

# Filter Media Testing Instrument

This instrument is designed for comprehensive evaluation of filter media performance. It enables precise measurement of filtration efficiency, pressure drop, and dust holding capacity of various filter materials.



## Overview

### Advanced Filter Testing Solution

This modular testing system is designed for the comprehensive evaluation and automation of filter test channels. It facilitates precise quality assurance and development testing for room air filters by integrating high-resolution aerosol spectrometers and automated measurement processes. The system ensures high repeatability and reliability in determining fraction separation efficiencies, supporting international testing standards.

## Standards Compliance

### Supported Testing Standards

EN 779:2012, ASHRAE 52.2, ISO FDIS 16890

## System Components

### Core System Components

- Aerosol spectrometer
- Laptop/PC and monitor
- Aerosol generators
- Sampling system
- Automation software
- Discharge unit (optional)

## Technical Capabilities

### Key Measurement Metrics

**2.5  $\mu\text{m}$**

PM2.5 Measurement

**10  $\mu\text{m}$**

PM10 Measurement

### Compatible Aerosol Types

Dusts (A1-A4), Salts (KCl/NaCl), Oils (DEHS), Suspensions

## System Features

### Software Capabilities

- Fully automatic test execution
- Standard-compliant test report generation
- High-resolution data acquisition