# PLG 2100


The PLG 2100 uses a nozzle system developed by Palas® . Depending on the application, a special nozzle that is able to be heated to 120°C is used in order to enable quick and reproducible adjustment to the desired particle size distribution and concentration. Among other uses, the PLG 2100 is used on the HMT 1000 filter test rig to test oil nebulizers in order to disperse a corresponding motor oil, e.g. 10w-40.
The heating of the oil changes the number concentration, as well as particle size distribution, of the material to be dispersed due to a change in the viscosity. This additionally enables materials to be dispersed which are unable to be nebulized at cooler temperatures due to their viscosity. The PLG 2100 is equipped with two replaceable nozzles: Nozzle 1 for low mass flows of up to 20 g/h max. (depending on the aerosol substance in use), nozzle 2 for high mass flows of up to 100 g/h max. (depending on the aerosol substance in use).

## 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

## 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

## Model Variations

PLG 2100 S
Version of the PLG 2100 with automatic refill unit
https://www.palas.de/product/plg2100s

## DATASHEET

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|---|---|---|---|
| Volume flow | 3 – 110 l/min | Mass flow (particles) | < 100 g/h (Weißöl) |
| 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 $\mu$m |
| Dimensions | 440 • 380 • 380 mm (H • W • D) | Weight | Approx. 16 kg |
| Special features | Heatable up to 120°C | | |