

Kjeltec™ 9 Analyser

Future-proof productivity in your laboratory



ANALYTICS BEYOND MEASURE

The Kjeltec™ 9 Analyser provides fully automated Kjeldahl analysis adding advanced digital capabilities to an already brilliant technology. Take advantage of fast turnaround time, improved data handling and less risk of human error for accurate results.

Speed with safety

Increase throughput and save operator time with fully automated batch handling. Analyse up to 60 samples unattended and up to 240 samples in 24 hours with Kjeltec™ 9 Autosampler. Ensure safety with FOSS pioneered SAfE mode reducing the risk of chemical spillage while minimising cleaning and maintenance.

Lab operations built on traceability and trust

Gain insight and traceability with networking software that collects analytical results and data from different instruments all in one place. All data is recorded and backed up automatically and is easy-to-share. Instant notifications in the case of errors reduce downtime.

Total solution for sustainable Kjeldahl

Ensure continuous high performance, minimal downtime and optimal use of chemicals and benefit from remote troubleshooting, service and diagnostics. Automatic sample matching makes it easier to pair reference tests for calibration development of NIR options.

Sample type

Raw materials and finished products in food, feed and agriculture.

Parameters

Nitrogen, protein and ammonia.

Technology

Kjeldahl and other nitrogen based chemical analysis.

The superior performance of a FOSS Kjeldahl titration system is based on colorimetric measurement of a precise chemical reaction for end-point detection.

Verified methods

Kjeltec™ 9 is verified against official standards such as AOAC, EPA, DIN, GB and ISO for simplified validation.

Specifications

Performance data at 230 V			
Autosampler capacity	Kjeltec™ 9 Autosampler 20, 1 rack with 20 Kjeldahl tubes 250 ml or 400 ml Kjeltec™ 9 Autosampler 60, 3 racks with 20 Kjeldahl tubes 250 ml or 400 ml		
Storage capacity	200 batches in the instrument software		
Analysis time	3.5 minutes at 30 mg N, (6.5 minutes at 200 mg N)		
Distillation capacity	~ 40 ml/min		
Measuring range	0.1 - 210 mg N		
Reproducibility	1% RSD (including the digestion step)		
Recovery	> 99.5% at nitrogen levels between 1 - 200 mg N		
Tube draining	200 ml in less than 10 seconds		
Burette volume	35 ml		
Burette resolution	1.2 µl/step		
Delay	0 - 1800 seconds		
SAfE (FOSS pioneered)	Auto 5 seconds		
Installation requirements			
Power supply	200 - 240 VAC 50 - 60 Hz		
Tolerable voltage variation	± 10%		
Power consumption	3000 W		
Water consumption (during distillation only)	3 l/min at water temp of 30°C 1 l/min at water temp of 15°C		
Ambient temperature	5 - 40°C		
Ambient humidity	Max. 80% relative		
Drain	For cooling water only		
	Kjeltec™ 9 Analyser	Kjeltec™ 9 Autosampler 20	Kjeltec™ 9 Autosampler 60
Weight net	53 kg	82 kg	135 kg
Dimensions (w × d × h)	50 × 48 × 76 cm	69 × 76 × 100 cm	103 × 79.5 × 100 cm
Optional services			
Sample registration	Kjeltec™ Registration (PC Software for Kjeltec™ 9)		

Accessories

- Tank for titrant, complete with tubing
- Burette Dosing device for calibration of burette
- Top loaded level sensor for waste tank
- Top loaded level sensor for reagent tank
- Tank 20 l (Alkali/water/waste) without level sensors
- Level sensor kit for waste
- Level sensor kit for reagents
- Adapter for Büchi tubes
- Handling device for digestion tubes

This instrument is SmartAnalytics™ enabled. Turn your data into actionable insights that give you full control of your production across sites. Increase your efficiency, accuracy and uptime to ensure the safe and consistently high-quality food and feed products your customers expect.

Contact your local sales representative to learn more about the potential value in your business.



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