

KJELFASTER-K700

Automatic Kjeldahl Analyzer • Titration during distillation • 1.0 µL/step • 1800 results

KJELFASTER-K700 Automatic Kjeldahl Analyzer is an automatic Kjeldahl analyzer with titration during distillation, 1.0 µL/step burette resolution and adjustable steam flow. It measures 0.1–240 mg N with recovery $\geq 99.5\%$ and a reproducibility (relative error of mean value) of $\leq \pm 0.5\%$, offers two distillation modes (alkali before or after distillation), drains the tubes and rinses tube and titration cup automatically, monitors the distillate temperature, stores 1800 results and prints them on the integrated printer.

AUTOMATIC KJELDAHL ANALYZER

TITRATION DURING DISTILLATION

0.1–240 MG N

REPRODUCIBILITY $\leq \pm 0.5\%$

BURETTE 1.0 ML/STEP

2 DISTILLATION MODES

1800 RESULTS

INTEGRATED PRINTER

Document type: **Technical Specification Sheet**

Product: **KJELFASTER-K700 Automatic Kjeldahl Analyzer**

SKU: **PRO3571**

Format: **A4 landscape • 5 pages**

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ORGANIC ELEMENTAL ANALYSIS — OVERVIEW

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KJELFASTER-K700 • Automatic Kjeldahl Analyzer



Complete Kjeldahl system • digester, scrubber and analyzer from one source

MODEL / SKU

**KJELFASTER-K700
PRO3571**

ADDRESS / HQ

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KJELFASTER-K700 • technical specification

Titration during distillation, adjustable steam and automatic drain for routine laboratories

0.1–240 MG N

 RECOVERY $\geq 99.5\%$
 $\leq \pm 0.5\%$

1.0 ML/STEP

5–10 MIN PER SAMPLE

— Routine Kjeldahl analysis with finer titration and process protection

Product Overview

Application profile

Food and dairy: protein in milk, dairy, meat and cereals with preset sample types and user methods.

Feed and agriculture: crude protein in feed; nitrogen in plants, soil and fertilizers.

Water and environment: total Kjeldahl nitrogen (TKN) and ammonium nitrogen.

Contract and QC labs: routine series with printed, traceable results.

Key features

Range: 0.1–240 mg N, recovery $\geq 99.5\%$.

Reproducibility: relative error of mean value $\leq \pm 0.5\%$.

Titration: colorimetric endpoint, burette 1.0 μ L/step, titration during distillation.

Distillation: two modes, adjustable steam flow, 5–10 min per sample.

Data: 1800 results, integrated printer, USB or RS485 (optional).

Core technical summary

Parameter	Specification
Model	KJELFASTER-K700
SKU	PRO3571
Instrument type	Automatic Kjeldahl analyzer (distillation + titration)
Measuring range	0.1–240 mg N
Recovery	$\geq 99.5\%$
Reproducibility	relative error of mean value $\leq \pm 0.5\%$
Burette resolution	1.0 μ L/step
Time per sample	5–10 min per sample
Data memory	1800 results
Interfaces	USB or RS485 (optional)

Value for the laboratory

Faster titration: titration runs during distillation; steam flow adjustable (50 / 80 / 100 %) for foaming samples.

Less handling: automatic waste discharge, tube and titration cup rinsing, fast tube drain.

Protected process: distillate temperature monitoring with emergency stop; alarms for cooling water, door, tube and empty reagent tanks.

Low cost, full support: standard tubes, open reagents, no paid software; installation, training and method validation by COLO.Science.

MEASURING RANGE

0.1–240 mg N

REPRODUCIBILITY

 $\leq \pm 0.5\%$

BURETTE

 1.0 μ L/step

DATA MEMORY

1800 results

Technical values are provided for product selection; the delivered configuration is confirmed in the official COLO.Science quotation. Every Kjeldahl system is supported by COLO.Science with installation, operator training, method validation on your sample and local service.

