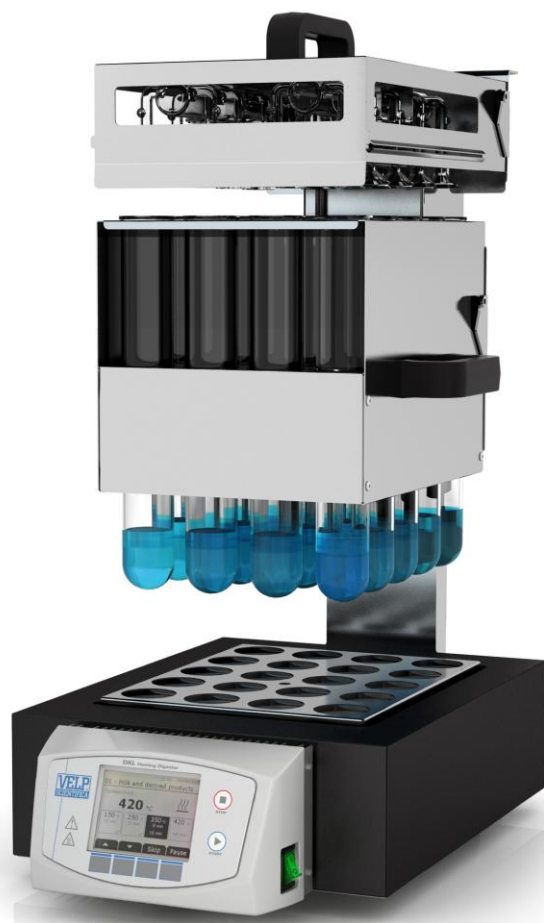


# DKL Fully Automatic Digesters

## 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<sub>2</sub> 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<br>266x690x540 mm / 10.5x27.2x21.3 in - DKL 12<br>322x690x584 mm / 12.7x27.2x23.0 in - DKL 20 - DKL 42/26 |
| Maximum Power Consumption:                  | 1150 W - DKL 8<br>1500 W - DKL 12<br>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<br>23.3 kg (51.4 lb) - DKL 12<br>30.8 kg (68.0 lb) - DKL 20<br>33.5 kg (74.0 lb) - DKL 42/26                              |
| Ordering information                        | Description                                                                                                                                         |
| Code No                                     |                                                                                                                                                     |
| 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                                                                                                                          |

Your authorized agent:

We reserve the right to make technical alternations  
We do not assume liability for errors in printing, typing or transmission



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