



Separate dispersing unit and control unit

## Benefits

- 2 m distance between dispersing unit and control unit
- **Optional: pressure-resistant up to 3 barg over-pressure**
- 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

- Dispersion of radioactive substances
- Dispersion of pharmaceutical powders
- 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/rbg1000i>

## Datasheet

Parameter	Description
Volume flow	0.5 – 5.0 m <sup>3</sup> /h
Power supply	115/230 V, 50 – 60 Hz
Dimensions	300 • 430 • 180 mm (dispersion unit)
Weight	approx. 19 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)	0.04 – 430 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	7, 10, 14, 20, 28 mm
Maximum counter pressure	200 mbar <sub>g</sub>
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 <sub>inside</sub> = 5 mm, Ø <sub>outside</sub> = 8 mm; Dispersion cover type B: Ø <sub>inside</sub> = 3.6 mm, Ø <sub>outside</sub> = 6 mm; Dispersion cover type: Ø <sub>inside</sub> = 2.5 mm, Ø <sub>outside</sub> = 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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