



Pressure-resistant at positive pressure values of up to 3 bar, optional low pressure operation from 300 mbar (absolute pressure), also nitrogen as a dispersing gas

Benefits

- Pressure-resistant up to 3 barg overpressure
- Optional: Low pressure operation from 300 mbar absolute
- Nitrogen as dispersing gas
- Optional: Remote control or computer-controlled

Applications

- **All applications pressure-resistant up to 3 barg 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



<https://www.palas.de/product/rbg1000sd>

Datasheet

Parameter	Description
Volume flow	0.5 – 5.0 m ³ /h
Power supply	115/230 V, 50 – 60 Hz
Dimensions	465 • 320 • 200 mm (H • W • D)
Weight	approx. 19 kg
Particle material	Non-cohesive powders and bulks
Dosing time	Several hours nonstop
Maximum particle number concentration	ca. 10 ⁷ particles/cm ³
Mass flow (particles)	0.04 – 430 g/h (with an assumed compacted density of 1 g/cm ³)
Particle size range	0.1 – 100 µm
Carrier/dispersion gas	Air, nitrogen
Pre-pressure	4 – 8 bar
Feed rate	5 – 700 mm/h
Reservoir diameter	7, 10, 14, 20 mm
Maximum counter pressure	200 mbar _g
Reservoir length	70 mm
dispersion cover	Type A, type B, type C, type D
Compressed air connection	Quick coupling
Aerosol outlet connection	Dispersion cover type A: Ø _{inside} = 5 mm, Ø _{outside} = 8 mm; Dispersion cover type B: Ø _{inside} = 3.6 mm, Ø _{outside} = 6 mm; Dispersion cover type: Ø _{inside} = 2.5 mm, Ø _{outside} = 6 mm
Filling quantity	2.7 g (reservoir Ø = 7 mm), 5.5 g (reservoir Ø = 10 mm), 10.8 g (reservoir Ø = 14 mm), 22 g (reservoir Ø = 20 mm), 43 g (reservoir Ø = 28 mm)

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