



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.

工作原理

AEROSOL GENERATOR WITH BUILT-IN PUMP

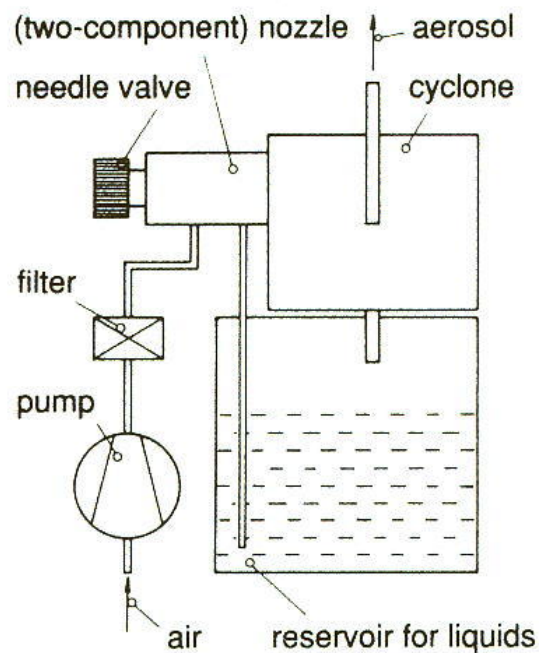


Fig. 1: Schematic diagram of the AGF 2.0 iP aerosol generator

A built-in pump suctions ambient air via a prefilter and directs it to a binary nozzle via a particulate air filter. The primary pressure on the nozzle is 0.6 bar above ambient pressure. The negative pressure in the nozzle suctions the

liquid to be atomized from a reservoir. The volume flow of the liquid and, thus, the aerosol concentration can be adjusted via a needle valve integrated in the nozzle.

优势

- No compressed air required during operation
- 运行参数的精确调节
- 颗粒物数浓度(CN) 可按10 倍步长进行调节
- 调整数浓度时，粒径分布几乎保持不变
- 数浓度分布最大值位于MPPS 范围内
- 几乎无功率损失
- 浓度适宜，无凝聚损失
- 耐多种酸、碱及有机溶剂
- 设计坚固，外壳采用不锈钢材质
- 操作简便
- 与碰撞法相比，AGF 2.0 凭借其旋风分离器不产生大于 $2\ \mu\text{m}$ 的颗粒
- 由于AGF 几乎不产生大于 $2\ \mu\text{m}$ 的液滴，物料消耗量较低，从而实现较长的给药时间
- 使用DEHS 时，平均粒径位于HEPA/ULPA 过滤器的MPPS 范围内

标准和证书

ISO 14644, VDI 2083

技术数据

体积流量	12 – 14 l/min
Mass flow (particles)	< 2 g/h (DEHS)
Filling quantity	300 ml
电源	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	$\varnothing_{\text{inside}} = 6 \text{ mm}, \varnothing_{\text{outside}} = 8 \text{ mm}$
Mean particle diameter (number)	0.25 μm
Particle diameter (maximum)	2 μm
Dimensions	325 • 300 • 175 mm (H • W • D)
重量	Approx. 15 kg

应用领域

- 洁净室技术
 - 符合ISO 14644 和VDI 2083 标准的验收测试及泄漏测试
 - 泄漏测试、适合性测试
 - 恢复率测试
- 过滤器测试、质量控制
 - 滤芯
 - 汽车空调滤清器
 - 过滤介质、颗粒空气过滤器
 - 用于HEPA/ULPA 过滤器MPPS 测定的气溶胶发生
- 示踪颗粒
 - 吸入实验
 - 正压值高达10 bar 的光学流量测量程序 (AGF 2.0 D 型号)
 - 激光多普勒测速仪 (LDV)
- 计数颗粒测量方法的校准
 - 雾化粒径 < 1 μm 的乳胶悬浮液
- 烟雾探测器测试



Mehr Informationen:
<https://www.palas.de/zh/product/agf2ip>