

# MAG 3000



Aerosol generator for the generation of monodisperse and uncharged droplets,  $dp = 0.2 - 8 \mu\text{m}$

## Benefits

- Particle size adjustable from approx.  $0.2$  to  $8 \mu\text{m}$  for DEHS (other particle materials upon request)
- Reproducible particle size adjustment (uncharged aerosols)
- Minimal use of the saline solution, approx.  $20 \text{ mL}$  in  $10 \text{ h}$
- No drying system, no silica gel
- Reliable bypass adjustments for evaporator and core source
- Rapid particle size modification up to factor  $2.5$  within approx.  $10$  seconds using the bypass adjustments
- Robust design
- Reliable function, high reproducibility
- Low maintenance
- Reduces your operating expenses

## Applications

- Calibrating particle measurement devices
- Comparison of device parameters in relation to particle size:
  - Resolution capacity
  - Classification accuracy
  - Lower counting efficiency rate
  - Upper counting efficiency rate
  - Border zone error
- Inhalation tests
- Tracer particles/flow visualization
- Filter inspection

<https://www.palas.de/product/mag3000>

## Datasheet

Parameter	Description
Volume flow	3.5 – 4.5 l/min
Power supply	115 – 230 V, 50 – 60 Hz
Dimensions	610 • 300 • 300 mm (H • W • D)
Weight	Approx. 22 kg
Particle material	DEHS, others on request
Carrier/dispersion gas	N <sub>2</sub>
Aerosol outlet connection	Outlet 1: Ø <sub>inside</sub> = 8 mm, Ø <sub>outside</sub> = 10 mm; Outlet 2: Ø <sub>inside</sub> = 18 mm, Ø <sub>outside</sub> = 20 mm
Mean particle diameter (number)	0.2 - 8 µm (DEHS)
Geometric standard deviation (number)	< 1.15
Maximum concentration (number)	10 <sup>6</sup> particles/cm <sup>3</sup>
Filling quantity	300 ml (DEHS), 70 ml (salt solution)

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