RBG 1000 D







This device disperses particles at positive pressure values of up to 3 bar. Optional operation with low pressure from 300 mbar absolute is possible. The feedstock reservoirs with a diameter of 7, 10, 14, or 20 mm are pressure-resistant. For operation with low pressure, special pressure-resistant feedstock reservoirs are needed. Their piston is strongly connected to the feeding unit by a claw. This enables an undisturbed operation with low pressure. The solid material reservoir with a diameter of 28 mm is not pressure-resistant but can be used with the RBG 1000 D under atmospheric conditions.

In the RBG $1000\,D$ pressure-resistant version, compressed air is used as the disgerger gas. Operation with nitrogen or other inert gases is not permitted.

BENEFITS

- Pressure-resistant to 3 bar over pressure
- Optional: Low pressure operation from 300 mbar absolute, remote control orcomputer-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

- All applications pressure resistant up to 3 bar overpressure
- Testing of compressed air filters
- 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

粒径范围	0.1 – 100 μm	颗粒物最大数量浓度	Ca. 10 ⁷ particles/cm ³
体积流量	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	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 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:} $ $\varnothing_{\text{inside}} = 2.5 \text{ mm}$, $\varnothing_{\text{outside}} = 6 \text{ mm}$
Dispergierdeckel	Type A, type B, type C, type D	Dimensions	465 • 320 • 200 mm (H • W • D)
			<i>D</i>)