

KJELFASTER-K900

Fully Automatic Kjeldahl Analyzer • 10" HD touchscreen • 0.2–1.0 µL/step • 21 CFR Part 11

KJELFASTER-K900 Fully Automatic Kjeldahl Analyzer is a fully automatic Kjeldahl analyzer with a 10" HD Android touchscreen, simultaneous distillation and variable-speed colorimetric titration, and a burette resolution of 1.0 µL/step (0.2 or 0.4 µL/step optional). It measures 0.1–240 mg N with recovery ≥99.5 % in 3–8 min per sample, needs only 0.5 L/min cooling water thanks to its metal condenser, stores 1 million results with 21 CFR Part 11 user management and audit trail included, and runs unattended with the optional 24-position KJELFASTER-A24 autosampler.

FULLY AUTOMATIC KJELDAHL

10" HD TOUCHSCREEN

0.2 / 0.4 / 1.0 ML/STEP

3–8 MIN PER SAMPLE

0.5 L/MIN COOLING WATER

21 CFR PART 11 INCLUDED

1 MILLION RESULTS

A24 AUTOSAMPLER

Document type: **Technical Specification Sheet**

Product: **KJELFASTER-K900 Fully Automatic Kjeldahl Analyzer**

SKU: **PRO3572**

Format: **A4 landscape • 5 pages**

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ORGANIC ELEMENTAL ANALYSIS — OVERVIEW

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KJELFASTER-K900 • Fully Automatic Kjeldahl Analyzer



With KJELFASTER-A24 autosampler • 24 positions for unattended batches

MODEL / SKU

**KJELFASTER-K900
PRO3572**

ADDRESS / HQ

**Polje ob Sotli 4
SI-3255, Slovenia**

CONTACT

**sales@colo.si
+386 70 713 437**

KJELFASTER-K900 • technical specification

Unattended Kjeldahl analysis with data integrity, fine titration and low water consumption

0.1–240 MG N

RECOVERY ≥99.5 %

±0.5 %

0.2–1.0 ML/STEP

3–8 MIN PER SAMPLE

— For accredited, high-throughput and regulated laboratories



Product Overview

Application profile

Accredited food and feed labs: protein and nitrogen with user management and a complete audit trail.

Dairy: milk protein in long series by the classical Kjeldahl method.

Pharma and regulated QC: 21 CFR Part 11: user levels, audit trail, password ageing.

Environment and agriculture: TKN in water; total nitrogen in soil, plants and fertilizers.

Key features

Range: 0.1–240 mg N, recovery ≥99.5 %, reproducibility ±0.5 %.

Titration: colorimetric (RGB), variable speed; 1.0 µL/step, 0.2 / 0.4 µL/step optional.

Speed: 3–8 min per sample; distillation and titration run simultaneously.

Data: 1 million results, PDF / XML export, result limit alarm.

Connectivity: USB, LAN, RS232, CAN, Wi-Fi; PC and balance.

Value for the laboratory

Data integrity included: 21 CFR Part 11 user management, audit trail and password ageing — no paid software option.

Low water and running cost: metal condenser with 0.5 L/min cooling water; standard ø42 mm tubes and open reagents.

Flexible method: steam flow 0–100 %, two distillation sequences, delay function, simultaneous distillation and titration.

Unattended batches: optional KJELFASTER-A24: 24 positions, separate cleaning position, 4 × 15 L reagent tanks.

Core technical summary

Parameter	Specification
Model	KJELFASTER-K900
SKU	PRO3572
Instrument type	Fully automatic Kjeldahl analyzer
Measuring range	0.1–240 mg N
Recovery	≥99.5 %
Reproducibility	relative error of mean value ±0.5 %
Burette resolution	1.0 µL/step; 0.2 / 0.4 µL/step optional
Time per sample	3–8 min per sample
Data memory	1 million results; PDF / XML export to USB

