

OPSIS LiquidLINE KjelROC Autosampler

Automatic High Precision Kjeldahl System



WHY KJELROC AUTOSAMPLER?

OPSIS LiquidLINE brings innovation to a 100-year old reference method.

- Improved accuracy with unique Predictive Titration
- Improved workflow with the user in the driving seat, having Ethernet/ Wireless and easy communication with other systems
- Fully automatic analysis of up to 25 samples. Insert a tube rack and return later to collect your results



IMPROVED ANALYTICAL RESULTS INCREASE USEFULNESS AND SAVES COSTS

- The OPSIS LiquidLINE Predictive Titration lowers the Relative Standard Deviation (rsd) and increases the flexibility with different indicators. This gives increased usability of your instrument
- Large refillable burette saves time and costs when moving between high and low protein content
- The possibility to select continuous or separate distillation/ titration increases the flexibility and gives unique low LOD and LOQ

CONNECTING YOUR LABORATORY INCREASES EFFICIENCY AND REDUCES COSTS

- Efficient Digital workflow with included OPSIS LiquidLINE LabConnect software, compliant with ISO 17025 and CFR Title 21 Part 11
- Connect balances and exchange data with LIMS systems
- Upgrade to LabConnect Full software license and get tools to analyze your results and work with other methods*

AUTOSAMPLER SAVES COSTS AND IMPROVES QUALITY

- An Autosampler allows automatic analysis of up to 25 samples. Insert a tube rack and collect the results afterwards
- Improve handling and reduce errors by moving a complete tube rack into the Autosampler
- Prepared for ISO 17025 and GLP reduces time and costs when integrating the instrument into the Lab. IQ/OP/PQ documents can be purchased.

* LabConnect Full license upgrade is an additional license, not included in delivery

BENEFITS

After more than 25 years of experience within analysis, we will now raise the standard for Quality Instruments, Information Exchange and Analysis in samples like Food, Forage and Liquids. The KjelROC is prepared for the future with several new, unique, benefits.

HIGH PRECISION TITRATION SYSTEM

The KjelROC is designed for colorimetric titration and fully complies to standards issued by organisations such as AOAC, IDF and ISO. A unique Titration system, OPSIS LiquidLINE Predictive Titration*, lowers rsd which directly transforms to more precise results. A large burette with automatic refill during analysis will also secure a wide analysis range.

- OPSIS LiquidLINE unique Predictive Titration* lowers rsd and simplifies the use of different indicators
- The unique Predictive Titration* allows for automatic refill during analysis without affecting the precision
- 50 ml Burette and refill secures a wide analysis range and lowers the analysis time
- Burette with a resolution of 1.95 µl/step gives unmatched precision
- Easy exchangeable Glass Splashead minimises carry-over effects
- PTFE tubes limit air bubbles

* Patent Pending

THE UNIQUE PREDICTIVE TITRATION
SYSTEM LOWERS THE RELATIVE
STANDARD DEVIATION AND THE
50 ML BURETTE WITH AUTOMATIC
REFILL MAKES IT EASY TO CHANGE
BETWEEN HIGH AND LOW PROTEIN
ANALYSIS



CONNECT YOUR LABORATORY

Connect the KjelROC Analyzer to your Laboratory information flow. The LabConnect software is delivered together with all KjelROC Autosamplers.

- Complete solution to register your weights and analyse your results, including direct import from connected balance and/or barcode scanner.
- Send weights and retrieve results between KjelROC Analyzer, PC, iPad or iPhone. Export to other LIMS systems or save in Excel, .CSV or PDF format
- Trusted IT security. No data is exchanged on the internet (no external cloud servers)
- User Management and Traceability of your data. Compliant with FDA Title 21 CFR Part 11

LabConnect software can also be upgraded with the Full license

- Analysis Module with Statistical Tools
- One software for all your Protein, Moisture, Ash, Fiber and Fat analyses. The LabConnect Full will even work with instruments from other brands.



THE TRANSFER UTILITY (iPAD) AND THE LABCONNECT SOFTWARE ALLOWS FOR EASY CONNECTIVITY TO YOUR LABORATORY

THE OPSIS LIQUIDLINE LABCONNECT SOFTWARE



Labconnect Standard license is delivered together with all OPSIS LiquidLINE KjelROCs, SoxROCs and FiberROCs

Labconnect Full license is an upgrade that allows expansion with analytical tools and exchange of data to other instruments

ADAPTIVE WORKFLOW

Use your existing lab procedures or use our ready-to-use programs. The instrument is fully flexible to adapt to your demands which reduces integration costs.

- With our adaptive workflow you are always in control, for example handling express samples with no previous weight entry, weight entry via touch screen or weight entry from an external device. Any combination is possible.
- Customisable touch screen to define your own workflow. For example, you can personalise settings for results types, methods or analysis sequence to simplify your daily routine. Your dedicated buttons for operation are accessible directly at start-up.
- The KjelROC offers different access levels and menus according to GLP requirements. A dedicated menu allows the lab manager to further control settings of the instrument such as Burette test, Titration Endpoints, Factory defaults and Time & Date.
- An extensive set-up of User Protection safety systems is included in the KjelROC. Sensors will, for example, detect if tube is missing or if protection door is open. Automatic Tube Draining eliminates the need for handling hot reagents after distillation.
- The Autosampler is using 250 ml sample tubes. It is also possible to manually insert other tubes into the KjelROC Analyzer such as 100, 300, 400 and 750 ml. Please consult OPSIS LiquidLINE regarding required adapters.



AN OVERVIEW OF THE WHOLE RACK WITHOUT POP-UP DIALOGUES - AN INSTRUMENT WITH THE USER IN MIND.

AUTOSAMPLER

An Autosampler allows automatic analysis of several tubes in a sequence, without manual intervention. The KjelROC Autosampler has several features.

- Allows analysis of a complete tube rack with 20 sample tubes and 5 extra tubes for additional analysis
- An extra row of tube samples allows easy analysis of blanks outside of the tube rack, running autoblanks or running express samples.
- All tubes can be moved directly into the Autosampler in one step, without having to move tube by tube. No risk to mix tubes during the movement from digester to distillation.
- Easy to clean all sensitive parts for daily and monthly maintenance.
- The sampler can easily be switched-off and the Analyzer can then be used independently if so required.



IT IS EASY TO INSERT A TUBE RACK INTO THE AUTOSAMPLER. A FRONT DOOR PROTECTS THE OPERATOR DURING OPERATION.



IT IS EASY TO OPEN AND CLEAN THE AUTOSAMPLER INSIDE.

OPSIS LIQUIDLINE MAINTENANCE PROGRAM

OPSIS LiquidLINE tools allow easy diagnostics and follow-up of both instruments and components, for both customer and service engineers which greatly reduces risk for stand-still of instrument.



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