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Jet Fuel Thermal Oxidation Tester

JFTOT II

Safe, Simple, and Economical Jet Fuel Stability Analysis

Meets ASTM D 3241
test method

Compatible with alternate test
procedures and fuels (diesel,
turbine, spark ignition,
and others)

Menu-driven programming
guides operator through the
standard ASTM D 3241 test or
customized test protocols

Fast test setup...all test
components easily accessible
from front of instrument

Precise, microprocessor
control of all test functions
and operational parameters

Local digital display, serial data
port, and printer provide instant
access to test results

Simple to install — the only
utility needed is electrical power;
no nitrogen, external cooling water,
or drain required

Built-in safety system
automatically stops the flow
of test fuel in the event of an
O-ring leak or tubing break



JFTOT II...

The Next Generation in Jet Fuel Stability Testing

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Since the mid-1980s, the ALCOR JFTOT has set the standard for measuring and verifying the thermal stability of jet fuel. Our newest instrument — the JFTOT II — raises that standard to an even higher level.

A fully integrated bench-top unit, the JFTOT II provides everything needed to quickly, easily, and safely study the thermal oxidation of

petroleum-based liquid fuels. Test steps and timing are microprocessor-controlled. Fuel flow rate is governed via a sophisticated, high-pressure syringe pump. Test data is collected automatically. And test results may be viewed on the easy-to-read digital display and/or output to the printer.

As a result, users and producers of jet fuels and jet turbine engines are provided with unprecedented convenience and unparalleled accuracy in ASTM D 3241 testing. The JFTOT II — Jet fuel thermal oxidation testing for the millennium and beyond.



STANDARDIZED ASTM D 3241 OR CUSTOM TESTING...THE CHOICE IS YOURS

Even though the ASTM D 3241 test method was amended to incorporate the JFTOT II design, the instrument doesn't limit your thermal stability testing options to that particular standard. Choose the standard ASTM test or define your own custom program. The JFTOT II gives you complete control over all test parameters — test time, fuel flow rate, and tube temperature. And naturally, you can revise custom tests as your products and test needs evolve.

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EXPANDED PERFORMANCE OPTION

Thermal stability is a function of both time and temperature. And while the ASTM D 3241 test method allows you to vary the temperature of the heater tube, it can only detect deposits which form during a set time period (the time it takes to pass through with the heater tube and differential pressure filter). Unfortunately, some deposits may form only after an extended period of time.

The JFTOT II may be ordered with an second differential pressure transducer which allows you to investigate time delayed deposits. This optional configuration (the Model 240) features a second time reactor and filter mounted downstream of the first. The differential pressure across this second filter is a measure of the deposits which form after passing the initial filter. For optimum convenience, the second differential pressure cell may be bypassed to run standard ASTM D 3241 tests.

FAST, ACCURATE VISUAL TUBE RATINGS

The color rating of the heater tube is a required reporting parameter for ASTM 3241. The Alcor Visual Tuberator (VTR) meets the defined requirements of that standard.

The heater tube is attached to a holder and inserted in the VTR, along with the ASTM Color Standard (included). The tube holder may be moved up and down and rotated to locate the darkest section of the tube; the color codes on the ASTM Color Standard may be moved adjacent to the section of the tube being rated. Both are illuminated by special lights and are easily observed through an attached viewer.



Specifications

JFTOT II

Model 230 (1 ΔP)	Part Number 85410-xxx*
Model 240 (2 ΔP)	Part Number 85411-xxx*
Sample Capacity	600 ml
Test Temperature	180°C to 380°C
Differential Pressure	0 to 300 mmHg
Maximum Pressure Limit	550 psig
Electrical	115/230 VAC, 50/60 Hz, 6.25 amps
Weight	115 Kg (255 lbs.)
Dimensions (W x D x H)	77 x 52 x 89 cm 30.3 x 20.5 x 35.0 inches
Shipping (W x D x H)	132 x 61 x 122 cm 52 x 24 x 48 inches 177 Kg (390 lbs.)

* xxx = number to specify voltage, power cord, and language.

Visual Tuberator (VTR)

VTR (complete with ASTM Color Standard)	Part Number 85417 – (115 VAC, 50/60 Hz) Part Number 85418 – (230 VAC, 50/60 Hz.)
Electrical	1.5 amps @ 115 VAC, 50/60 Hz. 1 amp @ 230 VAC, 50/60 Hz.
Weight	8.4 Kg (18.5 lbs.)
Dimensions (W x D x H)	24 x 25 x 50 cm 9.5 x 10.0 x 19.7 inches
Shipping (W x D x H)	51 x 51 x 33 cm 20 x 20 x 13 inches 10 Kg (22 lbs.) boxed

Due to our commitment to continual product improvement, specifications subject to change without notice.

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