

DK Series

Semi-Automatic Digestion Units

Versatile, safe and precise aluminium block digesters for Kjeldahl analysis.



Driven by curiosity



Semi-Automatic Digesters

The DK Series consists of basic digestion blocks providing accuracy, high thermal homogeneity and minimum energy consumption. The DK Series digesters consist of six models to suit any laboratory need for Kjeldahl digestion, Chemical Oxygen Demand (COD) and Heavy Metals Trace Determinations.

Excellent Accuracy and Repeatability

- Aluminum heating block ensures high thermal homogeneity, heating up to 450 °C
- 1 °C temperature selection with ± 0.2 °C precision
- Temperature stability of ± 0.5 °C for consistent performance

Versatile and Ready to Use

- Supplied with tubes and all essential parts for operation
- Wide range of accessories and genuine consumables available
- Meets diverse analytical requirements with ease

Compact and User-Friendly

- Space-saving design fits easily under the fume hood
- Bright digital display for clear visibility and easy monitoring
- Stores up to 20 methods with 4 programmable temperature ramps

Energy-Saving Operation

- Fast temperature set point achievement reduces energy usage
- Up to 13% lower consumption compared to previous models



Configurations



DK 6 - 6/48
6-position model for $\varnothing 42$
and $\varnothing 48$ mm test tubes



DK 8
8-position model for
 $\varnothing 42$ mm test tubes



DK 18/26
18-position model for
 $\varnothing 26$ mm test tubes



DK 20
20-position model for
 $\varnothing 42$ mm test tubes



DK 42/26
42-position model for
 $\varnothing 26$ mm test tubes

Kjeldahl Analysis Process

Sample Preparation

1

Use genuine consumables designed to provide a solution for digestion, including catalyst tablets and nitrogen-free weighing boats.

Digestion

2

Place the sample into the Velp Digesters. Choose automatic or semi-automatic models. Hazardous fumes generated during the digestion should be neutralized with the KS 1000 Scrubber.

Distillation

3

Use the UDK series Velp Distillation Units for the determination of the analytes in your sample.

Titration

4

You can now perform the final step. Choose automatic titration with UDK 159-169 or external titration with UDK 149.

→ Nitrogen mg (Protein %)



Instrument - Code

	Power	System	Instrument
DK 6	230 V / 50-60 Hz	S30100400 S30110400	F30100400 F30110400
DK 6/48	115 V / 50-60 Hz	S30100410 S30110410	F30100410 F30110410
DK 8	230 V / 50-60 Hz	S30100420 S30110420	F30100420 F30110420
DK 18/26	115 V / 50-60 Hz	S30100430 S30110430	F30100430 F30110430
DK 20	230 V / 50-60 Hz	S30100440	F30100440
DK 42/26	230 V / 50-60 Hz	S30100450	F30100450

Optional Accessories

Glass cap	A00000243
Air condenser with ground cone	A00001041
PTFE sheaths for 29/32 cones	A00001042
Antisplash bell	A00001045
Stand for DK6-DK6/48	A00000397
Stand for DK-DKL8 DK18/26	A00000184
Stand for DKL-DK20, DKL-DK42/26	A00000182
Adapter for probe Ø3 mm for DK-DKL-ECO	A00000362
TMD6 Mineralization System	A00000409
Sample rack for COD DK6	A00000408
Sample rack for COD DKL20-DK20	A00000237
Test tube COD Ø42x200 mm 200 ml, 3 pcs/box	A00000145
IQ/OQ DK Manual	A00008338
KjTabs VCM - 1000 pcs/box	A00000274
KjTabs VKPC - 1000 pcs/box	A00000275
KjTabs VCT - 1000 pcs/box	A00000276
KjTabs VST - 1000 pcs/box	A00000277
KjTabs VTCT - 1000 pcs/box	A00000281
KjTabs VW - 1000 pcs/box	A00000282
KjTabs VS - 1000 pcs/box	A00000283
Weighing boats 58x10x10 mm, 100 pcs/box	CM0486000
Weighing boats 70x23x15 mm, 100 pcs/box	CM0486001

