



AUTOMATIC KJELDAHL PROTEIN ANALYZER

Introduction

The automatic Kjeldahl nitrogen analyzer ZDDN-II is a measuring instrument designed based on the principle of Kjeldahl nitrogen determination method. Mainly used for the determination of nitrogen and protein content in samples, it adopts microcomputer automatic control, and the manual and automatic modes can be switched between each other. It has functions such as automatic distillation control, automatic water addition, automatic water level control, and automatic water stop. Suitable for analysis, teaching, and research in industries such as grain and oil testing, feed analysis, plant nutrient testing, soil and fertilizer testing, environmental protection, medicine, and chemical engineering. It is mainly used to detect the content of ammonia nitrogen, protein nitrogen, etc. in grains, food, dairy products, beverages, feed, soil, water, drugs, sediments, and chemicals. This instrument is one of the essential instruments for detecting the physical and chemical properties of soil.

Features

- Large screen dot matrix LCD display, full Chinese menu, touch buttons, easy and convenient operation.
- Automatic Kjeldahl nitrogen analyzer with automatic distillation control, automatic water addition, automatic water level control, and automatic water stop.
- Various safety protections: digestive tract safety door device, steam generator water shortage alarm, water level detection fault alarm.
- The maximum number of storable operating programs is 250.
- The shell is made of specially sprayed steel plate, and the working area is equipped with ABS anti-corrosion panel, which is resistant to chemical reagent corrosion and mechanical damage on the surface, and is acid and alkali resistant.
- Water level detection, low water level alarm, and automatic power-off in case of instrument control system failure.
- The standard configuration does not include a digestion furnace, which is optional.

digestive Oven

Automatic Kjeldahl Nitrogen Determination Instrument is available with 4, 8, 12 and 20 wells digital digesters. Digestion of a batch of samples takes about 60-90 minutes (depending on the nitrogen content). The harmful gases such as SO₂ escaping from the digestion tube are discharged from the water into the sewer through a collection tube and an extraction tee.



KDN-04C



KDN-08C



KDN-20C

Technical Parameter

operation mode	Automatic (excluding titration)	Measurement range	0.1mgN~200mgN (milligrams of nitrogen)
rate of recovery	≥ 99% (relative error, including digestion process)	Distillation speed	5-15 minutes per sample (depending on the sample size)
Cooling water consumption	3L/minute	Repetition rate	Relative standard deviation < ± 1%
Power Supply	AC220V/50Hz	water supply	The water temperature is less than 20 degrees Celsius
power	1000W	External dimensions	430mm×360mm×670mm
weight	25kg	Water inlet method	Tap water and distilled water
Sample size	Solid 0.20g~2.00g, semi fixed 2.00g~5.00g, liquid 10.00ml~25.00ml		
Automatic Kjeldahl nitrogen analyzer for variety determination	Grain, feed, food, dairy products, beverages, soil, water, medicine, sediment, and chemicals, etc		