



AUTOMATIC KJELDAHL ANALYZER TT-K1100F

The Automatic Kjeldahl Analyzer TT-K1100F combines distillation and titration functions, following the traditional Kjeldahl nitrogen determination method.

Automatic Kjeldahl Analyzer TT-K1100F features a state-of-the-art core control system, robust automation, and top-notch components. This Automatic Kjeldahl Analyzer TT-K1100F device effortlessly manages automatic waste disposal and cleaning of digestion tubes and titration cups, controls steam supply, and monitors condensation temperature in real time. Its high-precision charging pump and titration system ensure precise test results, while multiple fluid level detections maintain a seamless testing process.

APPLICATIONS

- **Food & Beverage Industry:** Determines protein content in meat, dairy, grains, and processed foods for nutrition labeling, product development, and quality control.
- **Feed & Agriculture:** Measures nitrogen and protein levels in animal feed, fertilizers, and soil samples to optimize formulations and monitor soil fertility.
- **Pharmaceutical & Biotechnology:** Ensures accurate nitrogen determination in pharmaceutical raw materials and formulations to meet regulatory compliance.
- **Environmental Testing:** Analyzes nitrogen compounds in wastewater, soil, and sludge for pollution monitoring, sustainability, and environmental protection.
- **Tobacco Industry:** Evaluates nitrogen content in tobacco leaves and finished products to support production control and research studies.
- **Research & Education:** Provides reliable, automated nitrogen and protein analysis for universities, R&D centers, and training laboratories.
- **Quality Assurance & Compliance Labs:** Supports AOAC, ISO, and pharmacopeial testing with automated distillation and titration for efficient reporting.

FEATURES

- The Automatic Kjeldahl Analyzer TT-K1100F offers automated distillation, titration, calculation, printing, drainage, and cleaning functions, enhancing safety and saving time.
- Its transparent titration cup design provides operators with real-time control over the entire testing process.
- The steam flow is adjustable to meet various test requirements.
- The reagent tank features a fluid absence warning function, ensuring uninterrupted testing.
- High-precision charging pump and titration system guarantee accurate test results.
- The large LCD touch screen allows for visual operation, providing users with comprehensive control.
- It offers optional USB or RS485 interfaces for PC connectivity.
- Real-time detection of distilled liquid temperature enables emergency stops in case of temperature anomalies.
- The double distillation model caters to diverse experiments, slowing down the acid-base reaction.
- A rapid drainage function for digestion tubes helps prevent operator contact with hot distilled reagents, ensuring operator safety.
- Additionally, it includes a built-in printer for added convenience.

Complete microcomputer control

The system automatically handles distillation, titration, calculations, printing, waste disposal, and multiple safety measures. This includes self-detection for failures, alerts for condensed water shortages, displacement warnings for safety doors and digestion tubes, ensuring a comprehensive safeguarding system.

Large LCD Touch Screen Panel

The sizable LCD touch screen provides visual operation and comprehensive information, empowering users with clear and easy control over the system.

Automatic Kjeldahl Analyzer TT-K1100F

The design ensures complete compatibility, seamlessly integrating with similar products from the same category.

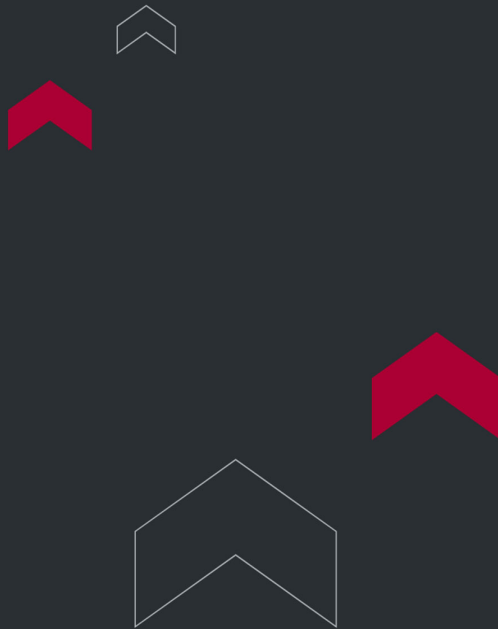
Performance advantage

- Compatible with $\varnothing$ 42mm digestion tubes for seamless integration.
- Simultaneous titration during distillation for increased efficiency.
- User-friendly design featuring a color touch screen for easy operation.
- Utilizes a faster ARM system for improved operating speeds.
- Compatible digester models SH220F and SH420F with $\varnothing$ mm digestion tubes are suitable matches for the K1100F.

TECHNICAL SPECIFICATIONS

Measuring range	0.1mg □ 240mg N
Analysis time	5□ 10min/sample
Reproducibility	Average value relative error $\pm 0.5\%$
Recovery	$\geq 99.5\%$
Burette volume	1.0 μ L/step

Sample capacity	solid $\leq$ 5g/sample, liquid $\leq$ 20mL/sample
Water consumption in the distillation process	1.5L/min
Data storage capacity	1800 groups
Power supply	220VAC $\pm$ 10%, 50Hz (110V is also available. Please specify when ordering)
Power	2Kw
Net weight	83.8 lbs.
Dimensions	17.9 inches X 15.4 inches X 28.7 inches



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