

# Falex Thermal Fouling Tester (FT<sup>2</sup>)

- ▶ Full Data Acquisition and Control
- ▶ Automatic Tube Temperature Profile
- ▶ Integrated Safety System
- ▶ Small and Compact
- ▶ Safe and Reliable

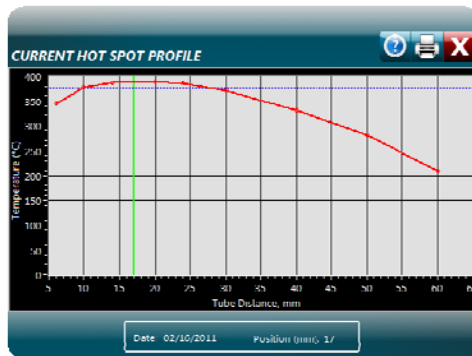


## Methods

Conforms to:

- SAE ARP 5996B

The Falex FT<sup>2</sup> (SAE) is the first instrument designed specifically for the SAE ARP 5996B Evaluation of Coking Propensity of Aviation Lubricants Using the Single Phase Flow Technique Test Method.

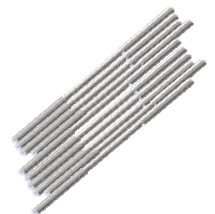


With the features that users have asked for, it's the ultimate in ease of use and fully flexible programmability. At the same time, the FT<sup>2</sup> gives you convenient, flexible programming along with extensive, customizable safety and shutdown protocols. The FT<sup>2</sup>'s enhanced hotspot determination and confirmation routines mean the Falex FT<sup>2</sup> should be a part of your critical turbine oil analysis laboratory!

The FT<sup>2</sup> Refinery Process Analyzer (RPA) is helpful for research projects and production studies of heat exchanger fouling tendencies, antifoulant efficiency studies and crude oil fouling studies.

## Heater Tube Materials

| Part Number | Material                  |
|-------------|---------------------------|
| 400-560-001 | Aluminum, with dp filters |
| 400-560-003 | 316 Stainless Steel       |



# FT<sup>2</sup> *for the ultimate evaluation of crude and lubricating oil coking tendencies*

## Common Technical Data

|                                |  |
|--------------------------------|--|
| <b>Heater Tube Temperature</b> | 300 - 450°C max.                                       |
| <b>Fluid Flow Rate</b>         | 0.55 - 10 mL/min                                       |
| <b>Sample Capacity</b>         | 1 L under system pressure                              |
| <b>Test Duration</b>           | 2.5 - 500 hours  |
| <b>Dimensions (HWD)</b>        | 30 x 30 x 22 in, 175 lb<br>762 x 762 x 559 mm, 79.5 kg |
| <b>Interfaces</b>              | USB, Ethernet  |

## SAE ARP 5996 System (SAE)

### Temperature Range and Capabilities

|                  |                          |
|------------------|--------------------------|
| <b>Reservoir</b> | 150°C max.               |
| <b>Pressure</b>  | 0 - 200 psi (1.38 MPa)   |
| <b>Power</b>     | 120 or 230 VAC, 50/60 Hz |

## Refinery Process Analyzer (RPA)

### Temperature Range and Capabilities

|                  |                         |
|------------------|-------------------------|
| <b>Reservoir</b> | 150°C max.              |
| <b>Pressure</b>  | 0 - 1,000 psi (6.9 MPa) |

### External Bus Bar Cooler

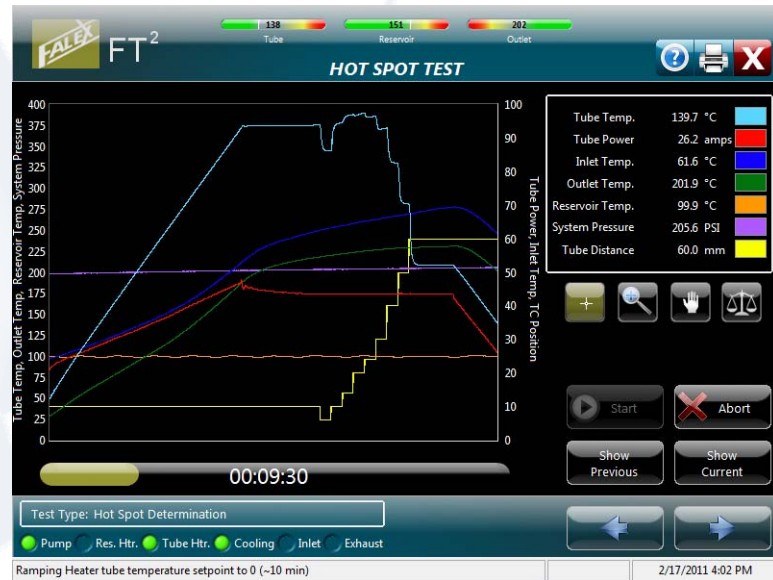
### Optional Heated Lines

### Optional 2nd reservoir

NOTE: Maximum design parameters may not be achievable simultaneously in all situations.

## Ordering Information

| Part Number | Description  |
|-------------|--|
| 450-001-001 | <b>Falex Thermal Fouling Tester (FT<sup>2</sup>)</b><br>per SAE ARP 5996B, 120 V, 50/60 Hz           |
| 450-001-002 | <b>Falex Thermal Fouling Tester (FT<sup>2</sup>)</b><br>per SAE ARP 5996B, 230 V, 50/60 Hz           |
| 450-001-004 | <b>Falex Thermal Fouling Tester (FT<sup>2</sup>)</b> ,<br>Refinery Process Analyzer, 230 V, 50/60 Hz |



## Available Options and Spare Parts

| Part Number | Description   |
|-------------|---|
| 450-097-004 | <b>Heated Test Supply/Return Lines Kit (RPA)</b>  |
| 450-106-002 | <b>Pump Heater Jacket (RPA)</b>   |
| 450-200-003 | <b>Differential Pressure System Assembly (RPA)</b>  |
| 450-200-004 | <b>2nd Reservoir for Single-pass Testing (RPA)</b>  |
| 450-097-003 | <b>O-Ring kit for 20 tests</b><br>Includes o-rings for reservoir top, outlet port, pump fittings, line connections and thermocouple connections |
| 450-097-006 | <b>Sight-Glass O-Ring Kit</b>   |
| 450-103-008 | <b>Heater Tube Thermocouple</b>   |
| 450-109-004 | <b>Inlet or Outlet Thermocouple</b>   |
| 450-109-006 | <b>Remote Emergency E-Stop</b>  |
| 450-200-002 | <b>Replacement oven tube holder</b>   |
| 450-106-001 | <b>Heater Jacket (SAE)</b>  |
| 450-106-003 | <b>Heater Jacket (RPA, Bolted Flange)</b>   |

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