



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



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

Datasheet

<i>Parameter</i>	<i>Description</i>
Volume flow	8 – 40 NI/min
Interfaces	USB type B
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 ³
Mass flow (particles)	0.04 – 800 g/h (with an assumed compacted density of 1 g/cm ³)
Particle size range	0.1 – 100 μm
Carrier/dispersion gas	Air, nitrogen
Feed rate	1 – 1,000 mm/h
Reservoir inner diameter	7, 10, 14, 20, 32 mm
Maximum counter pressure	0.1 barg
Filling height	110 mm
Dispersion cover	Type A, type B, type C, type D
Compressed air connection	Quick coupling
Aerosol outlet connection	Øinside= 5 mm, Øoutside = 8 mm
Power supply	115 – 230 V, 50/60 Hz
Dimensions	515 • 330 • 240 mm (H • W • D)
Filling quantity	2.7 g (reservoir Ø = 7 mm), 5.5 g (reservoir Ø = 10 mm), 17 g (reservoir Ø = 14 mm), 35 g (reservoir Ø = 20 mm), 88 g (reservoir Ø = 32 mm) (with an assumed compacted density of 1 g/cm ³)

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