# **LDD 100**





The dilution of large droplets is significant when measuring highly concentrated droplet aerosols. Since large droplets are challenging to dilute, standard systems only work up to a size of 1 - 2  $\mu$ m. The dilution system LDD 100 (dilution factor 100) is the first system to dilute almost loss-free large droplets up to 10  $\mu$ m

## **MODEL VARIATIONS**



LDD 100 H Version heatable up to 150 °C for large droplets up to 10  $\mu \rm m$ 



# 工作原理

## Defined dilution system for large droplets up to 10 $\mu \text{M}$

The good dilution factor of large droplets was tested with monodisperse DEHS droplets (oil) of different sizes. The results for the sizes 5  $\mu$ m and 7  $\mu$ m are shown in Table 1.

Particle size	Number count withoutdilution	Number count withdilution	Dilution factor
5 μm	304322	3043	100.01
7 $\mu$ m	236687	2370	99.87

Table 2: Dilution of monodisperse DEHS droplets with LDD 100

Chart 1: Dilution of monodisperse DEHS droplets with LDD 100

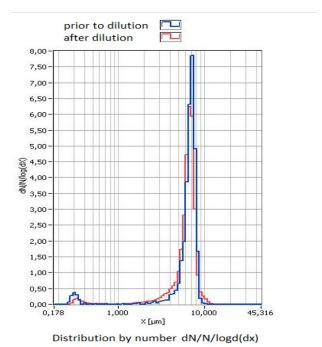


Fig. 1: Distribution of LDD 100 (7  $\mu$ m)



#### **BENEFITS**

- Defined dilution of large droplets of factor 100
- Proven dilution factor 100 for droplet sizes up to 7  $\mu m$
- $\bullet \;\; \text{Easy connection with Promo}^{\text{\circledR}} \; \text{and welas}^{\text{\AE}} \; \text{digital aerosol spectrometers}$
- Internal pump for autonomous operations
- Resistant to pressure fluctuations of  $\pm 200$  mbar
- Simple handling
- Robust, durable, low maintenance
- Cost effective

# 标准和证书

ISO 17536



## **APPLICATIONS**

- Measurement of blow-by aerosols according to ISO 17536
- Dilution of compressed air
- Measurement of cooling lubricant aerosols



Mehr Informationen: https://www.palas.de/product/ldd100