MFP 3000 C





 $Version\,MFP\,3000\,C\,is\,specially\,tailored\,to\,the\,requirements\,of\,the\,DIN\,71460\,and\,ISO\,11155-1\,Road\,vehicle\,interior\,filters\,measurement\,procedures.$

工作原理

TESTING FILTER MEDIA BETTER THAN DIN 71460 AND ISO 11155-1

Aerosol generation with RBG 1000 G (DIN 71460) and AGK 2000 (ISO TS11155-1):

The dosing air for the RBG 1000 G and AGK 2000 solid particle aerosol generators is regulated with a mass flow controller. This ensures the same operating conditions are always maintained.

DLB 2000 compressed air humidifier for the dispersion air:

Dry compressed air is generally used for the aerosol generation, whereby, at the very low volume flows in filter media testing, the rel. humidity of the test volume flow can drop considerably. The DLB 2000 compressed air humidifier can condition the rel. humidity and temperature of the RBG 1000 dispersion air precisely to the required values, thus minimizing the influence of rel. humidity on the dust holding capacity to be measured.

Aerosol inlet and aerosol neutralization on MFP 3000 C:

The aerosol inlet on the MFP 3000 C is equipped with a corona discharge to neutralize the test aerosol. It ensures a homogeneous distribution of the test aerosol in the raw gas channel. The simple construction allows rapid replacement of the aerosol generator, and the raw gas channel is easy to clean.

welas® 2100 aerosol sensors:

The welas[®] 2100 high concentration sensors ensure unambiguous and coincidence-free fractional separation efficiency measurement with excellent count statistics at the specified 75 mg/m3 'ISO A2 Fine dust' concentration³ 'ISO A2 Fine dust'. These sensors are also fitted with a special aerosol guide that minimizes contamination of the internal optics.

Software:

Various differential pressure levels can be set in the filter media test sequence program for loading in accordance with DIN 71460. The precise definition of the test parameters in the pre-programmable sequence programs ensures the results' very high level of comparability.

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优势

- Virtually simultaneous particle measurement in the raw gas and clean gas
- Particle size measurements from 0.2 40 μm
- Measurement of $C_{n \text{ max}} = 10^5 \text{ particles/cm}^3 \text{ without dilution}$
- Internationally comparable measurement results
- · High reproducibility of the testing method
- Easy use of different test aerosols, e.g. SAE Fine and Coarse, NaCl/KCl, DEHS
- Highest raw gas concentrations of up to $> 100 \text{ mg/m}^3$ (ISO Fine) or $> 500 \text{ mg/m}^3$ (ISO Coarse) with measurement of the fraction separation efficiency for burden tests
- Flexible filter test software FTControl
- Sequence programs for pressure loss measurements, measurements of fraction separation efficiency and burden measurements
- · Easy to operate
- Short set-up times
- Cleaning and calibration can be performed autonomously by the customer
- Easy use of the measurement technology components even in other applications
- Mobile setup, easy to move on castors
- Validation of the clear function of individual components and the overall system during pre-delivery acceptance testing and upon delivery
- Low-maintenance
- The unit will reduce your operating costs

标准和证书

ISO 5011, ISO/TS 19713, DIN 71460, ISO 11155-1, EN 779, ASHARE 52.2, ISO 16890



技术数据

气溶胶	Dusts (e.g., SAE dusts), salts (e.g., NaCl, KCl), liquid aerosols (e.g., DEHS)
滤材测试面积	100 cm ²
测量范围(粒径)	0.2 – 40 μm
测量范围(质量)	Up to 1,000 mg/m³ (depending on the version)
体积流量	$1-35~\mathrm{m}^3/\mathrm{h}$ - suction mode
Differential pressure measurement	0 – 1,200 Pa selectable, 0 – 2,500 Pa selectable, 0 – 5,000 Pa selectable
Inflow velocity	5 cm/s – 1 m/s (others on request)
Compressed air supply	6 – 8 bar
Dimensions	2.500 • 680 • 1.550 mm (H • B • T)



应用领域

- Testing of filter media and small filter elements in product development and during production monitoring.
- Testing option based on ISO 11155-1 / DIN 71460-1 (cabin air filters).



Mehr Informationen:

https://www.palas.de/zh/product/mfp3000c