

K1306 Fully Automated Kjeldahl Nitrogen Analyzer

Application Scope:

K1306 fully automated Kjeldahl nitrogen analyzer is widely used for the determination in the industries of food, pharmaceutical, soil, chemical industry, agriculture, forestry, material, environment monitoring and etc.



Main Features:

1. Adding alkali and/or acid, distilling and titrating, titration burette waste removing, discharging, calibrating, fault detecting, solution level monitoring, and calculating can all be realized fully automatically.
2. Titration color can be calibrated both automatically and manually. The titration endpoint is judged by the color signal collected by the high accurate 16-bit 3-primary-color digital signal color sensor.
3. 2.0 μ L high-precision titrating system and professional unibody precision-work plunger are the assurance of the determination accuracy and operation reliability.
4. The color LCD touch screen is equipped, with both English and Chinese operation interface available. The whole experiment procedure is real-time monitored and shown on the screen, and the condition can be auto-saved.
5. Date Storage: As many as 1,000 sets of testing data can be fully stored.
6. Not-in-position prompt of security door and digestion tube;
7. Mature and stable steam generator technology is applied, automatic preheating, water supplying, steam pressure controlling, dry burning prevention, and cleaning can all be realized automatically.
8. The steam pressure is automatically controlled within the safe range, thus danger caused by steam pressure is prevented.
9. Double distillation modes are designed, both manual and automatic models can be randomly switched.
10. Alkali pump adopts high-reliable PTEF bellows pump, which is anti-corrosion and anti-partial-plugging, stable during liquid adding, and free from the danger cause by negative pressure suction.
11. Water-saving Design: Real-time monitoring of the circulating cooling water flow rate, warning reminder whenever the water pressure is lower than it is supposed to be.
12. Distilling system is specially designed in accordance with Ammonia escaping rule, which is an insurance of the stable high reliable recovery rate.
13. The digestive tube is specially designed to be surrounded with intelligentized facilities, and the transparent acrylic cover is equipped for total protection.
14. Steam generator is equipped with pressure sensor, temperature sensor, temperature protection switch, water level double detection, and other protections like these.

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Application Standard:

- EN ISO 5983-2 (AOAC 2001:11) which applies to Protein/Nitrogen in Animal Feeds, Cereals, Forages, Oil seeds, Pet Foods and Fish Meal
- ISO 20483 determination of the nitrogen content of cereals, pulses and derived products
- ISO 8968-2 (IDF/FIL 20-2) determination of the nitrogen content of liquid milk, whole or skimmed, by the block-digestion principle
- ISO 8968-3 (IDF/FIL 20-3) determination of the nitrogen content of liquid, whole or skimmed milk, semi-micro method
- ISO 8968-4 (IDF/FIL 20-4) determination of the non-protein nitrogen content of liquid milk, whole or skimmed.
- ISO 937 (AOAC 981.10) Meat and meat products - Determination of nitrogen content (Reference method)
- ISO 1871 Nitrogen content of Agricultural food products
- ISO 3332 Ammonium sulphate for industrial use
- ISO 3188 Starches & derived products
- ISO 5663/DIN 38409H11 Water quality, Kjeldahl Nitrogen
- ISO 5664 Water quality, ammonium
- ISO 1656 (1996E) Rubbers Rubber, raw natural and rubber latex, natural - Determination nitrogen content

K1306 Technical Parameter:

Analysis time	5 ~ 7 min
Distillation Capacity	~ 40ml/min
Measuring Range	0.1 ~ 240mg N
Sample Size	≤6g (solid sample) ≤25ml (liquid sample)
Reproducibility	1% RSD
Recovery	≥99.5%
Water Consumption	1L/min (15°C) 2L/min (30°C)
Time Range	0 ~ 99 min dynamic continuous adjustable
Delay	0 ~ 999 min
Deescalating Time	0 ~ 999 min
Burette Volume	20 ml
Burette Speed	>0.5 ml/s
Burette Resolution	2.0μL/step
Dimension (WxDxH) mm	420x365x720 mm
Net Weight	30 Kg
Power Supply	AC 220V ±10% 50HZ
Power Consumption	1800 W