

# RBG SOLO



Generation of test aerosols from powders, pollen, and spores with integrated pump independent from pressurized air supply, mass flow approx. 0.04 – 800 g/h

## BENEFITS

- Very high short-term and long-term dosing constancy
- Dispersion of virtually all non-cohesive dusts
- Easy and fast exchange of different solid material reservoirs and dispersing covers
- Integrated pump replaces compressed air supply
- Automatic determination and adjustment of the mass flow
- Pulse mode
- All unit parameters on LCD-display at a glance
- Remote operation with included software
- Device easy to clean
- Little maintenance required
- Low operating expenses

## APPLICATIONS

- Filter industry:
  - Determination of fractional separation efficiency
  - Determination of total separation efficiency
  - Long-term dusting
  - Filter media and ready-made filters
  - Dust removal filters
  - Vacuum cleaners and vacuum cleaner filters
  - Car interior filters
  - Engine air filters
- Calibration of particle measurement devices
- Flow visualization
- Inhalation tests
- Tracer particles for LDA, PIV, etc.
- Coating of surfaces

## DATASHEET

Volume flow	8 – 40 NL/min
Weight	Approx. 19 kg
Particle material	Non-cohesive powders and bulks
Dosing time	Several hours nonstop
Maximum particle number concentration	Approx. $10^7$ particles/cm <sup>3</sup>
Mass flow (particles)	0.04 – 800 g/h (with an assumed compacted density of 1 g/cm <sup>3</sup> )
Particle size range	0.1 – 200 µm
Carrier/dispersion gas	Air, nitrogen
Maximum counter pressure	0.1 barg
Feed rate	1 – 1,000 mm/h
Compressed air connection	Quick coupling
Reservoir inner diameter	7, 10, 14, 20, 32 mm
Filling height	110 mm
Dispersion cover	Type A, type B, type C, type D
Aerosol outlet connection	Øinside= 5 mm, Øoutside = 8 mm

additional parameter on our website ...



Further information:  
<https://www.palas.de/product/RBGsolo>