

Distillation units, Kjeldahl, fully automatic, K-370 and K-370/K-371 Autokjeldahl

- Fully automatic, self contained distillation unit with integral titration and data management
- Compact design with multi-tasking software
- Easy to read control panel with colour display and keyboard
- Maintenance-free, high-throughput steam generator
- Electronic regulation of steam output
- Numerous safety features
- Option of automated sample changing in combination with the Büchi Kjeldahl Sampler K-371

The AutoKjeldahl Unit K-370 is a fully automatic system designed for the most demanding Kjeldahl user. The K-370 sets new standards for safety, guarantees accurate measurement results, and for the first time, offers an upgrade option to work with the K-371 autosampler. Two versions are available, a Standard stand-alone unit, and an Advanced version preconfigured to allow immediate connection to the K-371 Autosampler. Both units are compact and include an easy to read control panel with integral keyboard and colour display. The K-370's high-performance software is intuitive and user friendly and has the ability to define various methods and save up to 10,000 results. Their multitasking software allows waiting times during the analysis process to be used productively. Both units feature a maintenance-free, high-performance steam generator, with electronically regulated steam output. Numerous safety features include a protective door, sample tube detector, cooling water flow sensor, drip tray, system for automatic emptying of sample tube and receiving vessel, and automatic-self test, all of which guarantee a high level of analytical, operator, and environmental safety. The transparent shields enable observation of the distillation process and maintenance is easy thanks to the front swivel door that allows easy accessibility to all working parts. The K-370 allows the connection to various peripheral devices e.g. balance, digester, PC, printer, via the unit's integrated interfaces. Applications include: Kjeldahl nitrogen and protein, Devarda nitrogen, ammonia, direct distillation, and distillation of other steam-volatile compounds.

The K-371 features an innovative sample-changing mechanism that uses steam to transfer samples to the distillation unit thereby avoiding the hazardous process of changing sample tubes. The 20 place rack of the autosampler is compatible with the Büchi Digestion System K-437 and the Büchi Digestion Automat K-438. In addition, an express rack allowing analysis of up to 4 express samples is available. Carefully selected materials and numerous safety features ensure optimum protection for users and the environment.

Both the K-370 Advanced and the K-371 can be purchased together as a complete ready to use system, the Kjeldahl Sampler System K-370/K-371. This bench top system enables an easy switch between automatic and manual operation by a simple change of a software parameter. This powerful combination greatly improves sample throughput thus saving valuable time.

The K-370 Standard is supplied with colour display, keyboard suitable for lab use, steam generator, integral titrator, pH electrode, stirrer, pair of glass tongs, calibration solution, digestion tube, connecting tubes, mains cable. Four 10L tanks are provided for chemicals and waste.

The K-370 Advanced is supplied similar to the K-370 Standard but fully prepared for use with the K-371 Kjeldahl autosampler for fully-automatic sample changing. Two 10L tanks and two 20L tanks are included for chemicals and waste.

The K-371 sampler system is supplied with safety shield, rack (space for 20 sample tubes), express rack (space for 4 tubes), drip tray, steam and transfer tubes, sample tubes and mains cable.

Technical Specification - Specific

	NTA-370-010Y NTA-370-020F	NTA-370-030C
Detection	≥0.1mg nitrogen	-
Recovery rate	≥99.5%	-
Reproducibility, %	≤ ±1	-
Programs	Multilingual (no. of programmes only limited by available system memory)	10 programs each comprising up to 3 time and temperature segments
Interface	RS232C, Centronics	RS232C
Dimensions [w x d x h], mm	360 x 400 x 660 460 x 400 x 660 (with keyboard)	590 x 514 x 658 (working position) 590 x 514 x 923 (ready position)
Mass, kg	24	42 (without digestion tubes)
Electrical supply	230V (+10%/-15%), 50/60Hz, 2,200W	200V to 230V, 50/60Hz, 120W

	Catalogue No	Alt. No	Description
1	NTA-370-010Y	043100	K-370 Standard Autokjeldahl distillation unit, stand-alone
	NTA-370-020F	043110	K-370 Advanced Autokjeldahl distillation unit preconfigured for use with K-371 autosampler
2	NTA-370-030C	043120	K-370/K-371 Kjeldahl sampler system comprising distillation unit (NTA-370-020F) and autosampler (NTA-371-010C)
	NTA-371-010C	043700	K-371 Autosampler, for use with K-370 Advanced (NTA-370-020F) only

Accessories and spares

	Catalogue No	Alt. No	Description
	NTA-370-500X	043140	Upgrade kit to upgrade AutoKjeldahl unit K-370 (standard)
	NTA-370-505E	043369	Temperature sensor for AutoKjeldahl unit K-370
	NTA-370-510L	031456	Keyboard (US) external for Autokjeldahl unit K-370 PC
	NTA-370-515B	043367	Dosage device external (back titration)
	NTA-294-510E	037377	Sample tube, 300mL. Set of 4
	NTA-324-510W	026128	Distillation vessel, 500mL
	NTA-324-530Q	015543	Titration vessel for NTA-324-060E
	NTA-324-590V	003512	Sher indicator, 100mL

