AGF 2.0

Liquid nebulizer with binary nozzle and cyclone (dp_max = 2 µm) as per VDI 3491-1 and -2

Benefits

- Exact adjustment of the operating parameters
- Number concentration (CN) can be varied by the factor 10
- Particle size distribution remains virtually constant, if CN 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
- As opposed to the collision method, the AGF 2.0 does not generate any particles > 2 µm thanks to its cyclone.
- Due to the fact that the AGF generates virtually no droplets > 2 µm, the consumption of materials is very low, thus ensuring a long dosing time.
- With the use of DEHS the mean particle size is within the MPPS range for HEPA/ULPA filters

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
  - Aerosol generation for MPPS determination of HEPA/ULPA filters
- **Tracer particles**
  - Inhalation experiments
  - Optical flow measurement procedures with positive pressure values of up to 10 bar (model version AGF 2.0 D)
  - LDV
- **Calibration of counting particle measurement methods**
  - Nebulization of latex suspensions < 1 µm
- **Smoke detector test**

Model Variations

model available in additional variations

https://www.palas.de/product/agf20

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AGF 2.0

Datasheet

Parameter	*Description*
Volume flow	6 – 17 l/min
Dimensions	300 • 330 • 240 mm
Weight	approx. 9 kg
Particle material	DEHS, DOP, Emery 3004, paraffin oil, other non-resinous oils
Dosing time	> 24 h
Mass flow (particles)	< 4 g/h (DEHS)
Compressed air connection	Quick coupling
Aerosol outlet connection	$Ø_{inside}$ = 6 mm, $Ø_{outside}$ = 8 mm
Mean particle diameter (number)	0.25 µm
Biggest particle diameter	2 µm
Filling quantity	300 ml

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