BURETTE RESOLUTION

0.2–1.0 µL/step

TIME PER SAMPLE

3–8 min

COOLING WATER

0.5 L/min

DATA MEMORY

1 million 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-K900	Dosing	plunger dosing pump, diaphragm filling pumps
SKU	PRO3572	Methods and units	unlimited methods, 15 result units
Instrument type	Fully automatic Kjeldahl analyzer	Data memory	1 million results; PDF / XML export to USB
Measuring range	0.1–240 mg N	Data integrity	21 CFR Part 11: user levels, audit trail, password ageing (included)
Recovery	≥99.5 %	Display	10" HD touchscreen, Android
Reproducibility	relative error of mean value ±0.5 %	Interfaces	USB, LAN, RS232, CAN, Wi-Fi; PC and balance connection
Time per sample	3–8 min per sample	Cooling water consumption	0.5 L/min (metal condenser)
Sample size	solid ≤5 g, liquid ≤20 mL	Monitoring	condensate temperature, online titration curve, result limit alarm
Digestion tubes	φ42 mm, 300 mL (standard, open format)	Autosampler	KJELFASTER-A24 (optional)
Titration	colorimetric (RGB sensor), variable speed, simultaneous with distillation	Power supply	220 V AC ±10 %, 50 Hz
Burette volume	5 / 10 / 25 mL	Rated power	2 kW
Burette resolution	1.0 µL/step; 0.2 / 0.4 µL/step optional	Dimensions (W×D×H)	460 × 360 × 725 mm
Distillation modes	alkali then distillation, or distillation then alkali; delay function	Weight	38 kg
Steam flow	adjustable 0–100 %		

Specification notes

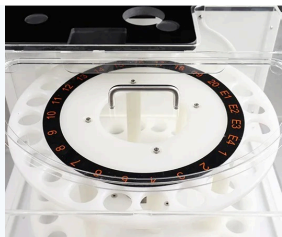
Methods: suitable for classical Kjeldahl methods such as ISO 8968-1 (milk), ISO 5983-2 (feed), ISO 20483 (cereals), ISO 1871 (food), ISO 11261 (soil), ISO 5663 / EPA 351.3 (water, TKN) and AOAC 2001.11.

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

Titration: colorimetric endpoint with RGB-adjustable colour sensor; lower range limit 0.1 mg N.

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Options and accessories



PRO7166

KJELFASTER-A24 autosampler

24 positions, separate cleaning position, 4 × 15 L reagent tanks (approx. 500 analyses per fill).

Optional



PRO7167

KJELDIG-D520 automatic Kjeldahl digester

20 × 300 mL, RT+5–450 °C ±1 °C, automatic rack lift, touchscreen, >500 methods, 21 CFR Part 11, Wi-Fi/USB; controls the scrubber. On request.

Optional



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



Built-in automatic burette

Piston burette for automatic titration, 1.0 μ L/step; volume 5, 10 or 25 mL selected with the order.

Standard delivery



High-resolution titration 0.2 / 0.4 μ L/step

Finer burette resolution option for the KJELFASTER-K900 (standard 1.0 μ L/step).

Optional

More options and consumables

SKU	Item	Use	Status
—	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. The built-in automatic burette is part of the analyzer (volume selected with the order); the KJELFASTER-A24 autosampler, the 0.2 / 0.4 μ L/step option, digestion tubes, catalyst tablets and reagents are ordered separately; KJELDIG digestors and the EXSC5 scrubber complete the system.

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KJELFASTER-K900 with the KJELFASTER-A24 autosampler

Ordering information

Item	Value
Model	KJELFASTER-K900
SKU	PRO3572
Instrument type	Fully automatic Kjeldahl analyzer
Burette resolution	1.0 µL/step; 0.2 / 0.4 µL/step optional
Autosampler	KJELFASTER-A24 (optional)
Options	KJELDIG-D520 automatic digester (on request), KJELDIG-D250 / D450, EXSC5 scrubber
Power supply	220 V AC ±10 %, 50 Hz

Configuration checklist

Throughput: manual loading, or the 24-position A24 for unattended batches.

Burette: 1.0 µL/step standard; 0.2 / 0.4 µL/step for low-nitrogen samples.

Compliance: 21 CFR Part 11 users and audit trail — user roles are defined at installation.

Digestion: KJELDIG-D520 automatic digester for a fully unattended line, or KJELDIG-D450 / D250 with EXSC5 scrubber — see page 4.

MANUFACTURER AND SUPPORT

COLO Lab Experts
Polje ob Sotli 4, SI-3255, Slovenia

Selection guidance: KJELFASTER-K900 is selected by accredited and high-throughput laboratories that need unattended operation, audit-ready data and the finest burette resolution in the KJELFASTER range. For routine work without data-integrity requirements choose K700 or K500.

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-K900 (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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