Semi-Automatic Kjeldahl Distillation/Nitrogen Analyzer

Model **MSAKN01SSWISS** | Brand **Master Science** | Unit **Pc**



Semi-Automatic Kjeldahl Distillation/Nitrogen Analyzer Applications: 1. 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. 2. Testing Capabilities: Measures nitrogen or protein content, detects ammonium salt, volatile fatty acids/alkali, soil cation exchange capacity, and more. Features: 1.

KEY HIGHLIGHTS

- Dual Mode Operation
- Customizable Distillation
- Water Conservation
- Real-Time Monitoring
- Emergency and Fault Detection

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Key Features

Measures nitrogen or protein content, detects ammonium salt, volatile fatty acids/alkali, soil cation exchange capacity, and more.

Dual Mode Operation
Manual and automatic modes. In automatic mode, the analyzer

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.

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 Specifications

PARAMETER	SPECIFICATION
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
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
High-Resolution Display	7-inch color LCD for real-time control and monitoring of the experimental process.
Protection Device	Flow rate detection, liquid level alarm, over-temperature, and over-pressure protection

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.