

# OPSIS LiquidLINE KjelROC Digestors

A New Era in Digestion



# A NEW ERA IN DIGESTION

KjelROC Digestors, bringing robust design and innovation to traditional Digestion.

- All KjelROC Digestors offer Automatic programs, programmable temperature, time and alarm sounds.
- KjelROC Digestor Advanced with automatic or manual 3-step Motor Rack
- All KjelROC Digestors use reliable and carefully selected materials which reduces maintenance costs

## AUTOMATIC PROGRAMS SAVES TIME

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- Automatic programs on all KjelROC Digestors make it easy to start a digestion
- Alarm signal and/or automatic cooling simplifies surveillance of the process, you will get notified when it is time to go back

## AUTOMATION SAVES TIME AND REDUCE COSTS

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- KjelROC Digestors Advanced model saves even more time with fully automatic motor rack

## OPSIS LIQUIDLINE REDUCE MAINTENANCE COSTS

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- All Digestors and Scrubbers built with high endurance materials. From high quality Borosilicate Glass to high quality EN 1.4404 Stainless steel. Saves cost for maintenance.

# KJELROC DIGESTORS

The KjelROC Digestors portfolio offers digestion possibilities for any lab. You can digest 10 or 20 tubes simultaneously, manually or with automatic programs and even with motor control

## AUTOMATIC, FAST AND SILENT

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

Additional features are rapid heating and silent technology, which reduces noise when handling the glass in the rack.

All this reduces maintenance costs, saves time and make the work safer.

- Several automatic programs, with multiple pre-set heating levels
- Manual programming of time and temperature
- Special Pre-heating program
- User defined behaviour at end of digestion, automatic switch-off of heating element and different settings for alarm signals
- Fast heating, from 20°C to 450°C within 45 minutes. Automatic pre-heating when switching on unit.
- Silent Technology, all racks are designed with soft edges to minimize noise from the glass tubes
- Easy to switch between Celcius and Fahrenheit degrees.



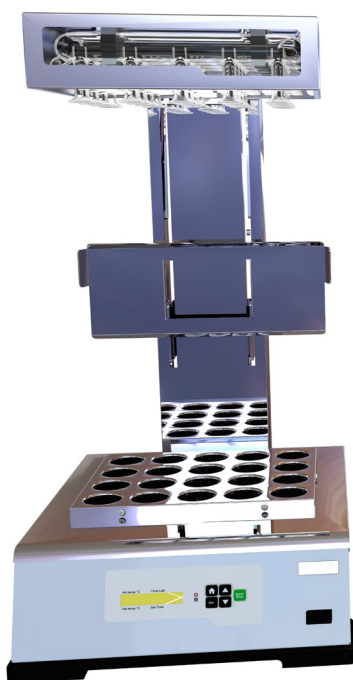
THE KJELROC AUTO CAN BE EQUIPPED WITH A MANUAL STAND - TO MAKE IT EASY TO COOL YOUR RACK AND FOR PLACEMENT OF YOUR EXHAUST.

## 3-STEP AUTOMATION RACK\*

The Advanced KjelROC Digestors offer easy to use motor rack 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 Rack 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



THE DIGESTOR ADVANCED IS EQUIPPED WITH A MOTOR RACK. THIS IMPROVES THE CONTROL OF THE DIGESTION PROCESS AND REDUCES HAZARDS FOR THE LAB PERSONNEL.

\* Motor rack only available in Digestor Advanced



## RELIABLE AND SAFE

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All KjelROC Digestors are built to withstand high temperatures and highly corrosive environments - all materials are carefully selected - from Viton tubes to EN 1.4404 Stainless steel.

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

Self test systems protect the operator.

- An automatic self test will warn the operator in case of instrument failure and lock instrument until Service has been performed.
- Indicator light to warn if block is above 60°C
- Exhaust manifolds with Borosilicate glass. Thick PTFE rings specially designed to seal against the tubes, withstand the demanding environment and reduce maintenance costs

# 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. Small footprint and ease of use has been prioritized when designing the KjelROC Scrubbers.

- 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
- Reagent containers with a volume of 2 liters each, minimize the need for frequent change of scrubber reagents. Easy access to exchange containers, which are all made in high quality Borosilicate Glass.



## HIGH STANDARD AND OPTIONS

All KjelROC Scrubbers can be supplied with optional water cooling as well as additional flask for digesting liquid samples. All Scrubbers has the possibility to adjust the suction power.

- Water cooler and Water Accessory to even further increase the efficiency of the fume extraction and to handle large volumes of vapour.
- Accessible 6-step suction control to regulate suction power, makes it easy to achieve a good and efficient digestion.

# Portfolio Options

The KjelROC Digestion portfolio offers something for most labs



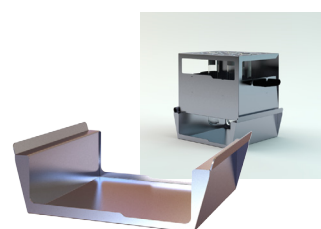
DI-050-A, Manual  
Stand to mount on  
Digester Auto, for  
both Tube Rack and  
Exhaust



TU-213-A, Tubes



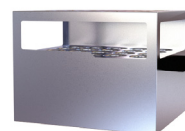
KT-200-Series  
Kjeldahl Tablets



DI-051-A, Stand Alone  
Manual Stand for  
Tube Rack



DI-030-A, Exhaust 10  
DI-040-A, Exhaust 20



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



DI-110-A, KjelROC Scrubber

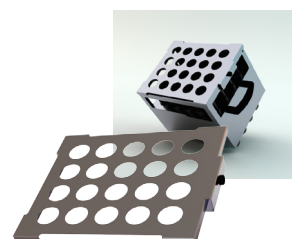


DI-210-A, KjelROC Digester Auto 10,  
DI-220-A, KjelROC Digester Auto 20

Our standard Digestion block with capacity  
for 10 or 20 tubes, one rack included

DI-310-A, KjelROC Digester Advanced 10  
DI-320-A, KjelROC Digester Advanced 20

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



TU-052-A, Washing Lid 10  
TU-053-A, Washing Lid 20

## KJELROC DIGESTORS, DI-210/220/310/320-A

Technical Data	
Operating Temperature	5°C - 40°C, max 80 % relative humidity
Power Supply	190-240 VAC, 50-60 Hz, 10A
Power consumption	max 1200 W (10 position) max 2200 W (20 position)
Dimensions (WxHxD)	360 x 132 x 329 mm (10 position) 360 x 132 x 439 mm (20 position)
Weight	12 kg without rack/exhaust (10 position) 18 kg without rack/exhaust (20 position)
KjelROC Digestors Auto	Pre-installed programs, programmable temperature and time, setting of Celcius or Fahrenheit, setting of Alarm behaviour
KjelROC Digestors Advanced	All features in Auto with the addition of Motor rack and pre-mounted Exhaust

## KJELROC SCRUBBER, DI-110

Technical Data	
Operating Temperature	5°C - 40°C, max 80 % relative humidity
Power Supply	190-240 VAC, 50-60 Hz, 10A
Power consumption	75 W
Dimensions (WxHxD)	330 x 470 x 335 mm
Weight	14 kg

*Specifications subject to change without notice*

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