RBG 1000 L







This version is equipped with special dispersion covers (type A, type B) and special solid material reservoirs with diameters of 7, 10, and 14 mm.

BENEFITS

- Dispersing unit can be removed and weighed
- Optional: Remote control or computer-controlled
- 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
 - 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



DATASHEET

Particle size range	0.1 – $100~\mu m$	Maximum particle number concentration	Ca. 10 ⁷ particles/cm ³
Volume flow	0.5 – 5.0 m ³ /h	Mass flow (particles)	0.04-430 g/h (with an assumed compacted density of 1 g/cm ³)
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 mm	Aerosol outlet connection	Dispersion cover type A: $\varnothing_{\text{inside}} = 5 \text{ mm}, \varnothing_{\text{outside}} = 8 \text{ mmDispersion cover type B:}$ $\varnothing_{\text{inside}} = 3.6 \text{ mm}, \varnothing_{\text{outside}} = 6 \text{ mmDispersion cover type:}$ $\varnothing_{\text{inside}} = 2.5 \text{ mm}, \varnothing_{\text{outside}} = 6 \text{ mm}$
Dispersion cover	Type A, type B	Dimensions	465 • 320 • 200 mm (H • W • D)
Weight	Approx. 19 kg		