



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

1

SAMPLE

DIGESTION

DKL Series / DK Series DIGESTERS

JP RECIRCULATING WATER PUMP

SMS SCRUBBER

2

DISTILLATION with steam generator

UDK Series DISTILLATION UNITS

3

TITRATION

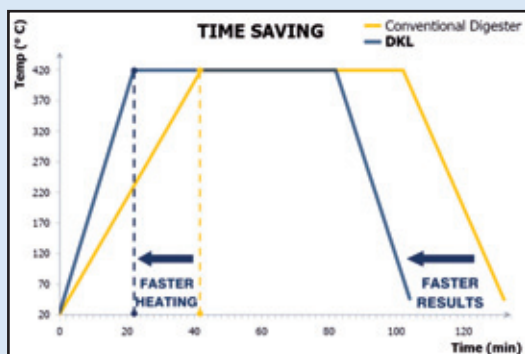
UDK 149
PREDISPOSITION FOR CONNECTION TO THE MOST IMPORTANT AUTO-TITRATOR

UDK 159 / UDK 169
INTEGRATED TITRATION SYSTEM

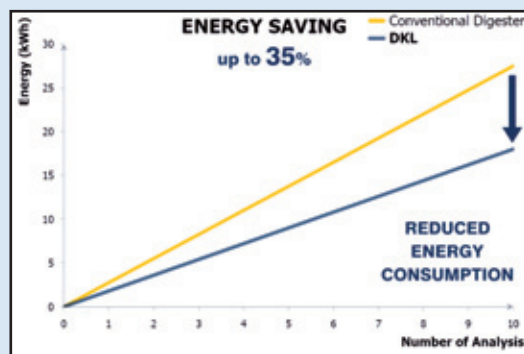
NITROGEN mg (Protein %)



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



20x250/400 ml

DKL 42/26

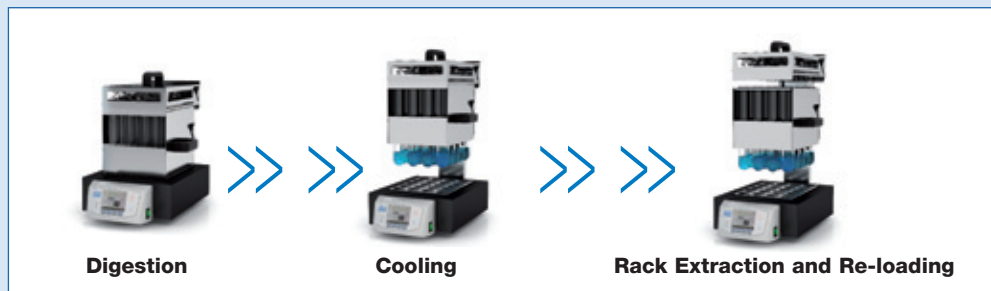


42x100 ml

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

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

OPTIONAL ACCESSORIES	CODE No
DKL 8 Sample rack	A00000173
DKL 12 Sample rack, 250 ml tubes	A00000172
DKL 20 Sample rack	A00000168
DKL 42/26 Sample rack	A00000180
DKL 8 Suction cap and drip tray	A00000175
DKL 12 Suction cap and drip tray	A00000174
DKL 20 Suction cap and drip tray	A00000169
DKL 42/26 Suction cap and drip tray	A00000179
DKL 8 Stand for sample rack	A00000184
DKL 12 Stand for sample rack	A00000183
DKL 20, DKL 42/26 Stand for sample rack	A00000182
DKL 8, DKL 12, DKL 20 Test tubes Ø 42x300 mm, 250 ml (3pcs/box)	A00000144
DKL 42/26 Test tubes Ø 26x300 mm, 100 ml (6pcs/box)	A00000146
DKL 12, DKL 20 Test tube Ø 50x300 mm, 400 ml	A00000185
DKL 12 Sample rack for test tubes 400 ml	A00000181
DKL 20 Sample rack for test tubes 400 ml	A00000246
DKL 8, 12, 20 Glass cap	A00000243
DKL 20 Sample rack for COD analysis	A00000237
DKL 20 Test tubes Ø42x200mm, 200 ml with cone NS 29/32 (3pcs/box) for COD analysis	A00000145
DKL 20 Air refrigerator with ground cone for COD analysis	A000001041
DKL 20 Antisplash bell for COD analysis	A000001045
DKL 20 PTFE sheaths for 29/32 cones for COD analysis	A000001042
USB cable A/B 1,8 m	10003134
DKL IQ/OQ Manual	A00000186



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 / 400 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



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