



LABSOLUTIONS

# DKL Digesters Series

Fully Automatic  
Digestion Units



The digester is a widely used instrument in laboratories performing analysis for diversified applications in food&feed, beverage (nitrogen, protein, Total Kjeldahl Nitrogen), environmental (COD, Total Kjeldahl Nitrogen), chemical and pharmaceutical (organic nitrogen) industries. DKL digesters work in accordance with a variety of Standards (such as AOAC, ISO, EPA, DIN etc.).

### DKL Fully Auto Digesters

Once again, VELP leads the way with an Unmatched Offer. A complete package providing Innovation, Savings and Quality. A product designed with your needs in mind. The new series of DKL digesters is the key to achieving your objectives ...

Can be connected to



DKL Automatic Digesters Series



**35% Reduction in Energy Consumption** reducing CO2 emissions and cutting costs. Saves 0.95 kWh per analysis.



**Auto Suction Cap** prevents the emission of fumes into the lab.



**User-Friendly:** with a Graphic Display allowing the user to monitor every stage of analysis; wide selection of languages.



**Auto Lift** to reduce manual handling and increase user-safety.



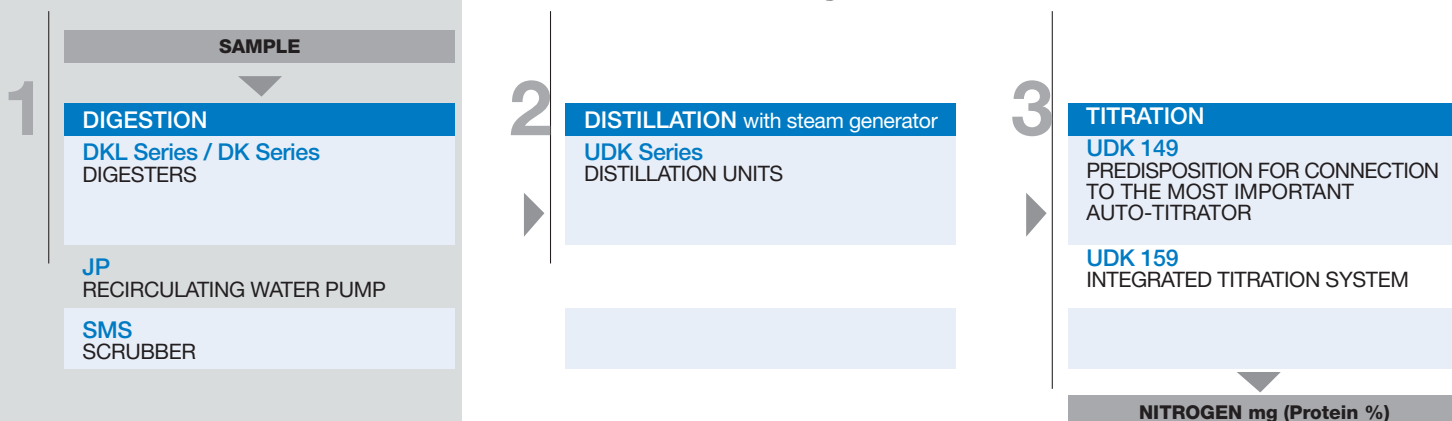
**Compact Profile:** thanks to a narrower footprint, saving valuable bench space.

**DKL, for extremely reliable analyses**

#### Features and Benefits

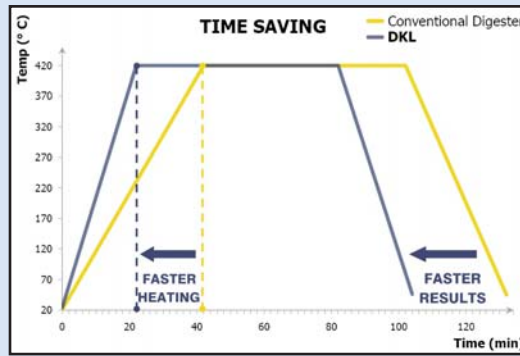
- Fully Automated for Unsupervised Digestion
- Eco-friendly
- Rapid Heating
- Safe
- Extremely Compact
- Versatile

