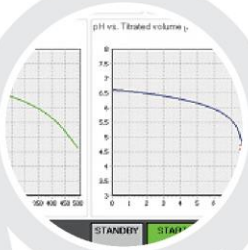
کاتالوگ دستگاه اندازه گیری پروتئین کلدال کمپانی Buchi

کاتالوگ تجهیز شماره ۱: KjelMaster K-375 (Part Number 113753700)

KjelMaster K-375
Free choice of methods at perfect usability

We provide solutions for both potentiometric and colorimetric titrations. The KjelMaster K-375 meets the highest demands in usability, automation, user administration and sophisticated data management.

Comprehensively safe
Comply with any official method, data management and ensure safety



Easy to use
Simplify routine operations and thorough data exchange

Maximized productivity
Highest sample throughput by using automation and streamline procedures

KjelMaster K-375
Key features and advantages

KjelMaster K-375
with glass splash protector
and colorimetric sensor

KjelSampler K-376
24 sample positions in one rack of 20
and four express positions

KjelSampler K-377
48 sample positions in two rack 20
and eight express positions

"The highlight of BUCHI's automated Kjeldahl system is the 48 position autosampler that allows us to work in a continuous way and thus, frees up a lot of time."
Mr. Guillaume Piedor, Manager of Laboratory CAE Grand Ouest, France

Compliant without exception

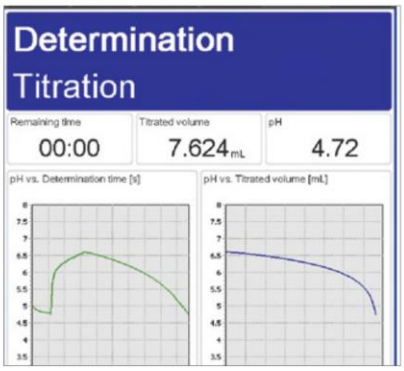
The KjelMaster allows both potentiometric and colorimetric titration.

Data security

The KjelLink PC software is a useful supplement for advanced programming and bidirectional data exchange.

Flexible

Apply different sample tubes without modifications on the instrument (100 mL, 300 mL, 500 mL).



Reproducible distillation

Smart distillation mode “IntelliDist” allows for reproducible results and saves time.

- Automatic detection of the operating temperature
- Shorter time-to-result thanks to less preparatory steps (e.g. no preheating)

Complementary peripherals

Synchronized process from sample preparation to titration. With

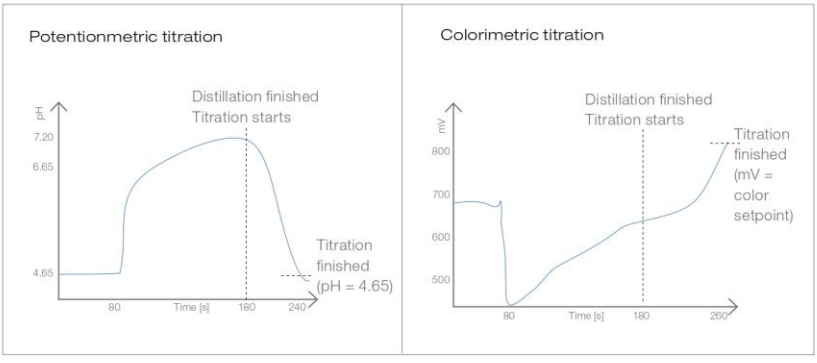
- balances, bar code reader
- printer or network printer
- KjelLink, LIMS
- KjelSampler K-376 or K-377
- Recirculating Chiller F-314

Intuitive and easy to use

Large color touch screen

Two titration techniques in one instrument

For the detection of the pH two different techniques can be applied: potentiometric and colorimetric titration. Potentiometric titration is based on the measurement of the electrical voltage. For the colorimetric titration an indicator is used to measure the pH-dependent color setpoint. Changing between the two techniques is easily achieved by “plug-and-measure” with no additional modifications on the KjelMaster and its integrated titrator.



K-375: Your most important benefits

Comprehensively safe

· Compliant and flexible “plug-and-measure” titration concept (colorimetric/potentiometric)
· Safe operation, user protection and guided routine operation
· Different access levels of authorization according to GLP requirements
· Reproducible results with the smart distillation mode “IntelliDist”
· Data security supported by intelligent software

Easy to use

· Intuitive operation via the large graphical color touch screen (8.4")
· Simple LIMS integration and traceable data recording
· No errors in routine operations by the sophisticated KjelLink PC software
· Optimal and stable working conditions by self-adjusting cooling water control

Maximized productivity

· Shortest time-to-result due to well synchronized process steps
· Upgrade onsite for highest sample loads by connecting the KjelSampler
· Fully automated workflow for high sample loads
· Automatic data exchange with complementary peripherals

Complete your portfolio

KjelSampler
K-376 / K-377
Auto sampling 24 / 48 positions

KjelDigester
K-446 / K-449
Block digestion

KjelLink
PC software
Data management

Recirculating Chiller
F-305 / F-308 / F-314
The efficient and water saving way of cooling

www.buchi.com/kjeldahl

Quality in your hands

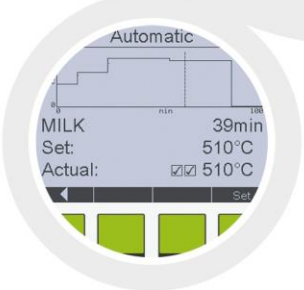
تجهیز شماره ۲: Speed Digester K-439 (Part Number 1154392100)

