

AGF 2.0



The AGF 2.0 is an aerosol generator for atomizing liquids and latex suspensions with a constant particle rate and defined particle spectrum.

The AGF 2.0 system comprises an adjustable binary nozzle to adjust the desired mass flow and a cyclone with a cut-off of $2 \mu\text{m}$. As a result, virtually no particles $> 2 \mu\text{m}$ are generated.

BENEFITS

- Exact adjustment of the operating parameters
- Number concentration (C_N) can be varied by the factor of 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
- As opposed to the collision method, AGF 2.0 does not generate particles $> 2 \mu\text{m}$ thanks to its cyclone.
- Because the AGF generates virtually no droplets $> 2 \mu\text{m}$, 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 $< 1 \mu\text{m}$
- Smoke detector test

MODEL VARIATIONS

... model available in additional variations

DATASHEET

| | | | |
|-----------------------------|--|---------------------------------|--|
| Volume flow | 6 – 17 l/min | Mass flow (particles) | < 4 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 | $\varnothing_{\text{inside}} = 6 \text{ mm}$, $\varnothing_{\text{outside}} = 8 \text{ mm}$ | Mean particle diameter (number) | 0.25 μm |
| Particle diameter (maximum) | 2 μm | Dimensions | 325 • 300 • 175 mm (H • W • D) |
| Weight | Approx. 9 kg | | |