

KT 200 Kjelttec™ distillation unit

Simple and reliable solution for safe and semi-automated Kjeldahl distillation



The KT 200 Kjelttec™ is a convenient and safe distillation unit for rapid steam distillation. Many other distillations can be performed efficiently with the KT 200. These include sulphur dioxide, cyanide, phenol, alkaline direct distillation and alcohol.

Convenient operations

KT 200 Kjelttec™ provides a simple and reliable solution for safe and semi automated distillations. The addition of alkali and the time interval for distillation can be pre-programmed for consistent results independent of operator.

Improving safety in the laboratory

A high accuracy bellow pump for accurate reagent dispensing provides long term stability in delivery of the alkali. Ensure safe operations with patented SAFE feature for safe distillation of samples that form salt cakes. Additional safety features including safety door, plus level pins and overpressure sensors for the steam generator.

Effective laboratory operations

Running costs are low through optimised applications. Downtime and service costs are minimised using selected components. A routine maintenance schedule supports GLP routines.

Sample type

Raw materials and finished products in food, feed and agriculture

Parameters

Nitrogen and protein

Technology

Kjeldahl and other nitrogen based chemical analysis

Approvals

Officially approved (AOAC, EPA, DIN, ISO) for simplified validation

Specifications

Performance data at 230 V	
Distillation time	4 minutes at 30 mg N (7 min at 200 mg N)
Distillation capacity	~ 30 ml/min
Measuring range	0.1 – 200 mg N
Reproducibility	1% RSD (including the digestion step)
Recovery	> 99.5% at nitrogen levels between 1 – 200 mg N
Reagent pump volumes	0 – 150 ml in steps of 10 ml
Delay	12 seconds
SAfE (Patented)	2 seconds

Installation requirements	
Power supply	200-240 V 50 – 60 Hz
Water consumption	2 l/min at water temp of 30°C (During distillation only) 1 l/min at water temp of 15°C
Power consumption	2200 W
Ambient temperature	Max 40°C
Ambient humidity	Max. 80% relative
Drain	For cooling water only
Weight netto	25 kg
Dimensions (w x d x h) cm	30 x 28 x 77

Accessories

- Titration unit complete, 50 ml
- Adapter for Büchi tubes
- Basket for 12 receiver flasks (250/300 ml)
- Receiver flasks, 250 ml (set of 10)
- Kjeltac DD kit for direct distillation (DD) procedure comprising 12 distilling tubes (750 ml), 12 receiver flasks (300 ml), stand for tubes, basket for flasks and application note
- Handling device for digestion tubes

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