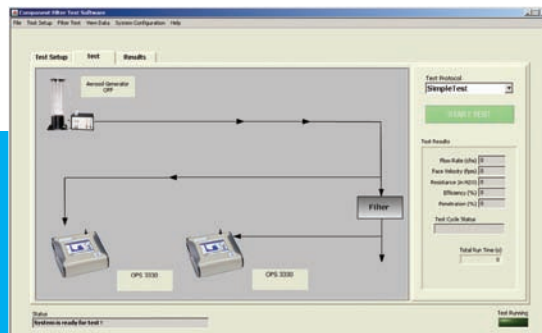


# COMPONENT FILTER TEST SYSTEM MODEL 3150

CONFIDENCE COMES WITH  
A HIGHER CALIBER OF DATA

The Component Filter Test System (CFTS model 3150) consisting of software and a hardware module to provide an off the shelf solutions for all your custom filter testing needs.

Pre-configured to work with TSI's world class detectors and sizers the CFTS provides a platform for numerous filter test applications. Filters are used for a wide variety of application and are tested to many different filter test standards. To satisfy these many requirements you need filter testing system that is flexible enough to change to meet those requirements. The CFTS system is designed for this flexibility.



## Off-The-Shelf Solutions for all Your Custom Air Filtertesting Needs

The CFTS measures flow using a variety of flow measurement techniques and control blowers to achieve the required flow. It has multiple ports used to read temperature, pressure and relative humidity and make flow corrections and log sensor data for test reports.

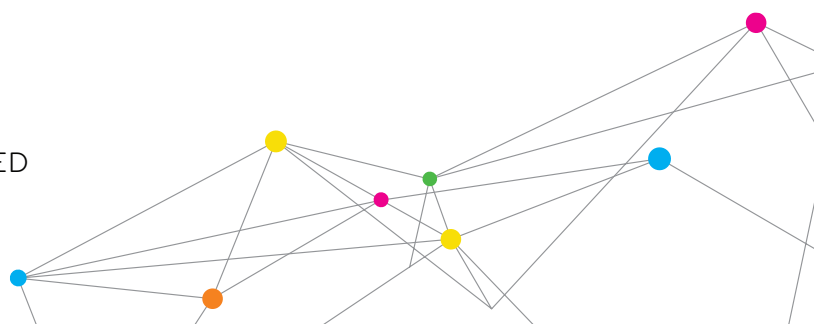
Whether designing a new test duct or updating an existing system the CFTS provides an easy to use system with the flexibility to meet your filter testing needs.

## Features and Benefits

- + Solutions for all your filter testing needs
- + System adapts to a wide variety of inputs and outputs
- + Same interface for all your filter testing needs
- + High and low flow rate systems
- + Different particle size ranges
- + Supports a variety of particle sensors
- + Adapts to existing filter test ducts
- + Labview Software Platform



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# SPECIFICATIONS

## COMPONENT FILTER TEST SYSTEM MODEL 3150

### Communication

Interfaces 2 USB ports  
Serial I/O 4 ports RS 232c for Instruments and for  
TSI Flowmeter (Flowrate, T, P)

### Analog Input Up to 8 channels

0 to 10 V, -10 to 10 V, 0/4 to 20 mA with parallel resistor:

Flow rate  
Resistance (delta-P)  
Pressure  
Temperature  
Relative Humidity  
3 spare channels (actually not used)

### Analog Output

2 channels (0 to 10 V, 4 to 20 mA only with external adapter)  
Set point for flow rate (feedback loop with PID control available)  
1 spare channel

### Digital Input TTL-Level, up to 8 channels

Start test  
Stop (Interrupt) test  
6 spare channels (actually not used)

### Digital Outputs Up to 12 channels

12 or 24 VDC selectable  
+ 5 Amp at 12 VDC setting  
+ 7.5 Amp at 24 VDC setting  
Up to 6 Aerosol Generators  
Upstream/Downstream valve  
Aerosol Dilution Bridge On/Off  
Test Running/Idle  
Pass/Fail

### Measured Parameters (if sensors are connected)

Filter Penetration and Efficiency  
Filter Resistance (differential pressure across filter)  
Filter flow rate  
Temperature  
Pressure  
Relative Humidity

Specifications are subject to change without notice. TSI, the TSI logo, and AeroTrak are trademarks of TSI Incorporated. Microsoft, Excel, and Access are trademarks of Microsoft Corporation.

### Supported Counters and Sizers

OPS 3330  
APC 7110  
Laser Photometer 8587A  
CPC 3772  
Electrostatic Classifier 3080

### Software

Supplied with Component Filter Test System Software

### Data Storage

Data Base (Microsoft® Access™) with tables for filter/media data, test parameters and test results.

### Result Reporting

Reports are generated via export to MS Excel® templates. Multiple templates are available and templates can be customized.

### Power Requirements

100 to 240 VAC, 50/60 Hz, 175 W maximum

### Dimensions (LWH)

48.3 cm x 13.3 cm x 33 cm (19 in. x 5.25 in. x 13 in.)

### Weight

5.5 kg (12 lb)

### Safety Certifications

CE Immunity/Emissions EN61236-1:2006  
CAN/CSA C22.2 No. 61010-1

### Included Accessories

Operation manual, power cord, USB cable and Component Filter Test System Software on CD, check-out certificate, connectors and adapters. Warranty One year, extended warranties available

### Operating Range

50° to 95°F (10° to 35°C), 20% to 95% non-condensing

### Storage Range

32° to 122°F (0° to 50°C), up to 98% RH non-condensing

To Order	Specify	Description
	3150	Component Filter Test System

Optional Accessories	Specify	Description
	3330	Optical Particle Sizer
	8587A	Laser Photometer
	7110	AeroTrak™ Remote Airborne Particle Counter
	3772	Condensation Particle Counter
	3080L	Electrostatic Classifier



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