

## ***MAG 3000: Monodisperse Aerosol Generator***



- Particle size adjustable from approx. 0.2 up to 8 µm for DEHS (other particle materials on request)
- Reproducible particle size adjustment
- Minimum consumption of the saline solution, approx. 20 ml in 10 h
- No drying system, no silica gel
- Reliable bypass adjustments for evaporator and core source
- Particle size modification within approx. 10 seconds up to factor 2.5 by the bypass adjustments
- Robust design
- Reliable function, high reproducibility

For more than 25 years, the Palas® GmbH has distributed, modified and built **monodisperse aerosol generators**. The entire accumulated know-how in this field is reflected in the **MAG 3000** and provides particular advantages to the user. The **MAG 3000** thereby exceeds conventional Sinclair-LaMer generators. Due to the special core source developed by Palas®, no drying system is utilized, i. e. no silica gel for the drying of the condensation cores is necessary. Due to the bypass technology around the core source developed by Palas®, larger particles can be generated within approx. 10 seconds.

### **Application examples**

- Calibrating of particle measurement devices
- Comparison of the device parameters subject to the particle size:
  - Resolution capacity
  - Classification accuracy
  - Lower counting efficiency rate
  - Upper counting efficiency rate
  - Border zone error
- Inhalation tests
- Tracer particles/flow visualization
- Filter testing

### **Specifications**

Particle diameter: approx. 0,2 up to 8 µm for DEHS  
 Geometrical standard deviation:  $\sigma_g < 1,5$   
 Number concentration:  $C_{Nmax} 10^6 P/cm^3$   
 Carrier gas: N<sub>2</sub>  
 Volume flow: 3,5 – 4,5 l/min  
 Power supply: 115/230 V; 50/60 Hz  
 Dimensions (HxWxD): 610 x 300 x 300 mm  
 Weight: approx. 22 kg