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

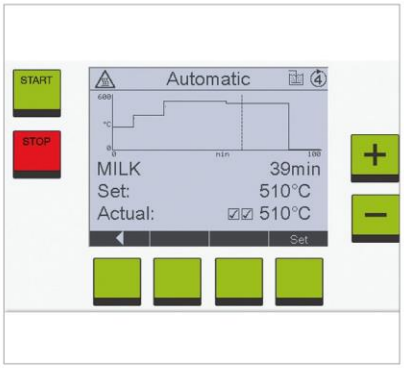
Characteristics:

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

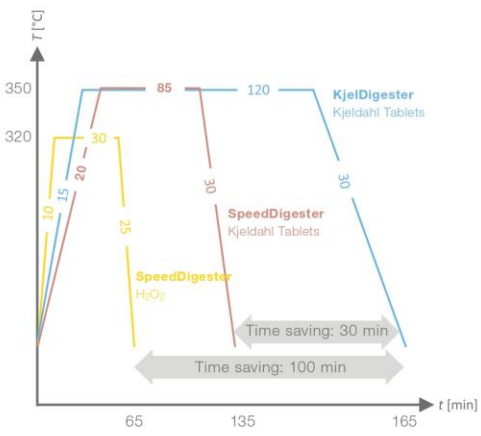
Operation is safe and lifetime of the fume hood is extended. A sealed suction system captures harmful fumes and the Scrubber K-415 neutralizes them.

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

تجهیز شماره ۳: (Part Number 11F30801) Recirculating chiller F-308

Recirculating Chiller F-305 / F-308 / F-314
The efficient way of cooling

The Recirculating Chiller F-305 / F-308 / F-314 are specifically designed to work with laboratory equipment such as rotary evaporators, parallel evaporators, Kjeldahl, and extraction products. You benefit from convenient central temperature setting, energy-saving ECO-mode, and automatic start/stop when used in conjunction with the Rotavapor® R-300 system.

Efficient
Optimized operating conditions by automatic adjustment of all process parameters

Ecological
Saves water, reduces emissions and conserves energy

Extendable
Seamless plug & play integration into a Rotavapor® R-300 system

Recirculating Chiller F-305 / F-308 / F-314

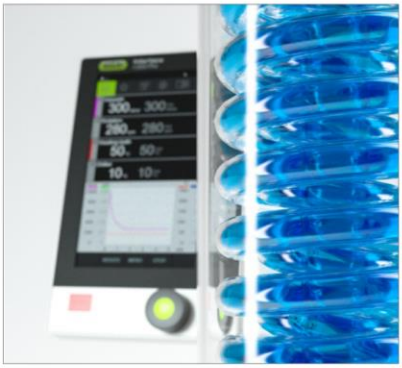
Key features and advantages

Seamless integration

Convenient temperature setting and control when integrated in a Rotavapor® R-300 system.

Navigation

Conveniently set the cooling temperature directly on the chiller or on the central Interface I-300 / I-300 Pro.



Optimal cooling

Operating with a Rotavapor® R-300 system, the vacuum is automatically adjusted to the heating and cooling temperature, maximizing the distillation performance.

Temperature lock

Lock the set temperature by pushing the navigation knob to avoid unintentional changes.

Eco-mode

The ECO-mode in conjunction with the interface saves energy and reduces heat emission by switching into a stand-by mode when not in use.

Water saving

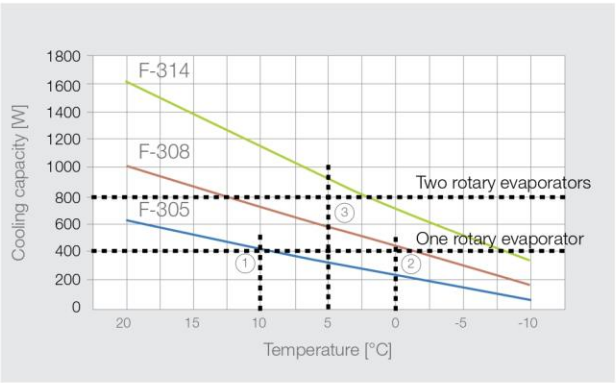
A rotary evaporator typically consumes 40 liter of water per hour. Operating with a chiller this valuable resource is conserved.

Chiller performance depending on the temperature

Use the performance chart to choose the right chiller for your application.

Example: Distillation with one rotary evaporator requires about 400 W of power.

① Distillation with one rotary evaporator at 10 °C ▸ F-305
② Distallation with one rotary evaporator at 0 °C ▸ F-308
③ Distallation with two rotary evaporators at 5 °C ▸ F-314



F-305 / F-308 / F-314: Your most important benefits

Efficient

- Efficient distillation due to complete integration into the BUCHI rotary evaporation system
- Saves time thanks to instant start with automatic and dynamic pressure adjustment without waiting until chiller reaches it's set temperature

Ecological

- ECO-mode: saves energy and reduces heat emission by switching into a stand-by mode when not in use
- No water consumption
- Maximizes distillation capacity while reducing solvent emissions due to intelligent integration of all process parameters using the Interface I-300 / I-300 Pro

Interactive

- Seamless plug & play integration into:
  - Fully automated BUCHI Rotavapor® R-300 systems including all process parameters
  - BUCHI extraction and Kjeldahl solutions

Complete your portfolio

Rotavapor®
R-300
Convenient and efficient rotary evaporation

Multivapor™
P-6 / P-12
Efficient evaporation for multiple samples

Extraction Systems
B-811 / B-811 LSV
Universal extraction

KjelMaster System
K-375 / K-376 / K-377
Steam distillation, titration and auto sampling

www.buchi.com/laboratory-evaporation

Quality in your hands