

# Automatic Kjeldahl Analyzer

KJ-100



KJ-100 Automatic Kjeldahl Analyzer is an automatic device integrating distillation and titration functions designed based on classic Kjeldahl nitrogen determination method. It's equipped with the latest core control system, powerful automatic degree and high-quality components, can easily achieve automatic waste discharge and cleaning of boiling tubes and titration cups, control steam supply and have real-time detection of condensation temperature. High-accuracy charging pump and titration system ensure test results accuracy, and multiple fluid-level detection gives smooth test process.

### Application:

KJ-100 Automatic Kjeldahl Analyzer is widely used in food processing, feed production, tobacco, livestock, soil fertility, environmental monitoring, medicine, agriculture, scientific research, teaching, quality control and other fields for the test of nitrogen or protein content, can also be used for the test of ammonium, volatile fatty acid / alkali, and so on.

### Features:

#### Titration precision as high as 1.0μL/step

KJ-100 Auto Kjeldahl analyzer has exclusive design i.e. linear motor micro-control titration system which ensures accurate results; the external use is easy for the observation of the whole titration process; the built-in high-sensitivity color sensing unit ensures accurate final point determination; extremely high-precision plunger titration unit achieves unprecedented precision as high as 1.0μL/step.

#### Brand new touch interaction system

The powerful calculation function based on ARM microprocessor unit can be operated directly through the touch screen; powerful detection function has all test steps under real-time monitoring with status displayed in figures; solution barrel level detection function and high-grade pump effectively ensure correct solution supply; samples can be detected and classified by the system, and traditional test methods and parameters are built in and can be freely used in the test process

#### Correct steam control

New material PTC constant-temperature heating modules are used in the heating unit of the steam generation system, and the use of metallic heater speeds up the fluid boiling, ensuring the generation of a great deal of steam in a short period; digital electronic temperature measurement and mechanical temperature measurement provides the heating unit with double protections; customized steam pressure regulating valve guarantees the steam generation system safety and ensures uniform steam

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### Characteristics:

- Automatic completion of distillation, titration, calculation, printing, waste discharge and cleaning.
- Automatic waste discharge and cleaning ensure operator safety and save work hours.
- External titration cup design gives operator real-time control of the whole test process.
- Multiple protections i.e. failure self-detection, hints of condensed water shortage, displacement of safety door and nitrogen tube, and so on.
- Steam flow is controllable, satisfying different test requirements.
- Reagent barrel enjoys fluid absence warning function, ensuring smooth test going.
- High-precision charging pump and titration ensure test results accuracy.
- Large LCD touch screen gives visual operation and abundant information, enabling user to have a good command of it.
- USB or RS485 interface is optional for PC connection.

### Technical data:

Measuring range	0.1mg~200mg N
Analysis time	5~10min/sample
Reproducibility	Average value relative error $\pm 0.5\%$
Recovery	$\geq 99.5\%$
Burette volume	1.0μL/step
Sample capacity	solid $\leq 5g$ /sample, liquid $\leq 20mL$ /sample
Water consumption in the distillation process	1.5L/min
Data storage capacity	1000 pieces
Power supply	220VAC $\pm 10\%$ , 50Hz
Power	2KW
Net weight	38Kg
Dimensions	455mm*391mm*730mm

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