

Thermoreactor RD 125

For the Tube test digestion of:

COD (150 °C)

TOC (120 °C)

Total Chromium (100 °C)

Total Nitrogen (100 °C)

Total Phosphate (100 °C)



Chemical digestion of samples is required for the photometric determination of COD, TOC, total phosphate and total nitrogen.

The required temperatures and reaction time can be selected by using the membrane keypad of the reactor RD 125. The unit works at three different temperatures (100 / 120 / 150 °C) and three pre-set reaction times 30 / 60 / 120 minutes). When digestion is complete, the reactor automatically switches off and gives a corresponding LED indication with short beep alarm.

The RD 125 reactor is fitted with 24 holes for 16 mm diameter vials.

With the voltage switch on the back 230 V and 115 V are selectable.

COD Reactor RD 125 Order code: 2 41 89 40

Technical data RD 125

Power supply	230 V / 50-60 Hz or 115 V / 50-60 Hz (switchable)
Power	550 W
Dimensions	248 x 219 x 171 mm
Weight	3.9 kg
Materials, housing	ABS
Protection grid	PPS
Lid	PC
Block insert	PBT
Heating block	Aluminium
Holes in the aluminium block	24 holes, 16.2 mm ± 0.2 mm
Selectable temp.	100 / 120 / 150 °C
Probe type	Pt100 A class
Temperature stability	± 1 °C at the Pt100
Selected time	30 / 60 / 120 / min. and continuous operation (∞)
Heating up	from 20 °C to 150 °C in 12 min.
Protection against overheating	at the alu block at 190 °C
Beeper	max. 88 dB (piezo buzzer)
Environmental conditions	10 – 40 °C max. 85 % rel. humidity

CE-Conformity

Photometry

Waste Water Setups

Waste Water Setup MD 600 21 41 00
Photometer MD 600 with standard accessory,
Infrared data transmission module IRiM

Waste Water Setup MD 610 21 41 10
Photometer MD 600 with standard accessory
Bluetooth® data transmission

Waste Water Setup SpectroDirect 71 21 00
Spectrophotometer SpectroDirect
with standard accessory, 5 round vials ø 24 mm

Delivery Content

- Thermoreactor RD 125
- tube stand
- membrane filter set
- instruction manual
- warranty information

Ranges

COD 0 - 150 mg/l and 0 - 1500 mg/l,
Ammonia 1 - 50 mg/l N,
Nitrate 1 - 30 mg/l N
Nitrite LR 0,01 - 0,3 mg/l N
Nitrogen 5 - 150 mg/l N
Phosphate 0.02 - 1 mg/l P / 0.06 - 3.5 mg/l PO₄

Reagents

COD 0-150 mg/l O₂
(25 pc.), mercury free ** 2 42 07 10
(25 pc.) 2 42 07 20
(150 pc.) 2 42 07 25

CSB 0-1500 mg/l O₂
(25 pc.), mercury free ** 2 42 07 11
(150 pc.), mercury free ** 2 42 07 16
(25 pc.) 2 42 07 21
(150 pc.) 2 42 07 26

CSB 0-15000 mg/l O₂
(25 pc.), mercury free ** 2 42 07 12
(25 pc.) 2 42 07 22
(150 pc.) 2 42 07 27
** without chloride removal

Ammonia VARIO HR tube test 53 56 50

Nitrate VARIO tube test 53 55 80

Nitrite LR VARIO powder pack 53 09 80

Nitrogen VARIO Total HR tube test 53 55 60

Phosphate VARIO Total HR tube test 53 52 10

Accessories

Set of round vials with lids 19 76 29
Height 48 mm, Ø 24 mm

Membrane filter set for use 36 61 50
when preparing samples, 25 membrane
filters 0.45 µm, 2 syringes 20 ml

Vial stand for 6 round vials 41 89 51
Ø 24 mm, acrylic glass

Vial stand for 10 vials 41 89 57
(Ø 16 mm or □ 13,5 mm), acrylic glass

Automatic pipette*, 1 - 5 ml 41 90 76

Pipette tips*, 1 - 5 ml (white), 41 90 66
100 pc.

Automatic pipette**, 0.1 - 1 ml 41 90 77

Pipette tips**, 0,1 - 1 ml (white), 41 90 73
1000 pc.

* 0 - 150 mg/l and 0 - 1500mg/l ; ** 0 - 15000 mg/l