

AKA-11, Automatic Kjeldahl Analyzer

AKA-11

Characteristics:

- Automatic completion of distillation, titration, calculation, printing, waste discharge and cleaning.
- External titration cup design gives operator real-time control of the whole test process.
- Large LCD touch screen gives visual operation & abundant information, enabling user to have a good command of it.

Scope of application AKA-11 Auto Analyzer is widely used in food processing, feed production, tobacco, livestock, soil fertility, environmental monitoring, medicine, agriculture, scientific research, teaching, quality control & other fields for the test of nitrogen or protein content, can also be used for the test of ammonium, volatile fatty acid / alkali, & so on.

DIST-984, Auto Distiller

DIST-984 Auto Distiller is designed to determine nitrogen content of samples in the globally accepted Kjeldahl nitrogen determination method. Fully intelligent software is able to complete sample distillation within minutes. The distillation and condensation automatic cleaning system further enhances measurement precision. It is widely used in food processing, feed production, tobacco, livestock, soil fertility, environmental monitoring, medicine, agriculture, scientific research, teaching, quality control.



DIST-984

AKA-11 Auto 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.

Titration precision as high as 1.0 μ L/step AKA-11 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 1.0 μ L/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 & parameters are built in & 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 output; and steam flow is also adjustable with software system.

Model	AKA-11
Sample capacity	Solid \leq 5.00g/sample, liquid \leq 20mL/sample
Measuring range	0.1mg N - 200mg N
Analysis time	5 - 10 min/sample
Recovery	\geq 99.5%
Burette volume	1.0ul/step
Reproducibility	Average value relative error 0.5%
Storage capacity	1000 pieces
Interface	USB or RS485
Power supply / Power	220V 50Hz / 2KW
Water consumption in the distillation process	1.5L/min
Cooling water temperature	<20 $^{\circ}$ C
Ambient temperature	10 $^{\circ}$ C - 28 $^{\circ}$ C

Characteristics: Display: 5.1" LCD screen • Manual/automatic mode free changeover • Automatic alkali liquid quantification and filling • Automatic boric solution quantification and filling • Automatic or manual filling mode is optional according to test need • Distillation time can be set freely, and automatic alarming upon completion • Automatic cleaning of control system and distiller, ensuring high measurement accuracy • Perfect safety protection system gives distiller and tubes measurement and protection against over-temperature and over-pressure • Intelligent cooling water control system achieves cooling water control and test.

Model	DIST-984
Measuring range	0.1-200mgN (mg N)
Nitrogen recovery	\geq 99.5%
Repeat accuracy	\pm 0.5%(CV)
Sample weight	Solid<6g, liquid<16ml
Distillation speed	< 5min/sample
Distillation period	Can be set freely (within 1 hour)
Cooling water consumption	1.5 L/min
Power supply	220V 50Hz
Power / Max. power	2KW / 1300W
Volume	400mm \times 361mm \times 746mm