

## Semi-Automatic Kjeldahl Distillation/Nitrogen Analyzer



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#### Applications:

- **Wide Usage:** Ideal for fields including food processing, feed production, tobacco, animal husbandry, soil fertilizer, environmental monitoring, medicine, agriculture, scientific research, teaching, and quality supervision.
- **Testing Capabilities:** Measures nitrogen or protein content, detects ammonium salt, volatile fatty acids/alkali, soil cation exchange capacity, and more.

#### Features:

- **High-Resolution Display:** 7-inch color LCD for real-time control and

monitoring of the experimental process.

- **Dual Mode Operation:** Manual and automatic modes. In automatic mode, the analyzer:
  - Quantitatively adds lye, boric acid, and dilution water.
  - Includes automatic waste discharge and rinse setting.
- **Customizable Distillation:** Adjustable distillation time with alarm notifications for process completion. Includes safety door protection and alerts for improperly placed digestive tubes.
- **Water Conservation:** Condensed water flow rate of 1.5 L/min with real-time flow monitoring and low water pressure alarm.
- **Real-Time Monitoring:** Tracks steam generator temperature, pressure, and water level to ensure a safe experiment.
- **Emergency and Fault Detection:** Emergency stop function, automatic fault detection, sound and light alarms, and intelligent display.
- **Durable Construction:** High-reliability PTFE pump with corrosion resistance, anti-crystallization, stable liquid addition, and negative pressure suction. The analyzer is made from ABS engineering plastics, offering corrosion resistance, waterproofing, and leak-proofing.

#### Technical Parameters:

- **Model:** MSAKN01SSWISS
- **Measuring Range:** 0.1 mg - 240 mg N
- **Recovery Rate:** 99.5%
- **Sample Amount:** Solid 6 g; Liquid 20 mL
- **Distillation Speed:** 3-6 min/sample
- **Distillation Time:** 0-60 min
- **Repeatability:** 0.5%
- **Cooling Water Consumption:** 1.5 L/min
- **Operating Mode:** Automatic/manual dual modes
- **Automatic Drainage:** Automatically empties and cleans digestive tube waste liquid
- **Reagents Bottle Liquid Level Detection:** Yes
- **Reagents Bottles:** 4 pcs
- **Protection Device:** Flow rate detection, liquid level alarm, over-

temperature, and over-pressure protection

- **Display:** 7-inch LCD
- **Rated Power:** 1.4 kW
- **Power Supply:** Standard 220V 50/60Hz (Optional 110V 50/60Hz)
- **External Size:** 490 mm x 380 mm x 725 mm
- **Net Weight:** 35 kg
- **Packing Size:** 630 mm x 560 mm x 1350 mm
- **Gross Weight:** 52 kg