

# COD Set-Ups COD VARIO

## Determination of the chemical oxygen demand index (ST-COD) Small-scale sealed-tube | Total range 0 - 15000 mg/l | (ISO 15705:2002)



COD Set-Up AL200 COD VARIO

### Waste water parameter COD

The chemical oxygen demand, ST-COD value, of water as determined by this dichromate method can be considered as an estimate of the theoretical oxygen demand, i.e. the amount of oxygen consumed in total chemical oxidation of the organic constituents present in the water.

### COD VARIO Photometer

With a measuring range from 0 to 15,000 mg/l O<sub>2</sub>, the AQUALYTIC® photometer are suitable for waste water testing.

Two LED light sources with long-term stability ( $\lambda_1 = 610 \text{ nm}$  ;  $\lambda_2 = 430 \text{ nm}$ , according to ISO 15705:2002), a waterproof sample chamber, a large digital display, and the user-friendly keypad ensure maximum operating reliability and convenience.

**AL100 COD VARIO**  
(AL100 photometer in case)

Order code: 4276120

**AL200 COD VARIO**  
(AL200 photometer in case)

Order code: 42892502

### Highlights

- ST-COD sealed tubes ready for use
- Suppression of chloride interference  
up to 1000 mg/l (LR & MR)  
up to 10000 mg/l (HR)
- Mercury free tube tests,  
in absence of chloride interference
- 3 ranges:  
Low range:  
0 - 150 mg/l, meets ISO 15705:2002  
Middle range:  
0 - 1500 mg/l, meets ISO 15705:2002  
High range: 0 - 15000 mg/l

## Set-Ups COD VARIO

The AQUALYTIC® COD VARIO test set-ups allow highly sensitive and precise water testing with minimum effort. They measure the ST-COD concentration by photometric detection employing a linear relationship between absorbance and concentration.

After adding the sample to a AQUALYTIC® COD VARIO tube test (LR, MR according to ISO 15705:2002), it is heated in the reactor and then analysed in a COD VARIO photometer.

The COD-Set-ups comprise a COD VARIO photometer, 25 tube tests for each of the two lower measuring ranges, a reactor for sample digestion and a vial stand.

<b>COD-Set-Up</b> <b>AL100 COD VARIO</b>	<b>Order code</b> 4276130
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Instrument in carrying case, 4 batteries (AAA), adapter for round vials ø 16 mm, 2 sets of tube tests 0-150 mg/l, 0-1500 mg/l, thermoreactor AL125, tube stand, 2 syringes 1 ml, 2 ml, warranty information, certificate (COC), instruction manual

<b>COD-Set-Up</b> <b>AL200 COD VARIO</b>	<b>Order code</b> 42892602
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Instrument in carrying case, 4 batteries (AA), adapter for round vials ø 16 mm, 2 sets of tube tests 0-150 mg/l, 0-1500 mg/l, thermoreactor AL125, tube stand, 2 syringes 1 ml, 2 ml, warranty information, certificate (COC), instruction manual

## Ranges

0 – 150 mg/l O<sub>2</sub> ± 3.5%<sup>\*)</sup> FS

0 – 1500 mg/l O<sub>2</sub> ± 3.5%<sup>\*)</sup> FS

0 – 15000 mg/l O<sub>2</sub> ± 3.5%<sup>\*)</sup> FS

\* based on the use of potassium-hydrogenephthalate standards (DIN 38 409)

## COD VARIO tube tests

The AQUALYTIC® COD VARIO tube tests are available for the measuring ranges 0-150 mg/l O<sub>2</sub>, 0-1500 mg/l O<sub>2</sub> and 0-15000 mg/l O<sub>2</sub>. Their chemical properties and a 16 mm tube diameter make them compatible to Hach® devices.\*

Tube tests	Quantity	Order code
<b>0 - 150 mg/l O<sub>2</sub></b>	(25 pc.) mercury free**	420710
	(25 pc.)	420720
	(150 pc.)	420725
<b>0 - 1500 mg/l O<sub>2</sub></b>	(25 pc.) mercury free**	420711
	(150 pc.) mercury free**	420716
	(25 pc.)	420721
	(150 pc.)	420726
<b>0 - 15000 mg/l O<sub>2</sub></b>	(25 pc.) mercury free**	420712
	(25 pc.)	420722
	(150 pc.)	

\*\* without chloride removal

## Standard solutions

Standard solutions are solutions with a defined concentration and are provided to check the operation methods and devices of the cuvette tests as well as the condition of optical filters and the instrument.

Standard solutions	Quantity	Order code
<b>100 mg/l COD</b>	30 ml	420803
<b>500 mg/l COD</b>	30 ml	420804
<b>5000 mg/l COD</b>	10 ml	420805