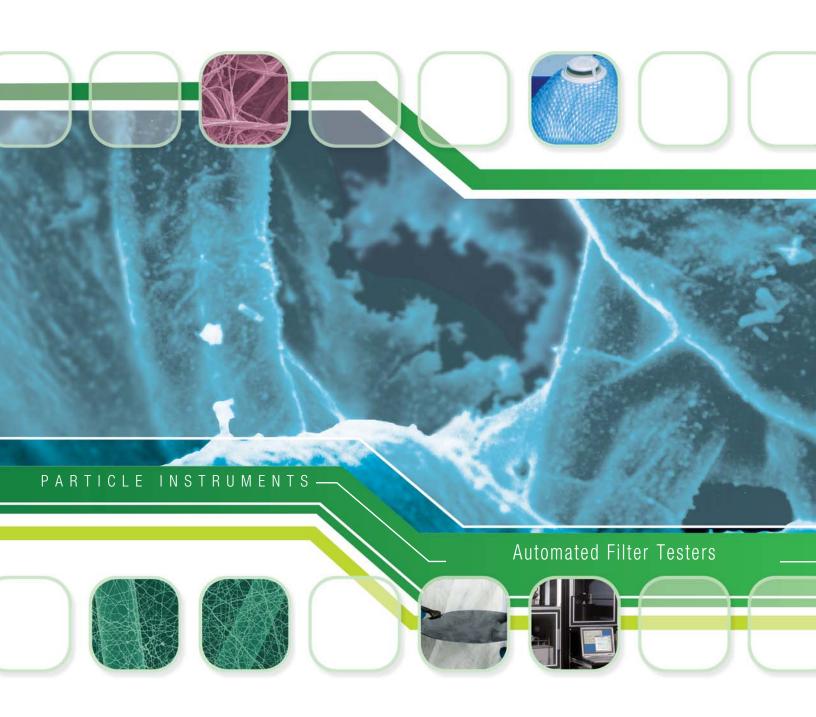
## Filter Testers for Air Filter and Media Efficiency Measurement





# Trusted by Filter Manufacturers



# Around the Globe







Model 3160 Model 3140

## Specifications

Model	8127ª	8130ª	3160	3140
Measurement Application	Loading and Quality Control Tests		MPPS	Quality Control Test
Maximum Efficiency	99.999%		99.999999%	99.999999%
Aerosol Type⁴	DOP, PAO, DEHS, Paraffin, and other Oils	DOP, PAO, DEHS, Paraffin, and other Oils or NaCl	DOP, PAO, and other Oils or NaCl	DOP, PAO, DEHS, Paraffin, and other Oils
Aerosol Generation	Atomizer		Atomizer with Classifier	Atomizer
Count Median Diameter	0.2 μm (Oil)	0.2 μm (Oil) or 0.075 μm (NaCl)	N/A	0.19 µm
Geometric Standard Deviation	<1.6 (0il)	<1.6 (Oil) or < 1.86 (NaCl)	<1.3	<1.6
Flow Rate	15 to 100 L/min		5 to 100 L/min	
Resistance	0-150 mm H <sub>2</sub> 0 (0-1470 Pa)			
Particle Detection	Light Scattering Photometer		Condensation Particle Counter	
Typical Test Length	10 sec		30 sec to 20 min <sup>c</sup>	< 1 min <sup>c</sup>
Data Reporting	Alpha-Numeric Display and RS-232		PC with Integrated Software	
Operation	Stand Alone Tester/Automated Production Lines		Stand Alone Tester	
Compliance	US 42 CFR part 84, EN 143, JMOL, ISO 23328-1		EN 1822 parts 3 and 5	N/A

<sup>&</sup>lt;sup>a</sup> EN versions (for equivalent results to EN 143 standard) available (8127-1-EN, 8130-1-EN)

<sup>&</sup>lt;sup>b</sup> EN version CMD and GSD are different. See 8127/8130 spec sheet for more info

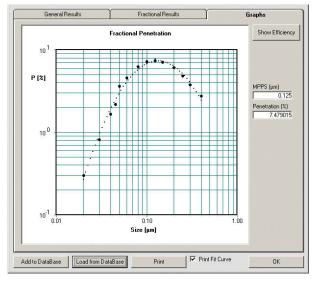
c Efficiencies higher than 99.9999% require longer than typical testing times d Aerosol abbreviations: DOP (dioctyl phthalate), PAO (polyalpha olefin), DEHS (di-ethylhexyl sebacate)

### Accessories

TSI also offers a variety of optional accessories to diversify the capability and applicability of these filter testers. Individual models may also have additional accessories (refer to model specific information sheet).

#### Custom Filter Holders

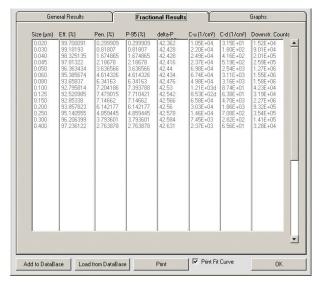
TSI has an experienced design team and a fully-equipped machine shop to address special requirements from our customers. Over the years, TSI has designed and built more than 100 custom filter holders to accommodate testing filters with different shapes and sizes. We are ready to serve the specific needs you have. Please contact your TSI representative for details about the customized solutions we offer.



MPPS results acquired from Model 3160

### **External Adapter**

The Model 8107 External Adapter allows users to test tubular, rectangular or other irregular shaped filter cartridges that have their own housing.



MPPS results acquired from Model 3160

TSI Incorporated serves a global market by investigating, identifying and solving measurement problems. As an industry leader in the design and production of precision instruments, TSI partners with research institutions and customers around the world to set the standard for measurements relating to aerosol science, air flow, health and safety, indoor air quality, fluid dynamics and biohazard detection. With headquarters based in the U.S. and field offices throughout Europe and Asia, TSI has established a worldwide presence in the markets we serve. Every day, our dedicated employees turn research into reality.

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