

Distillation units, Kjeldahl, UDK



For Kjeldahl distillation.

- Patented steam generator - for constant temperature control
- Unique titanium condenser (patent pending) - for high performance and repeatability
- Detection limit 0.1mg N
- Maintenance-free: long life and chemical resistant
- TEMS™ technology, saves time, energy, money and space

The titanium condenser keeps the distillate always below 35 °C guaranteeing high performance, repeatability, low water consumption and minimal maintenance. The technopolymer splash head reduces breakage, increases efficiency and duration (life and resistance to chemicals).

Distillation unit - UDK 129

Automatic addition of soda, selectable distillation time, Devarda delay.

Distillation time: 100mL of distillate in 5min.

Semi-automatic distillation unit - UDK 139

Automatic addition of soda and water, programmable distillation time, steam generator regulation, 3.5inch touch screen, 2 x USB connection for printer, pen drive and PC, Devarda delay.

Distillation time: 100mL of distillate in 4min.

Automatic distillation unit, with titrator connection - UDK 149

Automatic addition of soda, water and boric acid, programmable distillation time, steam generator regulation, 3.5" touch screen, LAN (Ethernet), 2 x USB, RS232 and TTL connection for printer, pen drive, PC and different titrators, Devarda delay.

Distillation time: 100mL of distillate in 3min.

Automatic distillation and titration system - UDK 159

Automatic addition of soda, water and boric acid, programmable distillation time, steam generator regulation, 6" touch screen, LAN (Ethernet), 2 x USB and RS232 connection for printer, pen drive, balance and PC, Devarda delay, automatic cleaning of the titration vessel. Integrated titrator.

Analysis time: from 4min (titration included) .

The UDK 159 has powerful data management features: all analysis data can be archived, filtered and exported with a USB.

Performance

Patented steam generator, patent pending titanium condenser, technopolymer splash head, large touch screen, 54 method library (30 pre-defined +24 customisable), archive for data storage, automation of each step.

Safety

Handle and protective door to avoid dirt contamination, incorrect tube positioning, service door with sensor, cooling water flow detector, fluid level alarms and titration volume regulation, safety thermostat in the steam generator.



Technical Specification - Specific

	11795664	11301570	11705674	11386680
Display	LCD	3.5inch touch screen	3.5inch touch screen	6inch touch screen
Methods	1	10	20	54
Regulation, %	-	10 to 100	10 to 100	10 to 100
Time	5min to collect 100mL of distillate	4min to collect 100mL of distillate	3min to collect 100mL of distillate	From 4min including titration
Interface	-	2 x USB	Ethernet, 2 x USB, RS232, TTL	Ethernet, 2 x USB and RS232 for PC, LIMS, balance, pen drive and printer
Mass, kg	25	26	27	31

Technical Specification - General

Dimensions [w x d x h], mm	385 x 416 x 780
Reproducibility, %	±1
Recovery rate	≥99.5% at nitrogen levels between 1mg and 200mg N
Detection	≥0.1mg N
Electrical supply	230V, 50/60Hz

Catalogue No	Legacy No	Alt. No	Description
11795664	-	UDK129	Distillation unit
11301570	-	UDK139	Distillation unit
11705674	-	UDK149	Distillation unit
11386680	-	UDK159	Distillation and titration system

Catalogue No	Legacy No	Alt. No	Description	Diameter, mm	Length, mm	Capacity, mL	Pack qty
11715654	-	A00000144	Test tubes	42	300	300	3
12868343	-	A00000146	Test tubes	26	300	100	6
11900114	-	A00001088	Test tube	48	260	300	1
10777925	-	A00001083	Test tube for alcohol determination	80	300	-	1
12878343	-	A00000043	Test tube connection	26/48	-	500	1