

# UDK 129

## Distillation Unit

### The VELP Entry-Level Solution for Kjeldahl Analysis

- Integrated displayed timer for excellent usability
- Patented Steam Generator and Patent Pending Titanium Condenser
- Low Consumption of Cooling Water (0.5 l/min)



The UDK 129 Distillation Unit is designed to perform nitrogen and protein content analysis according to the Kjeldahl Method (TKN) in the Food & Feed industries and several other applications in Environmental control (phenols, nitrogen in water, sludge, soil and lubricant) and also in the Chemical and Pharmaceutical industries.

The UDK 129 is exceptional in providing savings, by using **TEMS™** technology:

**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 of internal parts.

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

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

The UDK 129 has been designed with a **corrosion-resistant technopolymer housing** able to resist chemical reagents. The **patented steam generator** and the **patent pending titanium condenser**, interacting with the **technopolymer splash head**, ensure great improvements in **productivity** and in **durability**. Through the software, the operator can set the **automatic addition of sodium hydroxide** and the distillation and reaction times, making it more **versatile** and **easy to use**.

**Reliable and robust** solution... for a long life!

The **patented VELP steam generator** operates without pressure for **safe distillation**, no heat-up delays and requires no maintenance. The **efficient titanium condenser** offers reduced water consumption, ensuring that the distillate temperature always remains below the threshold value and provides high resistance to breakage. The unique **technopolymer splash head**, that contains no glass in its robust design, ensures long life.

Numerous features make the UDK 129 **convenient and safe** – protective door, easy loading of the tube with the lever (tube positioning sensor), lever to avoid touching the base of the tube during placement, drip tray to collect any leakage of liquid, service door for front access to the inside (cuts the mains) and the cooling water flow sensors monitor continuously.

The Unit comes **ready to use**, supplied with test tube, pincer for test tube, collecting flask and inlet and discharge tubes.

#### Industry – Application Fields:

- **Food, Feed and Beverage** industries - TKN, proteins, alcohol
- **Environmental and Agriculture** industries - TKN, Devarda, phenols, ammonia
- **Pharmaceutical and Chemical** industries - organic nitrogen, ammonia

Technical Data	Description
Structure:	Corrosion-resistant technopolymer
Display:	LCD
Programmable delayed start for Devarda alloy analysis:	0 – 99 min.
Protocol library:	1 customizable method
Addition of sodium hydroxide:	Automatic
Tap water consumption:	From 0.5 l/min at 15 °C – from 1 l/min at 30° C
Reproducibility (RSD):	≤ 1 %
Recovery:	≥ 99.5 % at nitrogen levels between 1 and 200 mg N
Detection limit:	≥ 0.1 mg N
Conformity with standards:	AOAC, EPA, DIN, ISO, GLP
Power:	2100 W (1700 at 115 V)
Power supply:	230 / 115 V - 50 / 60 Hz
Weight:	25 kg / 55 lb
Dimensions (WxHxD):	385x780x416 mm (15.2x30.7x16.4 in)
Ordering Information	Description
Code No	
F30200120	UDK 129 Distillation Unit (230 V)
F30210120	UDK 129 Distillation Unit (115 V)

Contact us for information on standard and optional accessories

See our other distillation units:  
 UDK 139 Semi-Automatic Distillation Unit  
 UDK 149 Automatic Distillation Unit  
 UDK 159 Automatic Distillation & Titration System

Your authorized agent:

We reserve the right to make technical alternations  
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