# Automate your processes Automate your lab Innovate

# with EasyPREP BOD-200

### **Automated Analyzer**

**Full Process Automation:** 



The EasyPREP portfolio provides environmental testing laboratories with the technologies required to comply with environmental water legislation through automated, unattended, environmental analyzers.

The EasyPREP BOD-200 provides users with the capability to conduct BOD and cBOD analysis. Analyze cBOD in conjunction with BOD to verify if non-compliant BOD results are due to nitrification. Obtain results more reflective of real effluent quality than when under nitrifying conditions.

#### **Overview**

#### THE BOD-200 AUTOMATES BOD AND cBOD ANALYSIS FOR STATE, MUNICIPAL, AND COMMERCIAL TESTING LABORATORIES

- Improve laboratory productivity by assigning personnel to value-added tasks instead of repetitive manual BOD measurements.
- Ensure that your laboratory complies to accuracy and precision requirements.
- Ensure repeatability. Results are only reflective of sample variations.
- Track and reference detailed records of results.

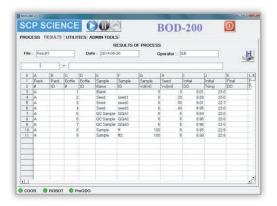
Biochemical oxygen demand (BOD), measures oxygen depletion which represents the breakdown of organic material by microorganisms. Carbonaceous BOD (cBOD), measures oxygen depletion from the breakdown of organic material by microorganisms in which the contribution from nitrogenous bacteria has been suppressed.

#### **Features**

- Universal platform accommodates all BOD bottle types.
- Barcode reader option provides sample tracking throughout the entire process.
- Optimize laboratory management with DayO, Day5 or Ultimate BOD. The total oxygen consumed when a biochemical reaction is completed is Ultimate BOD.
- Automatic dispensing of liquids and quick measurement for DayO.
- Integrated blade stirrer for homogenization and optimal stabilization time.
- YSI Optical or Membrane probe, available in single or dual configurations.
- Automatic rinsing between samples for residual sample removal and preventing cross contamination.
- Prime tubing with the click of a button.



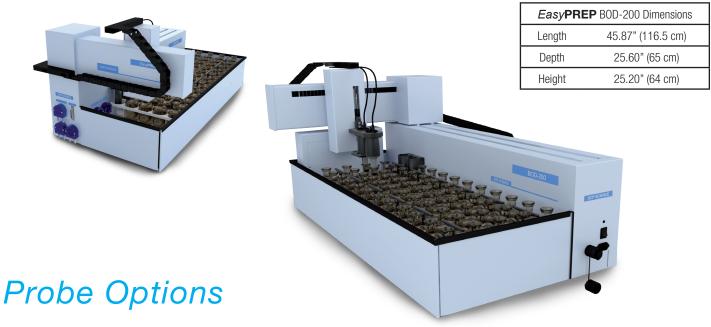






#### Software Features

- BOD and cBOD calculations compliant with international ISO, EPA, JIS and EN regulations.
- Measure sample BOD and cBOD in the same run for best quality control of BOD results.
- Set 5-day, 7-day or n-days incubation period.
- Rack-specific time tracking of incubation period.
- Data exportable to a LIMS in a compatible .csv format.
- Automatic flagging of "out-of-range" results by applying pre-defined criteria for blanks, seed controls and standards.
- Automatic barometric pressure compensation.
- Automatic temperature compensation.
- Seed and inhibitor volume additions are user definable.
- Easy and quick probe calibration function.
- Date and time stamp.



	Optical Probe	Membrane Probe	
Range:	0-50 mg/L	0-50 mg/L	
Accuracy:	0 to 20: $\pm 0.1$ mg/L or $\pm 1\%$ reading, whichever greater	0 to 20: $\pm$ 0.1 mg/L or $\pm$ 2% reading, whichever greater	
Resolution:	0.01 mg/L	0.01 mg/L	
Response time:	T90=22 seconds with stirring	T90=30 seconds with stirring	

## **BOD-200** Ordering Information

INSTRUMENT	
Description	Catalog No.
BOD-200 with Optical Probe	010-420-001
BOD-200 with Membrane Probe	010-420-002

RACKS (3 REQUIRED)			
Description	Bottle Volume	Bottle capacity	Catalog No.
BOD Bottle Rack, glass	165 ml	24	010-420-054
BOD Bottle Half Rack, glass	300 ml	10	010-420-086
BOD Bottle Rack, plastic	300 ml	20	010-420-035
BOD Bottle Rack, glass	300 ml	20	010-420-036
BOD Bottle Rack, glass	60 ml	42	010-420-037

INSTRUMENT OPTIONS	
EasyPREP BOD-200 with Optical Probe	
Description	Catalog No.
Dual Probe Kit	010-420-003
BOD Optical Probe	010-420-030
Probe Sensor Replacement Cap	010-420-090

EasyPREP BOD-200 with Membrane Probe	
Description	Catalog No.
Dual Probe Kit	010-420-004
BOD Membrane Probe	010-420-031
Probe Sensor Replacement Cap	010-420-091

OPTIONS AND ACCESSORIES	
Description	Catalog No.
Set of Replacement Dispensing Tubing	010-420-088
Barcode reader, for rapid loading of sample identification	010-600-034
BOD Bottle Cap for 300 ml, plastic or glass bottles, pk. 25	010-420-018
Laptop computer, with operating system (N. American orders only)*	010-400-008
Optical Probe Replacement Stirrer	010-420-034

<sup>\*</sup>For orders outside of North America, please speak to your local Sales Representative or Distributor.

STANDARDS & REAGENTS		
Description	Unit	Catalog No.
BOD reagent kit containing reagents required to prepare BOD dilution water.	Kit	250-110-150
Buffer pH 7.2 (phosphate), for BOD	500 ml	250-110-100
Calcium Chloride, CaCl <sub>2</sub> , 2.75% w/v	500 ml	250-110-200
Ferric Chloride, FeCl <sub>3</sub> , 0.025% w/v	500 ml	250-110-300
Magnesium Sulfate, MgSO <sub>4</sub> , 2.25%w/v	500 ml	250-110-400
BOD Glucose Powder for check solution	10 g	250-110-500
BOD Glutamic Acid for check solution	10 g	250-110-600

Contact your Sales Representative, local Distributor, or one of our regional offices below:

CANADA	USA	FRANCE	GERMANY	UK
Phone: +1 (800) 361-6820	Phone: +1 (800) 361-6820	Phone: +33 (0) 1 69 18 71 17	Phone: +49 (0) 8342-89560-61	Phone: +44 (0) 7561-7028-90
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