

## Kjeldahl Nitrogen Analyzer

Model: YK-K66



YK-K66 fully automatic Kjeldahl nitrogen analyzer uses 32-bit microcomputer intelligent control and LCD color touch screen operation to automatically complete a series of processes such as adding boric acid, alkali, dilution, distillation, titration, cleaning, storage, printing, etc. It has the technology of "Kjeldahl nitrogen analyzer that can eliminate errors caused by long time intervals in continuous detection".

### Detailed introduction:

YK-K66 fully automatic Kjeldahl nitrogen analyzer is a set of automatic intelligent nitrogen or protein measuring instruments designed according to the classic Kjeldahl nitrogen determination principle. It is widely used to detect the content of ammonia, nitrogen, and protein nitrogen in grain and oil food, dairy products, beverages, feed, soil, fertilizers, drugs, and some chemical products. It is an important chemical analysis instrument for product quality detection.

YK-K66 fully automatic Kjeldahl nitrogen analyzer uses a new long-life design, 32-bit microcomputer intelligent control, LCD color touch screen operation, and Chinese and English menu interface to complete human-computer dialogue operation. The instrument judges the end point of the acid-base balance of the reaction cup by the change of the state of the three primary colors of red, green, and blue. This technology is



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known for its stability and anti-interference. It can prompt whether ammonia is distilled. The instrument automatically cleans and calibrates when it is turned on, without manual calibration, avoiding human inconsistency.

#### Product functions:

1. ★ Distillation and titration are carried out simultaneously and the chart automatically displays whether the ammonia is distilled and whether the titration is at the equilibrium point.
2. ★ It can detect quality control samples and display, analyze and store quality control charts.
3. The minimum titration volume is 0.8 $\mu$ l, and the instrument automatically adjusts the minimum titration volume according to the standard acid concentration.
4. The volume range of standard acid titration is 0ml-60ml, which is not affected by the volume range of the burette.
5. ★ Standard acid concentration range: 0.01-0.4mol/L standard acid
6. It has various safety door detection, reagent level detection, automatic drainage of digestion tube and reaction cup waste liquid, real-time detection of cooling water flow and water pressure, automatic preheating of distillation cup, and automatic condensation water shutdown when the instrument is idle.
7. It has real-time detection and control of the temperature of the reaction cup;
8. Manual and automatic dual modes are convenient for special sample detection.
9. Intermittent alkali addition ensures that the acid-base reaction is in a controllable state.
10. Adjustable distillation power: 0-100% distillation power is steplessly adjustable to meet the user's special testing requirements.
11. The internal connecting pipes of the instrument adopt specific pipes and are free of replacement for 3 years.
12. All reagents are metered and added by a pressureless liquid pump, measured in 1ml.
13. Titration and distillation are carried out simultaneously.
14. The reaction cup is external and not affected by external light sources.
15. Data and test conditions are traceable, and 200,000 sets of sample data can be stored, which can meet the data storage within the effective life of the instrument. The USB interface can also output data.
16. Quality control data is displayed, stored, analyzed, and can display and print current and historical quality control charts.

#### Specification data:

1. Determination range: 0.01-240mg nitrogen
2. Distillation time and capacity: 0.0-9.0 minutes/sample, 0-30ml/minute adjustable
3. Titration accuracy:  $\leq 0.0012\mu$ l/step, minimum titration volume: 0.8 $\mu$ l/step
4. Reproducibility: RSD $\leq 0.4\%$
5. Recovery rate: >99.5% (can be used as acceptance index)
6. Linear range: within the range of 1-4 times the sample volume of the same sample, RSD<1.0%, (nitrogen content 1-240mgN, can be used as acceptance index)
7. Reagent pump volume: 0-150ml, 1ml/level
8. Delay time: 0-3600s (suitable for detecting nitrate nitrogen)
9. Distillation power: 0-1500W adjustable
10. Power supply: AC220V $\pm 10\%$ , frequency 50/60HZ



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