PLG 2100 S

In addition to a built-in heating unit, the PLG 2100 S generator is equipped with an automatic refill unit.

Operation principle

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.

A sensor monitors the filling level in the reservoir. A pump adds material from an external reservoir if the minimum filling level is not reached. As soon as the maximum filling level has been reached, the filling of additional material is stopped automatically. The automatic refill unit enables non-stop aerosol generation for several days with the PLG 2100 S.

Benefits

- Excellent short-term and long-term dosing constancy
- Heatable
- Best reproducibility with respect to particle size distribution and particle concentration
- Large mass volume range (very low and very high)
- Long dosing time over several days with automatic refilling (optional)
- Robust design (optionally resistant against chemically aggressive liquids)
- Compact and light
- Easy to operate, proven in industrial applications

DATASHEET

Volume flow	3 – 110 l/min
Mass flow (particles)	< 100 g/h (white oil)
Filling quantity	1,000 ml
Power supply	115 – 230 V, 50/60 Hz
Aerosol outlet connection	$Ø_{inside}$ = 32 mm, $Ø_{outside}$ = 42 mm
Mean particle diameter (number)	1.5 μm
Dimensions	440 • 380 • 390 mm (H • W • D)
Weight	Approx. 18 kg
Special features	Heatable up to 100°C, with automatic refilling unit

Applications

- Filter industry/oil separators
  - Determination of separation efficiency
  - Determination of fractional separation efficiency
  - Loading test
- Test of cooling lubricant separators
- Used on the HMT 1000 filter test rig to test oil nebulizers
- Comparison of particle measurement devices
- Tracer particles
- Flow visualization

Mehr Informationen:
https://www.palas.de/en/product/plg2100s