Kjeldahl Distillation Analyzer, 0.1-240 mg N, 3-8 min/Sample, ≥99.5% Recovery, Touch Screen

Model **MSKJA-S1305SWISS** | Brand **Master Science**





The Kjeldahl Distillation Analyzer measures nitrogen or protein content, as well as cation exchange capacity, in food, medicine, soil, chemical, agricultural, forestry, materials and environmental samples. Following the Kjeldahl method, digested samples are steam-distilled in alkaline conditions, the ammonia is absorbed in boric acid, and the endpoint is determined by indicator titration.

KEY HIGHLIGHTS

- Automatic Reagent Dosing
- High Recovery
- Water Saving
- Multiple Safety Checks

AT A GLANCE

0.1-240 mg N (conventional and nitrate nitrogen)
MEASURING RANGE

3-8 min per sample
MEASURING SPEED

Request a Quotation
Contact us for pricing, configuration options and delivery details.

support@themsci.com
www.themsci.com

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Overview

The instrument adds dilution water, alkali and absorption solution automatically, distills the sample in 3 to 8 minutes and calculates results with built-in software. The Kjeldahl Distillation Analyzer measures 0.1-240 mg N with ≥ 99.5% recovery and ±0.5% repeatability, and its steam generator preheats, refills, controls pressure and guards against dry burning automatically.

Pair the Kjeldahl Distillation Analyzer with our 8-Hole Kjeldahl Digester for a complete Kjeldahl setup.

Manual Kjeldahl distillation setups bring the issues below. The Kjeldahl Distillation Analyzer handles each one.

Overview

- Steam distillation in alkaline environment
- Boric acid absorption
- Single or double distillation, manual or automatic switching
- Steam flow adjustable 0-100%

Key Benefits

Automatic Reagent Dosing
Dilution water, alkali and boric acid are added automatically.

High Recovery
The distillation path is designed around ammonia escape for ≥ 99.5% recovery.

Water Saving
Cooling water runs only during distillation, with flow monitoring and low-pressure alarm.

Multiple Safety Checks
Door, tube, boiler level, boiler temperature and cooling water are all monitored.

Technical Specifications

UNDEFINED

Brand	Master Science
Model Number	MSKJA-S1305SWISS
SKU	MSKJA-S1305SWISS
Measuring Range	**0.1-240 mg N (conventional and nitrate nitrogen)**
Measuring Speed	3-8 min per sample
Recovery Rate	≥ 99.5% (100% ±0.5%)
Repeatability Error	±0.5%
Sample Amount	Solid ≤ 6 g; liquid ≤ 25 mL
Steam Flow Setting	0-100%
Cooling Water Consumption	≥ 1.5 L/min
Distillation Time	0-99 min
Distillation Delay	0-99 min
Display	Color LCD touch screen
Dosing Pump	PTFE bellows pump
Distillation Modes	Single and double distillation, manual or automatic
Panel	ABS engineering plastic
Power Supply	AC 220 V ±10%, 50 Hz
Power	1800 W
Dimensions	420 × 365 × 720 mm
Net / Gross Weight	37 kg / 41 kg
Shipping Size	530 × 480 × 950 mm

PROBLEMS THE KJELDAHL DISTILLATION ANALYZER SOLVES

Manual reagent addition errors	Dilution water and reagents are dosed automatically.
Ammonia loss lowering results	The distillation path keeps recovery ≥ 99.5%.
Wasted cooling water	Water flows only during distillation.
Steam boiler hazards	Automatic pressure control and dry-burn protection keep the boiler safe.

Applications

- **Protein determination in food and feed**
- **Nitrogen analysis of soil and fertilizer**
- **Cation exchange capacity testing**
- **Pharmaceutical and chemical nitrogen testing**
- **Environmental monitoring laboratories**

Automation

- Automatic dilution water, alkali and absorption solution dosing
- Built-in calculation software
- Conditions saved automatically
- Automatic cleaning and self-check

Steam Generator and Safety

- Automatic preheating, refilling and steam pressure control
- Dry-burn protection
- Safety door and digestion tube position detection
- Cooling water flow monitoring with low-pressure alarm

Construction

- PTFE bellows pump, anti-corrosion and clog-resistant
- ABS corrosion-resistant panel
- Transparent acrylic protective cover

Standard Accessories Included

- Kjeldahl distillation analyzer main unit

Optional Accessories

- No optional accessories are listed for this model; contact our team for compatible items.