



# Aerosol Generator

## MODEL 3990-03

Model 3990-03 is a portable and rugged aerosol generator with Laskin-Nozzle and a built-in compressor that does not require any other air supply. After the aerosol solution is injected, it can work when powered on. When adjusting pressure is 20 psi(0.14Mpa) and the flow range is within 50~2000cfm(85-3400m<sup>3</sup>/h),the aerosol concentration will up to 10~100ug/L.

Model 3990-03 aerosol generator will be used for bio-safety cabinets, laminar flow hoods, negative pressure filter units, filter modules or movable cleaning units because of its flow range  $\leq 2000$  cfm(3400m<sup>3</sup>/h).

After the high-efficiency particulate air 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. Considering 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

### ■ Key Features&Benefits

- Built-in compressor,no external air required
- Aerosol concentration from 10~100ug/L to meet various requirements
- Air flow rates from 50~2000 cfm to test a wide variety of filter systems
- Kinds of reagents for option:PAO,DOP...
- Stainless steel portable housing, pressure resistant design
- Large-capacity cavity to ensure long-term dust generation

# Laskin-Nozzle Aerosol Generator

## 3990-03



### Ideal Portable Solution

The 3990-03 Laskin-Nozzle type aerosol generator has a built-in compressor and can work without other air sources. Rugged, portable and reliable. 10~100ug/L polydisperse suspended particles can occur. It is the best dust generating equipment for biological safety cabinet, laminar flow, negative pressure filter unit, filter module or movable clean unit. If it is necessary to generate dust in the air-conditioning ventilation system for all or local high-efficiency filters, it is recommended to use the aerosol generator 3990-02 with a larger flow range.

### SPECIFICATIONS

Model	3990-03
Flow Range	50~2000 cfm (85~3,400m <sup>3</sup> /h)
Concentration Range	100µg / L @ 200 cfm 10µg / L @ 2000 cfm
Reagents	PAO, DOP, Polydisperse (cold)
Air Source	Built-in Compressor
Generator Type	2 or 6 Laskin-Nozzles
Dimensions	380×270×260mm
Weight	18.5 kg
Power Source	AC 100~240V 50/60Hz
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.



### Performance Guaranteed

The 3990-03 has a calibrated pressure gauge to monitor the pressure adjustment value in real time, only 20psi (0.14Mpa), which meets the electrical safety requirements. It can perfectly cooperate with the aerosol photometer 3990 to test the leakage rate of the high efficiency filter. It is convenient for the identification and quantification of leakage points for repair reference. The concentration range is able to achieve 10~100ug/L, but the flow rate is different due to differing models.

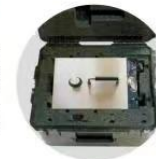
### Easier Operation

3990-03 will not happen deformation caused by excessive pressure and is easy to clean due to stainless steel shell. Equipped with oil-viewing window and oil mist discharge port, the stainless steel spout connector allows the polydisperse suspended particles lead to the test end at a remote location and ensure not to leak.



### 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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- Excellent after-sales service by partners certified by GTI service system training
- Attentive service, complete parts production, timely repair

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