FTIR/FT-NIR Accessories

The **Analect RefinIR and RefinIR 100t**[™] lab automated sampling accessories are designed to operate with the Analect Diamond 20[™] FTIR lab analyzer. The systems are used for routine analysis of refinery and petrochemical samples. Determination of physical properties and chemical composition can be achieved with the touch of a button. These systems automate calibration data collection to support the FTIR and FT-NIR on-line process analyzers.

Analect RefinIR 100t System

- Semi-automatic sampling oven for data acquisition for twelve 40ml liquid samples at temperatures up to 100°C.
- Oven controllers and intrinsically safe sensors enable the sampling of flammable products.
- Heavy hydrocarbons analyzed include crude oil, heavy napthas, cat feed, lube oils and lube oil additives.



RefinIR 100t

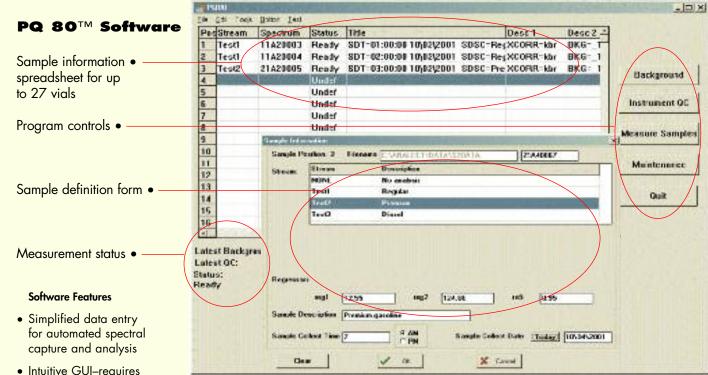
Analect RefinIR System

- Delivers automated data acquisition of multiple liquid samples of light hydrocarbons at ambient temperatures.
- Holds twenty-seven 40ml vials and automatically transfers the sample to a flow-through transmission cell installed in the Diamond 20 lab system.
 - Light hydrocarbons include gasoline, diesel, reformate.

For both the sampling accessories, wash and validation functionality eliminates cross-contamination of samples and provides quick assurance of spectral performance.



AIT Applied Instrument Technologies • Analect RefinIR + RefinIR 100t™



- Infultive GUI-requires no technical training to use
- Built-in hints for ready assistance
- Extensive ASTM protocols to ensure data validity
- Easy setup with ability to define modeling and QC limits by sample type
- Starter models available
- FTIR data station included with Diamond 20 analyzer

AIT provides extensive applications, modeling and engineering support.

After market service includes field service as well as hardware and software maintenance contracts.

Specifications

RefinIR and RefinIR 100t hardware features

- Single-cell system for analyzing similar components
- 0.5 mm pathlength liquid transmission cell
- Maximum vial-to-vial cross contamination: 0.1%
- Optibus[™]optical transfer components integrate with the Diamond 20[™] analyzer
- Thermo-electrically stabilized DTGS detector
- 115 VAC/60 Hz or 230 VAC 50/60 Hz

RefinIR 100t (specific features)

- Optional dual-cell system for additional applications
- Semi-automatic sampling system inside an oven including a carousel for twelve (12) 40ml vials
- 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 100°C +/- 1°C
- Analog input card for the host computer to read cell temperature
- Dimensions: 74 x 71 x 43 cm (29 x 28 x 17 inches) Weight: 73 kg (160 lb)

RefinIR (specific features)

- Automated sampling system including carousel for twenty-seven (27) 40ml vials
- Two (2) one-gallon vessels for wash and validation components
- Dimensions: 54 x 54 x 62 cm (21 x 21 x 25 inches) Weight: 37 kg (80 lb)

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