

LABKJEL

ESSENTIAL

Intelligent Distillation Unit for Precise Nitrogen Analysis.



The **Labkjel Essential** Automatic Kjeldahl Distillation Unit is purpose-built for swiftly determining nitrogen levels in samples using the Kjeldahl nitrogen determination method. Equipped with highly intelligent software, it streamlines sample distillation, featuring automated reagent measurement and filling, as well as automatic testing. Its automatic distillation and condensation cleaning system further elevates precision in measurements, all while offering a user-friendly interface for effortless operation. This versatile unit finds widespread application across diverse sectors, including food processing, feed production, livestock, soil fertility, environmental monitoring, medicine, agriculture, scientific research, academia, quality control, and more. It excels not only in assessing nitrogen and protein content but also in analyzing ammonium, volatile acids, alcohol, and similar substances.



KEY SPECIFICATIONS

- Display: 4.3 inch color screen
- Automatic mode is optional according to test need
- Distillation time can be edited freely, and automatic alarming upon completion
- Intelligent design of nitrogen tube peripheral facilities, including safety designs and displacement hint
- Intelligent cooling water control system
- Emergency stop operation is able to deal with unexpected accidents
- Calibration Function: Dilution water calibration, Alkali solution calibration, Boric acid solution calibration & washing flow calibration
- Safety door, digestion tube and cooling water condition is displayed at real time when running



FOOD



PHARMA



FEED



ENVIRONMENT

OUR UNIQUE OFFERINGS

- EASY SWITCHOVER BETWEEN MANUAL/AUTOMATIC MODES
- AUTOMATIC ALKALI PIPELINE WASHING FUNCTION
- AUTOMATIC CLEANING OF CONTROL SYSTEM AND DISTILLER, ENSURING HIGH MEASUREMENT ACCURACY
- AUTOMATIC FAULT DETECTION AND INTELLIGENT AUDIBLE AND VISUAL ALARM SYSTEM ARE AVAILABLE
- BUILT IN DEBUG MODE TO CHECK THE STATUS OF EACH PART

Technical Data

LKE 1401 Automatic Kjeldahl Nitrogen / Protein Analyzer

| | |
|---------------------------|---------------------------------------|
| Measuring range | 0.01 - 240 mg/N |
| Recovery | ≥99.5% |
| Sample capacity | solid ≤6g/sample, liquid ≤16mL/sample |
| Distillation speed | 3.5 - 5min/sample |
| Optimal Precision Modes | Grid Instabilities offset |
| Cooling water consumption | 1.5L/min |
| Operating mode | Automatic mode |
| Display | 4.3" LCD screen |
| Power supply | 220VAC±10%, 50/60Hz |
| Power consumption | 1.3KW |
| Net weight | 30Kg |
| Dimensions | 400mm×385mm×735mm |
| IP Rating | IP 65 |

OUR CUSTOMERS:



Johnson+Johnson

Accreditations:

Formally recognized by AOAC, EPA, DIN, and ISO

LABKJEL

Automated High-Throughput Nitrogen Analysis