

OPSIS LiquidLINE

Innovative Wet Chemistry



OPSIS

- A global company for more than 30 years

Opsis AB is a global company that develops, manufactures and markets state-of-the-art, innovative systems for gas analysis, process control and reference analysis. We provide our customers with the most advanced, reliable and cost-effective systems, regardless of application.

With several thousands systems installed worldwide, OPSIS Gas offers the availability of measuring ambient air quality monitoring (AQM) and continuous emissions monitoring (CEM)/process control.



Approvals of
OPSIS Monitoring
Systems



The OPSIS monitoring systems have rendered approvals in more than 50 countries around the world.

OPSIS LiquidLINE

- Innovation in Wet Chemistry Analysis

OPSIS LiquidLINE, a division of OPSIS, provides modern technology in Wet Chemistry analysis. OPSIS LiquidLINE brings innovations to the laboratories, such as;

- New software tools for analysis and remote monitoring.
- Using latest material science to protect instruments and operators.
- New solutions such as Predictive Titration, Total Fat Filters and complete Batch handling of Fat samples.



Wireless technology allows direct transfer of results to computers and even to your mobile phone.

A MEASURABLE DIFFERENCE

At OPSIS LiquidLINE we want to bring a difference that really matters to your laboratory.

WORLDWIDE DISTRIBUTION

OPSIS LiquidLINE products are launched all over the world via an exclusive and dedicated distribution network.

OWN APPLICATION LABORATORY

All OPSIS LiquidLINE products are supported by our service department and by our Wet Chemistry Laboratory in Sweden.

ONE LOCATION

All our products are developed, designed and produced in Sweden. Due to the location we have access to the best expertise in the Wet Chemistry field, that understand the classic methods.



OPSIS LiquidLINE headquarters, Furulund, Sweden

OPSIS LiquidLINE Products

Since 2013 OPSIS LiquidLINE has launched a worldwide range of instruments for Wet Chemistry Analysis.

PROTEIN AND KJELROC ANALYZER UNITS

Our KjelROC range of Analyzers offers innovative, precise and cost efficient solutions for Distillation, Titration and determination of protein according to the Kjeldahl method. Our own unique Predictive Titration gives better analysis results, and our LabConnect software provides remote monitoring.



KjelROC
Dist. Unit Manual
KD-200

KjelROC
Dist. Unit Auto
KD-210

KjelROC
Analyzer
KD-310

KjelROC
Autosampler
KD-625

Automatic Distillation

Borosilicate or Polypropylene Splash Head	x	x	x	x
Automatic Bellows pump for reagent addition	x	x	x	x
Automatic Precision pump for water dilution	x	x	x	x
Automatic Tube Drain and Waste Management	x	x	x	x
Possible to connect External Level Pins	x	x	x	x
Possible to connect External Titrator	x	x	x	x
BlackLINE coating for protection	x	x	x	x
Upgradable	x	x	x	x
Ethernet connection to network	x	x	x	x

Automatic Receiving Solution

Dedicated Receiver Vessel for external Titration	x			
Automatic Precision Pump for Receiver Solution	x	x	x	x
LabConnect Software and Remote Monitoring	(x)	x	x	x

Automatic Titration

Remote Monitoring via LabConnect		x	x	x
Colorimetric Titration System with Predictive Titration		x	x	x
Wireless Router Included		x	x	x

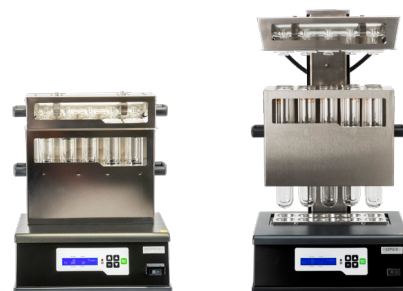
Automatic Batch Handling

Complete Tube Rack inserted into Autosampler				x
Automatic insertion of Tubes from Rack				x
Additional Five tubes for Blanks and References				x

KJELROC DIGESTION BLOCKS

Our KjelROC digestion blocks uses several programs that all can adjusted with time and temperature. Our more advanced blocks offer automation with a motor lift.

Our BlackLINE and PTFE coating provides better corrosion protection than traditional solutions.



