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UDK 129

Kjeldahl analysis

Distilling unit type UDK 129

Entry-level solution for your analyses concerning different applications such as determining ammoniacal nitrogen, protein nitrogen, (Kjeldahl or direct alkaline distillation), nitric nitrogen (after reduction), phenols, volatile fatty acids, cyanides, alcohol content and Devarda nitrogen determination.



The UDK 129 runs **automatically**, after setting **sodium hydroxide addition** and **distillation time** using the LCD display in order to get reliable and accurate results. The high-precision pumps ensure constant accurate dosing of reagents and the cooling water is automatically stopped during pauses, thus cutting down on its consumption.

The new UDK 129 incorporates the same high level of technology as the top of the range, with the **patented steam generator** that offers high performance, safety (no pressure inside) and is **maintenance-free**. Another unique component is the **titanium condenser offering reduced water consumption**, ensuring that distillate temperature always remains below the threshold value above which some nitrogen can be lost. The unit works with a **technopolymer splash head that ensures durability to protect your investment** and requires no maintenance. The **technopolymer housing ensures high resistance to chemicals**.

The UDK 129 has numerous safety features in order to provide **maximum protection for the user**. With a novel design, a lever is used to displace the tube support enabling sample tubes to be inserted without any effort and clamped in place securely. A range of test tube sizes is accepted.

Technologically advanced, the UDK 129 includes many features that ensure efficient and reliable distillation, far beyond expectations of an ordinary entry level unit.

BENEFITS:

Time Saving - Fast and frequent analyses; no heating delay between runs

Energy Saving - Cooling water consumption starting from only 0.5 l/min; excellent insulation

Money Saving - Cost reduction is substantial, in line with reduced power consumption

Space Saving - The extremely compact footprint saves useful laboratory bench space

UDK reduces manual operations, ensuring reliability, repeatability and durability.

GENERAL FEATURES	
Structure:	Corrosion-resistant technopolymer
Display:	LCD
Time related to start for Devarda alloy analysis:	0 – 99 min
Protocol library:	1 customizable method
Reproducibility (RSD):	≤ 1 %
Recovery:	≥ 99.5 % at nitrogen levels between 1 and 200 mg N
Detection Limit:	≥ 0.1 mg N
Power:	2100 W (1700 W at 115V)
Power supply:	230 / 115 V - 50 / 60 Hz
Weight:	25 kg / 55 lb
Dimensions (WxHxD):	385x780x416 mm (15.2x30.7x16.4 in)
PERFORMANCE	
Distillation time:	5 minutes to collect 100 ml of distillate
Sodium hydroxide addition:	automatic
Sodium hydroxide volume:	0 - 100 ml
Tap water consumption:	from 0,5 l/min at 15°C – from 1 l/min at 30°C