

KJELDATHERM BLOCK-DIGESTION UNIT

KJELDATHERM with Lift

Digestion in aluminium heating block with precise temperature control. Tried and tested C. Gerhardt technology specifically designed for Kjeldahl digestion of a wide variety of samples with nitrogen content in the micro and macro range. Ideal for subsequent Kjeldahl distillation with the VAPODEST distillation units.

Available for three tube sizes and for 8, 20 or 40 samples.

of the digestion process

Methods can be defined and stored

Assignment of user rights USB interface for data export

Pre-heat function

Predefined methods for all established Kjeldahl digestions

Automatic lift

Automatic control of TURBOSOG and cooling water valve

Illuminated digestion chamber



KJELDATHERM with lift				_	
Туре	KT-L 8s	KT-L 20s	KT-L 40s	KT-L 8s-BS	KT-L 20s-BS
TECHNICAL DATA					
Heating places	8	20	40	8	20
Size of tubes [ml]	250/300	250/300	100	400	400
Temperature max. [°C]	430	430	430	430	430
Temperature control accuracy [%]	+/- 0.5	+/- 0.5	+/- 0.5	+/- 0.5	+/- 0.5
Programs	9911	9911	9911	991)	991)
Display size [inch"]	3.5	3.5	3.5	3.5	3.5
Power consumption [W]	1160	2360	2360	1160	2360
Dimensions W / D / H [mm]	515 / 483 / 748	515 / 483 / 748	515 / 483 / 748	515 / 483 / 748	515 / 483 / 748
Weight [kg]	approx. 44	approx. 53	approx. 53	approx. 44	approx. 53
Nominal voltage [V]	230 (115)	230 (115)	230 (115)	230 (115)	230 (115)
Frequency [Hz]	50 - 60 ²⁾	50 - 60 ^{2]}	50 - 60 ²⁾	50 - 60 ²⁾	50 - 60 ²⁾
DELIVERS					
Digestion tubes	8 x	20 x	40 x	8 x	20 x
KJELDATHERM digestion block with two-tier console and operating unit	1 x	1 x	1 x	1 x	1 x
Insert rack for tubes	1 x	1 x	1 x	1 x	1 x
Exhaust manifold with drip tray	1 x	1 x	1 x	1 x	1 x
Water jet pump	1 x	1 x	1 x	1 x	1 x
Isoversinic-tubing	1.5 m				
ORDER INFORMATION					
Version 230 V	12-0704	12-0729	12-0745	12-0706	12-0731
Version 115 V	12-0705	12-0730	12-0746	12-0707	12-0732
1) Each program is available with 40 differer	nt heating steps th	at have programm	able times and hea	ating capacities	

²⁾ Version 115 V only 60 Hz



KJELDATHERM without Lift

Digestion in aluminium heating block with precise temperature control. Identical technology as with model KJELDATHERM with lift, but the user has to lift and lower the insert rack by hand.

Available for three tube sizes and for 8, 20 or 40 samples.

