



PDHonline Course C215 (2 PDH)

Indoor Mold Sampling

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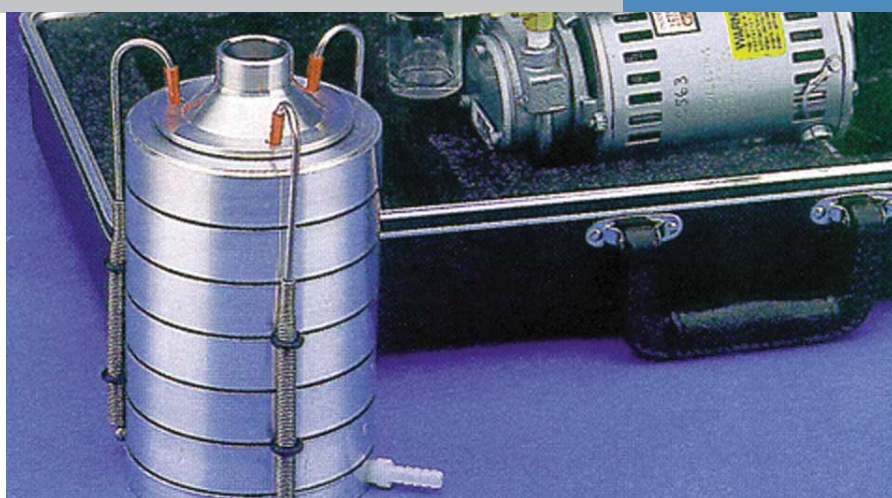
2020

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Thermo Scientific Six Stage Viable Andersen Cascade Impactor



Key Features

- The Original Andersen Cascade Impactor (ACI) known as the world's reference bioaerosol sampler
- Microbial impactor with verifiable flow rate
- Based on the inertial impaction principle
- All particles can be directly related to human lung deposition
- Spring action retainer clamps for easy disassembly and cleaning

The Thermo Scientific Six Stage Viable Andersen Cascade Impactor (ACI) is a bioaerosol and microbial particle sizing sampler designed to measure the concentration and particle size distribution of aerobic bacteria and fungi in intramural or ambient air. All particles collected, regardless of size, shape or density are aerodynamically sized and can be directly related to human lung deposition.

Each sampling stage has up to 400 precision machined jet orifices with diameters ranging from 1.81mm on the first stage to 0.25mm on the sixth stage. When air is drawn through the sampler, multiple jets of air in each stage direct airborne particles, of a given size, onto the surface of the collection plate. The Six Stage Viable ACI requires an exact flow rate of 28.3 lpm for maximum collection efficiency.

The Six Stage Viable ACI is comprised of an aluminum inlet cone, six jet stages, six glass Petri dishes and a base plate that is held together by three spring action retainer clamps and sealed with o-ring gaskets. The spring action retainer clamps allow for easy disassembly and cleaning. An optional carrying case is available and will accommodate the impactor and Petri dish as well as the vacuum pump.

Applications Include:

- Indoor air quality studies
- Pharmaceutical production
- Animal care laboratories
- Wastewater treatment plants
- Cosmetic manufacturing
- Filter & clean room efficiency studies
- Brewery fermentation
- Food processing area
- Hospital environments
- Grain processing and transportation
- Agricultural emissions

Product Specifications

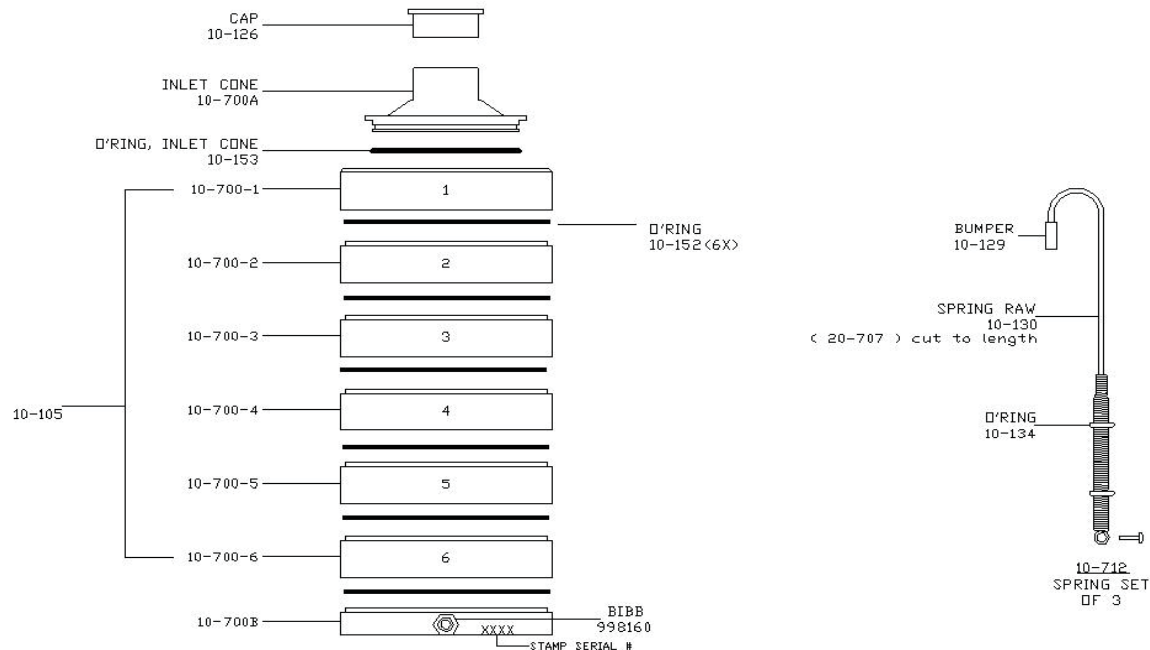
To maintain optimal product performance, you need immediate access to experts worldwide, as well as priority status when your air quality equipment needs repair or replacement. We offer comprehensive, flexible support solutions for all phases of the product life cycle. Through predictable, fixed-cost pricing, our services help protect the return on investment and total cost of ownership of your Thermo Scientific air quality products.

Thermo Scientific Six Stage Viable Andersen Cascade Impactor

Flow Rate	28.3lpm
Sharp Cut-off Diameter (D50)	0.65 - 7.0+ μm
Physical Dimensions	
<i>Impactor</i>	7.5" (19.7cm) Height x 4.13" (10.5cm) Diameter
<i>Vacuum Pump & Case</i>	22" (55.9cm) W x 10" (25.4cm) H x 4.5" (11.4cm) D
Weight	
<i>Impactor</i>	2.75lbs (1.25kg)
<i>Vacuum Pump & Case</i>	8.6lbs (3.9kg)
<i>Carrying Case</i>	8lbs (3.6kg)
Calibration	NIST traceable flow calibration (optional)

Additional Information

Thermo Scientific Six Stage Viable Andersen Cascade Impactor Assembly



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This product is manufactured in a plant whose quality management system is ISO 9001 certified.

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