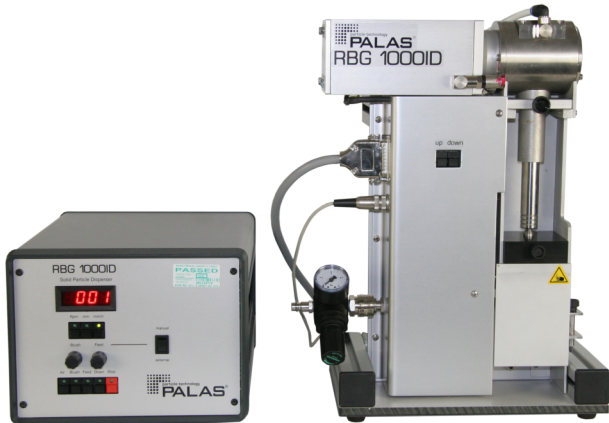# RBG 1000 I

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.

OPERATION PRINCIPLE

BENEFITS

- 2 m distance between dispersing unit and control unit

- Optional: pressure-resistant up to 3 barg overpressure

- 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

DATASHEET

Particle size range	0.1 – 100 μm
Maximum particle number concentration	Ca. 10^7 particles/cm^3
Volume flow	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 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)
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	Random (generally 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: Ø$_{inside}$= 5 mm, Ø$_{outside}$ = 8 mmDispersion cover type B: Ø$_{inside}$= 3.6 mm, Ø$_{outside}$ = 6 mmDispersion cover type: Ø$_{inside}$= 2.5 mm, Ø$_{outside}$ = 6 mm
Dispergierdeckel	Type A, type B, type C, type D
Dimensions	Dispersion unit: 430 • 300 • 180 mm (H • W • D)
Weight	Approx. 19 kg

APPLICATIONS

- 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/en/product/rbg1000i