Range of functions

Ensures transparency and traceability

of the digestion process

Methods can be defined and stored

Assignment of user rights USB interface for data export

Pre-heat function

Predefined methods for all established

Kjeldahl digestions



KJELDATHERM without lift Туре KT 8s KT 20s KT 40s KT 8s-BS KT 20s-BS **TECHNICAL DATA** Heating places 20 40 8 20 Size of tubes [ml] 250/300 250/300 100 400 400 Temperature max. [°C] 430 430 430 430 430 Temperature control accuracy [%] +/- 0.5 +/- 0.5 +/- 0.5 +/- 0.5 +/- 0.5 Programs 991) 991) 991) 991) 991) Display size [inch"] 2.4 2.4 2.4 2.4 2.4 Power consumption [W] 1000 2200 2200 1000 2200 Dimensions W / D / H [mm] 515 / 483 / 728 515 / 483 / 728 515 / 483 / 728 515 / 483 / 728 515 / 483 / 728 Weight [kg] approx. 31 approx. 40 approx. 40 approx. 31 approx. 40 Nominal voltage [V] 230 (115) 230 (115) 230 (115) 230 (115) 230 (115) 50 - 60 50 - 60 50 - 60 50 - 60 Frequency [Hz] 50 - 60 **DELIVERS** Digestion tubes 8 x 20 x 40 x 8 x 20 x KJELDATHERM digestion block 1 x 1 x 1 x 1 x 1 x with two-tier console and operating unit 1 x Insert rack for tubes 1 x 1 x 1 x 1 x 1 x 1 x 1 x 1 x 1 x Exhaust manifold with drip tray 1 x Water jet pump 1 x 1 x 1 x 1 x Isoversinic-tubing 1.5 m 1.5 m 1.5 m 1.5 m 1.5 m ORDER INFORMATION 12-0700 12-0725 12-0743 12-0702 12-0727 Version 230 V Version 115 V 12-0726 12-0728 12-0701

¹⁾ Each program is available with 40 different heating steps that have programmable times and heating capacities



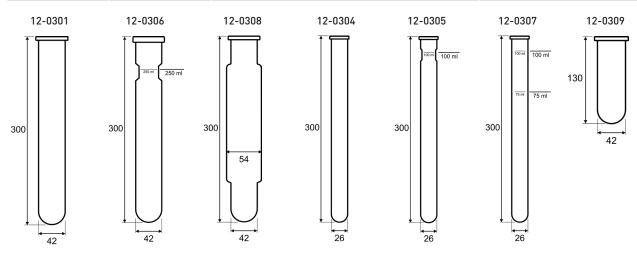
CONSUMABLES AND ACCESSORIES

Make sure to use only original C. Gerhardt spare parts in order to obtain the best possible results. These parts have been tested thoroughly for the operation with KJELDATHERM and TURBOTHERM in the C. Gerhardt application lab.

KJELDAHL-DIGESTION TUBES AND KJELDAHL-FLASKS

All tubes are made of high standard Duran material.

Order No.	Туре	Description	for KJELDATHERM Type
12-0301	KTG 250	KJELDATHERM digestion tube, 250/300 ml - 10 pcs	KT/KT-L 8s, KT/KT-L 20s
12-0306	KTG/E 250	KJELDATHERM digestion tube, 250/300 ml,	KT/KT-L 8s, KT/KT-L 20s
		with constriction + calibrated at 250 ml - 1 pc.	
12-0308	BS-400	KJELDATHERM digestion tube, 400 ml,	KT/KT-L 8s-BS, KT/KT-L 20s-BS
		diminished - 4 pcs	
12-0304	KMT	KJELDATHERM digestion tube, micro 100 ml - 10 pcs	KT/KT-L 40s, KT/KT-L 8s
12-0305	KMT/E	KJELDATHERM digestion tube, micro 100 ml with	KT/KT-L 40s
		constriction + calibrated at 100 ml - 1 pc.	
12-0307	KMT	KJELDATHERM tube, micro 100 ml, calibrated at	KT/KT-L 40s
		100 ml + 75 ml - 1 pc.	
12-0309	KTG-DU	KTG Dummy tube, L 130 mm - 4 pcs	KT/KT-L 8s, KT/KT-L 20s



Catalyst tablets



Order No.	Туре	Description
12-0326	Se	KJELCAT-tablets, tin of 1,000 pcs $3.5 \text{ g K}_{\alpha}\text{SO}_{\alpha} + 0.0035 \text{ g Se}$
12-0328	Cu	KJELCAT-tablets, tin of 1,000 pcs $5.0 \text{ g K}_2\text{SO}_4 + 0.5 \text{ g CuSO}_4 \times 5\text{H}_2\text{O}$
12-0329	CuTi	KJELCAT-tablets, tin of 1,000 pcs 5.0 g $K_2SO_4 + 0.15$ g $CuSO_4 \times 5H_2O + 0.15$ g TiO_2
12-0336	Cu light	KJELCAT-tablets, tin of 1,000 pcs

