



Testand

Filter Test Products by Emprise Corporation

Pressure Impulse Fatigue Test Stand

A fully automated system for SAE HS-806 and ISO 4548-5 testing

The Testand Pressure Impulse Fatigue Test Stand makes use of modern hydraulic control valve technology to provide a test stand that is simple to operate, accurate, and flexible. The Impulse Test Stand is designed to test spin-on and cartridge type filter assemblies for their resistance to fatigue failure within their envelopes. The design is based on performing the SAE HS-806, Section 13 and ISO 4548-5 pressure waveforms but other waveforms are easily run as well. The system is suitable for both production audit testing as well as product development and qualification testing.





Test filter adapters are available for most filter housing types
Multiple filter types can be tested simultaneously

Specifications

Test Articles:	spin-on, cartridge and in-line filters for lube oil, hydraulic oil and fuels
Test Stations:	systems available for 1 to 12 test stations, each running independently
Hydraulic Circuit:	
Frequency Range	0-3 Hz square wave, 0-5 Hz sine wave
Pressure Range	0-6900 kPa (0-1000 psig)
Pressure Control	servo valve with closed-loop PID control
Oil Temperature Range	ambient to 140°C (284 °F)
Temperature Control	automatic PID control, $\pm 2^{\circ}\text{C}$
Oil Tank Capacity	225 L (60 gal)
Tank and Tubing Material	Stainless Steel
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/40A (International voltages available)
Cooling Water	12 lpm (3 gpm) @ 30°C (85 °F)
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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