PLG 3000



The PLG 3000 is used for fractional separation efficiency measurement and loading with oil aerosols as per ISO 12500-3. The oil quantity can be adjusted using the dispensing volume flow between approx. 0.2 – 12 g/h. The PLG 3000 aerosol generator is designed to be pressure-resistant up to 7 bar positive pressure (higher pressure values upon request).

Operation principle

Aerosol generator for the atomization of aerosols under positive pressure values of up to 7 bar

The liquid to be dispersed is simply filled in the reservoir. The nozzle system developed by Palas® is immersed in the liquid. This nozzle system is based on the Laskin principle and guarantees extremely precise dosing constancy with uniform particle size. The mass flow is adjusted using the volume flow through the nozzle. The volume flow via the special Laskin nozzle is continuously controlled using a mass flow controller.

BENEFITS

- Very exact volume flow control with use of mass flow controller

NORMS AND CERTIFICATES

ISO 12500-3

DATASHEET

Volume flow	10 – 35 Nl/min
Mass flow (particles)	0.1 – 2.4 g/h
Filling quantity	Approx. 500 ml
Aerosol outlet connection	$Ø_{inside}$ = 26 mm, $Ø_{outside}$ = 29 mm
Mean particle diameter (number)	0.4 μm (DEHS)
Dimensions	300 • 160 • 100 mm (H • W • D)
Weight	Approx. 4 kg
Special features	Pressure-resistant up to 10 bar (overpressure)

Applications

- Testing compressed air filters
- Measuring the fractional separation efficiency of compressed air filters

Mehr Informationen:
https://www.palas.de/en/product/plg3000