Antifoam tablets



Order No.	Туре	Description
12-0332	AS	Antifoam extra tablets, tin with 1,000 pcs 0.97 Na ₂ SO ₂ + 0.03 g silicone antifoam



Weighing paper



Order No.	Туре	Description
12-0353	WP	Weighing paper, poor in N ₂ , pack of 500

KJELDATHERM ECO KIT

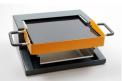
Order No.	Туре	Description
12-0769	KTP	KJELDATHERM Thermoplate for KT 20s, KT 40s with/without lift. Heat retention plate to keep the temperature of the upheated block.
12-0774	KCF	KJELDATHERM Cooling Fan module for KT-systems with lift. Accelerates cooling of the digested samples and the block. 115-230V 20W
12-0776*	KTP-A	KJELDATHERM Thermoplate with console attachment for KT 20s, KT 40s with/without lift. For storing the Thermoplate on top of the KJELDATHERM unit.
12-0777	KTP-S	KJELDATHERM Thermoplate with base for KT 20s, KT 40s with/without lift For storing the Thermoplate beside the KJELDATHERM unit.
12-0778*	KT-ECO	KJELDATHERM Eco Kit for KT-L 20s, KT-L 40s with lift. Consisting of 12-0774 and 12-0776.

^{*} The total height of the KJELDATHERM digestion units increases by + 100 mm after mounting the sets.











12-0769 12-0774 12-0776 12-0777 12-0778

COOLING WATER VALVE



Order No.	Туре	Description
12-0775	WTZs	Cooling water valve WTZs for KT-L 110 - 230 V for the cooling water regulation of TURBOSOG in combination with KT-L digestion units.

Water jet pump WSP



Order No.	Туре	Description
10-0088	WSP	Water jet pump. Condenses and neutralizes aggressive acid fumes. For occasional use with low sample throughput. Suitable for all digestion units TURBOTHERM and KJELDATHERM.



VACUSOG Vacuum Scrubber unit



Order No.	Туре	Description
12-0779	VS	VACUSOG gas scrubber for effective extraction of large quantities of inorganic gases. A water connection is not necessary. Suitable for all TURBOTHERM and KJELDATHERM units. - Nominal voltage: 115 - 230 V, 50/60 Hz - Current consumption: 0,4 - 1 A - Weight: approx. 22 kg - Dimensions (WxDxH): 342 x 463 x 490 mm For more informations see "Product data sheet VACUSOG"

Additional cooling unit for VACUSOG



Order No.	Туре	Description
12-0786	ZKV	The ZKV additional cooler was specifically designed for water sep-aration in Kjeldahl digestion in water. The system is installed on the side next to the VACUSOG and connected to the cooling water supply in the laboratory. Complete with water inlet and outlet hose and cooling water regulation: - Cooling water consumption: 0 - 5 l/min - Cooling water pressure: 0 - 6 bar - Nominal voltage: 24 VDC - Dimensions, closed (WxDxH): 160 x 400 x 490 mm
		- Dimensions, open (WxDxH): 160 x 400 x 720 mm

SCRUBBER UNITS



Order No.	Туре	Description
12-0057	TUR/K	TURBOSOG scrubber unit. Condenses and neutralizes aggressive acid fumes, suited for all KJELDATHERM systems: - Nominal voltage: 230 V, 50 Hz - Nominal wattage: 205 W - Weight: 19 kg - Dimensions: W 330 / D 450 / H 420 mm For more information see "Product data sheet TURBOSOG"

Additional cooling unit



Order No.	Туре	Description
12-0361	ZKE	Additional cooling unit for TUR/K. To be attached at the side of the TURBOSOG and connected to the water supply. Separates the water from digestion gas - for a big number of aqueous samples.



