



Testand

Filter Test Products by Emprise Corporation

Advanced Multi-Spec Fuel/Water Separator Test Stand

A fully automated system for ISO 16332, SAE J1488 and SAE J1839 testing

The Model 12230 performs fully automated and unattended testing of fuel/water separators used on diesel engines per ISO 16332, SAE J1488 and SAE J1839. The system features a “patent pending” automatic sampling, sonication and titrating system with high accuracy and repeatability.



Test filter installation configured for ISO 16332



Automatic titration system

Specifications

Fuel Circuit:

Flow Range	1-25 Lpm (0.25- 6.6 gpm) other ranges available
Flow Accuracy (dual flow meters)	0.1% of reading
Temperature Control	±2°C
Static Pressure Control	0-140 kPa ±14 kPa (0-20 psig ±2 psig)
Differential Pressure Control	1-260 hPa ±1 hPa (0-4 psi ±0.15 psi)
Fuel Tank Capacity	325 L
Fuel Tank Outlet Configuration	Both SAE & ISO
Waste Tank Capacity	15 L
Tank and Tubing Material	Stainless Steel
Fuller's Earth Conditioning Circuit	Included
Optional Fuel Preparation Cart	75 L capacity with Fuller's Earth treatment

Water Circuit:

Deionized Water Supply Rate	0.9 Lpm
Metering Pump Injection	Precise Automatic Ratio Control
Injection Rate	1.0-576 mLpm
Clean-up Filter Rating	30 ppm @ 25 Lpm w/ automatic drain
Optional Water Collection Cart	75 L capacity

Analysis Circuit:

Automatic Sampling and Titration	Provides Near Real-Time Results (Patent Pending)
Repeatability	exceeds ISO requirement of 2%±0.1%
K-T Titration Water Content Measurement	0.3% reproducibility

User Interface, Controls and Data Acquisition:

CPU	Dell OptiPlex w/ Intel Core™ processor or equal
Operating System	Microsoft Windows 7
User Interface	22" LCD monitor, keyboard & mouse
I/O Hardware Platform	National Instruments CompactRIO
Application Software	Custom NI LabView executable w/ graphical displays,
Data Output	Tabular and graphical test reports, .xlsx files

Utility Requirements & Environmental:

Electrical	480 Vac/3Ph/ 60Hz/25A (International voltages available)
Tap Water	1.0 Lpm @ 400-700 kPa (.26 gpm @60-100 psig)
Cooling Water	Customized to customer's cooling water source
Compressed Air	0.14 m ³ /min @ 550 kPa (5 cfm @ 80 psig), dry & oil free
Ventilation	150mm (6") connection
Ambient Operating Temperature	10-40 °C (50-104°F)

Consult Emprise for options and custom features.
Turn-key installation and on-site training are available.

Emprise Corporation/Testand Filter Test Products

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10/09/2013

