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 cm^3)
- 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

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 air connection	Quick coupling
Aerosol outlet connection	$Ø_{inside}$ = 20 mm, $Ø_{outside}$ = 30 mm
Weight	Approx. 3 kg