Insert racks for KJELDATHERM-systems KT



Order No.	Туре	Description
12-0709	FB8	Insert rack for KT/KT-L 8s - for 8 x 250 ml tubes
12-0/07	CD0	INSERT FACK FOR KT/KT-L OS - TOF 6 X 200 HIL LUDES
12-0712	EB8BS	Insert rack for KT/KT-L 8s-BS - for 8 x 400 ml tubes BS
12-0721	EB20	Insert rack for KT/KT-L 20s - for 20 x 250 ml tubes
12-0724	EB20BS	Insert rack for KT/KT-L 20s-BS - for 20 x 400 ml tubes BS
12-0741	EB40	Insert rack for KT/KT-L 40s - für 40 x 100 ml tubes

Washing attachment for insert rack EB20



Order No.	Туре	Description
12-0736		The washing attachment is used to fix the digestion tubes in the EB 20 insert rack, so that all 20 digestion tubes can be placed in a dishwasher for cleaning, complete with the insert rack. This eliminates the need for time-consuming transfer of the tubes from the insert rack into the dishwasher.

Exhaust manifold for KJELDATHERM-systems KT



Order No.	Туре	Description
12-0233	AV8	Exhaust manifold, 8-place, for KT/KT-L 8s, KT/KT-L 8s-BS with drip tray
12-0236	AV20	Exhaust manifold, 20-place, for KT/KT-L20s, KT/KT-L 20s-BS with drip tray
12-0237	AV40	Exhaust manifold, 40-place, for KT/KT-L 40s with drip tray

Communication cable



Order No.	Туре	Description
1007118	PK45	KT Patchcable RJ45, yellow, 2 m. Connecting cable between controller and digestion block

Tubes



Order No.	Туре	Description
1000393	AWS	Cooling water outlet tubing, 22x29 mm, 2 m long
10-0091	ISO	Isoversinic-tubing 12x17mm, black



GL-Screw caps for laboratory bottles



Order No.	Туре	Description	
1004320		Screw cap GL14, nat. white	
1004321		Screw cap GL18, nat. white	
1004322		Screw cap GL32, nat. white	
1004323		Screw cap GL45, nat. white	
1000358		Silicone seal GL 14 with connection, straight	
1000356		Silicone seal GL 18	
1000357		Silicone seal GL 32	
1000355		Silicone seal GL 45	

SUPPORT AND SERVICE

In addition to its high quality instruments, C. Gerhardt offers comprehensive services to maintain the functionality and effeciency of your equipment.

Installation / Equipment Qualification

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Order No.	Туре	Beschreibung	
99-0200	ABI-KT	Installation and Instruction KJELDATHERM - Installation and connection of the unit - functional check - operating instructions	
		Equipment Qualification (IQ/OQ) KJELDATHERM - Installation of the unit and instruction - Installation Qualification IQ and Operational Qualification OQ, Guidance for Performance Qualification PQ - Training of laboratory personnel with certificate - Individual training certificates, if regested	

SERVICING AND MAINTENANCE CONCEPTS

For detailed information on servicing and maintenance concepts, please contact your local authorised C. Gerhardt representative.

WORKSHOPS / SEMINARS / APPLICATIONS TRAINING

For detailed information on trainings and workshops, please contact your local authorised C. Gerhardt representative.

Product data sheet KJELDATHERM



TABLE OF CONFIGURATION

Please arrange the required system

	DIGEST	ION SY	STEM	/ TYPE
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Quantity	Order No.	Туре	Description

CONSUMABLES / ACCESSORIES

Quantity	Order No.	Туре	Description

SUPPORT AND SERVICE

Quantity	Order No.	Туре	Description

Send offer to:

Customer No.	
Company	
Name	
Address	
Tel.	
E-Mail	
Web	



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Presented	by:
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