



Generation of test aerosols from powders, pollen, and spores, mass flow approx. 200 mg/h - 560 g/h

## Benefits

- Optimal short-term and long-term dosing constancy
- Double the dosing time in comparison with the RBG 1000
- Disperses virtually any non-cohesive dusts
- Easy to switch out different solid material reservoirs and dispersion covers
- Easy to determine and adjust the mass flow
- Able to adjust higher mass flows than the RBG 1000
- Pulse mode
- Easy to clean
- Quick and easy to operate
- Reliable function
- Low maintenance
- Reduces your operating expenses

## Applications

- Filter industry
  - Determination of fractional separation efficiency
  - Determination of total separation efficiency
  - Long-term dusting
  - Filter media and assembled filters
  - Dust filters
- Calibrating particle measurement devices
- Flow visualization
- Inhalation experiments
- Tracer particles for LDV, PIV, etc.

## Model Variations

model available in additional variations



<https://www.palas.de/product/rbg2000>

## Datasheet

Parameter	Description
Volume flow	2.5 – 5.0 m <sup>3</sup> /h
Power supply	115/230 V, 50 – 60 Hz
Dimensions	1,160 • 530 • 500 mm (H • W • D)
Weight	approx. 40 kg
Particle material	Non-cohesive powders and bulks
Dosing time	Several hours nonstop
Maximum particle number concentration	ca. 10 <sup>7</sup> particles/cm <sup>3</sup>
Mass flow (particles)	1 – 560 g/h (with an assumed compacted density of 1 g/cm <sup>3</sup> )
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	16, 20, 28, 32 mm
Maximum counter pressure	200 mbar <sub>g</sub>
Reservoir length	180 mm
dispersion cover	Type A, type D
Compressed air connection	Quick coupling
Aerosol outlet connection	Dispersion cover type A: Ø <sub>inside</sub> = 5 mm, Ø <sub>outside</sub> = 8 mm; Dispersion cover type D: Ø <sub>inside</sub> = 5 mm, Ø <sub>outside</sub> = 8 mm
Filling quantity	36 g (reservoir Ø = 16 mm), 56 g (reservoir Ø = 20 mm), 110 g (reservoir Ø = 28 mm), 144 g (reservoir Ø = 32 mm)

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