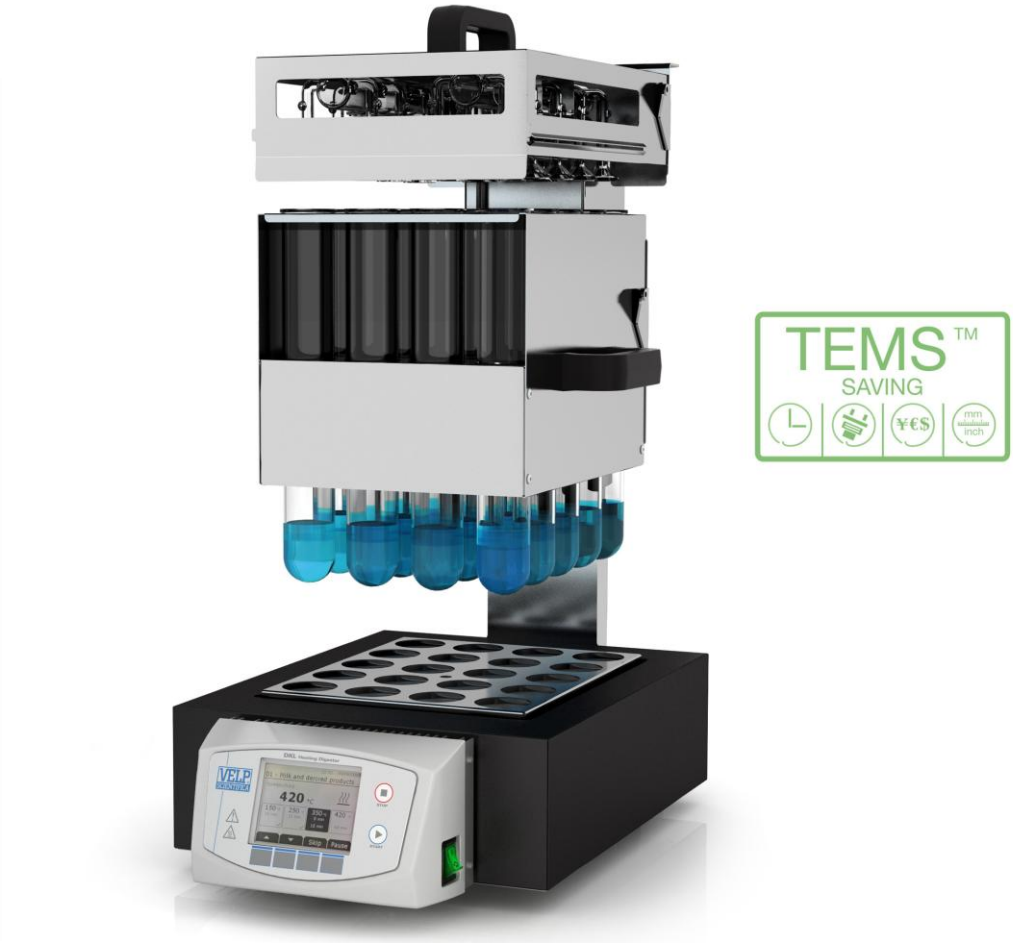
VELP SCIENTIFICA
Lab Solutions

DKL Fully Automatic Digesters

Food&Feed Line

New VELP Digesters

- 35% Energy Saving
- Lift to automate every phase
- High-performance, high reliability for the preparation of your samples



VELP digestion/mineralization systems are developed for different applications, from the determination of nitrogen and protein according to the Kjeldahl method (TKN) in food analysis to environmental analyses (Chemical Oxygen Demand) and chemical-pharmaceutical applications.

The DKL Series is revolutionary in terms of savings, thanks to **TEMS™** technology:

Time Saving - Only 22 minutes to reach 420 °C / 788 °F: the DKL gets to work immediately.

Energy Saving - 35% reduction in power consumption, cutting CO_2 emission.

Money Saving - Huge cost reduction for each analysis.

Space Saving - The narrow footprint saves valuable laboratory bench space.

The aluminum block requires **no maintenance** and ensures a complete and homogeneous digestion, with **high reliability**. The automatic placing of samples into the heating block and the subsequent lifting for cooling allow **all operations to be conducted safely without manual activity**.

The DKL Series has an innovative and graphic display that guides the user in a **simple and fast** way, planning and monitoring the various digestion phases.

VELP knows that you are more comfortable operating in a language that relates to you and enables you to upgrade, adding **multiple languages** to those pre-installed.

The DKL Series includes a **wide range of models** for a simultaneous digestion of 8, 12, 20 or 42 samples: **DKL 8** (8 x 250 ml), **DKL 12** (12 x 250 or 400 ml), **DKL 20** (20 x 250 ml), **DKL 42/26** (42 x 100 ml).

DKL digestion systems are supplied with a complete set of accessories, including:

- Lift
- Suction Cap
- Test Tubes
- Sample Rack
- Drip Tray

In order to neutralize the fumes produced during the digestion, VELP suggests combining the DKL system with the JP Recirculating Water Pump and the SMS Scrubber.

Industry – Application Fields:

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

Technical Data	Description
Construction Material:	Epoxy painted stainless steel structure
Control System:	Microprocessor with LCD graphic display
Set Temperature:	Digital readout in °C, °F or K
Temperature Range:	Ambient to 450 °C / 842 °F
Protocol Library:	54 Program library, including 24 user-programmable memories
Temperature Ramping:	4 ramps per program
Temperature Calibration:	Automatic
Stability of the Heating Block Temperature:	± 0.5 °C
Precision of the Heating Block Temperature:	± 0.5 °C
Digestion Time Range:	1 to 999 minutes
Countdown:	Digital readout
Run Completed Alert:	Visual and audible signal
Languages:	UK, I, E, F, RUS, CN + Additional Customizable (downloadable)
Damaged Temperature Probe:	Automatic detection and alarm message
Lift control:	Automatic
Interface:	USB
Conformity with Standards:	AOAC, EPA, DIN, ISO
Overall Dimensions (WxHxD):	210x690x540 mm / 8.3x27.2x21.3 in - DKL 8 266x690x540 mm / 10.5x27.2x21.3 in - DKL 12 322x690x584 mm / 12.7x27.2x23.0 in - DKL 20 - DKL 42/26
Maximum Power Consumption:	1150 W - DKL 8 1500 W - DKL 12 2300 W - DKL 20 - DKL 42/26
Electrical Requirements:	230 V / 50 - 60 Hz (for all the models) and 115 V / 50-60 (only for DKL 8, DKL12)
Overall Weight:	19.7 kg (43.5 lb) - DKL 8 23.3 kg (51.4 lb) - DKL 12 30.8 kg (68.0 lb) - DKL 20 33.5 kg (74.0 lb) - DKL 42/26

Ordering information Code No	Description
S30100200	DKL 8 Digestion System
S30110200	DKL 8 Digestion System (115 V)
S30100190	DKL 12 Digestion System
S30110190	DKL 12 Digestion System (115 V)
S30100210	DKL 20 Digestion System
S30100180	DKL 42/26 Digestion System

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