

## Kjeldahl Distillation System, LAT



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### ① Kjeldahl distillation system VELP UDK 159

Fully automated steam distilling device with integrated titration system.

- Housing made of corrosion-resistant polymer
- 6 inch color touch screen
- Storage capacity: up to 100,000 measurements
- Standard burette volume: 25 ml (50 ml optional)
- Minimum burette volume 2 µl/step
- Programmable timer 0 – 99 min.
- Various customizable languages available (GE, UK, ESP, IT, RUS)
- Reproducibility  $\pm 1\%$
- Recovery  $\pm 99.5\%$  between 1 and 200 mg N
- Detection limit  $\pm 0.1$  mg
- Interfaces: USB 2, Ethernet, and RS232
- Conformity with all the usual standards (AOAC, EPA, DIN, ISO, GLP)
- Power: 2300 Watt
- Power supply: 230V 50/60 Hz
- Weight 31 Kg
- Dimensions: 385 × 780 × 416 mm

#### Features:

- Duration of analysis (including titration): 4 min.
- Automatic addition of sodium hydroxide, volume 0 – 150 ml
- Automatic addition of diluted water, volume 0 – 200 ml
- Automatic addition of boric acid, volume 0 – 159ml
- Automatic cleaning of titration vessel
- Steam flow regulation 10% – 100%
- Water consumption 0.5 l/min. at 15 °C to 1 l/min. at 30 °C

Contact us for other available systems.

| Article                                   | Order No.   |
|-------------------------------------------|-------------|
| Kjeldahl distillation system VELP UDK 159 | 10 83 20159 |



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### ② Fully automatic digestion system VELP DKL

With lift for 8, 12 or 20 samples of 250 ml (diameter 42 mm).

#### Features:

- Automatic lift
- Stainless steel structure with corrosion-resistant coating
- Stainless steel sample rack with suction cap
- Library of 54 programs with up to 4 ramps each
- Temperature range up to 450°C  $\pm 0.5^\circ\text{C}$
- Time range: 1 to 999 minutes
- Microprocessor with LCD graphic display
- Various customizable languages available (GE, UK, ESP, IT, RUS)
- Power 1150 – 2300 Watt (DKL 8-20)
- Dimensions:  
DKL8 210 × 690 × 540 mm, DKL12 266 × 690 × 540 mm, DKL20 322 × 690 × 584 mm
- Weight: DKL8 20 kg, DKL12 24 kg, DKL20 31 kg
- Very low power consumption (up to 35% less than traditional systems)
- USB interface

Contact us for other available systems and accessories.

| Article                         | Order No.   |
|---------------------------------|-------------|
| DKL8 digestion system supplied  | 10 83 22008 |
| DKL12 digestion system supplied | 10 83 22012 |
| DKL20 digestion system supplied | 10 83 22020 |

### Kjedahl UDK-169

Fully automated steam distillation with autosampler for 24 × 25 ml or 21 × 400 ml. For high sample throughput in unsupervised operation.

Technical data identical with those of UDK 159, but with additional functions:

- Library with 55 programs (31 pre-defined, 24 user-specific)
- Program for automated removal of residues from test tubes and titration vessel
- Fully automated operation

| Article         | Order No.   |
|-----------------|-------------|
| Kjedahl UDK-169 | 10 83 22016 |

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