



# JFTOT<sup>®</sup> IV

The Worldwide Recognized Leader of Jet Fuel Thermal Oxidation Testing

- 🌐 Full Compliance with ASTM D3241, IP 323, and ISO 6249
- 🌐 Reduced vapor and fuel exposure
- 🌐 High levels of automation simplify operation
- 🌐 Reduced user intervention increases lab productivity

## IMPROVING JET FUEL THERMAL OXIDATION TESTING

PAC's Alcor JFTOT® is the globally recognized standard for jet fuel thermal oxidation testing with a worldwide installed base over 1000 instruments.

With the Next Generation JFTOT IV PAC brings an industry-leading product and adds enhanced safety features and simplified operational capabilities in a smaller, streamlined package that significantly increases operator productivity.

The Alcor JFTOT IV analyzers help you significantly improve your operations, in a easy, safe way while strictly following ASTM D3241, IP 323, and ISO 6249 test methods.



## KEY ADVANTAGES

### INCREASED LAB PRODUCTIVITY BY 25%

- Technical improvements contribute to a significantly faster analysis cycle time
- Reduced operator intervention by ~40 minutes
- Provides traceable results by storing the results electronically on the IHT, rather than only having a hard copy print out of the test

### ENHANCED SAFETY

- Decreased operator exposure to jet fuel vapor with a vapor containment system
- Prevents exposure to the hot heater tube section with a safety door; test won't start until the door is closed
- Reduced exposure to fuel by flushing it at the end of the test; keeps test section dry during disassembly



### SIMPLIFIED OPERATION

- Automated traditionally time-intensive manual activities, such as pump priming, flow monitoring, and sample aeration
- Enhanced user functionalities
- Easy and fast data extraction with the new fully integrated RFID reader/writer for the Intelligent Heater Tubes™ (IHT)
- Instrument software supports multiple languages



## CUSTOMER TESTIMONIAL

### *“JFTOT IV is significantly easier and safer to use”*

“We recently evaluated the Alcor JFTOT IV in our refinery lab and found that it was significantly easier and safer to use. Prepping a sample is much simpler since the number of steps required by the operator are reduced. In addition, the instrument’s prompt screen walks the operators through each step, which also aids in reducing operator errors. The operators are less exposed to the jet fuel, which is a great design improvement. With these improvements, we were able to easily train our operators on how to use the instrument in a short amount of time and also ensure their safety when performing this crucial test.”

Lee WT

#### SIMPLIFIED OPERATION

High levels of automation and hardware advancements reduce operator intervention by 80%

#### SAFETY FIRST

Sample and waste containers minimize jet fuel vapor exposure to operators and to the environment



#### EASE OF USE

Easy and fast data extraction with the new fully integrated RFID reader/writer for the Intelligent Heater Tubes (IHT)

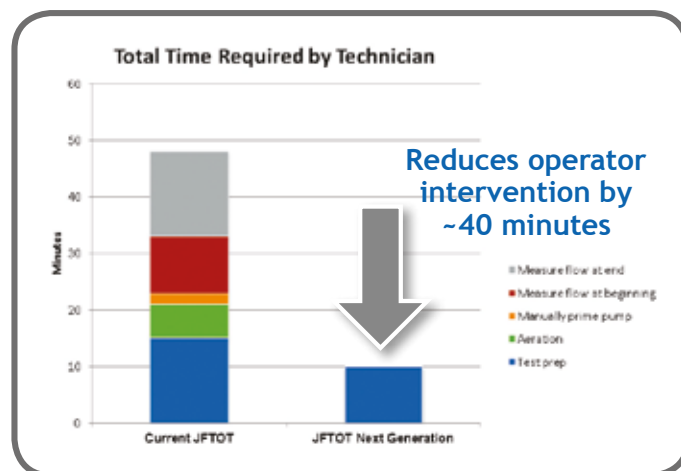
#### ENHANCED SAFETY

Sliding test door prevents exposure to the hot heater tube test section

## ROI STUDY

The technician now spends ~10 minutes performing any duties to run the samples versus the previous ~40 minutes. When running three tests per day, this time savings translates into:

- 2 hours per day
- 10 hours per work week
- 520 hours per year (65 days per year)
- **10/40 (hours per week) = 25% saved time**





## SPECIFICATIONS

Sample Capacity	600 mL or more
Test Temperature	100°C - 380°C
Differential Pressure Range	0 - 280 mm Hg (automatically bypassed at +250 mm Hg)
Operating System Pressure Range	500 psig ± 10%
Electrical - Universal Power Input	100 - 240 VAC ± 10%
Fuel Sample Flow Rate Range	1.00 ml/min to 9.99 ml/min
Flow Accuracy	± 2%
Pump	HPLC, Single Head, SS, Pulse dampened
Thermocouple Type	K (Chromel/Alumel)
Thermocouple Temperature Range	0°C to +500°C
Test Time Range	Programmable 4 to 600 minutes
Fuel Aeration Timer	6 minutes
Aeration Flow Rate	1.5 L/min
Coolant Flow Rate	38 L/hr (10 Gal/hr)
Ambient Operating Temperature Range	+10°C to +35°C (D3241 test limited to +15°C to +32°C)
Maximum Operating Current	7A/3.5A
Relative Humidity	20% to 90% non-condensing
Weight	60 kg (133 pounds)
Size - w x d x h	44 cm X 60 cm X 67 cm (17.3" X 23.4" X 26.6")

Continuing research and development may result in specifications or appearance changes at any time

## ABOUT PAC

PAC develops advanced instrumentation for lab and process applications based on strong **Analytical Expertise** that ensures **Optimal Performance** for our clients. Our analyzers help our clients meet complex industry challenges by providing a low cost of ownership, safe operation, high performance with fast, accurate, and actionable results, high uptime through reliable instrumentation, and compliance with standard methods.

## HEADQUARTERS

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Our solutions are from industry-leading brands: AC Analytical Controls, Advanced Sensors, Alcor, Antek, Herzog, ISL, Cambridge Viscosity, PSPI, and PetroSpec. We are committed to delivering superior and local customer service worldwide with 16 office locations and a network of over 50 distributors. PAC operates as a unit of Roper Technologies, Inc., a diversified technology company and a constituent of S&P 500, Fortune 1000, and Russell 1000 indices.



Contact us for more details.

Visit our website to find the PAC representative closest to you.