

AGK 2000



Solid particle aerosols produced from suspensions, e.g., with biological agents, and solutions such as NaCl and KCl, are required for numerous research, development, and quality assurance applications. NaCl/KCl aerosols or aerosols produced from biological agents are prescribed as test aerosols in various standards to ensure the comparability of filter media, measuring equipment, and filters. To be called such, test aerosols must be generated consistently regarding particle size distribution and particle concentration over the test period. Furthermore, it must be possible to reproducibly produce the particle size distribution and the concentration. A specially developed nozzle ensures that these requirements are met by preventing the crystallization of the salt crystals at the nozzle outlet. The particle size spectrum can thus be adjusted reproducibly in the range ...

BENEFITS

- Excellent short-term and long-term dosing constancy
- Wide adjustable particle size range
- Easy filling of the reservoir
- Large reservoir (500 cm³)
- Robust design, proven in industrial applications
- Easy to operate
- Reliable function, high reproducibility
- Little maintenance required
- Reduces your operating costs

APPLICATIONS

- Filter industry:
 - Car interior filters
 - ASHRAE room air filters
 - Engine air filters
 - Respiratory filters
- Chemical and pharmaceutical industry
- Generation of tracer particles
- Flow visualization
- Aerosol research

DATASHEET

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|---------------------------|--|---------------------------------------|---|
| Particle size range | 0.005 – 15 μm | Maximum particle number concentration | Ca. 10^7 particles/ cm^3 |
| Volume flow | 3 – 10 l/min | Volume flow (accessories) | 6 – 20 l/min (drying column) |
| Filling quantity | 300 ml | Particle material | NaCl, KCL, biological agents and other particles in suspensions |
| Dosing time | Several hours nonstop | Pre-pressure | 4 – 8 bar |
| Carrier/dispersion gas | Random (generally air) | Compressed connection | air Quick coupling |
| Aerosol outlet connection | $\varnothing_{\text{inside}} = 20 \text{ mm}$, $\varnothing_{\text{outside}} = 30 \text{ mm}$ | Weight | Approx. 3 kg |