# **RBG 1000 I**





The dispersion unit and the electrical control unit can be set up up to  $2\,\mathrm{m}$  apart from each other.

The return speed for container changeover is optimized on the RBG 1000 I and is faster than on the other RBG variants. It is only approx. 1 minute.

### **OPERATION PRINCIPLE**

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### **BENEFITS**

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



## **DATASHEET**

Particle size range	0.1 – 100 μm
Maximum particle number concentration	Ca. 10 <sup>7</sup> particles/cm <sup>3</sup>
Volume flow	$0.5 - 5.0 \text{ m}^3/\text{h}$
Mass flow (particles)	0.04 – 430 g/h (with an assumed compacted density of 1 g/cm <sup>3</sup> )
Filling height	70 mm
Filling quantity	2.7 g (reservoir $\emptyset$ = 7 mm), 5.5 g (reservoir $\emptyset$ = 10 mm), 10.8 g (reservoir $\emptyset$ = 14 mm), 22 g (reservoir $\emptyset$ = 20 mm), 43 g (reservoir $\emptyset$ = 28 mm)
Power supply	115 – 230 V, 50/60 Hz
Particle material	Non-cohesive powders and bulks
Dosing time	Several hours nonstop
Pre-pressure	4 – 8 bar
Carrier/dispersion gas	Random (generally air)
Maximum counter pressure	0.2 barg
Compressed air connection	Quick coupling
Feed rate	5 – 700 mm/h
Reservoir inner diameter	7, 10, 14, 20, 28 mm
Aerosol outlet connection	Dispersion cover type A: $\emptyset_{inside} = 5$ mm, $\emptyset_{outside} = 8$ mmDispersion cover type B: $\emptyset_{inside} = 3.6$ mm, $\emptyset_{outside} = 6$ mmDispersion cover type: $\emptyset_{inside} = 2.5$ mm, $\emptyset_{outside} = 6$ mm
Dispersion cover	Type A, type B, type C, type D
Dimensions	Dispersion unit: 430 • 300 • 180 mm (H • W • D)
Weight	Approx. 19 kg

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#### **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



Mehr Informationen:

https://www.palas.de/product/rbg1000i