

TRACE METAL DIGESTION UNIT



For determining the acid-soluble proportion of metals in sewage sludges, sediments and soils with aqua regia, e.g. in accordance with DIN 38414/German standard method. Digestion in aluminium heating block with precise temperature control.

Tried and tested C. Gerhardt technology.

Available with various fittings.

Scope of delivery Complete System, including
Digestion tubes
water condenser
Trace metal condensation traps
Exhaust manifold
Water jet pump
Temperature-controller
Instruction manual

TRACE METAL DIGESTION UNIT automatic (with Lift)

Type	SMA8A	SMA20A
TECHNICAL DATA		
Heating places	8	20
Size of tubes [ml]	250	250
Temperature max. [°C]	240	240
Programs	9 ¹⁾	9 ¹⁾
Nominal wattage [W]	1160	2360
Dimensions W / D / H [mm]	470 / 415 / 1000 ²⁾	470 / 530 / 1000 ²⁾
Weight [kg]	32	46
Nominal voltage [VAC]	230 / 115	230 / 115
Frequency [Hz]	50 - 60 ³⁾	50 - 60 ³⁾
DELIVERS		
KJELDATHERM-block	1 x (12-0005)	1 x (12-0006)
Insert rack EB-A for tubes	1 x (12-0710)	1 x (12-0722)
Motorlift console EBL-C	1 x (12-0265)	1 x (12-0265)
Insert rack for condensers	1 x (12-0249)	1 x (12-0250)
CSB/SMA digestion tubes KMG, 250 ml (with KS40)	8 x (12-0321)	20 x (12-0321)
CSB/SMA condensers SMK (with KS40)	8 x (12-0322)	20 x (12-0322)
Trace metal cooling trap	8 x (12-0320)	20 x (12-0320)
PVC-exhaust manifold	1 x (12-0298)	1 x (12-0299)
Water jet pump	1 x (10-0088)	1 x (10-0088)
Temperature-time-controller TZ	1 x	1 x
ORDER INFORMATION		
Version 230 V	12-0062	12-0074
Version 115 V	12-0215	12-0222

1) Each program is available with 9 different heating steps that have programmable times and heating capacities

2) Height in lower lift position, in upper lift position + 100 mm

3) Version 115 V only 60 Hz



TRACE METAL DIGESTION UNIT manual (without Lift)

Type	SMA8M
------	-------

TECHNICAL DATA

Heating places	8
Size of tube [ml]	250
Temperature max. [°C]	240
Nominal wattage [W]	1000
Dimensions W / D / H [mm]	415 / 415 / 1150
Weight [kg]	29
Nominal voltage [VAC]	230 / 115
Frequency [Hz]	50 - 60

DELIVERS

KJELDATHERM-block	1 x (12-0005)
Insert rack EB-M for tubes	1 x (12-0711)
CSB/SMA digestion tubes KMG, 250 ml (with KS40 Schliff)	8 x (12-0321)
CSB/SMA water condenser SMK (with KS40 Schliff)	8 x (12-0322)
Trace metal cooling trap	8 x (12-0320)
PVC-exhaust manifold	1 x (12-0298)
Water jet pump	1 x (10-0088)
Temperature-controller	1 x

ORDER INFORMATION

Version 230 V (with Controller TR)	12-0063
Version 230 V (with Controller TZ)	12-0425
Version 115 V (with Controller TZ) ¹⁾	12-0435

1) Version 115 V only available in combination with TZ-controller.

TZ - CONTROL UNIT



Order No.	Type	Description
12-0011	TZ	Programmable temperature time controller for KJELDATHERM-systems: - 9 programs with 9 program steps - accuracy < 0,5 % in the upper temperature range - Nominal voltage: 230 VAC, 50 - 60 Hz - Dimensions: W 85 / D 240 / H 255 mm - Temperature range: RT - 430 °C
12-0378	TZ	Programmable temperature time controller Identical to 12-0011, but as version 115 V, 60 Hz

TR - TEMPERATURE CONTROLLER



Order No.	Type	Description
12-0010	TR	Electronic temperature controller for manual KJELDATHERM-systems: - accuracy < 1,0 % in the upper temperature range - Nominal voltage: 230 VAC, 50 - 60 Hz - Dimensions: W 85 / D 150 / H 155 mm - Temperature range: RT - 430 °C

Accessories

Order No.	Description
12-0321	COD/SMA tube SMG, 250ml, with KS40, 4 pcs
12-0322	COD/SMA water condenser SMK, ball condenser, with KS40
12-0320	Cooling trap SMF, acc. to DIN, with NS29
12-0298	PVC exhaust manifold, 8-place
12-0299	PVC exhaust manifold, 20-place
12-0012	Cooling water valve WTZ, for TZ-controller, 230VAC 50-60Hz
10-0088	Water jet pump WSP
12-0057	TURBOSOG-scrubber unit TUR/K, with preseparator

More accessories and consumables on request.



C. Gerhardt GmbH & Co. KG
Cäsariusstraße 97 · 53639 Königswinter, Germany
Tel.: +49 (0) 2223 2999-0 · www.gerhardt.de



Presented by

PL 16 (Palokorvenkatu 2)
04261 Kerava
Puh. 010 417 4500
hyxo@hyxo.fi • www.hyxo.fi