



EIGHT-STAGE ANDERSEN CASCADE IMPACT SAMPLER (ACI)

Eight-Stage Andersen Cascade Impact Sampler (ACI) is a multi-stage, porous device designed to analyze the aerodynamic properties of inhalable fine particles. It features multiple cascade impactors and a membrane in the final stage.

For MDI and spray testing, the top cover connects to an artificial larynx and generator using an adapter. For DPI testing, a pre-separator should be installed on the top layer to capture large amounts of non-inhalable powder particles. The sampler complies with USP, Ph. Eur., and ChP 2020 standards for aerodynamic characterization of inhaled fine particles.

APPLICATIONS

Standards

- United States Pharmacopeia (USP) <601> Aerosols, Nasal Sprays, Metered-Dose Inhalers, and Dry Powder Inhalers
- European Pharmacopoeia (Ph. Eur.) 2.9.18: Preparations for Inhalation - Aerodynamic Assessment of Fine Particles
- Chinese Pharmacopoeia (ChP) 2020 - Inhalation Product Testing

Eight-Stage Andersen Cascade Impact Sampler (ACI)

28.3L/min configuration

Eight-Stage Andersen Cascade Impact Sampler (ACI)

60L/min configuration

Eight-Stage Andersen Cascade Impact Sampler (ACI)

90L/min configuration

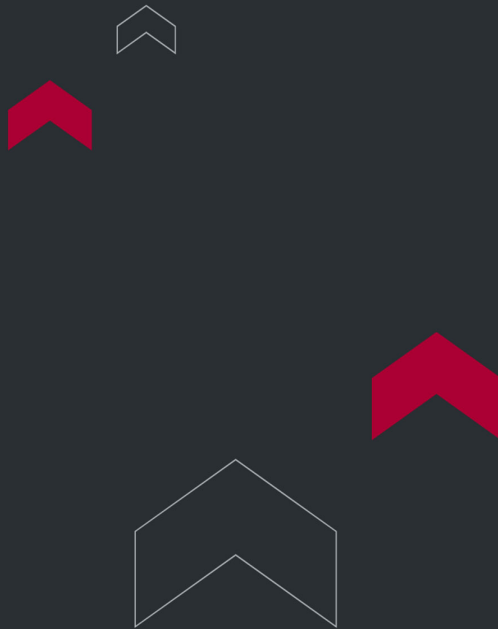
FEATURES

- 1. Pre-separator ensures accurate separation of coarse particles.
- 2. Sampling flow rate: 28.3L/min (optional 60L/min, 90L/min).
- 3. Low cost and easy operation.
- 4. Effectively eliminates particle rebound and entrainment.
- 5. USP, Ph. Eur. and ChP compliant.

TECHNICAL SPECIFICATIONS

Category	Specifications
Main Components	9 stainless steel impactors 9 stainless steel collection cups 1 induction port 1 pre-separator
Sampling Particle Size	0.4 - 9 micron
Dimensions	Impactor: ϕ 97mm $\times$ 221mm Pre-separator: ϕ 76mm $\times$ 148mm

Category	Specifications
Weight	Total: 8.1kg (Impactor: 5.1kg, Pre-separator: 1.6kg, Induction port: 1.4kg)



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