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Technical Parameters

Parameter	Specification	Parameter	Specification
Model	KJELFASTER-K700	Steam flow	adjustable: 50 / 80 / 100 %
SKU	PRO3571	Automation	waste discharge, tube and titration cup rinsing, fast tube drain
Instrument type	Automatic Kjeldahl analyzer (distillation + titration)	Safety functions	distillate temperature with emergency stop; cooling water, door and tube sensors; empty-tank warning
Measuring range	0.1–240 mg N	Display	5.6" touchscreen
Recovery	≥99.5 %	Data memory	1800 results
Reproducibility	relative error of mean value ≤ ±0.5 %	Printer	integrated
Time per sample	5–10 min per sample	Interfaces	USB or RS485 (optional)
Sample size	solid ≤5 g, liquid ≤20 mL	Cooling water consumption	1.5 L/min
Digestion tubes	φ42 mm, 300 mL (standard, open format)	Power supply	220 V AC ±10 %, 50 Hz
Titration	colorimetric endpoint, titration during distillation	Rated power	2 kW
Burette resolution	1.0 µL/step	Dimensions (W×D×H)	455 × 391 × 730 mm
Distillation modes	alkali before or after distillation	Weight	38 kg

Specification notes

Methods: suitable for classical Kjeldahl methods such as ISO 8968-1 (milk), ISO 5983-2 (feed), ISO 20483 (cereals), ISO 1871 (food), ISO 11261 (soil), ISO 5663 / EPA 351.3 (water, TKN) and AOAC 2001.11.

Foaming: foaming is controlled by the method (programmable step heating, adjustable steam), not by special glassware.

Validation: recovery is verified with ammonium sulfate standard; COLO.Science validates the method on your sample at installation.

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Options and accessories



PRO3575

KJELDIG-D250 Kjeldahl digester

20 × 300 mL, up to 450 °C, ±1 °C, 10 programs × 5 steps; fume hood included.

Optional



PRO3576

KJELDIG-D450 infrared Kjeldahl digester

Infrared + graphite, 400 °C in 25 min, 20 programs; hood and cooling rack included.

Optional



PRO5814

EXSC5 scrubber

Three-stage neutralization: water condensation, alkali, activated carbon; adjustable suction.

Optional



Digestion tubes $\varnothing 42 \times 300$ mL (set)

Standard open-format tubes for all KJELDIG digestors and KJELFAST / KJELFASTER units — one tube from digestion to distillation.

Optional

More options and consumables

SKU	Item	Use	Status
—	Built-in printer	Result printout (standard on K500 / K700)	Standard delivery
—	Reagent tanks (spare)	Alkali, boric acid, titrant and distilled water supply	Optional
—	Kjeldahl catalyst tablets	Digestion — consumable, ordered separately	Optional
—	Reagents: sulfuric acid, NaOH 40 %, boric acid with indicator, standard acid	Consumables — ordered separately	Optional

Standard delivery is confirmed in the quotation (integrated printer included). Digestion tubes, catalyst tablets and reagents are ordered separately; KJELDIG digestors and the EXSC5 scrubber complete the system.

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KJELFASTER-K700 automatic Kjeldahl analyzer

Ordering information

Item	Value
Model	KJELFASTER-K700
SKU	PRO3571
Instrument type	Automatic Kjeldahl analyzer (distillation + titration)
Included	integrated printer
Digestion tubes	φ42 mm × 300 mL (standard)
Options	KJELDIG-D250 / D450 digester, EXSC5 scrubber
Power supply	220 V AC ±10 %, 50 Hz

Configuration checklist

Daily samples: routine series; for unattended batches see K900 with A24.

Low nitrogen: 1.0 µL/step; for 0.2 / 0.4 µL/step choose the K900.

Documentation: printer, USB or RS485; for 21 CFR Part 11 choose the K900.

Digestion: KJELDIG digester and EXSC5 scrubber — see page 4.

MANUFACTURER AND SUPPORT

COLO Lab Experts

Polje ob Sotli 4, SI-3255, Slovenia

Selection guidance: KJELFASTER-K700 is selected when a routine laboratory needs finer titration, adjustable steam and automatic draining at mid-range cost. For entry-level analysis choose K500; for 21 CFR Part 11, 1 million results and a 24-position autosampler the K900.

QUICK CONTACT

 colo.si

 sales@colo.si

 +386 70 713 437

COLO.SCIENCE · KJELDAHL SYSTEM CONFIGURATION SUPPORT

Need help configuring your Kjeldahl system?

Tell us the sample types and daily number of samples. COLO.Science will configure the system with the KJELFASTER-K700 (digester, scrubber, analyzer), validate the method on your sample and send a quotation.

Web: colo.si

Ask us:

Price and current discount, delivery time, system configuration for your samples, installation and operator training, method validation, digestion tubes, reagents and spare parts — write to sales@colo.si or call us.

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