PLG 3000 Aerosol Generator

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

Description

The PLG 3000 is used for fractional separation efficiency measurement and for loading with oil aerosols as per ISO 12500-1. The oil quantity is able to 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).

Startup

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.

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Benefits

- Mass flow of 0.2 – 12 g/h conforms to the requirement as per ISO 12500-1
- Very exact volume flow control with use of mass flow controller

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Datasheet

Parameter	*Description*
Volume flow	10 – 35 Nl/min
Dimensions	300 • 160 • 100 mm (H • W • D)
Weight	approx. 4 kg
Mass flow (particles)	0.2 – 12 g/h
Aerosol outlet connection	$Ø_{inside}$ = 26 mm, $Ø_{outside}$ = 29 mm
Special features	Pressure-resistant up to 10 bar (overpressure)
Mean particle diameter (number)	0.4 µm (DEHS)
Filling quantity	approx. 500 ml

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Applications

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

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