AGF 10.0 D

In contrast to the AGF 10.0, the AGF 10.0 D is pressure-resistant up to 10 bar overpressure and can therefore be used in applications with an absolute pressure of up to 11 bar, e.g. for testing compressed air filters and optical flow measurement methods in overpressure up to 10 bar.

Benefits

- Generation of high mass flows of up to approx. 25 g/h
- Exact adjustment of the operating parameters
- Number concentration (C_N) can be varied by the factor 10
- Particle size distribution remains virtually constant, if C_N is modified
- Number distribution maximum is within the MPPS range
- Virtually no power losses
- Optimal concentration, no coagulation losses
- Resistant to numerous acids, bases, and solvents
- Robust design, stainless steel housing
- Easy to operate
- Long dosing time

Applications

- Clean room technology
  - Acceptance tests and leak tests as per ISO 14644 and VDI 2083
  - Leak tests, fit testing
  - Recovery tests
- Filter testing, quality control
  - Filter cartridges
  - Car interior filters
  - Filter media, particulate air filters, HEPA/ULPA filters
  - Compressed air filters
- Tracer particles
  - Optical flow measurement procedures with positive pressure values of up to 10 bar (model version AGF 10.0 D)
  - Inhalation experiments
  - LDV
- Calibration of counting particle measurement methods
  - Nebulization of latex suspensions < 5 μm
- Smoke detector tests

DATASHEET

Volume flow	14 – 35 l/min
Mass flow (particles)	< 20 g/h (DEHS)
Filling quantity	300 ml
Particle material	DEHS, DOP, Emery 3004, paraffin oil, other non-resinous oils
Dosing time	> 24 h
Compressed air connection	Quick coupling
Aerosol outlet connection	$Ø_{inside}$ = 20 mm, $Ø_{outside}$ = 30 mm
Mean particle diameter (number)	0.5 μm
Particle diameter (maximum)	10 μm
Dimensions	200 • 300 mm (Ø • L)
Weight	Approx. 8 kg
Special features	Pressure-tight up to 10 bar

NORMS AND CERTIFICATES

VDI 3491-6