



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 = $0.1 - 0.3 \mu m$
- 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 | $\varnothing_{\text{innen}} = 4 \text{ mm}$, $\varnothing_{\text{außen}} = 8 \text{ mm}$ | Dimensions | 270 • 200 • 175 mm (H • W • D) |
| Weight | Approx. 4 kg | | |

NORMS AND CERTIFICATES

VDI 2083, VDI 3491, ISO 14644