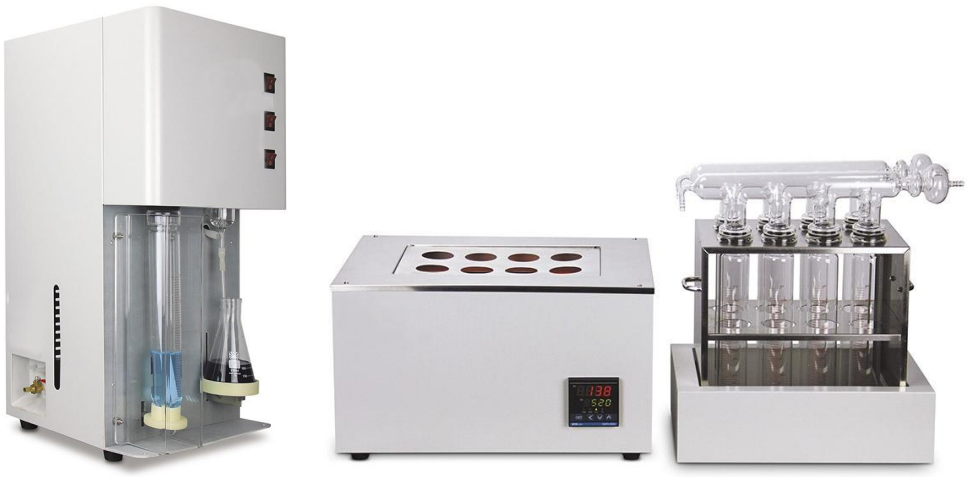
## Product Name: Semi-automatic Kjeldahl Nitrogen Analyzer

### Model: KDN-04C / 08C /20C



### Principle

Measure principle steps of the instrument are shown as follows (Kjeldahl nitrogen determination principle)

sampling → digestion → distillation → titration → calculation

The instrument is composed of digestion furnace (different types for selecting) and azotometer distillatory.

The digestion furnace (numeric display model) is controlled by temperature control meter. It adopts infrared radiation heating. Insert the sample into the heating furnace to get the best heating effect.

Through the drainpipe and the air-bleed three-way, poisonous gases (e.g. SO2) emitted from the digestion tube could be taken to the cloaca by water (the gases could also be recycled by vacuum pump and recycle bottle) which could control the emitting of poisonous gases and save the installation of ventilated case. Samples could be digested thoroughly in about 40-90 minutes (according to the amount of nitrogen).

### Main technical parameters

2.1 Measure variety: foodstuff, feedstuff, foods, dairy products, drink, soil, water, medicine, precipitate, chemical.

2.2 Working mode: semi-automatic

2.3 Measure quantity: digest 4~20 pieces of tubes at the same time, adopt single distillation.

2.4 Measure range: 0.1~200mgN (nitrogen content 0.1%-99%).

2.5 Recovery rate: ≥99% (relative error, include digestion process)

2.6 Repetition rate: relative standard deviation＜±1%
2.7 Working hours: digestion time: 40-90 minutes, distillation time: 5-15 minutes.
(According to different samples, time required is also different.)
2.8 Voltage: AC 220V/50HZ
2.9 Cooling water consumption: digestion: 5L/min
Distillation: 3L/min
(Water temperature is less than 20℃)
2.10 Power: digestion: 4 holes---1000W, 8 holes---1500W, 20 holes---2000W
Distillation: 1000W
2.11 digestion tube capacity: 300ml

## Related Products

Automatic Kjeldahl Distillation System/Fat Analyzer/Raw Fiber Analyzer/Grain Hardness Meter