

# BODTrak™ II Apparatus

## Features and Benefits

### Decrease Total Test Time

The BODTrak II Apparatus is easy to set up and allows for quick sample preparation for BOD (Biochemical Oxygen Demand) analysis. Simply pour a measured sample of wastewater and nutrient buffer into each of six BODTrak II bottles. Connect the bottles to the instrument's pressure sensors, select a measurement range, and incubate. User calibration of the instrument is not necessary.

### Faster than Dilution Method

Constant stirring in the bottles supplies additional oxygen to the sample and provides bacteria with greater exposure to food. This results in more rapid respiration and consumption of oxygen. Results comparable to the dilution method (BOD<sub>5</sub>) can be achieved in only two to three days. Use these results for process control.<sup>†</sup>

<sup>†</sup>The BODTrak II method is not approved by the USEPA for NPDES reporting purposes.

### BOD Results that are Easy to Monitor

The BODTrak II Apparatus has a large graphic display that continuously updates results. View the results at any time during the test. The instrument plots a curve of BOD over time. To review the data in detail, simply move a cursor along the curve to display results for any stored data point.

### Standalone Operation

The apparatus automatically ends the test and stores the results after the chosen test length of five, seven, or ten days. This eliminates the need to be present when the test is complete.

### DO Probes and Titrations are Eliminated

The BODTrak II Apparatus measures BOD using the respirometric method. Each sample bottle is connected to a pressure sensor in a closed system. As bacteria consume oxygen in the sample, the pressure in the bottle headspace drops. This pressure change correlates directly to BOD. By measuring pressure changes instead of dissolved oxygen levels, the need for probes and titrations is eliminated.



*Use the BODTrak II Apparatus for unattended, fast BOD (Biochemical Oxygen Demand) analysis. Features include delayed start for temperature stabilization, continuous data readout, and automatic shut-off.*

### Improvements of the BODTrak II Apparatus

The BODTrak II Apparatus is a re-engineered version of Hach's BODTrak Apparatus. Improvements to the old system include:

- Greaseless bottle seals
- Larger graphic display screen
- Improved stirring
- Smaller footprint
- Improved procedures with expanded options
- Bottle fences to prevent tipping of bottles and provide tubing management during storage
- Auto-switching power supply
- Improved temperature control

## Specifications\*

### Range

Selectable: 0 to 35, 0 to 70, 0 to 350, or 0 to 700 mg/L BOD (Biochemical Oxygen Demand)

### Capacity

Six 492-mL bottles

### Precision

For a standard containing 150 mg/L each of glucose and glutamic acid, testing 44 samples obtained a mean of 235 mg/L BOD with a 95% confidence limit of distribution of 11 mg/L (or a range of 224 to 246 mg/L BOD)

### Drift

< 3 mg/L BOD in 5 days

### Resolution

1 mg/L BOD

### External Power Supply

Input: 110 to 240 V, 50/60 Hz  
Output: 24 V, UL CSA, and TUV approved

### Operating Temperature

20°C (68°F)

### Storage Temperature

0 to 40°C (104°F)

### Dimensions

28.9 x 26 x 9.8 cm (11.4 x 10.3 x 3.9 in.)

### Weight

4 kg (8.8 lbs.)

*\*Specifications subject to change without notice*

*At , it's about learning from our customers and providing the right answers. It's more than ensuring the quality of water—it's about ensuring the quality of life. When it comes to the things that touch our lives...*

*Keep it pure.*

*Make it simple.*

*Be right.*

## Ordering Information

**2952400** BODTrak II Apparatus, 115/230 Vac; includes North American and continental European power cords, auto-switching power supply, six bottles, six magnetic stir bars, six seal cups, spatula scoop, 50 BOD Nutrient Buffer Pillows, and potassium hydroxide pellets

### Reagents

**2962266** BOD Nutrient Buffer Pillows; 300 mL, 50/pk

**31425** Potassium Hydroxide Pellets

**1486610** BOD Standard Solution; for manometric method, glucose and glutamic acid, 3000 mg/L, 10 mL Voluette® Ampules, 16/pk

### Replacement Parts

**714421** Bottle, BODTrak II; glass, amber, 6/pk

**2952500** Power Supply; auto-switching

**1801000** Power Cord, North American

**4683600** Power Cord, continental European

**2959500** Seal Cup

**2959400** Stir bar, BODTrak II

**1225700** Spatula Scoop

**2959300** RS232 Cable; for data transfer to PC

### Optional Accessories

**2960100** Printer; Citizen PD-24 with cable, 100-240 Vac

**2616200** Incubator, BOD, 110 Vac; compact, model 205

**2616202** Incubator, BOD, 220/240 Vac; compact, model 205

**2270800** *Standard Methods for the Examination of Water and Wastewater*