

PLG 2000



Aerosol generator for the defined atomization of oils

Model Variations



PLG 2000 H
Heated version of the PLG 2000 (up to 100°C)



PLG 2000 HS
Heated version of the PLG 2000 with automatic refill unit

Description

The PLG 2000 is a cold atomizer intended for use in air-conditioned rooms. If the room is unable to be air-conditioned, then a heatable version of the device should be used, e.g. PLG 2000 H.



Fig. 1: PLG 2000 **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 is controlled by a pressure regulator and a manometer on the device.

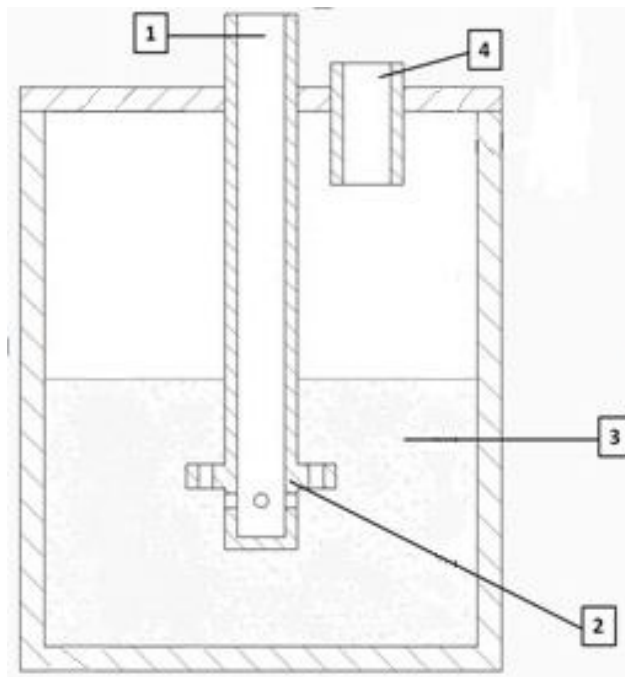


Fig. 2: Functional principle of the PLG series **Legend** 1) Compressed air 2) Special Laskin nozzle 3) Aerosol substance 4) Aerosol outlet This nozzle system is based on the Laskin principle and guarantees extremely precise dosing constancy with uniform particle size (see Fig. 3).

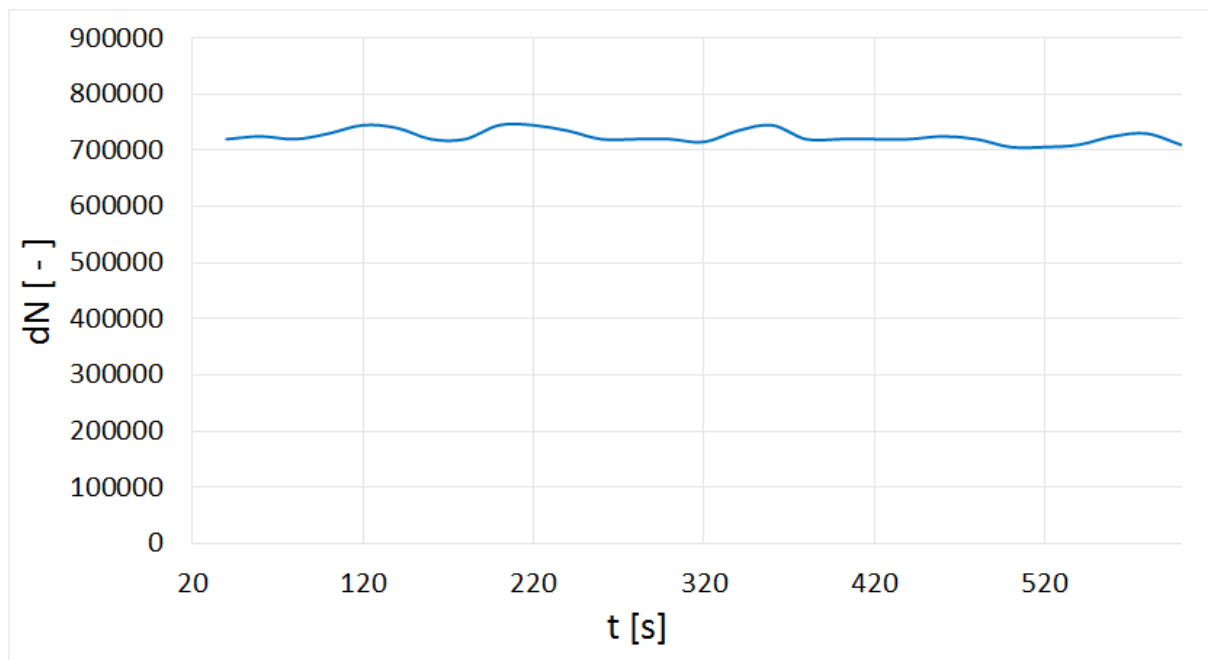


Fig. 3: Highly constant particle concentration over time at a resolution of 30 s The PLG 2000 generates mass flows of up to approx. 20 g/h max. (depending on the aerosol substance in use).

Benefits

- Excellent short-term and long-term dosing constancy
- Best reproducibility with respect to particle size distribution and particle concentration
- Large mass volume range (very low and very high)
- Robust design (optionally resistant against chemically aggressive liquids)
- Compact and light
- Easy to operate, proven in industrial applications
- Reliable function
- Low maintenance

Datasheet

<i>Parameter</i>	<i>Description</i>
Volume flow	10 – 35 l/min
Dimensions	300 • 330 • 270 mm
Weight	approx. 9 kg
Mass flow (particles)	20 g/h (white oil)
Aerosol outlet connection	Ø _{inside} = 9 mm, Ø _{outside} = 12 mm
Mean particle diameter (number)	0.4 µm (DEHS)
Filling quantity	300 ml

Applications

- Filter industry/oil separators
 - Determination of separation efficiency
 - Determination of fractional separation efficiency
 - Loading test
- Test of cooling lubricant separators
- Comparison of particle measurement devices
- Tracer particles
- Flow visualization

Palas GmbH
Partikel- und Lasermesstechnik
Greschbachstrasse 3 b
76229 Karlsruhe
Germany

Managing Partner:
Dr.-Ing. Maximilian Weiß
Commercial Register:
register court: Mannheim
company registration number: HRB 103813
USt-Id: DE143585902



Contact: E-Mail: mail@palas.de Internet: www.palas.de Tel: +49 (0)721 96213-0 Fax: +49 (0)721 96213-33