



**New Star
Environmental LLC**

"Providing Instrumentation for Air Quality"

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N6 Single Stage Viable Impactor

A modified single stage impactor referred to as NIOSH-6 (N6) can be used in place of the original 6-stage impactor and results in equivalent volumetric data with fewer plates used.

The Single Stage (N6) Microbial Sampler was designed by NIOSH (National Institute for Occupational Safety and Health) for estimating the total concentration of viable airborne microorganisms. The sampler has been used over a wide range of airborne fungal concentrations (10 to 3000 CFU/m³) and found to be comparable to the standard 6-stage impactor in terms of both precision and accuracy for estimating total airborne fungal concentration.

The N6 also meets specifications developed by the American Conference of Governmental Industrial Hygienists (ACGIH) Committee on Bioaerosols for the sampling and assessment of bioaerosols in the workplace. The sampler typically is recommended for the detection of fungi, bacteria and thermophilic actinomycetes.

A 100 x 15 mm plastic Petri dish (or glass Petri dish designed for the 6-stage sampler) containing culture media is placed on top of the N6 base plate and at least 0.1 m³ of sample is sampled through the impactor at 28.3 liters per minute (1 CFM). The N6 inertial impactor obtains a sharp cut-off diameter of 0.65 µm.

FEATURES

- Spring retainer for easy disassembly & cleaning
- Single stage collection allows more samples in less time
- Dp50 aerodynamic cut-point of 0.65-microns
- 28.3 liter per minute (1CFM) flow rate
- High collection efficiency, reproducibility and accuracy
- Corrosion resistant aluminum impactor components

The N6 consists of an aluminum inlet cone, one jet stage and a base plate with hose barb held together by three spring clamps and sealed with O-ring gaskets. The jet stage has 400 precision machined jet orifices. The N6 Single Stage Sampler operates at a flow rate of 28.3 lpm (1 CFM) and provides a well documented cut-off diameter of 0.65 µm.

APPLICATIONS

- Office environments
- Indoor air quality studies
- Pharmaceutical production
- Research animal facilities
- Wastewater treatment plants
- Cosmetic manufacturing
- Filter & clean room efficiency studies
- Brewery fermentation
- Animal (meat) processing
- Hospital environments
- Grain processing & transportation
- Agricultural emissions including silos & grain elevators
- Hotels, schools, nurseries & homes for the elderly

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Specifications:

Impactor Dimensions	2.9-inches (7.4cm) high; 4.13-inches (10.5cm) diameter
Impactor Weight	1.25 pounds (0.57kg)
Pump Dimensions, L x W x H	11 x 5 x 5-inches (28 x 12.7 x 12.7cm)
Pump Weight	11 pounds (5kg)
Carrying Case Dimensions, L x W x H	22 x 6 x 10-inches (55.9 x 15.2 x 25.4cm)
Carrying Case Weight	4 pounds (1.8kg) empty, 16.25 pounds (7.4kg) with impactor & pump
Flow Rate	1 CFM (28.3 lpm)
Petri Dish	100 x 15 mm plastic Petri dish or glass Petri dish designed for 6-stage sampler