

RBG 1000 G



The RBG 1000 G has a higher gear ratio. This means that at very low feed rates (< 10 mm/h), the feed rate can be better adjusted by means of a potentiometer.

The maximum feed rate is 300 mm/h.

BENEFITS

- Feed rates < 10 mm/h can be set precisely with the aid of a potentiometer
- Optional: pressure-resistant up to 3 bar, 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

- Applications with very low feed rates (<10 mm/h)
- 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

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|---------------------------------------|--|
| Particle size range | 0.1 – 100 μm |
| Maximum particle number concentration | Ca. 10^7 particles/ cm^3 |
| Volume flow | 0.5 – 5.0 m^3/h |
| Mass flow (particles) | 0.04 – 185 g/h (with an assumed compacted density of 1 g/cm^3) |
| Filling height | 70 mm |
| Filling quantity | 2.7 g (reservoir $\varnothing = 7$ mm), 5.5 g (reservoir $\varnothing = 10$ mm), 10.8 g (reservoir $\varnothing = 14$ mm), 22 g (reservoir $\varnothing = 20$ mm), 43 g (reservoir $\varnothing = 28$ 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 | 1 – 300 mm/h |
| Reservoir inner diameter | 7, 10, 14, 20, 28 mm |
| Aerosol outlet connection | Dispersion cover type A: $\varnothing_{\text{inside}} = 5$ mm, $\varnothing_{\text{outside}} = 8$ mm Dispersion cover type B: $\varnothing_{\text{inside}} = 3.6$ mm, $\varnothing_{\text{outside}} = 6$ mm Dispersion cover type C: $\varnothing_{\text{inside}} = 2.5$ mm, $\varnothing_{\text{outside}} = 6$ mm |
| Dispersion lid | Type A, type B, type C, type D |
| Dimensions | 465 • 320 • 200 mm (H • W • D) |
| Weight | Approx. 19 kg |