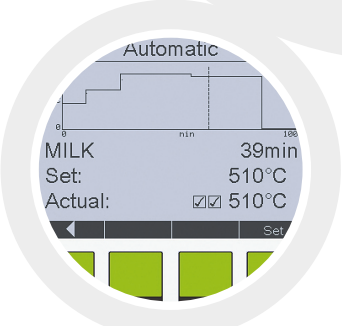
SpeedDigester K-439
The revolution in sample digestion

The SpeedDigester K-439 revolutionizes IR digestion. It combines the benefits of IR and block digestion in one unit. Fast nitrogen determination by Kjeldahl digestion at controlled temperatures enables an increased sample throughput. Multiply the instrument functionality whenever needs are changing.

High speed and throughput
Reduce digestion time up to two hours

Flexible
Use one instrument for multiple applications



Excellent reproducibility
Programmable temperature profiles

SpeedDigester K-439
Key features and advantages

Compose your SpeedDigester solution according to your specific needs:

Nitrogen and protein
(Kjeldahl)

Trace metal and hydroxyproline
(using water reflux condensers)

Chemical oxygen demand
(using air reflux condensers)

Scrubber K-415
Neutralization

"The SpeedDigester is the ideal tool for dealing with medium sample loads for both TKN and heavy metal determinations."
Municipal Sewage Plant, France

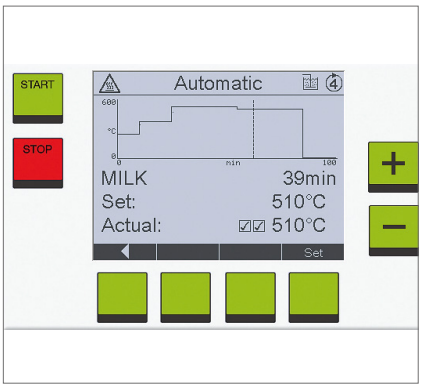
Characteristics:

Short digestion process

Reduce digestion time up to two hours by fast heating, cooling and the continuous addition of H_2O_2 through the capillary funnels.

Application multiplicity

Use the SpeedDigester for multiple applications like Kjeldahl, micro-Kjeldahl, COD, hydroxyproline or aqua regia digestion and choose the appropriate glass assembly.



Accuracy

- Accurate temperature control
- Programmable profiles
- Digestion process shown graphically.

Convenient

Drip tray for convenient and safe storage of the suction modules. Save bench space and store the rack in the cooling position. Storage space of up to 50 different methods including 20 default methods.

Perfect fit

Select the suction module that suits your need best.

- Standard: suitable for most applications
- With condensate trap: perfect for aqueous samples
- Suction module with capillary funnels: to accelerate the digestions.

Safe

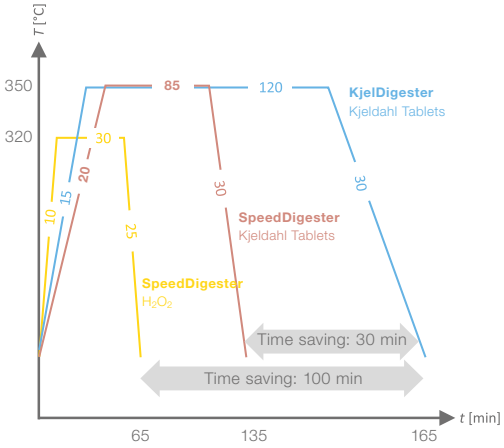
Operation is safe and lifetime of the fume hood is extended. A sealed suction system captures harmful fumes and the Scrubber K-415 neutralizes them.

Fast and homogenous heating for reproducible results

The digestion time is reduced due to the short heat-up and cool down period and efficient heat transfer capabilities as compared to block digesters. This results in fast and efficient digestions.

Excellent reproducibility is achieved based on remarkable thermal homogeneity for every sample tube. Due to the innovative insulation plate and the cleverly designed heating chamber. All sample tubes are heated efficiently without foaming.

All acid fumes created during digestion are captured by the tight suction system and exhausted through the connected Scrubber K-415. Thus, highest safety standards are met.



Comparison of digestion methods

K-439: Your most important benefits

High speed and throughput

· Fast heat transfer of infrared heaters to samples
· Large time savings due to fast heating and cooling
· Increased sample throughput due to short process time
· Accelerated digestion step with continuous addition of H_2O_2

Flexible

· One instrument for both Kjeldahl and reflux digestion
· All BUCHI Sample Tubes to be used (100 mL, 300 mL, 500 mL)
· Sample tubes compliant with ISO 6060 for COD and other reflux digestion (e.g. aqua regia)
· Optional dedicated suction module for aqueous samples

Excellent reproducibility

· Accurate temperature control following the programmed profile
· Storage of up to 50 different method profiles (time / temperature)
· Digestion process shown graphically
· Thermal homogeneity due to the innovative insulation plate

Complete your portfolio

KjelMaster
K-375
Steam distillation and titration

KjelFlex
K-360
Steam distillation

Scrubber
K-415
Neutralization

Reflux Setup
Water or air reflux