



## Distillation units, Kjeldahl

### K-350 Main features

- High performance steam generator for efficient steam distillation
- Storage and recall of one method, alkali dosage and distillation time
- Integrated timer
- Protective door with sensor, tube sensor, drip tray
- Compact, modern and functional, stand alone unit using minimal space, keyboard and clear LCD display
- Cooling water control (on as soon as distillation starts/off at end of distillation)

### K-355 Additional features

- Regulation of steam output: 30 to 100%
- Storage and recall of nine methods: alkali dosage, distillation time and steam power
- Acid dosage via acid resistant pump
- Cooling water flow control (cooling water flow sensor)

### Applications K-350

Classical nitrogen and protein determination in accordance with official methods (AOAC, EPA, ISO and DIN)

- Kjeldahl nitrogen and protein determination
- Devarda nitrogen determination
- TKN (Total Kjeldahl Nitrogen) determination

### Additional Applications K-355

- Alcohol distillation
- Sulfur dioxide determination<sup>†</sup>
- Phenol determination
- Determination of volatile acids

<sup>†</sup> Allows testing according to European Parliament Directive 2003/89/EC relating to labelling of allergens in foodstuffs

The K-350 and K-355 distillation units are economical and versatile entry level members of the Büchi Kjeldahl range. Both units provide accurate and reproducible measuring results with a high recovery rate.

In addition to the classical applications, the K-355 allows all kinds of steam distillation options, including methods which require reduced steam output. A reliable and acid resistant pump allows applications where the dosing of strong acids is required. The K-355 also offers additional convenience by enabling the storage and recall of nine different customer specific methods.

Safety features for both instruments include sensors to detect 'door open' and presence of distillation tube. If either sensor is activated, the units will not start. If the sensor is triggered during a run the distillation and the dosing of reagents are halted immediately. Other safety sensors are also present.

#### Technical Specification - General

Detection	≥0.1mg nitrogen
Recovery rate	≥99.5%
Reproducibility, %	≤±1%
Tube volume, mL	500
Dimensions [w x d x h], mm	400 x 360 x 660
Power requirement [max.], W	2,200
Electrical supply	230V, 50/60Hz

#### Technical Specification - Specific

	NTA-350-010W	NTA-350-010P
Output	No	Variable steam control 20% to 100%
Memory	1 method	9 methods
Pump connections	1	2
Mass, kg	16.5	17

Catalogue No	Alt. No	Description
1 NTA-350-010W	043500	Distillation unit K-350, includes glass splash protector, steam generator, pair of glass tongs, digestion tube, connecting tubes, mains cable and three 10L tanks
2 NTA-355-010P	043505	Distillation unit K-355, includes glass splash protector, steam generator, pair of glass tongs, digestion tube, connecting tubes, mains cable and three 10L tanks

#### Accessories and spares

Catalogue No	Alt. No	Description
NTA-324-510W	026128	Distillation vessel, 500mL
NTA-324-512S	016951	Rack for 4 x 500mL distillation vessels
NTA-324-522P	043335	Splash protection vessel for Devarda method for K-350/355/370
NTA-324-562D	043115	Universal adapter set for K-350/355/370, compatible for sample tubes from Foss/Gerhard
NTA-324-590V	003512	Sher indicator, 100mL



Kjeldahl weighing boats, see page 858