	KjelROC Digester 10 Auto DI-210	KjelROC Digester 20 Auto DI-220	KjelROC Digester 10 Advanced DI-310	KjelROC Digester 20 Advanced DI-320
Always				
Aluminium Block with Precisie Temperature Control	x	x	x	x
Programmable with more than 59 programs	x	x	x	x
Pre-heat program	x	x	x	x
PTFE Coated Top cover	x	x	x	x
BlackLINE coating for protection	x	x	x	x
Tube Rack for Sample tubes included	x	x	x	x
Batch Size and Automatic				
10 Tubes	x		x	
20 Tubes		x		x
Motorlift for Automatic Operation and Coolling			x	x
Packages				
Digester and Tube Rack only	DI-210	DI-220		
Digester with Tube Rack and Exhaust included	DI-211	DI-221	DI-310	DI-320

KJELROC SCRUBBERS

Our KjelROC Scrubber provides an environment friendly solution with efficient fume removal. Our scrubber does not need tap water or external chiller.



	Ejector 10	Ejector 20	Scrubber DI-110
Removal of Fumes from Digestion	x	x	x
Recommended Batch Size	10	10/20	10/20
Option for water samples	x	x	x
Requires No Tap Water or Chiller			x
BlackLINE coating for protection			x

FAT AND SOXROC EXTRACTION UNITS

Our SoxROC range offers flexible and reliable solutions for automatic hot solvent extractions and fat determinations. Our unique Batch solution and our Total Fat filters saves time and reduces errors.



HydROC
6 positions
SX-110

SoxROC
2 positions
SX-320

SoxROC
6 positions
SX-360

Always

Method	Hydrolysis	Hot Extraction	Hot Extraction
Separate sample beakers	6	2	6
BlackLINE coating for protection	x	x	x
Upgradable for Crude Fiber extractions	x		

Total Fat Determinations

Same filter for both Hydrolysis and Extraction	x	x	x
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Automatic

Automatic Extraction		x	x
EX classified valves and Air-pressurized Electronics		x	x
LabConnect Software			x

FIBER AND FIBERROC UNITS

Our FiberROC range offers High Throughput and Low Operating costs for Fiber determinations. Minimize investment costs with the FiberROC Manual or maximize throughput and speed with FiberROC Auto and Advanced.

Our LabConnect software provides remote monitoring and our unique half tank option saves solution costs.



FiberROC
6 positions
Manual
FB-120

FiberROC
27 positions
Auto
FB-300

FiberROC
9/27 positions
Advanced
FB-310

Always

Method	CF	CF/ADF/NDF	CF/ADF/NDF
BlackLINE coating for protection	x	x	x

Automatic

Complete Automation		x	x
Several options for addition of Amylase		x	x
LabConnect Software and Remote Monitoring		x	x

Optimize Throughput and Costs

Full and half tank option to save solution			x
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CONSUMABLES

Good analysis requires preparation and supplies of reliable consumables like Borosilicate glass tubes, cellulose thimbles and Kjeldahl tablets.

Our unique Fiber bags are optimized to be used with our own instruments, but they can also be used with other instruments.



Kjeldahl

Kjeldahl Glass Tubes	250, 450, 750 ml
Kjeldahl Tablets	Copper 3.5, 4.0, 5.0g and Titanium 3.71g, Selenium 3.5g
Add-ons	Boiling rods

Fat Determination

Cellulose Thimbles	25x80, 33x80, 40x80
Glass Microfiber Thimbles	33x80, 40x80
Total Fat Filter	HydROC Fat Filter

Fiber Determination

Fiber Filter	CF Bags for FiberROC Manual CF/ADF/NDF Bags for FiberROC Auto
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LABCONNECT LABORATORY SOFTWARE

OPSIS LiquidLINE can provide solutions for handling your information.

The LabConnect software gives a complete solution to register samples, enter weights/ results and analyze your data. One software for all your Protein, Moisture, Ash, Fiber and Fat analyses.

- Compliant with CFR Title 21 part 11
- Secure SQL Database
- Remote monitoring on your mobile phone
- Attach Balances and other devices

LabConnect Standard License
LabConnect Full License
Transfer Utility (Free, iPhone/iPad only)





OUR CERTIFICATES

OPSIS is certified according to ISO 9001 quality management system since 1996, and ISO 14001 environmental management system since 2000. OPSIS has an ISO 17025 accredited laboratory.

OPSIS LiquidLINE - a product from OPSIS, your reliable partner with Triple-A credit rating.



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