LABTRON

Fully-automatic Kjeldahl Analyzer LKA-C10

www.labtron.com

info@labtron.com

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Fully-automatic Kjeldahl Analyzer LKA-C10 conducts titration and distillation simultaneously so as to neutralize the ammonia gas released which enhance the test efficiency and avoid the overflow of ammonia. It stand with a measuring range from 0.1 to 200 mgN which gives a maximum recovery of ≥ 99.5 %. The operating ambient temperature of the device starts from 10 °C to 35 °C. 8.0-inch LCD touch screen is used to set the distillation time, the amount of diluent, acid liquor and alkali. Diaphragm pump is used to add reagent so that the injure caused by high pressure pump can be neglected. Wireless network modules is installed for realizing remote data transmission to test data processing and report printing.

Feature

- Ammonia gas released is neutralized to avoid the overflow of ammonia gas and it enhance the test efficiency
- For improving precision and reducing cleaning work, traditional syringe plunger pump is replaced by a high-precision micro-metering pump
- Imported RGB color sensor technology eliminates the disturbance of ambient light and an accurate judgment
- Digestion duct, makes it more convenient for users to operate
- To neglect the injure caused be high pressure pump, diaphragm pump is used to add reagent
- 8.0-inch LCD touch screen to set the distillation time, the amount of diluent, acid liquor and alkali
- Wireless network modules for remote data transmission, data processing and report printing
- ARM processor with built-in Flash chip and equipped with a file system, enables user to create or delete folders or files and store 1000 routine data
- All-stage warning system is installed which alters users for any abnormal working condition at any time
- Real-time display of titration curve, informs the user about the working condition at any time
- Built-in mini printer; to print experimental data according to user need

Application

Fully-automatic Kjeldahl Analyzer is widely used in many applications such for determination of ammonia nitrogen, protein determination, nitrogen content, nitric nitrogen, phenols, volatile acids, cyanides, alcohol content and so on.

Specification

Model. No.	LKA-C10
Measurement Range	0.1 to 200 mgN
Function	Automatic test module of conventional Nitrogen
Recovery Rate	≥ 99.5 %
Sample	Solid ≤ 5 g liquid ≤ 25 ml
Distillation Time	3 to 8 min / sample
Distillation Mode	Conventional distillation mode
Distillation Power	375 W to 1500 W
Condensate Water Consumption	≥ 1.5 L / min
Titr1ation precision	1
Repeatability	RSD ≤ 0.5 %
Stored record	5000
Automatic Function	Automatic sample dilution, addition of acid and alkali, distillation, reaction cup emptying and cleaning; auto correction, calculation and printing. Several conventional methods are equipped.
Result Determination	Determined by the terminal color

Safety Protection Function	1.Level alarm system 2.Flow sensor monitors the whole process with the flow velocity be adjusted freely. 3.Temperature measurement of distillate 4.Acid and alkali resistant polymer composite materials used for the cabinet
Optical sensor	RGB programmable optical sensing technology
Display mode	8.0-inch LCD touch screen
Titration mode	High-precision micro-metering pump
Way of distillation	Distillation and titration are carried out simultaneously
Steam flow	Adjustable
Operating Ambient Temperature	10 °C to 35 °C
Language	English
Power	AC 220 V AC ± 10 % 50 Hz
Rated Power	1500 W
External Dimension	360×460×680 mm
Communication Mode	(Enhancement Mode) Network Interface RS232 interface / USB interface
Weight	About 20 kg