AGF 3000



The AGF 3000 was specially developed to supply compressed air filters per ISO 12500-3 until the compressed air filter is saturated. The AGF 3000 system comprises an aerosol generator and an automatic refill unit.

The AGF 3000 is equipped with a binary nozzle developed by Palas, which can also achieve high mass flows of up to 29 g/h. The AGF 3000 aerosol generator is designed to be pressure-resistant with 10 bar inlet pressure and 7 bar outlet pressure.

Operation principle

Aerosol generator with refill unit for loading compressed air filters under positive pressure up to 7 barg

The liquid to be dispersed is simply filled in the reservoir. The mass flow is adjusted using the volume flow through the nozzle. The volume flow via the special binary nozzle is continuously controlled using a mass flow controller.

The filling level in the reservoir is monitored by a sensor. If the minimum filling level is not reached, then the separate refill unit automatically fills the reservoir on the aerosol generator to the maximum filling level.

BENEFITS

- Pressure-resistant 10 bar inlet pressure and 7 bar outlet pressure
- For continuous loading with refill unit
- High mass flow of up to 29 g/h
- Minimization of compressed air filter loading time
- Very exact volume flow control with use of mass flow controller

NORMS AND CERTIFICATES

ISO 12500-3

DATASHEET

Volume flow	10 – 70 Nl/min
Mass flow (particles)	4 – 29 g/h
Filling quantity	Approx. 7,000 l
Aerosol outlet connection	$Ø_{inside}$ = 26 mm, $Ø_{outside}$ = 29 mm
Mean particle diameter (number)	0.4 μm (DEHS)
Dimensions	180 • 240 mm (Ø • H, AGF 3000) 240 • 440 mm (Ø • H, refill unit)
Weight	AGF: approx. 4 kg, refill unit: approx. 10 kg
Special features	Pressure-resistant up to 10 bar (overpressure), automatical refill unit

APPLICATIONS

- ISO 12500-3
- Testing compressed air filters
- Loading compressed air filters

Mehr Informationen:
https://www.palas.de/en/product/agf3000