

PRODUCT BROCHURE

ANALECT® RefinIR™

Next Generation Laboratory Hydrocarbon Analyzer
for Automated Process Development



Superior Reliability

Fast And Precise

Maximize Profits

- Delivers automated spectral data acquisition of multiple liquid refinery stream samples from crude oils to blended gasoline and diesel
- Can provide process quality measurements
- Rapid collection supports model building

Laboratory Autosampler & FTIR Instrument

The all new ANALECT® RefinIR™ is a fully integrated laboratory autosampler and FTIR instrument. It is designed to measure liquid hydrocarbons including gasoline, diesel and crude oils in a single autosampler. It features the Diamond 20™ Transept™ interferometer platform with the improved DCM 600™ data acquisition electronics. This provides improved performance utilizing SpectraQ software with a customizable HMI for operating the system. Determination of physical properties and chemical composition can be achieved with the touch of a button.



The ANALECT RefinIR system automates the calibration data collection in support of the Hydrocarbon Smart System® online process analyzer.

Customer Benefits

With one touch of the button, SpectraQ software allows the user to automatically collect FTIR spectra of a full carousel of samples. In addition, the software provides the user the ability to perform a full ASTM D6122 validation to ensure spectral integrity.

- Automated data collection minimizes technician time
- Can provide process quality measurements
- Rapid collection supports model building

ANALECT RefinIR Features

- Delivers automated spectral data acquisition of multiple liquid refinery stream samples from crude oils to blended gasoline and diesel
- Autosampler can be heated up to 125°C to allow sampling of heavy crudes and intermediates, such as FCC feed
- Holds 24, 15 ml vials and automatically transfers the sample to a flow-through transmission cell embedded in the auto-sampler
- Includes compliance to ASTM D6122 via a wash and validation functionality that eliminates cross-contamination of samples and provides a quick assurance of spectral quality
- Reduces the laboratory benchtop footprint of the prior ANALECT RefinIR by up to 60%
- Newly designed carousel for robust operation

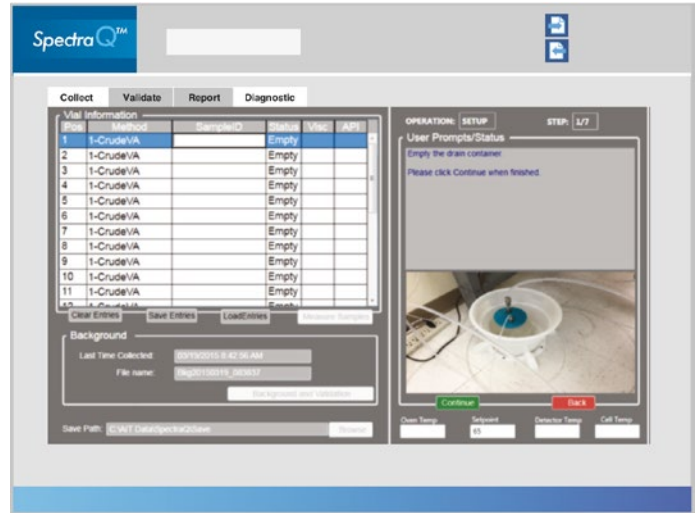
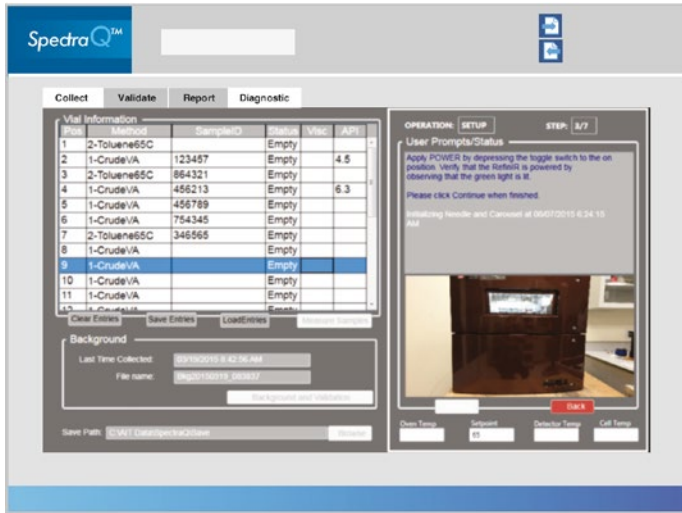
Experience And Support Makes A Difference

Our staff of applications experts provide feasibility and calibration services that set the worldwide standard. We also provide system integration and post-installation support to ensure your success. We also offer annual hardware maintenance and calibration modeling service support agreements.

SpectraQ Software Simplifies the Data Collection Process

With one touch of the button, SpectraQ software allows the user to automatically collect FTIR spectra of a full carousel of samples. In addition, the software provides the user the ability to perform a full ASTM D6122 validation to ensure spectral integrity.

- Full chemometric modeling capability including SpectraQuant is available. Optional third party chemometric software can be added including MATLAB®, Eigenvector SoloPredictor® and Unscrambler.
- Communications options – Modbus®, OPC® and ethernet to LIMS.



Specifications:

Single-cell system for analyzing liquid hydrocarbons

0.25 and 0.5 mm pathlength liquid transmission cell

Maximum vial-to-vial cross contamination : < 0.1%

Optibus™ optical transfer components integrate with the Diamond 20™ Transept interferometer

Thermo-electrically stabilized DTGS detector

115 VAC/60 Hz or 230 VAC 50/60 Hz

Automated sampling system including carousel for twenty four (24) 15ml vials

Two (2) liter vessels for wash and validation solvents

Oven controllers and intrinsically safe sensors to enable the sampling of flammable and non-flammable samples over the range of 40°C +/- 1°C to 125°C +/- 1°C

Analog input card for the host computer to read cell temperature

Dimensions:

74H x 60W x 45D cm (29H x 24W x 18D in.) Weight: 90 kg (200 lbs)

GAIN REAL-TIME INSIGHT INTO YOUR PROCESS

Process Insights delivers premium analytical sensors, analyzers, instrumentation, software and solutions that are mission-critical to keep your operations, personnel, and the environment safe. Our commitment to customer satisfaction is evident through our diverse range of products, programs, and services, designed to accommodate various budgets and application needs.

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