The Only Instrument Available for SAE ARP 5996!



The Falex Thermal Fouling Tester (FT²) is the first instrument designed specifically for the SAE ARP 5996 Evaluation of Coking Propensity of Aviation Lubricants Using the Single Phase Flow Technique.

The FT² is the ultimate in ease of operation and provides user flexible programmability with extensive customizable safety and shutdown protocols. The FT²'s enhanced hotspot determination and profile automation routines assure the highest precision for your critical turbine oil analysis laboratory.

A lubricant sample is passed over a pressurized, tube-in-shell heat exchanger for a set time period. The specimen tube, made of 316 stainless steel, is weighed before and after the test to determine the amount of coking propensity exhibited by the test lubricant.

» An integrated Peltier cooling system saves valuable bench space and provides consistent cooling temperatures for each test

TALES !

- » Automatic tube temperature profiles reduce operator time and improve test precision
- » A redundant safety system keeps the unit self-sufficient in case of leak, mishap or power outage
- » High-Speed data acquisition of all critical thermocouples and system outputs
- » Hermetically-sealed gear pump for leak-free longevity and pulse-dampened flow
- » Customizable test parameters for additional points of research



Falex FT² SAE Technical Data

Operation

Sample volume 100 mL to 1 L

Tube temperature range 300 °C to 450 °C

Heated reservoir range 100 °C to 210 °C

Units of temperature °C, °F

Fluid flow rate 0.55 to 10 mL/min
Test duration 2.5 to 500 hours
Pressure 0 to 200 psi
Units of pressure kPa, PSI

Data Management

Display Real time on screen trend data Results download Hot spot profile, Test data

File type .csv

Interface

User Interface 12" LCD can be used with gloves,

USB, keyboard and mouse USB (5), Ethernet (2)

Data input/output USB (5), Ethernet (
Printer options USB, Ethernet

Calibration

Temperature 2-point temperature calibration Pressure 2-point pressure calibration

Power Requirements

Voltage x 2 115V 60Hz or 230V 50/60 Hz Plug Type 1 NEMA 5-20 or NEMA 6-15

Utility Requirments

Pressure Nitrogen or Air

Physical

Dimensions 30" x 30" x 22"

Weight 175 lbs. (without options)

Ordering Information

Part Number De	escription
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450-001-001 Falex Thermal Fouling Tester (FT²), (SAE) 115 V, 50/60 Hz 450-001-002 Falex Thermal Fouling Tester (FT²), (SAE) 230 V, 50/60 Hz

System Options

450-109-006 Remote Emergency Stop

Consumables and Spare Parts

 400-018-003
 Insulation Bushing Set (2 pairs)

 450-041-005
 Tube Holder (dual tube)

 450-050-006
 Drip Assembly (customer should also buy 620-011-010 O-Ring kit)

 450-097-003
 O-Ring kit for 20 tests Includes O-Rings for reservoir lid (1 ea., 620-238-003) heater tubes (45 ea., 620-008-005) and tubing connections (220 ea., 620-006-003)

 450-097-006
 O-Ring Kit, Sight Glass

450-099-001Heater Tube Holder Assembly450-106-006Heater Jacket (Bolted Flange)450-109-004Thermocouple Assembly-inlet/outlet450-105-014Reservoir (1,000ml Bolted Flange) with sight glass assembly620-006-004O-Ring, tubing (100 ea. of 620-006-003)

620-008-006 O-Ring, heater tube (23 ea. of 620-008-005) 620-210-001 Pre-Filter O-Ring (5/bag)

520-238-005 O-Ring, reservoir lid (5 ea. of 620-238-003)

648-400-005 Box of Prefilters (25/box)

648-400-007 Hex Socket Wrench
648-400-009 Ceramic Insulator Removal Tool

648-450-001 Heater Tube Cleaning Brush
650-009-061 Thermocouple, Heater Tube

Heater Tube Specimens

400-560-003 Heater Tube, 316 Stainless Steel (12/box)

Falex Corporation follows a policy of continuous product improvement. Specifications are subject to change without notice.

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