LDD 100

Defined dilution system for large droplets up to 10 m

Model Variations

LDD 100 H
Heatable dilution system up to 150 °C for large droplets up to 10 m

LDD 100

Description

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

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

LDD 100:

Particle size	Number counts **without** dilution	Number counts **with** dilution	Dilution factor
5 µm	304322	3043	100.01
7 µm	236687	2370	99.87

Chart 1: Dilution of monodisperse DEHS droplets with LDD 100

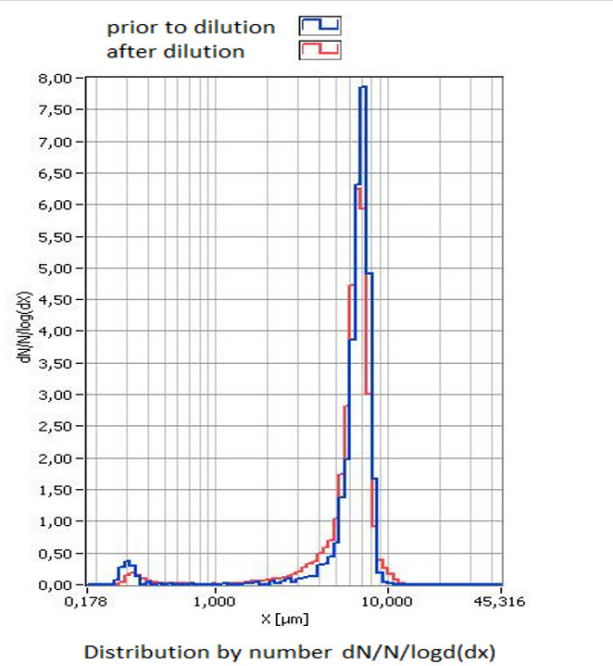

Fig. 1: Distribution of LDD 100 (7 m)

LDD 100

Benefits

- Defined dilution of large droplets of factor 100
- Proven dilution factor 100 for droplet sizes up to 7 m
- Easy connection with Promo® and welas® digital aerosol spectrometers
- Internal pump for autonomous operations
- Resistant to pressure fluctuations of ± 200 mbar
- Simple handling
- Robust, durable, low maintenance
- Cost effective

LDD 100

Applications

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

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