



NKB3100/3200 Series

Kjeldahl Analyzer Automatic Instrument



Key Features

1. An intelligent and automatic instrument;
2. Easy operation and automatic warning system after distillation;
3. A large touch screen for setting distillation time and alkali content.

Application:

It has been widely applied to such fields as agriculture, biology, food, chemical industry, pharmacy, tobacco, soil fertilizer, environment, material, scientific research and quality supervision, which can be used to conduct macroanalysis and semimicro-analysis of nitrogen and protein content in the samples like soil, fertilizer, food, crop, medicine, forage, water, chemical product, rubber, material and solid and liquid wastes. It is also adopted to test ammonium salt, volatile phenol, sulfide, alcohol and soil cation exchange capacity.

Product Features:

1. a large touch screen for setting distillation time and alkali content, real-time display of condensate water current curve and automatic storage of data.
2. Easy operation and automatic warning system after distillation.
3. Independent water-added pump and alkali-added pump with high reliability.
4. Mature vapor generator technology, automatic preheating and water replenishing, protection against heating without water and automatic cleaning.
5. Reagent addition through the negative suction system instead of the low-cost high pressure pumping, which could avoid injuring people.
6. The sensor technology enables the temperature of effusion bottle to immediately display the actual test temperature without manual test, thus avoiding the release of nitrogen due to excess temperature
7. Flow sensor enables real-time detection of condensate water's flow velocity to guarantee stable flow velocity, taking the place of traditional flow switch and avoiding low sample recovery rate due to low velocity and temperature of the liquid being on the high side.



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☉ **Technical Index:**

Model	NKB3100	NKB3200
Measurement Range	0.1-200mgN	0.1-240mgN
Function	Automatic test module of conventional Nitrogen	1. Automatic test module of conventional Nitrogen. 2. Automatic test module of Nitrate Nitrogen 3. Automatic test module of high Nitrogen
Operation Mode	Auto mode	Auto or Manual mode
Distillation Time	0-100min/sample(adjustable)	0-100min/sample(adjustable)
Recovery Rate(%)	≥99.5%	≥99.5%
Sample	Solid≤5g liquid≤25ml	Solid≤5g liquid≤25ml
Distillation Rate	10-30ml/min	10-30ml/min
Distillation Power	375W-1500W	375W-1500W
Condensate Water Consumption	≥1.5L/min	≥1.5L/min
Operation Interface	4.3-inch touch screen with high resolution	4.3-inch touch screen with high resolution
Safety Protection Device	Level alarm	Flow velocity monitoring, level alarm, distillate temperature monitoring
Degree of Automation	With parameter set, the instrument automatically effects sample dilution, addition of boric acid and alkali, distillation, absorption and piping cleaning	
Repeatability	RSD≤0.5%	RSD≤0.5%
Power	AC 220±22V 50-60Hz	AC 220±22V 50-60Hz
External Dimension	360 x 400 x 600	360 x 400 x 600
Weight	About 15kg	About 15kg

Vacuum heating technology is adopted for the first time with high heating rate and good temperature uniformity. Nanometer thermal insulation material is used, which result in high thermal efficiency and energy saving and environmental protection. A 4.3-inch LCD touch screen simplifies the operation and can display the temperature curve in real time, obsoleting the complex operation of traditional temperature controller.

It can be adopted to digest samples, including seed, soil, plants, forage, food and mineral, in such industrial as food, medicine, agriculture, forestry and biochemistry, universities and science & research departments