

K1305 Automated Kjeldahl Nitrogen Distillation Unit

Automatic Functions: automatically add water, add alkali and distill, automatically power-off and sound reminder.



Main Features:

1. The colored LCD touch screen is equipped for the control of alkali adding and distillation, and the condition can be stored once distillation is finished there will be sound reminder.
2. Regular nitrogen determining module is equipped, Upgrade interface for auto titration and inducted interface for reagent barrel are reserved.
3. Water-saving design, warning reminder of low water pressure and auto power-off reminder for water supply cut-off are available.
4. pre-heating, water supplying, steam pressure controlling, dry burning prevention, and cleaning can all be realized automatically.
5. Built-in nitrogen content calculator, the content of nitrogen or protein shall be displayed once the sample amount and standard titration solution consumption amount are input.

Meticulous fault self-diagnosis and control function:

- Not-in-position prompt of security door and digestion tube;
- It is guaranteed that the circulating water flow-limiting valve open only during the distillation, which is save water, free from worry, automatically control circulating water flow; Reserved interface for automatic circulated cooling water machine, apply to dry conditions or water-saving laboratory.
- Warning reminder of low water pressure and auto power-off reminder for water supply cut-off are available.
- 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.
- Steam generator is equipped with pressure sensor, temperature sensor, temperature protection switch, water level double detection, and other protections like these.
- The separated specialized bellows pump is resistance to the erosion and particle plugging. accurate measuring of the added acid and lye, interior is made of PTFE (Teflon). The added reagent is measured by volumetric, no need calibration. long lifetime up to 5-10 years (by end-users' verification);
- Distillation system is specially designed according to the rule of ammonia escape, ensure high reliable recovery rate. get unanimous approval from national testing institution, and invited to draft national standard;
- Double distillation modes are optional.
- Auto nitrate nitrogen determining module is available, for easy machine operation of the nitrate

YBO TECHNOLOGIES CO., LTD.

23th Floor, Building A, Future Tower, No. 800 Luzhou Avenue, Hefei, Anhui, China

E-mail: info@ybottech.com

Website: www.ybottech.com

nitrogen.

- Upgrade interface for auto titration and inducted interface for reagent barrel are reserved.
- The digestive tube is specially designed surrounded with intelligitized facilities, and the transparent acrylic cover is equipped for total protection.
- The panel is with the material of ABS engineering plastic, which is waterproof, electricity-proof and corrosion-proof.

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

K1305 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%	
Water Consumption	1L/min (15°C)	2L/min (30°C)
Time Range	0 ~ 99 min	
Delay	0 ~ 99 min	
Deescalating Time	0 ~ 99 min	
Dimension (WxDxH)	420x365x720 mm	
Net Weight	30 Kg	
Power Supply	AC 220V ±10% 50HZ	
Power Consumption	1800 W	