



## SpeedDigester K-425 / K-436

### The entry level IR digester

Set new standards in terms of digestion speed, flexible use and result reproducibility with the SpeedDigester. Achieve an increased sample throughput for nitrogen determination by Kjeldahl digestion and multiply instrument functionality whenever needs are changing.

#### High speed and throughput

Reduce digestion time up to two hours



#### Flexible

Use one instrument for multiple applications



#### Safe

Get rid of harmful fumes in your laboratory



## SpeedDigester K-425 / K-436

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)



SpeedDigester K-425

With one heating chamber for  
6 or 5 sample positions



SpeedDigester K-436

With two heating chambers for  
12 or 10 sample positions



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.



### Flexible

Individual operation of each heating chamber. Manual temperature setting are infinitely variable from level 1 to 10.



### Convenient

Drip tray for convenient and safe storage of the suction modules. Save bench space and store the rack in the cooling position.



### 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

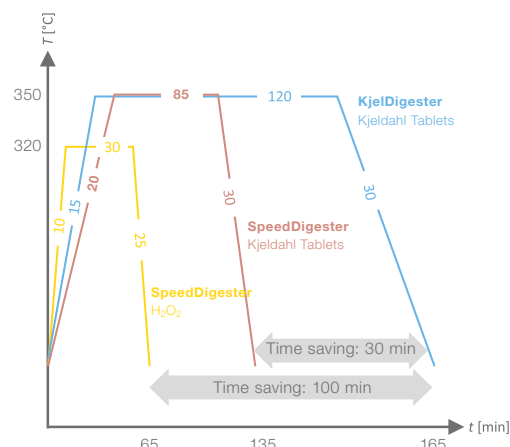
Operation is safe and lifetime of the fume hood is extended. A sealed suction system captures harmful fumes and the Scrubber K-415 neutralizes them.

## 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-425 / K-436: 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 shortened process time
- Accelerated digestion step with continuous addition of H<sub>2</sub>O<sub>2</sub>



### 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 or other reflux digestion (e.g. aqua regia)
- Dedicated suction module for aqueous samples



### Safe

- Sealed suction module for effective transfer of harmful fumes
- Effective neutralization of fumes by the Scrubber K-415
- Safe operation and extended lifetime of fume hood

## Complete your portfolio



Distillation Units  
K-350 / K-355  
Steam distillation



Scrubber  
K-415  
Neutralization



Reflux Setup  
Water or air reflux



Kjeldahl Tablets  
Catalysts

