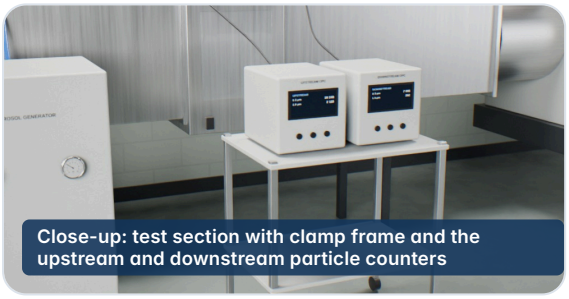
PRODUCT DATASHEET

Air Filter Test Rig (ISO 16890 and ASHRAE 52.2)

Duct rig for ventilation air filters: ePM efficiency, MERV and dust loading

Product page





Close-up: test section with clamp frame and the upstream and downstream particle counters

OVERVIEW

The Tech Inc. Air Filter Test Rig (ISO 16890 and ASHRAE 52.2) is a duct test rig for general ventilation air filters. Clean air is drawn through a HEPA inlet filter and down the duct; test aerosol is injected, and optical particle counters sample upstream and downstream of the filter in the test section to give efficiency at each particle size.

TYPICAL DESIGN DATA

Test methods	ISO 16890 series; ASHRAE 52.2
Aerosols	DEHS and KCl aerosol generators; dust feeder for loading
Particle counting	Optical particle counters upstream and downstream
Codes and standards	ISO 16890 series, ASHRAE 52.2; CE marking
Air flow	Measured by flow nozzle and set by the variable-speed fan
Results	Efficiency at each particle size, ePM and MERV classification, pressure drop and dust loading curves, with reports
Duct	Stainless steel duct sections with flanged joints on painted steel stands

MODELS AND CAPACITIES

- **TI-AFT-610** – rig for 610 mm × 610 mm filter faces
- **TI-AFT-M** – rig for media flat sheet and small filters

Rigs are built to the filter face sizes and air flows you test.

ORDERING CODE

Example **TI-AFT-610**: **610** filter face size: 610 for 610 mm × 610 mm, M for media and small filters.

SCOPE OF SUPPLY

Included: factory acceptance test with a written report; drawings for approval, material certificates and manual. **Options:** conditioning chamber for ISO 16890 discharge of filters; media test holder; humidity control of the inlet air; installation, commissioning and operator training.

KEY ADVANTAGES

- **Two standards** – ISO 16890 and ASHRAE 52.2 on one duct
- **Efficiency by size** – counters upstream and downstream
- **Dust loading** – pressure drop and gravimetric results
- **Clean inlet air** – HEPA filter at the duct inlet

Designed and built by Tech Inc. · **Part of the Davey Group since 1990**

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