With the Cabin Air Filter Test Rig PAF 111 fractional filtration efficiency is measured while the filter is continuously loaded with dust at constant air flowrate.

The test system and the testing process comply with the requirements of the standard DIN 71460-1 and ISO/TS 11155-1.

**Main Components**
- Flow test channel according to standard including generation of volume flow
- Dust disperser SAG 410
- Aerosol neutralizer EAN 581
- Aerosol generators ATM 220/221
- Optical particle counter LAP 322
- Sensors (pressure, temperature, humidity)
- Software PAF111Win for test rig control, data acquisition and processing.

**Special Advantages**
- Standard-compliant testing
- High degree of automation
- Modular design
- Traceable test documentation
- Adapter for filter elements and media

**Applications**
- Differential pressure test
- Fractional efficiency measurements
- Dust loading test
- Combination measurements according to DIN 71460-1 (ISO/TS 11155-1)
- User-defined tests
Specifications

Control and DATA Acquisition Software PAFWin
- Automatic test procedures in accordance with issued standards
- Manual control for service, calibration procedures and research
- Data monitor for long term investigations
- Sample and tests database
- Test dusts and test aerosol database
- Data presentation and statistical calculations
- Data copy & paste, dynamic data exchange DDE
- Multilingual software (German, English, French)

![PAF111Win Main Window - Test Rig Visualization](image)

Example of a Dust Holding Test

Technical Data
- Air flow\(^1\) \(70\ldots700\) m\(^3\)/h
- Differential pressure \(0\ldots1000\) Pa
- Filter adapter \(300 \times 600\) mm
- Media cross section \(180\) cm\(^2\)
- Sensors Temperature, relative humidity, atmospheric pressure
- Dust disperser SAG°410/L \(2\ldots245\) g/h
- Aerosol generators ATM 220
- Electrostatic aerosol neutralizer EAN 581
- Optical particle counter\(^2\) Laser Aerosol Spectrometer LAP 321, Topas
- Power supply 400 V AC, 16 A
- Test rig dimensions \(460 \times 120 \times 340\) cm

\(^1\) Higher volume flows on request
\(^2\) Other models on request

![Fractional efficiency of a ISO 11155-1 Test](image)

QMS certified to DIN EN ISO 9001.

For more information please visit our website at www.topas-gmbh.de

Specifications are subject to change without notice.

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