UGF 2000



The UGF 2000 aerosol generator can atomize liquids with a binary nozzle.

The UGF 2000 comprises an adjustable binary nozzle to adjust the desired mass flow and a cyclone. Unlike the AGF series, UGF 2000 has a cyclone with built-in control air. The control air is adjusted using a micrometer screw on a needle valve. By opening this valve, the aerosol concentration can be reduced by a factor of approx. 500 through the addition of control air. As a result, the generator is ideally suited for testing laminar flow boxes and clean rooms with low-volume flow.

Benefits

- dp_{max} in MPPS-range = 0.1 – 0.3 μm
- Known and reproducible particle size distribution using a cyclone
- Constant particle rate
- Low particle concentration
- Long dosing time
- Variable particle concentration by a factor of 500 through adjustment of the primary pressure and control air
- Compact, light, portable
- Easy handling and solid construction

Applications

- Clean room technology:
  - HEPA/ULPA filter test
  - Acceptance tests and leak tests as per ISO 14644 and VDI 2083
  - Laminar flow boxes
  - Recovery tests
- Filter testing, quality control:
  - Filter cartridges, filter media, particulate air filters for low volume flows and small filter surfaces
- Smoke detector tests

DATASHEET

Volume flow	1 – 13 l/min
Mass flow (particles)	< 1.5 g/h (DEHS)
Filling quantity	70 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	Øinside= 4 mm, Øoutside = 8 mm
Dimensions	270 • 200 • 175 mm (H • W • D)
Weight	Approx. 4 kg

NORMS AND CERTIFICATES

VDI 2083, VDI 3491, ISO 14644