



DPI AERODYNAMIC CHARACTERISTICS DETERMINATION

Specifically crafted for aerodynamic determination of DPI (Dry Powder Inhalers), this advanced system includes a smart pump, pressure detection controller, flow meter, multi-stage cascade impactor, pre-separator, and dry powder generator.

The multi-stage cascade impactor meets instrument qualification standards for analyzing aerodynamic properties of inhaled fine particles as outlined in USP, Ph. Eur., and ChP 2020 guidelines.

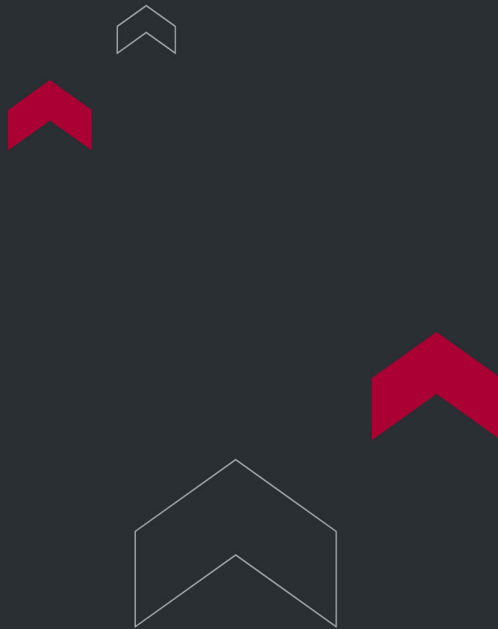
APPLICATIONS

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

FEATURES

1. **Regulatory Compliance:** Fully compliant with USP, Ph. Eur., and ChP standards.
2. **Flow Rate Range:** Adjustable from 15 L/min to 100 L/min, with optional air pumps for different flow rates.
3. **Precision Monitoring:** Accurate atmospheric pressure measurement with a pressure ratio (P3/P2) deviation of no more than 0.5 after adjustment.
4. **Pre-Separator Integration:** Includes a 7-stage impactor and micro-orifice collector (MOC) for efficient sample collection and preparation for subsequent tests.
5. **Convenient Maintenance:** Features eight removable collection cups for easy cleaning and quick replacement.



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