

# AGF 2.0 iP



The AGF 2.0 iP aerosol generator can atomize liquids with a binary nozzle.

Unlike the other versions in the AGF series, the AGF 2.0 iP has a built-in pump that generates volume flow, making an additional compressed air connection unnecessary to operate the device.

## BENEFITS

- No compressed air required during operation
- Exact adjustment of the operating parameters
- Number concentration ( $C_N$ ) can be varied by the factor of 10
- Particle size distribution remains virtually constant if  $C_N$  is modified
- Number distribution maximum is within the MPPS range
- Virtually no power losses
- Optimal concentration, no coagulation losses
- Resistant to numerous acids, bases, and solvents
- Robust design, stainless steel housing
- Easy to operate
- As opposed to the collision method, AGF 2.0 does not generate particles  $> 2 \mu\text{m}$  thanks to its cyclone.
- Because the AGF generates virtually no droplets  $> 2 \mu\text{m}$ , the consumption of materials is very low, thus ensuring a long dosing time.
- With the use of DEHS, the mean particle size is within the MPPS range for HEPA/ULPA filters

## APPLICATIONS

- Clean room technology
  - Acceptance tests and leak tests as per ISO 14644 and VDI 2083
  - Leak tests, fit testing
  - Recovery tests
- Filter testing, quality control
  - Filter cartridges
  - Car interior filters
  - Filter media, particulate air filters
  - Aerosol generation for MPPS determination of HEPA/ULPA filters
- Tracer particles
  - Inhalation experiments
  - Optical flow measurement procedures with positive pressure values of up to 10 bar (model version AGF 2.0 D)
  - LDV
- Calibration of counting particle measurement methods
  - Nebulization of latex suspensions  $< 1 \mu\text{m}$
- Smoke detector test

## DATASHEET

|                                 |  |                             |   |
|---------------------------------|--|-----------------------------|---|
| Volume flow                     | 12 – 14 l/min  | Mass flow (particles)       | < 2 g/h (DEHS)  |
| Filling quantity                | 300 ml   | Power supply                | 115 – 230 V, 50/60 Hz                                   |
| Particle material               | DEHS, DOP, Emery 3004, paraffin oil, other non-resinous oils | Dosing time                 | > 24 h  |
| Compressed air connection       | No   | Aerosol outlet connection   | Ø <sub>inside</sub> = 6 mm, Ø <sub>outside</sub> = 8 mm |
| Mean particle diameter (number) | 0.25 µm  | Particle diameter (maximum) | 2 µm  |
| Dimensions                      | 325 • 300 • 175 mm (H • W • D)                               | Weight                      | Approx. 15 kg   |

## NORMS AND CERTIFICATES

ISO 14644, VDI 2083