Supplied with

	Lift		Sample rack
DK 6	A00000191	DK 6	A00000395
DK 6/48	A00000191	DK 6/48	A00000398
DK 8	A00000191	DK 8	A00000173
DK 18/26	A00000191	DK 18/26	A00000400
DK 20	A00000190	DK 20	A00000168
DK 42/26	A00000190	DK 42/26	A00000179
	Suction cap and drip tray		Test tubes
DK 6	A00000396	DK 6	A00000144
DK 6/48	A00000399	DK 6/48	A00001088
DK 8	A00000175	DK 8	A00000144
DK 18/26	A00000401	DK 18/26	A00000146
DK 20	A00000169	DK 20	A00000144
DK 42/26	A00000180	DK 42/26	A00000146

Fields of Application

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



Food, Feed & Beverage

Meat, Fish, Poultry, Cereals, Bakery products, Milk, Dairy, Oils, Fats, Brewery, Oils Seeds, Pet food



Pharmaceutical & Life science

Pharmaceutical products, Vaccines, Active ingredients



Environmental & Agro

Soils, Plants, Fertilizers, Waste, Wastewater, Water, Sludges, Sediments



Cosmetics & Personal Care

Creams, Lotions, Powders



Chemical & Petrochemical

Rubber, Plastic, Lubricants, Petroleum products, Coal fuels, Coke

KS 1000

The KS 1000 is a compact, tap-water-free scrubber designed to neutralize corrosive and toxic fumes—such as those from Kjeldahl digestion—via a two-stage process: first dissolving gases in a water-based tank, then neutralizing them with sodium hydroxide in a glass tank.

It fits neatly under a fume hood alongside Velp's DKL digesters, and offers an intuitive top-mounted interface with four adjustable suction levels for precise control. Built with durable materials like glass, Viton tubing, and metal/PVC components—and featuring eight perforated discs for enhanced efficiency—it ensures long-lasting, low-maintenance operation.

Key Benefits:

- Eliminates exposure to harmful fumes for safer work environments
- No water supply needed—reduces consumption and avoids plumbing reliance
- Space-saving, fume hood-friendly design
- Easy-to-use controls, with adjustable suction tailored to digestion phases
- Built with robust materials for durability and easy upkeep



Technical Data

	DK 6	DK 6/48	DK 8	DK 18/26	DK 20	DK 42/26
Construction material	Epoxy painted with chemical resistant coating					
Temperature range	Ambient to 450 °C / 842 °F					
Stability of the heating block temperature	± 0,5 °C					
Precision of the heating block temperature	± 0,5 °C					
Set temperature	Digital readout in °C or °F					
Temperature calibration	Automatic	Automatic	Automatic	Automatic	Automatic	Automatic
Selectable ramps	Up to 4 per program					
Digestion time range	1 to 999 minutes					
Time selection	1 minute steps					
Countdown	Digital readout					
Selectable language	EN, IT					
Heating places	6-position	6-position	8-position	18-position	20-position	42-position
Size of tubes	250 ml test tubes (Ø 42 mm)	300ml test tubes, Ø 48 mm	250 ml test tubes (Ø 42 mm)	100 ml test tubes, Ø 26 mm	250 ml test tubes (Ø 42 mm)	100 ml test tubes, Ø 26 mm
Power	1000 W	1000 W	1150 W	1150 W	2300 W	2300 W
Weight	9 kg (35.7 lb)	9 kg (35.7 lb)	11 kg (24.2 lb)	11 kg (24.2 lb)	18 kg (39.7 lb)	18 kg (39.7 lb)
Dimensions (WxHxD) (aluminum block only)	220x140x350 mm (8.7x5.5x13.8 in)	220x140x350 mm (8.7x5.5x13.8 in)	230x690x420 mm (9.1x17.2x16.5 in)	230x690x420 mm (9.1x17.2x16.5 in)	330x140x510 mm (13.0x5.5x20.1 in)	330x140x510 mm (13.0x5.5x20.1 in)

Service & Support

Velp products are designed by our engineers to resist years of laboratory use.

Our products are manufactured with premium materials to guarantee the best performance with maximum safety.

According to our experience, a proper and regular maintenance is necessary to ensure the highest performance of analytical instrument. Velp Service Department and Velp Official Partners are always ready to offer you maintenance and service support tailored to your needs.

Get the support you need choosing the options:

- Help-desk and Remote support
- Technical Assistance
- Analytical Support

We reserve the right to make technical alterations
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