

DW-ATN-2000

Fully Automatic Kjeldahl Nitrogen Determinator



Features

- The control system features a 7-inch color touchscreen with Chinese-English language switching, offering user-friendly operation.
- The three-level permission management, electronic records, electronic tags and operation traceability query system comply with relevant certification requirements.
- The system automatically shuts down after 60 minutes without human intervention, ensuring energy efficiency, safety, and peace of mind.
- The instrument is equipped with a built-in protein coefficient lookup table for users to consult, query, and utilize in system calculations. When the coefficient equals 1, the analysis result is displayed as "nitrogen content", when the coefficient exceeds 1 the result automatically converts to "protein content" and is displayed, stored, and printed.
- The titration system employs R, G, and B coaxial light sources and sensors, offering a wide color adaptation range and high precision.
- The automatic intensity adjustment system for R, G, and B light is suitable for analyzing samples with varying concentrations.
The titration rate can be set arbitrarily from 0.05 mL/s to 1.0 mL/s, with a minimum titration volume of 0.2 μ L per step.
- The German ILS 25 mL injection syringe, combined with a linear motor featuring a 0.6 mm stroke, forms a high-precision titration system.
- The transparent burette design facilitates user observation of the titration process and simplifies burette cleaning.
- The distillation time can be freely set from 10 seconds to 9990 seconds.
- The data storage capacity supports up to 1 million records for user access.
- 5.7 cm automatic paper-cutting thermal printer;
- The steam system is constructed from 304 stainless steel, ensuring safety and reliability.

- The coolers are uniformly constructed from 304 stainless steel, ensuring rapid cooling and stable analytical data.
- The leakage current protection system ensures operator safety;
- The safety door and its alarm system ensure personal safety.
- The digestion tube absence protection system prevents injuries caused by reagents or steam;
- The steam system triggers an alarm upon water shortage and shuts down to prevent accidents;
- The steam boiler triggers an overtemperature alarm and shuts down to prevent accidents.

Technical Specification

Model	DW-ATN-2000
Analysis range	0.1-240mgN
Precision (RSD)	≤ 0.5%
Recycling Rate	Better than 95%
Minimum titration volume	0.2 μL per step
Rate of titration	0.05 – 1.0 ml/s, adjustable
Distillation time	10-9990S Free to configure
Sample Analysis Time	4 – 8 minutes per sample (cooling water temperature: 18° C)
Titrant solution concentration range	0.01-5mol/L
Titration volume	300ml
Touch screen	7 1280x1080 color LCD touchscreen
Data storage capacity	100 Ten thousand data sets
Printer	5.7 cm thermal automatic paper-cutting printer
Safe Alkali Addition Mode	0 – 99 seconds
Automatic shutdown time	60 minute
Working voltage	AC220V/50Hz
Heating power	2000W
Host size	Length: 500 mm * Width: 460 mm * Height: 710 mm