

4B Series Laskin-Nozzle Aerosol Generators



The 4B series family of Laskin-Nozzle aerosol generators are durable, portable, and reliable. Designed for testing filter systems ranging from small glove boxes to large cleanroom plenums, ATI Laskin-Nozzle generators provide the ideal solution for creating a polydispersed, submicron aerosol to certify and qualify HEPA filter systems.



Applications

- Independent filter certifiers
- Nuclear facilities
- Pharmaceutical manufacturers
- Medical facilities & cleanrooms
- Biosafety cabinets & fume hoods*

* per NSF/ANSI 49

Key Features and Benefits

- Adjustable aerosol concentration output to meet different application requirements
- Air flow rates from 405 to 8,100 cfm for a wide variety of testing requirements
- Flex-fuel capable, allows for the use of a variety of reagents
- Lightweight and rugged, ideal for remote locations



4B SERIES LASKIN-NOZZLE AEROSOL GENERATOR

A Tough, Portable Solution

The 4B series of Laskin-Nozzle aerosol generators are durable, portable, and reliable. Designed for testing filter systems ranging from small glove boxes to large cleanroom plenums, ATI Laskin-Nozzle generators provide the ideal solution for creating a polydispersed, submicron aerosol to certify and qualify in-situ filter systems. End users include independent filter certifiers, government and commercial nuclear facilities, pharmaceutical manufacturers, medical facilities, as well as other industrial applications.

PRODUCT SPECIFICATIONS

	4B	4B Lite
Dimension (L x W x H)	25 cm x 28 cm x 26 cm (10 in. x 11.25 in. x 10.5 in.)	19 cm x 28 cm x 26 cm (7.6 in. x 11.25 in. x 10.5 in.)
Weight	7.3 kg (16 lb)	5.5 kg (12 lb)
Aerosol Output	50 – 8,100 cfm	50 – 4,050 cfm
Concentration*	100 µg/l @ 810 cfm 10 µg/l @ 8,100 cfm	100 µg/l @ 405 cfm 10 µg/l @ 4,050 cfm
Generator Type	1 to 6 Laskin-Nozzles	1 to 3 Laskin-Nozzles
Compressed Air	min 2.65 cfm/nozzle @ 20 psig	
Aerosol Type	Polydispersed (cold)	

If more than 20 psig is used, the output concentration will increase and conversely, if less than 20 psig is used, the output concentration will decrease.

*If using more than two nozzles, upstream concentrations should be measured.

A Flexible Solution

The 4B family of aerosol generators produce an industry standard true Laskin III-A repeatable aerosol and feature adjustable aerosol concentration output to meet multiple application requirements. These generators are used in conjunction with an aerosol photometer to measure the aerosol penetration of an individual filter or filter system, typically to identify, quantify and repair leaks. Aerosol concentration output varies by generator model; however concentrations can be achieved from 100 µg/l down to 10 µg/l at airflows ranging from 405 to 8,100 cfm*.

Rugged Convenient Design

The 4B family features rugged stainless steel, with easily cleanable construction, a large fill port, jet and pressure control, and a standard three-inch sanitary fitting outlet collar.

Optional Hose Adaptor Kit

A hose adaptor kit (hose not included), used to introduce aerosol remotely, connects easily to the standard outlet collar.



Optional Heavy Duty Case

Heavy duty, water-proof transport case with wheels. Accommodates either a 4B, 4B-Lite or 6D generator, with space for optional hose adapter with cap to prevent spills. (Universal case with 6D generator shown).



Service & Training @ ATI

- OEM calibration, maintenance & repair
- ATI Certified Operational, Service & Maintenance Training (ask for details)
- Quality testing for HEPA filters & protective masks available at our ISO-9001 registered, NQA-1 & DOE audited Test Laboratory