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Oil Thread Leak Test System

AFS 155



HEPA Element Test System AFS 155

The oil thread test is used for visual proof of the absence of leakage of HEPA filters. This simple quality test procedure may be an alternative to the scan method.

The oil thread test is also applicable if the scan method is not fully applicable because of the filter design (e.g. V-shaped arrangements). For scanning of HEPA and ULPA filters, Topas offers the AFS 150 and AFS 152 - proven and reliable solutions.

Principle

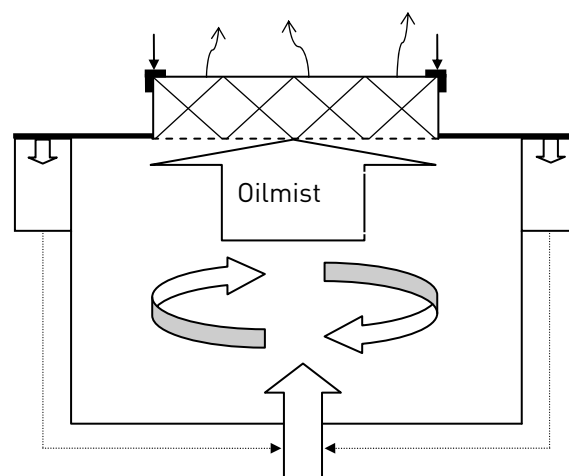
The filter element (sample) is mounted horizontally with the upstream side down on the test bench and secured with a pneumatically operated fixing device. For testing, the filter is then exposed to a flow of a polydisperse aerosol of oil droplets (DEHS). An existing leak is made visible on a rising oil thread on the downstream side (upper side) of the filter.

Special Advantages

- Cost-effective solution for leak testing of filters ranging up to group H (filter class H13 and H14)
- Easy manual operation
- Constant test conditions according to EN 1822-4 due to pre-adjustable test parameters
- Effective testing of larger numbers with pre-adjusted test parameters
- Flexible and easily configurable filter holder in case of different filter dimensions
- Portable due to compact size

Application

- Quality control and assurance in filter production based on the filter oil thread test according to EN 1822-4, Appendix A



Principle: Exposing the filter to a flow and fixing the adapter plate

Specifications

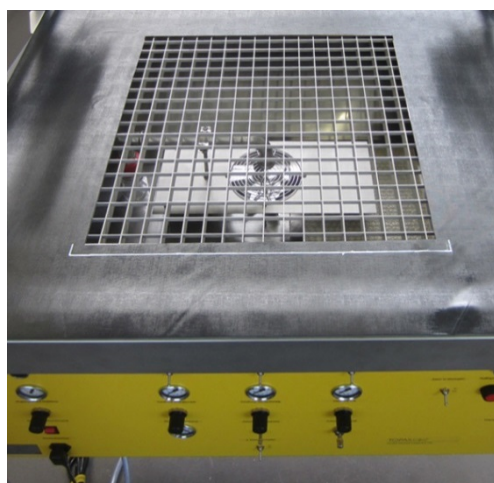
Details

The system operates under overpressure condition. The required test volume flow is adjustable and is taken from the compressed air network. In the upstream flow chamber the aerosol is distributed in a steady manner over the entire face in front of the filter sample to be tested by a radial fan. To prevent contamination of the environment, the remaining upstream aerosol is drawn through a suction pump into a filter unit after the completion of the test. To ensure optimum visibility of the emerging oil threads the following environmental conditions are required by the user:

- Vertical lighting of the test sample from above with a white fluorescent light source (> 4000K) or halogen lamp
 - Brightness at the operation level: > 1000 Lux
 - Darkened environment and black background for optimum visibility
- Prevention of uncontrolled air flows from the environment

Technical Data

Filter dimensions (B x H x T)	min. 305 x 305 x 30 mm max. 915 x 800 x 300 mm
Aerosol volume flow	50 - 600 l/min
Face velocity	ca. 1.3 cm/s
Aerosol concentration	1.5 g/m ³
Aerosol substance	DEHS
Compressed air supply	6 bar
Power supply	230 V AC; 1 A; 50 Hz
Dimensions (L x B x H)	91 x 120 x 61 cm
Required workspace (L x B x H)	ca. 100 x 120 x 150 cm
Weight	100 kg



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