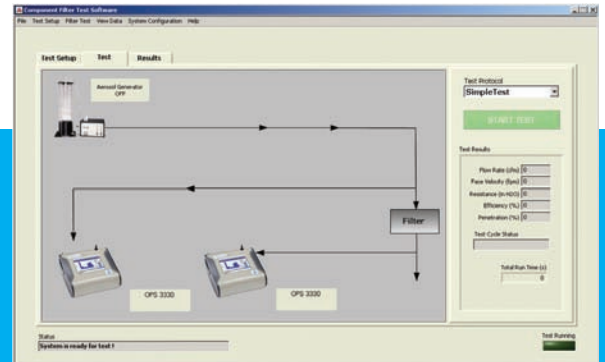


COMPONENT FILTER TEST SYSTEM MODEL 3150

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.

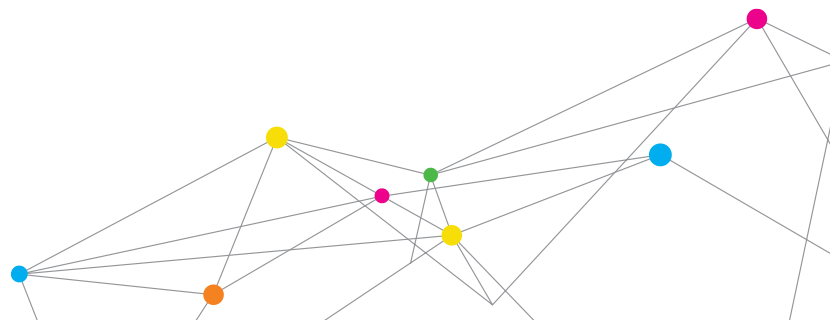
Whether designing a new test duct or updating an existing system the CFTS provides an easy to use system with the flexibility to meet your filter testing needs.

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



UNDERSTANDING, ACCELERATED



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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TSI Incorporated - Visit our website www.tsi.com for more information.

USA Tel: +1 800 874 2811
UK Tel: +44 149 4 459200
France Tel: +33 4 91 11 87 64
Germany Tel: +49 241 523030
India Tel: +91 80 67877200
China Tel: +86 10 8251 6588
Singapore Tel: +65 6595 6388