RBG 1000 D





ALA

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. Old RBG models can be upgraded with this function by Palas®.

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

PALAS

DATASHEET

Filling height 70 mm Filling quantity 2.7 g (reservoir Ø = 7 g (reservoir Ø = 10 m g (reservoir Ø = 10 m g (reservoir Ø = 14 mm), 22 g (reservoir Ø = 14 mm), 22 g (reservoir Ø mm), 43 g (reservoir mm)	Maximum particle Ca. 10 ⁷ particles/cm ³ number concentration
g (reservoir $\emptyset = 10$ m g (reservoir \emptyset = 14 mm), 22 g (reservoir 20 mm), 43 g (reservoir mm)	sumed compacted density of 2
Power supply 115 – 230 V, 50/60 Hz Particle material Non-cohesive power	g (reservoir $\emptyset = 10$ mm), 10.8 g (reservoir \emptyset = 14 mm), 22 g (reservoir \emptyset = 20 mm), 43 g (reservoir \emptyset = 28
bulks	
Dosing time Several hours nonstop Pre-pressure 4 – 8 bar	nonstop Pre-pressure 4–8 bar
Carrier/dispersion gas Air Maximum counter 0.2 barg pressure	
Compressed air con- Quick coupling Feed rate 5 – 700 mm/h nection	g Feed rate 5 – 700 mm/h
tertion $\emptyset_{inside} = 5 \text{ mm}, \emptyset_{out}$ mmDispersion cover $\emptyset_{inside} = 3.6 \text{ mm}, \emptyset$ 6 mmDispersion cover	tion
Dispersion coverType A, type B, type C, type DDimensions465 • 320 • 200 mmD)	
Weight Approx. 19 kg	