

RBG 1000



Generation of test aerosols from powders, pollen, and spores, mass flow approx. 10 mg/h - 430 g/h

Benefits

- Highest short-term and long-term dosing constancy
- Disperses virtually all non-cohesive dusts
- Easy exchange of different solid material reservoirs and dispersing covers
- Easy determination and adjustment of the mass flow
- Pulse mode
- Device easy to clean
- Quick and easy to operate
- Reliable operation
- Little maintenance required
- Reduces your 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
- Calibration of particle measurement devices
- Flow visualization
- Inhalation tests
- Tracer particles for LDA, PIV, etc.

Model Variations

model available in additional variations
... more variations available

... more variations available

<https://www.palas.de/product/rbg1000>

Datasheet

Parameter	Description
Volume flow	0,5 – 5,0 m ³ /h
Power supply	115/230 V, 50/60 Hz
Dimensions	465 • 320 • 200 mm (H • W • D)
Weight	Approx. 19 kg
Particle material	Non-cohesive powders and bulks
Dosing time	Several hours nonstop
Maximum particle number concentration	Ca. 10 ⁷ particles/cm ³
Mass flow (particles)	
	0.04 – 430 g/h (with an assumed compacted density of 1 g/cm ³)
Particle size range	0.1 – 100 μm
Carrier/dispersion gas	Random (generally air)
Pre-pressure	4 – 8 bar
Feed rate	
	5 – 700 mm/h
Reservoir diameter	7, 10, 14, 20, 28 mm
Maximum counter pressure	200 mbar _g
Reservoir length	70 mm
Dispersion cover	Type A, type B, type C, type D
Compressed air connection	Quick coupling
Aerosol outlet connection	Dispersion cover type A: Ø _{inside} = 5 mm, Ø _{outside} = 8 mm Dispersion cover type B: Ø _{inside} = 3.6 mm, Ø _{outside} = 6 mm Dispersion cover type C: Ø _{inside} = 2.5 mm, Ø _{outside} = 6 mm
Filling quantity	2.7 g (reservoir Ø = 7 mm), 5.5 g (reservoir Ø = 10 mm), 10.8 g (reservoir Ø = 14 mm), 22 g (reservoir Ø = 20 mm), 43 g (reservoir Ø = 28 mm)

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