

K1100/K1100F Automatic Kjeldahl Analyzer

K1100/K1100F 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 automation and high-quality components, can easily achieve automatic waste discharge and cleaning of digestion tubes and titration cups, control steam supply and 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.

Characteristic

- Automatic waste discharge and cleaning ensure operator safety and save work-time.
- External titration cup design gives operator real-time control of the whole test process.
- Steam flow is controllable, satisfying different test requirements.
- Regent barrel enjoys fluid absence warning function, ensuring smooth test going.
- High-precision charging pump and titration ensure test results accuracy.
- USB or RS485 interface is optional for PC connection.
- The temperature of distilled liquid is detected real time. If the temperature of distilled liquid is abnormal, to ensure the accuracy of experiment' s result, instrument will stop working.
- Double distillation model is used to meet different experiments, to retard the speed of acid-base reaction.
- Digestion tube fast drain function is used to avoid operator touch distilled hot reagents, protecting operators.



Complete microcomputer control

Automatic completion of distillation, titration, calculation, printing, waste discharge and multiple protections, i.e. failure self-detection, hints of condensed water shortage, displacement of safety door and digestion tube and so on.

Large LCD Touch Screen Panel

Large LCD touch screen gives visual operation and abundant information, enabling user to have a good command of it.

K1100F

Complete compatible design

Compatible with congeneric products perfectly

Performance advantage

- Compatible with $\phi 42$ digestion tube
- Titration while distillation, enhance the efficiency rapidly.
- User friendly design, color touch screen, easy for operating
- Faster ARM system, faster operating rate
- Digester model SH220F and SH420F is matching K1100F, with $\phi 42$ digestion tube



Technical data:

Measuring range	0.1mg – 200mg N
Analysis time	5 – 10 min
Reproducibility	Average value relative error 0.5%
Recovery	$\geq 99.5\%$
Burette volume	1.0 μL / step
Sample capacity	Solid $\leq 5\text{g}/\text{sample}$; Liquid $\leq 20\text{mL}/\text{sample}$
Water consumption in distillation	1.5L/min
Data storage capacity	K1100: 1000 groups; K1100F: 1800 groups
Power supply	220 VAC $\pm 10\%$; 50Hz
Power	2Kw
Net weight	38Kg
Dimension	455mm*391mm*730mm