

The Worldwide recognized Leader of  
Jet Fuel Thermal Oxidation Testing

# JFTOT<sup>®</sup> IV

  
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 **Alcor**  
by PAC

Improving your JFTOT<sup>®</sup> Analysis in Full Compliance with  
ASTM D3241, IP 323, and ISO 6249

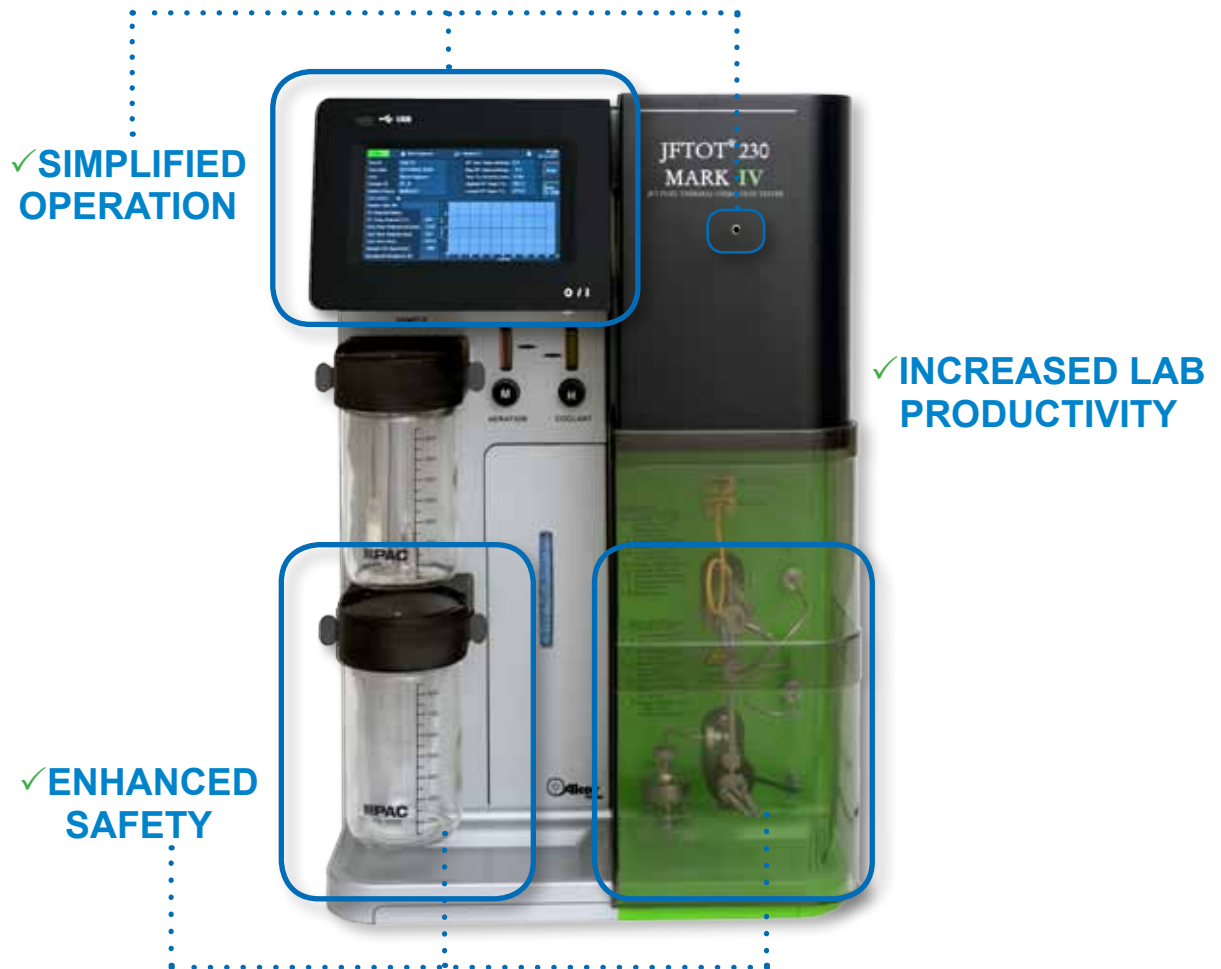
- Enhanced Safety - Reduced vapor and fuel exposure
- Simplified Operation - High levels of automation
- Increased Productivity - Reduced user intervention

## IMPROVING JET FUEL THERMAL OXIDATION TESTING IN FULL COMPLIANCE WITH ASTM D3241, IP 323, AND ISO 6249

Alcor's 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 Alcor 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.



