



Aerosol Generator

MODEL 3990-01

The Model 3990-01 of Laskin-Nozzle aerosol generator is portable, reliable and yet rugged. After the aerosol solution is injected, clean compressed air of 20 psi (0.14 Mpa) is introduced and when the flow is 810 cfm (1370 m³/h), the output concentration will be 100 µg/L through adjusting 1 to 6 pics of Laskin-Nozzle.

After the high-efficiency particulate air (HEPA) filter is put into operation, if there is any leakage point or leakage due to insufficient installation, the predetermined purification effect will not be achieved, and the high-efficiency particulate air filter must be tested for leakage. Due to the low concentration of air dust in the upstream of the tested high-efficiency particulate air filter, it is necessary to supplement the dust with an aerosol generator to meet the test conditions. Using aerosol concentration test instruments, such as aerosol photometer, to test the concentration of suspended particles in the upstream of the high-efficiency particulate air filter and conduct uniform scanning test in the downstream, so as to know the leakage rate of the tested high-efficiency particulate air filter, judge whether it leaks and determine the leakage point for repair reference.



■ Applications

- Testing leakage rate for HEPA filter
- Nuclear facilities and fuel
- Pharmaceutical industries and electronic industries
- Medical operating rooms and clean rooms
- Biosafety cabinets and clean benches
- Food processing and scientific experiments
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■ Key Features & Benefits

- Adjustable aerosol concentration output to meet different application requirements
- Air flow rates from 50 to 8100 cfm for a wide variety of testing requirements
- Optional reagents: PAO, DOP...
- No need for power supply, only compressed air supply is required to work
- Stainless steel portable housing, pressure resistant design, 3-inch standard sanitary flange outlet
- Large-capacity cavity to ensure long-term dust generation

Laskin-Nozzle Aerosol Generator 3990-01



Ideal Portable Solution

The 3990-01 of Laskin-Nozzle aerosol generators is durable, portable, and reliable, which can generate 10~100ug/L polydisperse suspended particles. It is your ideal one that is used to test within local FFU and biological safety cabinets, clean benches and other tests in clean rooms. It can also be used in air conditioning and ventilation systems. Due to the limitation of the flow range, there are usually multiple dust source introduction points to implement segmented dust generation. If it is necessary to generate dust in the air-conditioning and ventilation system for all terminal high-efficiency filters, it is recommended to use the aerosol generator 3990-02 with a larger flow range and thermal principle.

SPECIFICATIONS

Model	3990-01
Flow Range	50~8100 cfm(1,415~229,230L/min)
Concentration Range	100 µg/L @ 810 cfm 10 µg/L @ 8100 cfm
Reagents	PAO, DOP, Polydisperse (cold)
Air Source	3~18cfm (85~510L/min)@20psi (0.14MPa)
Generator Type	1~6 Laskin-Nozzles
Dimensions	280×270×250mm
Weight	8.4 kg
Power Source	no need
Essential Accessories	Host, Hose Adapter Kit, Operating Manual
Optional Accessory	Carrying Case

Note: In case of changes in products design, specifications, and parameters, the latest data provided by our company shall prevail without prior notice.

If the external air source pressure is greater than 20psi (0.14Mpa), the output concentration will increase, if it is lower than 20psi (0.14Mpa), the output concentration will decrease.
If testing the concentration of polydisperse suspended particulate matter upstream of the high-efficiency filter, it is recommended to open 2 or more Laskin-Nozzles.

Flexible Solution

It can produce polydisperse suspended particles that meet industry standards, and the concentration output can be adjusted according to actual needs to meet various application requirements. The 3990-01 can perfectly cooperate with the aerosol photometer 3990 to test the leakage rate of the HEPA filter, which is convenient for the identification and quantification of the leak point. The reference concentration range for repair can be 10~100ug/L, but different flows have been specific.

Rugged Design

The 3990-01 Laskin-Nozzle type aerosol generator features a stainless-steel shell, which will not deform the shell due to excessive pressure and is easy to clean. Large-capacity chamber, equipped with stainless steel spout connector, just need to adjust to the appropriate pressure to work.

Hose Adapter Kit

An optional hose adapter kit (hose not included), used to introduce aerosol remotely, connects easily to the standard outlet collar.



Heavy Duty Case

Due to the heavy weight of the generator, a portable heavy-duty case is sometimes required when moving or transporting. Internal scientific design, reasonable placement of related components



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