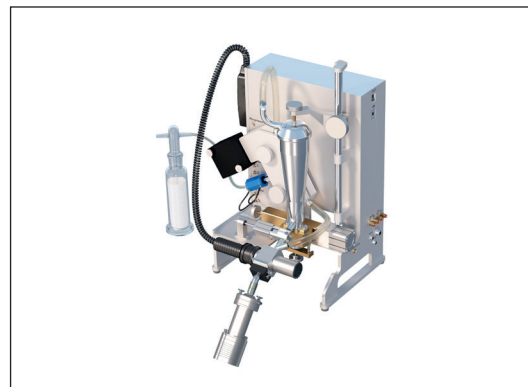
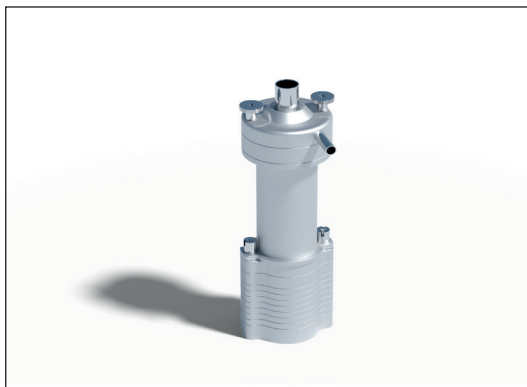




## Applications

The particle size determination kit enables characterization of the aerosol and will present the Mass Median Aerodynamic Diameter, MMAD, as well as the Geometric Standard Deviation, GSD.

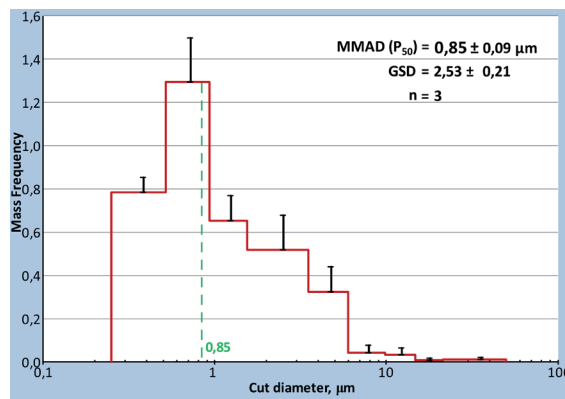


### Features

- > Coupling of Marple cascade impactor to PreciseInhale
- > Possibility to change aerosol exposure flow rate and aerosol generation pressure
- > Flexible source of material: dry powder, inhaler and solution via nebulizer
- > Flexible flowrate up to 2.0 L/min

### Benefits

- > Measurement of mass median aerodynamic diameter (MMAD)
- > Measurement of geometric standard deviation (GSD)
- > Knowledge about the particle size distribution and dispersity of the aerosol
- > Comparison of MMAD and GSD for particles generated under different settings



Particle size determination including MMAD, GSD of a typical aerosolized substance.

# Particle Size Determination Kit

Art. No.: PIAEpsd1

Inhalation  
Sciences 

## Technical specifications

<b>Dimensions</b>	6.0 x 7.5 x 16.5 cm (W x D x H)
<b>Weight</b>	0.415 kg
<b>Aerodynamic particle cut-point</b>	21 to 0.5 µm
<b>Range, stage cut-points</b>	21.3 and above, 14.8, 9.8, 6.0, 3.5, 1.55, 0.93, 0.52 and final
<b>Verified generation modules</b>	Dry powder aerosol generator Inhaler aerosol generator (DPI, pMDI) Nebulizer aerosol generator
<b>Suitable exposure object</b>	Glass fiber filter Grade A and F, stainless steel inserts
<b>Exposure flow rate</b>	50 – 500 mL/min
<b>Inhalation flow rate</b>	0 - 102 L/min
<b>Consumables</b>	Cascade impactor stage 1-8 filter GF/A, 100 pcs (PICps1-8x100) Cascade impactor end filter GF/F, 100 pcs (PICps34x100) Cascade impactor stage 1-8 steel inserts, 8 pcs (PICps1-8x8)
<b>Components</b>	8-stage Marple cascade impactor Dilution tunnel Particle size distribution analysis tool