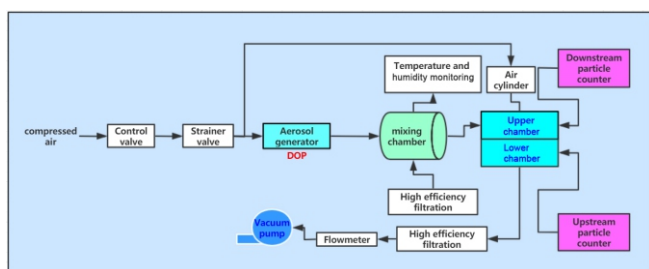
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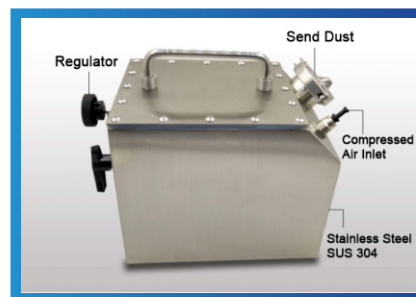


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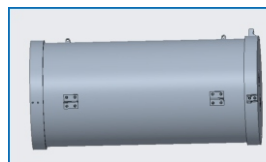
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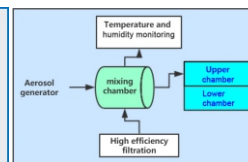
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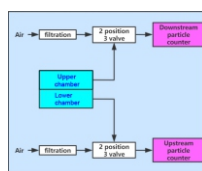
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0.1μm filter