

# OPSIS LiquidLINE KjelROC Digestors

Reliable Digestion with  
Many Possibilities



# A NEW ERA IN DIGESTION

KjelROC Digestors, bringing robust design and innovation to traditional Digestion

- More than 50 programs and more than 10,000 possible temperature step combinations!
- KjelROC Digestor Advanced with automatic or manual 3-step Motor lift
- High Chemical Resistance with the unique OPSIS LiquidLINE BlackLINE coating



## UNIQUE FLEXIBILITY

- Easy: Pre-heat program and fixed programs with no programming required
- Customizable: Three standard programs with easy programming
- Advanced: More than 50 special programs with complete flexibility



EASY PROGRAMMING FOR ALL LEVELS OF USERS

## USE WITH AUTOMATION

- Alarm signal and/or automatic cooling simplifies surveillance of the process, you will get notified when digestion is finished
- KjelROC Digester Advanced models with Motorlift perform digestions unattended and free up operator time

## CHEMICAL RESISTANCE AND UPGRADES

- The OPSIS LiquidLINE BlackLINE coating\*\* provides unique corrosion protection
- Special chemical resistant PTFE coating on cover to protect from acid stains, PTFE used in Exhaust sealings
- OPSIS LiquidLINE service system, including an application Laboratory in Sweden

\*\* OPSIS LiquidLINE BlackLINE coating is taken from latest development in Swedish corrosion technology. Similar coating is used in trucks and cars from Volvo and Scania.



ALL KJELROC DIGESTORS HAVE THE OPSIS LIQUIDLINE BLACKLINE COATING AS WELL AS A PTFE PROTECTION ON THE TOP COVER

# BENEFITS

## CHEMICAL RESISTANCE AND SAFETY

---

All KjelROC Digestors are built to withstand high temperatures and highly corrosive environments - all materials are carefully selected - from special chemical resistant PTFE coating to Viton tubes.

The KjelROC Digestors are recommended to be installed with a KjelROC Exhaust manifold, to reduce corrosive fumes in the lab and prolong the life of your KjelROC.

- The OPSIS LiquidLINE BlackLINE coating and chemical resistant PTFE coating on top covers to protect against stains from acid
- Solid PTFE rings, specially designed to seal against the tubes, withstand the demanding environment
- Exhaust manifolds with Borosilicate glass
- An automatic self test will warn the operator

## AUTOMATIC, CALIBRATED AND FLEXIBLE

---

All KjelROC Digestors include automatic programs as well as the possibility to define your own digestion cycle.

- Pre-heat program and pre-defined programs make it easy to use for any Operator
- Three customizable programs can be used for all standard applications
- In addition, more than 50 special programs gives almost endless combinations for the advanced user. Theoretically, over 10,000 temperature steps can be programmed!
- Unique Calibration Feature allows easy measuring against external temperature probe with adjustment in software.
- Fast heating, from 20°C to 450°C within 45 minutes

## ADVANCED MODEL WITH AUTOMATIC LIFT\*

The Advanced KjelROC Digestors offer easy to use motor lift with 3-step automation: heating-, cooling- and load positions.

Motor can be controlled manually, as part of a temperature/time program or as part of the pre-loaded digestion programs. The KjelROC Automation Lift reduces the work load in the lab and saves costs.

- Automatic control of motor within the Pre-set programs
- Intelligent instrument feedback will instruct the operator when to place the rack in holder and automatically move the rack to cooling position after digestion
- Safety system with manual override at all times
- Specific load position at ergonomically correct height

\* Motor lift only available in Digester Advanced



THE DIGESTOR AUTO CAN BE ORDERED AS A COMPLETE PACKAGE, INCLUDING AN EXHAUST AND A TUBE RACK

# KJELROC SCRUBBERS

A Scrubber is recommended for fume control and in areas where water is expensive. The KjelROC Scrubber can save costs.

## RELIABLE AND EASY WITH A SMALL FOOTPRINT

---

The KjelROC Scrubbers are built to work in an environment with an excess of corrosive fumes and high heat. All materials are carefully selected.

- Cooler and containers in Borosilicate glass and connection tubes in Viton, in order to withstand the demanding environment and reduce maintenance costs
- Small footprint makes it easy to install the Scrubber close to the KjelROC Digestor
- Easy access to exchange containers, which are all made in high quality Borosilicate Glass



## NO WATER IS NEEDED

---

The KjelROC Scrubber does not require any tap water and there is a built-in pump for suction power.

## OPTIONS

---

All KjelROC Scrubbers can be supplied with optional configuration

- Water cooler and Water Accessory to even further increase the efficiency of the fume extraction
- Water Trap for digestion of liquid samples
- Accessible 6-step suction control to regulate suction power

# DIGESTOR OPTIONS

The KjelROC Digestion portfolio offers something for most labs



DI-050-A1, Fixed cooling stand 10  
DI-050-A2, Fixed cooling stand 20  
to mount on Digester Auto, for both  
Tube Rack and Exhaust



TU-214-A, 250 ml Tubes  
TU-223-A, 450 ml Tubes  
TU-221-A, 750 ml Tubes



TU-222-A, Boiling Rods



KT-200-Series  
Kjeldahl Tablets



DI-030-A1, Exhaust 10  
DI-030-A2, Exhaust 20



DI-220/221-C, KjelROC Digestor Auto 20

Our standard Digestion block with capacity  
for 10 or 20 tubes, one rack included and  
exhaust for DI-211/221-C

DI-310-C, KjelROC Digestor Advanced 10  
DI-320-C, KjelROC Digestor Advanced 20

Our standard advanced Digestion block  
with motor lift. One rack and exhaust  
included



DI-051-A, Cooling stand  
for Tube Rack



DI-110-A, KjelROC Scrubber



DI-010-A, Rack 10  
DI-020-A, Rack 20



DI-054-A1, Water Jet Pump/Ejector 10  
DI-054-A2, Water Jet Pump/Ejector 20



DI-052-A2, Washing Lid 20



DI-001-A, Upgrade kit with Motorlift, from Auto 10 to Advanced  
DI-002-A, Upgrade kit with Motorlift, from Auto 20 to Advanced



DI-111-A, Water Trap for Liquid Digestion

*Specifications subject to change without notice*

Opsis AB, Box 244  
SE-244 02 Furulund Sweden  
Telephone +46 46 72 25 00  
Telefax +46 46 72 25 01  
E-mail [info@opsis.se](mailto:info@opsis.se)  
[www.liquidline.se](http://www.liquidline.se)



LP 1017  
2020 11



OPSIS AB • +46 46 72 25 00 • [info@opsis.se](mailto:info@opsis.se) • [www.liquidline.se](http://www.liquidline.se)