



**A & E LAB (UK) CO.,LTD**

**Laboratory Instruments Solution Provider**

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2025 Version

## AELAB Automatic Nitrogen Analyzer NKB3200



### Introduction:

The NKB3200 Kjeldahl nitrogen analyzer is controlled by a program, with a large touch screen for parameter setting. It automatically completes acid addition, dilution, alkali addition, and distillation, and automatically stops with a prompt upon completion. It features a convenient and safe digestion tube handling mechanism. The entire machine is made of ABS engineering plastic, resistant to strong acids and alkalis, ensuring durability, accurate testing, and high sample recovery rate, complying with international/national standards. It is widely popular for its fast testing speed, stable and reliable operation, suitability for continuous work, and long service life.

### Scope of Application:

This product is suitable for intelligent determination of nitrogen or protein content in samples such as food, dairy products, natural rubber, latex, seeds, soil, plants, feed, ores, sludge, and chemical precipitates in food, beverage, pharmaceutical, agriculture, forestry, fishery, mining, chemical and other production enterprises, as well as scientific research and testing units such as colleges and universities, research institutes, environmental monitoring, soil and fertilizer stations, agricultural machinery stations, and quality supervision and inspection. It can also measure the content of volatile basic nitrogen, volatile fatty acids, ammonia, cyanide, sulfur dioxide, formaldehyde, ethanol, etc.

### Working Conditions:

- ◆ Ambient temperature: 10°C-35°C;
- ◆ Condensate water pressure: 0.02Mpa-1Mpa;
- ◆ Power supply voltage: 220V±10%;

### Features:

- ◆ Automatic boric acid addition, alkali addition, automatic dilution, automatic distillation, automatic condensation, and automatic rinsing;
- ◆ Level alarm for acid, alkali, diluent, and distilled water;
- ◆ Real-time reminder of the working status to users;
- ◆ Equipped with a rotating protective door and digestion tube in-place detection function to fully protect laboratory personnel;
- ◆ Built-in debugging mode for detecting whether various components of the instrument are working normally;
- ◆ With calibration functions for boric acid, alkali, diluent, and distilled water.
- ◆ Adopts independent liquid addition systems, ensuring high stability and reliability;
- ◆ Uses mature and stable steam generation technology, capable of automatic preheating, water replenishment, and preventing dry burning;
- ◆ 7-inch true color 640\*480 pixel LCD touch screen. It can display working status, temperature, and flow rate in real-time;
- ◆ Arbitrary switching between manual and automatic modes;
- ◆ Steam generator with multiple liquid level probes and photoelectric sensor detection, electronic and mechanical dual over-temperature power-off protection;
- ◆ Can store 1000 experimental program procedures, convenient for various distillation applications;
- ◆ Has an emergency stop operation function to fully protect the tested samples;
- ◆ With Chinese/English interface, selectable according to customer needs.

**Parameter:**

Testing modules	conventional nitrogen testing module, nitrate nitrogen testing module
Determination range	0.06-240mgN;
Test samples	solid: ≤10g, liquid ≤25ml;
Distillation time	0-100min (adjustable);
Testing time	3-6min/sample
Recovery rate	≥99.5%;
Steam flow rate	10-40ml/min (adjustable);
Condensate water consumption	1.5L/min;
Repeatability	RSD≤0.5%;
Distillation power	375W-1500W adjustable;
Control method	5.6-inch touch screen;
Power supply	AC 220±2V 50Hz;
Dimension specifications	360x400x660;
Weight	about 15KG

**Main Configuration of the Equipment:**

Serial Number	Configuration Name	Quantity
1	NKB3200 main unit	1 set
2	Collection bottle	1 piece
3	Digestion tube	1 piece
4	Liquid level sensor	4 pieces
5	Reagent bucket	4 pieces
6	Silicone tube (1.5 meters)	3 pieces
7	Power cord	1 piece
8	Spare fuse (10A)	2 pieces
9	Spare liquid inlet interface	2 pieces
10	Spare cooling water interface	2 pieces