

OPSIS LiquidLINE FiberROC Auto

Automatic Crude Fiber / ADF / NDF Determination



WHY OPSIS ?

OPSIS LiquidLINE brings innovation to classical reference analyses, and our FiberROC Auto instrument is no exception. The FiberROC Auto incorporates modern technology to simplify your Crude Fiber, Neutral Detergent Fiber, Acid Detergent Fiber and Acid Detergent Lignin Determinations.

- Integrated workflow with OPSIS LiquidLINE LabConnect Software and Wireless communication.
- The unique OPSIS LiquidLINE BlackLINE coating provides High Chemical Resistance.
- Higher throughput and lower solution consumption than comparable systems.

Patent Pending





Feed



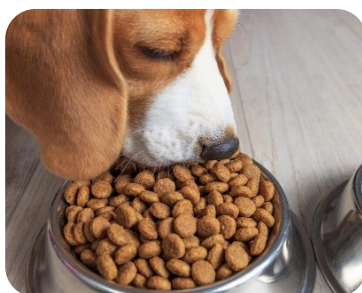
Oil Seeds



Food



Agriculture



Pet Food



Tea



Snacks Food



Biogas Plant



Forage

FiberROC Auto

Automatic Fiber Determination Unit

The OPSIS LiquidLINE FiberROC Auto is designed for Crude and Detergent Fiber determinations according to Van Soest and Weende reference methods. High capacity, low operating costs and modern technology has been our ambition when designing this instrument.

High Throughput

The FiberROC Auto provides high throughput with up to 27 samples in each batch.

The sample rack and LabConnect registration makes the preparation of samples efficient.

The FiberROC instrument will automatically take care of all boiling and dosing of solutions.

- Easy registration of all weights, using LabConnect software and balance connection. Prepare your batch with the supplied sample trays and sample rack.
- A full sample rack allows up to 27 samples per batch.
- FiberROC Auto is completely automated which means that time can be spent on other tasks during the process. Get a notification in your mobile phone when ready.
- Use LabConnect to register your results and produce an analysis report.

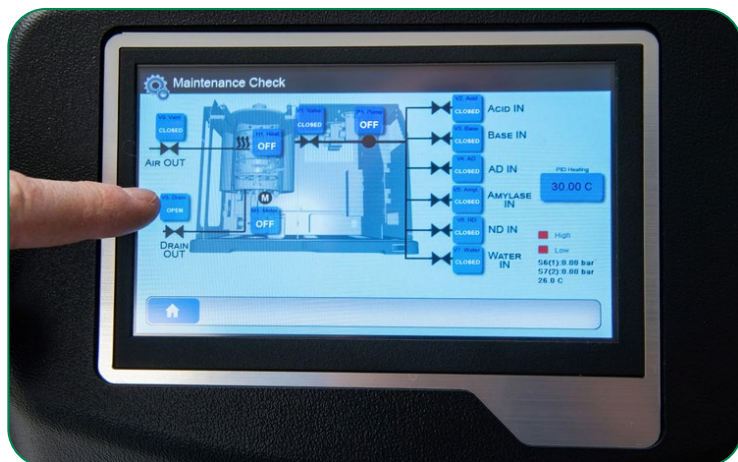


Sample Trays and a sample Rack makes it easy to prepare and insert your samples into the FiberROC Auto

Low Operating Costs

The FiberROC Auto is designed to provide low operating costs, using small amount of solution per sample.

- Sharing one tank for all samples means that solution consumption can be kept at a minimum.
- The FiberROC Advanced provides an half-tank mode, which allows you to reduce your solution volume when you have few samples to analyze.
- Time is money. An automated high capacity instrument means less time in front of the instrument and faster analytical cycles.



Select the desired method from the Main Menu and run it easily. Adjust the methods in Settings. Use Manual Mode maintenance and cleaning purposes. Check method info for 12 month period via Data Handling

Unified Solution

Same LabConnect software and similar User interface on several OPSIS LiquidLINE instruments simplifies laboratory work. Both LabConnect and the FiberROC Auto can be adjusted to existing Lab procedures.

- Use same LabConnect software for all your methods. In LabConnect it is possible to combine several results into one report*, such as Protein, Fat, Fiber, Moisture and Ash. Print, mail or export your report.
- Familiar environment for the operator, with same touchscreen interface for both Kjeldahl and Fiber determinations.
- With our adaptive workflow you are always in control, for example handling batches with no previous registration or weight entry and registration inside LabConnect



*The FiberROC touchscreen makes it easy to select and perform operations. The learning curve is low for anyone that is used to the OPSIS LiquidLINE Kjeldahl.

FiberROC Auto

Automatic Fiber Determination Unit

FiberROC Manuel

Easy-to-Use instrument for Crude Fiber

Can also be used for Hydrolysis, all samples separated

Reliable

The unique OPSIS LiquidLINE filter is designed to provide reliable and consistent results. Use OPSIS LiquidLINE LabConnect software* to simplify your calculations.

