

AG 250

Aerosolgenerator



At a glance

- Volume flow: 0 - 250 l / h
- Filling quality: max. 80 ml
- Power supply: 230 V
- Particles: Di-2-ethylhexyl Sebacate (DEHS), Dioctylphthalate (DOP), Paraffin, Latex, Polyalphaolefins (PAO, Emery 3004)
- Gewicht: ca. 4,5 Kg
- Maße LxBxH [cm]: 28 x 12 x 16
- Made in Germany by KM OptoElektronik GmbH

The AG 250 aerosol generator has been designed for generating test aerosols with defined properties. The in-built flow meter with needle valve allows adjustment of the required concentration. By using the VD 100 dilution system combined with the AG 250 and a particle counter, the control of clean rooms, laminar flow boxes and safety work benches is enabled.

Principal application fields of the AG 250 are filter tests, acceptance- and control measurements of clean rooms, laminar flow boxes and safety work benches. The compact stainless steel housing ensures very easy handling and operation. The AG 250 features a controllable flow meter for adjustment of the required concentration. Centrepiece of the AG 250 is a binary nozzle with pressurized air supply according to the injector principle and a free accessible container for the liquids to be atomized.

Applications

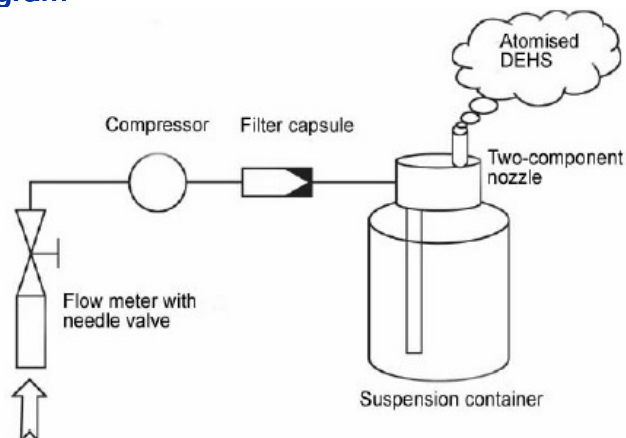
With the AG 250 aerosol generator you are realizing the control of:

- Clean rooms pursuant to VDI 2083/ DIN1946
- Laminar flow boxes
- Cytostatic safety cabinets pursuant to DIN 12980
- Microbiological safety cabinets pursuant to DIN 12950
- Calibration standard: latex aerosols

Advantages

- User friendly
- Easy handling
- Low maintenance
- Variable concentration
- Very high particle generation
- Stainless steel housing

Block diagram



Physical properties of DEHS:

Name	Diethyl-hexyl ether sebacic acid
Cas-No.	122-62-3
Formula	C ₂₆ H ₅₀ O ₄
Molar Mass	426.69 g/mol
Density	912 kg/m ³
Dyn. viscosity	22 ... 24 mPa s
Kinem. viscosity	5.842 10 ⁻³
Exp (-0.02011 T)	(m ² /s)
	323-373 K
Melting temp.	225 K (- 48° C)
Ebullition temp.	525 K (252° C)
Vapour pressure	< 1 Pa
Flash point	> 473 K (> 200° C)
Surface tension	3.2 10 ⁻² N/m

Standard application