## VELP Solution for KJELDAHL Analysis

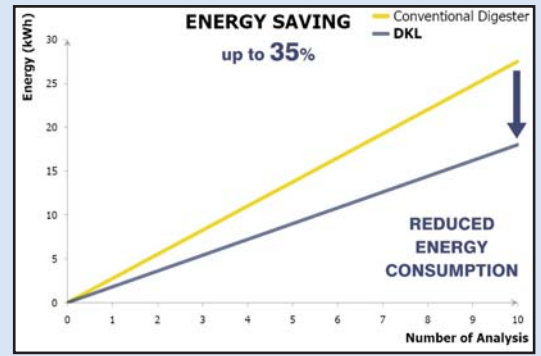




TEMS technology saves  
Time, Energy, Money and Space



Time Saving with faster heating



Energy Saving as much as 35%

DKL 8



8x250 ml

DKL 12



12x250/400 ml

DKL 20



20x250 ml

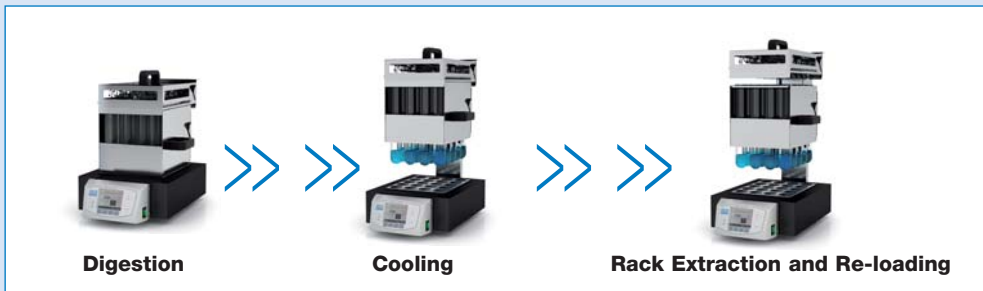
DKL 42/26



42x100 ml

Microkjeldahl tubes (100 ml) are suitable for samples with a high nitrogen/protein content, 250 ml for standard Kjeldahl digestion and Jumbo tubes (400 ml) for samples with a low nitrogen/protein content. Microkjeldahl tubes need a dedicated system (heating block, rack and suction cap). Jumbo tubes need only a dedicated rack.

### Fully Automated and Unsupervised Digestion in 3 Steps



High performance and high reliability during sample preparation for Kjeldahl Analysis



“SMS” Unit is designed for the neutralization of toxic and corrosive fumes coming from oxidative mineralization or other processes.

- Highly efficient
- Usable for both Basic and Acid Neutralization
- Safe and Practical to Use



“JP” Unit is the innovative recirculating water pump for aspirating fumes. Two operating mode selections.

- Automization and Optimization of the Suction Power
- Reduced Water Consumption
- Abatement of Emissions

### Fields of Application

The DKL Series is suitable for a variety of applications including the determination of nitrogen, protein, COD, TKN etc. in accordance with official methods.



Food, feed and beverage industry



Environmental industry



Pharmaceutical and chemical industry

Fields of Application

INSTRUMENT	POWER SUPPLY	CODE No
DKL 8	230 V / 50-60 Hz	S30100200
DKL 8	115 V / 50-60 Hz	S30110200
DKL 12	230 V / 50-60 Hz	S30100190
DKL 12	115 V / 50-60 Hz	S30110190
DKL 20	230 V / 50-60 Hz	S30100210
DKL 42/26	230 V / 50-60 Hz	S30100180

OPTIONAL ACCESSORIES	CODE No
Sample rack for DKL 8	A00000173
Sample rack for DKL 12	A00000172
Sample rack for DKL 20	A00000168
Sample rack for DKL 42/26	A00000180
Stand for sample rack for DKL 8	A00000184
Stand for sample rack for DKL 12	A00000183
Stand for sample rack for DKL 20-DKL 42/26	A00000182
DKL 12 Sample rack for 400 ml test tubes	A00000181
Test tubes Ø 26x300 mm, 100ml 6pcs/box for DKL 42/26	A00000146
Test tubes Ø 42x300 mm, 250ml 3pcs/box for DKL 8-DKL 12-DKL 20	A00000144
Test tube Ø 50x300 mm, 400 ml	A00000185
USB cable A/B 1,8mt for DKL 8-DKL 12-DKL 20-DKL 42/26	10003134
IQ/OQ Manual for DKL 8-DKL 12-DKL 20-DKL 42/26	A00000186

**Supplied with**



**Lift**

Code for DKL 8 A00000170  
 Code for DKL 12 A00000176  
 Code for DKL 20 A00000167  
 Code for DKL 42/26 A00000167



**Sample rack**

Code for DKL 8 A00000173  
 Code for DKL 12 A00000172  
 Code for DKL 20 A00000168  
 Code for DKL 42/26 A00000180



**Suction cap and drip tray**

Code for DKL 8 A00000175  
 Code for DKL 12 A00000174  
 Code for DKL 20 A00000169  
 Code for DKL 42/26 A00000179



**Test tubes**

Code for DKL 8 A00000144  
 Code for DKL 12 A00000144  
 Code for DKL 20 A00000144  
 Code for DKL 42/26 A00000146



DKL DIGESTION UNITS SERIES

Construction Material:	Stainless steel with chemical resistant coating
Lift and Suction Cap Control:	Automatic
Control System:	Microprocessor with LCD Graphic Display
Temperature Range:	Ambient to 450 °C / 842 °F
Temperature Stability:	± 0.5 °C
Temperature Precision:	± 0.5 °C
Set Temperature:	Digital Readout in °C, °F or K
Temperature Calibration:	Automatic
Program Library:	54 Program library, including 24 user-programmable memories
Temperature Ramping:	4 ramps per program
Time Selection:	1 to 999 Minutes - 1 Minute Steps
Countdown:	Digital Readout
Languages:	UK, I, E, F, RUS, CN + Additional downloadable
Interface:	USB
Run Completed Alert:	Visual and Acoustic Signal
Damaged Temperature Probe:	Automatic Detection and Alarm Message
Capacity:	DKL 8: 8 x 250 ml, DKL 12: 12 x 250 / 400 ml, DKL 20: 20 x 250 ml, DKL 42/26: 42 x 100 ml
Power:	DKL 8: 1150 W, DKL 12: 1500 W, DKL 20 and DKL 42/26: 2300 W
Overall Dimension in mm (in) (WxHxD):	DKL 8: 210x690x540 (8.3x27.2x21.3), DKL 12: 266x690x540 (10.5x27.2x21.3), DKL 20 and DKL 42/26: 322x690x584 (12.7x27.2x23.0)
Overall Weight in kg (lb):	DKL 8: 19.7 (43.5), DKL 12: 23.3 (51.4), DKL 20: 30.8 (68.0), DKL 42/26: 33.5 (74.0)

Constant Commitment to Knowledge Development

Your authorized agent:

We reserve the right to make technical alterations  
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