RBG professional

Generation of test aerosols from powders, pollen, and spores for operation up to 10 bar counterpressure, mass flow approx. 0.04 – 800 g/h

Benefits

- Very high short-term and long-term dosing constancy
- Dispersion of virtually all non-cohesive dusts
- Pressure-resistant up to 10 bar counterpressure
- Easy and fast exchange of different solid material reservoirs and dispersing covers
- Automatic determination and adjustment of the mass flow
- Pulse mode
- All unit parameters on LCD-display at a glance
- Remote operation with included software
- Device easy to clean
- Little maintenance required
- Low operating expenses

Applications

- 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/RBGprofessional

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Datasheet

Parameter	*Description*
Volume flow	8 – 180 Nl/min
Interfaces	USB type B
Weight	Approx. 15 kg
Particle material	Non-cohesive powders and bulks
Dosing time	Several hours nonstop
Maximum particle number concentration	Approx.10^7 particles/cm^3
Mass flow (particles)	0.04 – 800 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 – 13 bar
Feed rate	1 – 1,000 mm/h
Reservoir inner diameter	7, 10, 14, 20, 32 mm
Maximum counter pressure	10 barg
Filling height	110 mm
Dispersion cover	Type A, type B, type C, type D
Compressed air connection	Quick coupling
Aerosol outlet connection	Øinside= 5 mm, Øoutside = 8 mm
Power supply	115 – 230 V, 50/60 Hz
Dimensions	515 • 330 • 240 mm (H • W • D)
Filling quantity	2.7 g (reservoir Ø = 7 mm), 5.5 g (reservoir Ø = 10 mm), 17 g (reservoir Ø = 14 mm), 35 g (reservoir Ø = 20 mm), 88 g (reservoir Ø = 32 mm) (with an assumed compacted density of 1 g/cm^3)

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