

KJELDAHL DISTILLATION UNIT TT- K9840



The Kjeldahl Distillation Unit TT-K9840 Unit is designed to assess nitrogen content in samples through the Kjeldahl nitrogen determination method. Its intelligent software swiftly conducts sample distillation, automates reagent quantification and filling, and facilitates automatic testing.

The distillation and condensation automatic cleaning system heightens measurement precision, while the user-friendly interface simplifies operation. This unit finds extensive application in food processing, feed production, tobacco, livestock, soil fertility assessment, environmental monitoring, medicine, agriculture, scientific research, education, quality control, and various fields requiring nitrogen or protein content analysis. Additionally, it supports tests for ammonium, volatile fatty acids/alkalis, and similar substances.

APPLICATIONS

- **Food & Beverage Industry:** Determines protein content in dairy, meat, grains, and processed foods to support nutritional labeling, product development, and quality control.
- **Feed & Agriculture:** Measures nitrogen and protein levels in animal feed, fertilizers, and soil to optimize formulations and conduct fertility analysis.
- **Environmental Monitoring:** Analyzes nitrogen compounds, ammonium, and volatile bases in wastewater, sludge, and soil to ensure compliance with environmental standards.
- **Pharmaceuticals & Biotechnology:** Provides precise nitrogen determination for raw materials, intermediates, and pharmaceutical formulations to meet regulatory compliance.
- **Tobacco Industry:** Evaluates nitrogen levels in tobacco leaves and finished products to maintain consistency, product quality, and production standards.
- **Scientific Research & Education:** Supports laboratory training and academic research in chemistry, agriculture, and life sciences with reliable nitrogen and protein analysis.
- **Quality Control Labs:** Ensures accuracy in nitrogen and protein testing across industries, aligning with AOAC, ISO, and pharmacopeial methods for compliance.

- **Chemical Analysis:** Suitable for testing volatile fatty acids, alkalis, and other compounds in broader analytical and industrial applications.

FEATURES

Kjeldahl Distillation Unit TT-K9840

Characteristics:

- **Display:** Equipped with a 4.3-inch color screen for user interface.
- **Mode Switching:** Allows seamless transition between Manual and Automatic modes.
- **Automatic Alkali Pipeline Washing:** Incorporates an automatic cleaning function for the alkali pipeline.
- **Filling Mode:** Offers optional automatic or manual filling modes based on test requirements.
- **Customizable Distillation Time:** Enables users to freely edit distillation times and triggers automatic alerts upon completion.
- **Automated Cleaning:** Features automated cleaning for both the control system and distiller, ensuring precise measurements.
- **Intelligent Design:** Includes safety features and displacement prompts in the peripheral facilities of the nitrogen tube.
- **Cooling Water Control:** Utilizes an intelligent cooling water control system for precise cooling and testing.
- **Emergency Stop:** Provides emergency stop functionality to manage unexpected accidents effectively.
- **Fault Detection and Alarms:** Offers automatic fault detection with an intelligent audible and visual alarm system.
- **Calibration Functions:** Includes calibration options for Dilution water, Alkali solution, Boric acid solution, and washing flow.
- **Real-time Display:** Displays safety door, digestion tube, and cooling water statuses in real-time during operation.
- **Built-in Testing Model:** Allows detection of most functional conditions within the instrument.

Features:

- Automatically and precisely dispenses alkali and boric acid solutions with accuracy.
- Comprehensive safety protection system safeguards the distiller and tubes against over-temperature and over-pressure.
- Offers Calibration Functions: Dilution water, Alkali solution, Boric acid solution, and Washing flow calibrations.
- Real-time display of safety door, digestion tube, and cooling water conditions during operation ensures monitoring and safety checks.

TECHNICAL SPECIFICATIONS

Measuring range	0.1mg □ 240mg N
Recovery	≥99.5%
Sample capacity	solid≤6g/sample, liquid≤16mL/sample
Distillation speed	3-6min/sample
Cooling water consumption	1.5L/min
Operating mode	Manual/automatic mode
Display modes	4.3" LCD screen
Power supply	220VAC±10%, 50Hz (110V is also available. Please specify when ordering)
Power	1.3KW
Net weight	66.1 lbs.
Dimensions	15.7 inches X 15.2 inches X 28.9 inches



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