

COD100

Laboratory COD Analyzer • Closed-tube dichromate method • 0-150 / 0-1500 mg/L • 420 / 620 nm • USB

COD100 Laboratory COD Analyzer measures chemical oxygen demand (COD) of wastewater, surface water and industrial effluent by the closed-tube dichromate method (EPA 410.4, ISO 15705:2002): two LED light sources cover the 0-150 mg/L and 0-1500 mg/L ranges, with 2-point calibration, 200-result GLP memory and USB data transfer. The optional COD100R reactor digests 21 samples at a time.

COD ANALYZER EPA 410.4 ISO 15705:2002 0-150 MG/L 0-1500 MG/L 420 / 620 NM ±8 %
2-POINT CALIBRATION GLP 200 USB

Document type: **Technical Specification Sheet**

Product: **COD100 Laboratory COD Analyzer**

SKU: **PRO4195**

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COD100 • Laboratory COD Analyzer



COD100R digestion reactor (optional) • 21 tubes • 100-165 °C • timer 0-120 min • protective shield

MODEL / SKU

COD100
PRO4195

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COD100 • technical specification

Closed-tube dichromate COD method with two LED light sources, GLP memory and USB data transfer

COD 0–150 / 0–1500 MG/L ±8 % 420 / 620 NM LED EPA 410.4 • ISO 15705 USB — digestion in the optional COD100R reactor (21 samples, 100–165 °C)

Product Overview

Application profile

Wastewater treatment plants: influent and effluent COD, process control and reporting.
Environmental laboratories: surface water and wastewater monitoring by a standardised method.
Industry: food, dairy, chemical and paper effluents before discharge.
Teaching: demonstration of the dichromate COD method.

Advantages

Standard method: closed-tube dichromate digestion per EPA 410.4 and ISO 15705:2002.
Two ranges: 420 nm LED for 0–150 mg/L and 620 nm LED for 0–1500 mg/L.
Simple calibration: 2-point calibration with standard solutions.
Traceable data: 200 results with GLP data and USB transfer to a PC.

Key features

Measurement: colorimetric reading of Cr(III)/Cr(VI) after digestion.
Light sources: 2 LEDs, 420 nm and 620 nm.
Performance: accuracy ±8 %, repeatability ≤3 %.
Stability: drift 6 mg/L in 20 min.
Reactor: COD100R, 21 tubes, 100–165 °C, 0–120 min (optional).

Core technical summary

Parameter	Specification
Model	COD100
SKU	PRO4195
Instrument type	Laboratory COD Analyzer
Standards	EPA 410.4, ISO 15705:2002
Measuring range	0–150 mg/L (low range) / 0–1500 mg/L (high range)
Light source	2 LEDs: 420 nm (low range), 620 nm (high range)
Accuracy	±8 %
Repeatability	≤3 %

MEASURING RANGE
 0–1500 mg/L

ACCURACY
 ±8 %

REPEATABILITY
 ≤3 %

DATA MEMORY
 200 results

Technical values are for product selection. The supplied configuration, reagents and accessories are confirmed in the official COLO.Science quotation.

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Technical Parameters

Parameter	Specification	Parameter	Specification
Method	Closed-tube dichromate digestion, colorimetric reading	Data output	USB (PC)
Standards	EPA 410.4, ISO 15705:2002	Sample bottles	5 glass bottles with screw caps
Measuring range	0–150 mg/L (low range) / 0–1500 mg/L (high range)	Power supply	AC adapter, 200–240 V AC input
Light source	2 LEDs: 420 nm (low range), 620 nm (high range)	Dimensions	315 × 225 × 100 mm
Accuracy	±8 %	Weight	approx. 2 kg
Repeatability	≤3 %	Reactor positions	21 digestion tubes
Drift	6 mg/L / 20 min	Reactor temperature	100–165 °C, settable
Calibration	2-point	Reactor timer	0–120 min, settable
Display	LCD	Reactor safety	Transparent protective shield
Data memory	200 results, GLP	Reactor dimensions / weight	330 × 228 × 132 mm / 4 kg

Specification notes

Method: samples are digested with potassium dichromate in sulfuric acid with silver sulfate catalyst at up to 165 °C, then read in the analyzer.

Reagents: low-range and high-range COD reagents and the KHP standard are offered on request.

Safety: dichromate and sulfuric acid reagents require a fume hood, gloves and eye protection.

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Accessories and consumables



Colorimetric bottles, 5 pcs

Glass bottles with screw caps for reading the digested samples and the blank in the measuring slot.

Standard delivery



PRO4190

COD100R digestion reactor

21 positions, 100–165 °C, timer 0–120 min, transparent protective shield; tube rack and 21 digestion tubes included.

Optional



Tube rack and digestion tubes

Stainless steel rack and 21 digestion tubes, supplied with the COD100R reactor.

Optional



Measuring slot with light-tight lid

Flip-up lid closes the measuring slot during the reading; no separate cuvette holder is needed.

Standard delivery

More accessories and consumables

SKU	Item	Use	Status
—	COD reagent, low range (0–150 mg/L)	Low-range COD	Optional
—	COD reagent, high range (0–1500 mg/L)	High-range COD	Optional
—	COD calibration standard (KHP)	Calibration	Optional
—	Spare digestion tubes	Sample digestion	Optional

Standard delivery: COD100 analyzer, 5 colorimetric bottles and power adapter. The COD100R reactor, reagents and standards are optional. Standard delivery is confirmed in the quotation.

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COD100 measuring slot with flip-up lid

Ordering information

Item	Value
Model	COD100
SKU	PRO4195
Instrument type	Laboratory COD Analyzer
Measuring range	0–150 / 0–1500 mg/L
Also included	5 colorimetric bottles, power adapter
COD100R reactor (optional)	PRO4190
Power supply	AC adapter, 200–240 V AC input

Configuration checklist

COD level: expected COD of the samples — low range 0–150 mg/L or high range up to 1500 mg/L.

Number of samples: daily sample count — the COD100R reactor digests 21 tubes at a time.

Reagents: ready-made reagents or in-house preparation.

Documentation: GLP memory and USB transfer for reports.

MANUFACTURER AND SUPPORT

COLO Lab Experts

Polje ob Sotli 4, SI-3255, Slovenia

Selection guidance: COD100 is chosen when a laboratory needs COD results by the standard dichromate method without a full spectrophotometer. COLO.Science helps with the reactor, reagents and standards.

QUICK CONTACT

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COLO.SCIENCE · COD ANALYSIS CONFIGURATION SUPPORT

Need help setting up COD analysis in your laboratory?

Tell us the sample type, the expected COD level and the daily number of samples. COLO.Science will confirm the COD100 configuration, reactor, reagents and standards for your workflow.

Web: colo.si

Ask us:

Price and current discount, delivery time, electrode selection for your sample, calibration standards, installation and operator training, spare electrodes and accessories — write to sales@colo.si or call us.

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