RBG 1000 ID





The dispersion unit and the electrical control unit can be set up up to 2 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.

Optional operation with low pressure from 300 mbar absolute is possible.

The feedstock reservoirs with a 7, 10, 14, or 20 mm diameter 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. Old RBG models can be upgraded with this function by Palas®.

The 28 mm diameter feedstock reservoir is not pressure resistant, but can be used in the RBG 1000 ID when dosing in 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.

OPERATION PRINCIPLE

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BENEFITS

- Pressure resistant up to 3 barg overpressure
- Optional: negative pressure operation from 300 mbar absolute, remote control or computer control
- Highest short-term and long-term dosing consistency
- Disperses practically all non-cohesive dusts
- Easy exchange of different solids containers and dispersion lids
- Easy determination and adjustment of mass flow
- Pulse operation
- Easy cleaning of the unit
- Quick and easy operation
- Reliable function
- Low maintenance
- Reduces your operating costs

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DATASHEET

Particle size range	$0.1-100~\mu\mathrm{m}$
Maximum particle number concentration	Ca. 10 ⁷ particles/cm ³
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 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, 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

RBG 1000 ID



APPLICATIONS

- All applications pressure-resistant up to 3 barg overpressure
- 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/rbg1000id