PRODUCT DATASHEET

Fuel/Water Separation Test Rig (ISO 16332)

Fuel/water separation efficiency of diesel fuel filters

Product page





Close-up: fuel filter with clear water bowl, flow meter and downstream water measurement

OVERVIEW

The Tech Inc. Fuel/Water Separation Test Rig (ISO 16332) measures how well a diesel fuel filter removes water from fuel. Water is dosed into the circulating fuel and broken into fine droplets upstream of the filter; the separated water collects in the filter bowl, and samples taken downstream show how much water got through.

TYPICAL DESIGN DATA

Test methods	ISO 16332:2018; SAE J1488
Water dosing	Metering pump with flow measurement; droplet size set by the mixing pump or valve
Water measurement	Downstream samples analysed for water content; online water sensor optional
Codes and standards	ISO 16332:2018, SAE J1488; CE marking
Test fuel	The fuel the method specifies; temperature held; interfacial tension checked
Results	Water upstream and downstream against time, separation efficiency and report
Wetted parts	Stainless steel vessels and pipework; seals compatible with diesel fuel

MODELS AND CAPACITIES

- **TI-FWS-S** – rig for on-engine and pre-filters
- **TI-FWS-L** – rig for larger separators and filter assemblies

Rigs are built to the filter flows and fuels you test.

ORDERING CODE

Example **TI-FWS-S**: **S** size: S on-engine and pre-filters, L larger separators.

SCOPE OF SUPPLY

Included: factory acceptance test with a written report; drawings for approval, material certificates and manual. **Options:** online water sensor downstream; karl Fischer titrator for samples; fuel chiller; installation, commissioning and operator training.

KEY ADVANTAGES

- **Standard methods** – ISO 16332 and SAE J1488
- **Controlled emulsion** – water dosing and mixing set and logged
- **Clean-up loop** – fuel dried and cleaned between tests
- **Clear bowl** – separated water seen during the test

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

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