### ALCOR BY PAC, THE WORLDWIDE RECOGNIZED INDUSTRY STANDARD FOR JET FUEL THERMAL OXIDATION TESTING

From performance and profitability to standards compliance, Alcor's customer-centric approach helps end-users meet their operational goals with solutions that improve safety, simplify operation, and optimize productivity, while ensuring cost containment and regulations compliance. Alcor by PAC is a global supplier of advanced petrochemical, fuel, and lubricant research and testing solutions for aviation. Alcor was a pioneer of thermal jet fuel oxidation testing and has been manufacturing JFTOT instruments since 1972. We are the undisputed industry leader, with over 1000 JFTOT analyzers in the field.



## ENHANCED SAFETY

### Creating a safe environment in the lab

Improved built-in safety:

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



## SIMPLIFIED OPERATION

### High levels of automation and hardware advancements

- automating 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 Alcor Intelligent Heater Tubes™ (IHT)
- instrument software supports multiple languages.



## INCREASED LAB PRODUCTIVITY BY 25%

### Reduced user intervention

JFTOT IV with advanced technology improvements:

- contribute to a significantly faster analysis cycle time
- reduces operator intervention by ~40 minutes
- allows the operator to focus on higher value responsibilities.
- Provides traceable results with the IHT by storing the analysis data electronically on the IHT, rather than only having a hard copy print out of the test



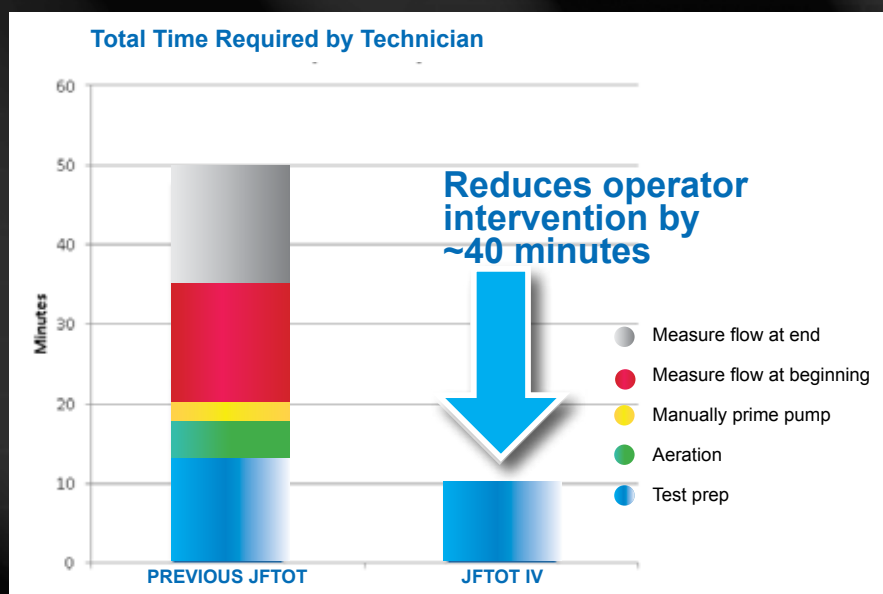
## ROI STUDY

### THE JFTOT IV INCREASES OVERALL LAB PRODUCTIVITY BY 25%

The technician now spends ~10 minutes performing any duties to run the samples versus the previous ~50 minutes. When running three tests per day, this time savings translates into:

- 2 hours per day
- 14 hours per week
- 728 hours per year
- 91 work days (8-hour days) per year

91/365 (total # of work days) = 25%





# solidpartners provensolutions

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PAC Authorized Representatives are also located in most countries worldwide. For more information visit [www.pacpl.com](http://www.pacpl.com)

## SPECIFICATIONS

Ordering Information	
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%
Weight	60 kg (133 pounds)
Dimensions - w x d x h	44 cm X 60 cm X 67 cm (17.3" X 23.4" X 26.6")
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

## ABOUT PAC

In your complex industry, you need to balance safety and efficiency, while maximizing profits. Keeping the process running at its peak – with minimal maintenance costs and controlled operation costs – has never been more important.

PAC has a long history of focusing on both the laboratory and process environments. By using the same technologies in both environments, we offer tighter data correlation, which translates into better process control. Our solutions include industry-leading brands such as AC Analytical Controls®, Alcor, Antek, Herzog, ISL, Cambridge Viscosity, PSPI, and PetroSpec. We manufacture a wide range of multivariable instruments that provide actionable information and diagnostics capabilities, while requiring little operator intervention. They are easy to use and maintain, and safe to operate.

Our commitment to our customers is demonstrated in our global service and support organization. Reliable instruments, accurate data, reduced downtime, around-the-clock service, and a passionate customer commitment.



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