LFT 1000



To ensure filter quality, ISO 29463-1 requires that all HEPA /ULPA filters with an efficiency of 99.95% or higher (ISO 35H/H13) be tested for the following:

- local efficiency according to ISO 29463-4
- overall efficiency according to ISO 29463-5

The LFT 1000 combines the requirements of ISO 29463-4 Annex B for filters of class ISO 35 H to ISO 45H with a simple manual test procedure.

The system uses the appropriate software to report leakage points quickly and easily.

OPERATION PRINCIPLE

MANUAL SCANTEST WITH FOR HEPA/ULPA FILTER

The test system consists of the following components:

- Supply air duct with volume flow measurement and raw gas sampling
- Horizontal filter holder (adapter for different filter sizes)
- Aerosol generator
- Sampling and integrated photometer for manual scanning by hand in the clean gas
- Data evaluation with test protocol on Windows interface

First, the aspirated air flows through the built-in filter with a defined volume flow. The particle concentration is measured on the raw gas side with a photometer.

The pressure drop is recorded manually by scanning over the filter surface.

The operator moves the sampling probe over the clean gas side of the filter and thus scans the local emission in the clean gas utilizing the photometer. Leakage points are thus detected quickly and easily.

After successful testing, the test report is generated.

Extension/Accessories

Aerosol generation

We recommend the PLG 2100 H with a Laskin nozzle for the greatest possible consistency in aerosol generation

Particle measurement

Photometer with 28 l/min (1 cfm) flow rate

Scan nozzle

Specially designed according to ISO 29463 for scanning speeds up to 5 cm/s (or 0.093 m²/min)

Scan unit

Manual scan

″Worry-free package″ for delivery

Acceptance at Palas® as well as delivery, installation on site, instruction, and final inspection

BENEFITS

- Quick manual scanning with Photometer
- Test report
- Clear leak detection
- Easy installation of filter elements
- Adapters for various filter dimensions
- Upgradable to an automatic scanning system
- Use of components for ISO 14644 In-Situ integrity testing

NORMS AND CERTIFICATES

ISO 29463-4, ISO 29463-5

DATASHEET

Volume flow	100–1,200 m^3/h
Power supply	400 V, 50 Hz
Differential pressure measurement	Up to 1,200 Pa
Compressed air supply	6 bar
Size filter element	300 x 300–600 x 1,200 mm

Applications

- Classification of HEPA/ULPA filters
- Filter test comparable to ISO 29463-4 Annex B

Mehr Informationen:
https://www.palas.de/en/product/LFT1000