Efficient

Weigh and seal your bag. Insert the bag inside the FiberROC Manuel and start the boiling. The FiberROC Manuel makes it easy to do Crude Fiber determinations.

Compliant

All steps, such as boiling and rinsing, is done according to the Weende Crude Fiber method.

Safe

No direct exposure to dangerous reagents. Efficient water rinsing, using the HydROC drain valves for high safety.

Fiber & Hydrolysis

The FiberROC Manuel can be used both for Crude Fiber Determinations but also for Hydrolysis (Total Fat determinations).



Lab Connect Your Laboratory

Connect the FiberROC / SoxROC / KjelROC Units to your Laboratory information flow. The LabConnect software is delivered together with all instruments.

- Complete solution to register your weights and analyse your results, including direct import from connected balance and/or barcode scanner.
- Export your data 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).
- LabConnect software can also be upgraded with the LabConnect LIMS license.
- Sample registration and Report modules.
- One software for all your Protein, Moisture, Ash, Fiber, ADF, NDF, and Fat analyses. The LabConnect LIMS will even work with instruments from other brands.
- User Management and Traceability of your data. Compliant with FDA Title 21 CFR Part 11, ISO 17025



The LabConnect software allows for easy connectivity to your laboratory

FIBERROC AUTO, FB-300-C, AND FIBERROC ADVANCED FB-310-C

Technical Data	
Fiber Method	Crude Fiber (CF), Neutral Detergent Fiber (aNDF/NDF) and Acid Detergent Fiber (ADF), Acid detergent Lignin (ADL) in accordance with Weende and Van Soest
Sample size	0.5 - 1.0 g
Measuring range	0 - 100%
Capacity per Batch	27 samples simultaneously with FiberROC Auto 9 or 27 samples simultaneously (selectable) with FiberROC Advanced
Included in Package	FB-300-C FiberROC Auto with 27 positions or FB-310-C FiberROC Advanced with both 9 and 27 positions User Guide, 1 Sample Rack, 1 Sample Rack Stand, 9 Sample Trays, Marker for Fiber bags, external tubings and LabConnect software (standard license)
Power Supply	190-240 VAC, 50-60 Hz, 10A, Max 1500W
Operating Temperature	5°C - 40°C max 80 % relative humidity
Dimensions (WxHxD)	520 x 530 x 400 mm
Weight	35 kg
Consumables	FB-011-A CF/NDF/ADF/ADL Bags for FiberROC Auto/Adv. Box of 200 pcs
Accessories	FB-100-A Sample Rack Set FB-101-A Sample Rack FB-102-A Sample Rack Stand FB-103-A 3 sample Trays for Sample Rack FB-104-A Black Acetone Resistant Marker for Fiber Bags FB-106-A Reference Sample for Verifying FiberROC, 100g FB-110-A Thermosealer for Fiber Bags FB-111-A Water Boiler, 220V

FIBERROC MANUAL UNIT, FB - 120 - C

Technical Data	
Included in Package	FB-120-C FiberROC Manual 6 position Unit with 1 User Guide, 6 pcs Filter holders, 1 plier to insert filters, 1 filter stand, 6 Fiber glass cups with PTFE top cover
Fiber Method	Crude Fiber (CF) in accordance with Weende and other recognized methods. Suitable for food, feed and forages.
Hydrolysis Method	Typically for samples with 0.1 - 100% fat and sample sizes 0.5 - 3g. For further details, please see HydROC Datasheet LP1021
Consumables	FB-010-A, 50, pcs CF Fiberbag, suitable for determination of Crude Fiber SX-043-A, 50 pcs HydROC Filters, suitable for determination of Total Fat together with the OPSIS LiquidLINE SoxROC Extraction Unit
Accessories	FB-104-A, Black Acetone Resistant Marker for Fiber Bags FB-110-A, Thermosealer for Fiber Bags
Capacity per Batch	6 samples simultaneously, no interference between samples
Dimensions (WxHxD)	655x325x475 mm
Weight	25 kg
Operating Temperature	5°C - 40°C, max 80 % relative humidity
Power Supply	190-240 VAC, 50-60 Hz, 10A
Power Consumption	Max. 2000 W

KjelROC



Kjeldahl Distillation Unit

Digestor



Digestion Unit

Scrubber



Acid Neutralization Unit

SoxROC



Soxhlet Fat Extraction Unit

HydROC



Acid Hydrolysis and
Crude Fiber Unit

FiberROC



Crude Fiber/ADF/NDF
Determination Unit

Consumables



Kjeldahl Tablets

Distillation Tubes

Soxhlet Thimbles

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MADE IN SWEDEN

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