PLG 2000 H



Unlike the PLG 2000, the PLG 2000 H has a built-in heating unit reaching 100 °C.

The PLG 2000 H complies with the requirements of ISO 16890 and EN 779 (withdrawn) for ventilation filters.

The heating of the oil changes the number concentration and particle size distribution of the material to be dispersed due to a change in the viscosity. This additionally enables materials to be distributed, which cannot be nebulized at cooler temperatures due to their viscosity.

Operation principle

Heated version of the PLG 2000 up to 100°C

The PLG 2000 H generator comprises a Laskin nozzle, a fluid heating unit, and a thermocouple to measure the temperature. The immersion tube is the aerosol outlet. The aerosol is transported to the application site through an attached tube. The liquid to be nebulized can be heated up to 100°C.

The PLG 2000 H conforms to the requirements of the EN 779 standard for ventilation filters. In addition, the PLG 2000 H can be used to test oil nebulizers.

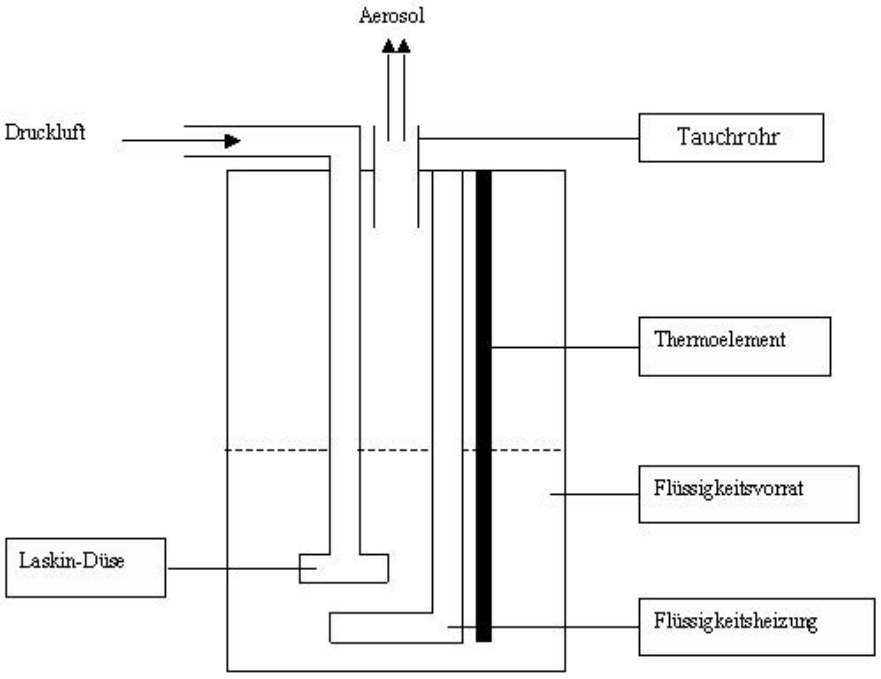


Fig. 1: Schematic diagram of the PLG 2000 H aerosol generator

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. A pressure regulator and a manometer on the device control the volume flow.

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

Volume flow	10 – 35 l/min
Mass flow (particles)	< 20 g/h (white oil)
Filling quantity	300 ml
Power supply	115 – 230 V, 50/60 Hz
Aerosol outlet connection	$Ø_{inside}$ = 9 mm, $Ø_{outside}$ = 12 mm
Mean particle diameter (number)	0.4 μm (DEHS)
Dimensions	300 • 330 • 270 mm (H • W • D)
Weight	Approx. 11 kg
Special features	Heatable up to 100°C

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

Mehr Informationen:
https://www.palas.de/en/product/plg2000h