MANTECH

OPTIMIZE YOUR RESULTS. PROTECT OUR ENVIRONMENT.



BIOCHEMICAL OXYGEN DEMAND (BOD) SOLUTIONS

BOD PRO SYSTEM FEATURES

The MANTECH BOD Pro™ system automates the 5-day and 7-day Biological Oxygen Demand (BOD) analysis methods approved for regulatory compliance around the world.

BOD PRO™ CONFORMS TO THE FOLLOWING REGULATORY NORMS:

- ASTM Standard Methods 5210B, 23rd and 24th editions
- EPA 405.1
- ISO EN 5815-1
- ISO EN 1899-1, -2



PLAY VIDEO

1 AM400™ Autosampler
Maintenance- and binding-free autosamplers with varying capacities can fit all system components on platform.

2 YSI MultiLab DO Meter
Single, dual ot triple membrane or optical DO probes.

3 Sample Preparation
Precise dilution water, seed and/or inhibitor (ATU) addition.

4 IntelliRinse™
Dynamic rinse station to clean probe(s) in between each dilution or sample set.

5 Racks
12 or 18 position racks to accommodate any bottle size.

6 BOD Pro™ Software
MANTECH coded software with intuitive user interface.

AUTOMAX 400 & 430 SERIES

MANTECH's Next Generation Autosamplers



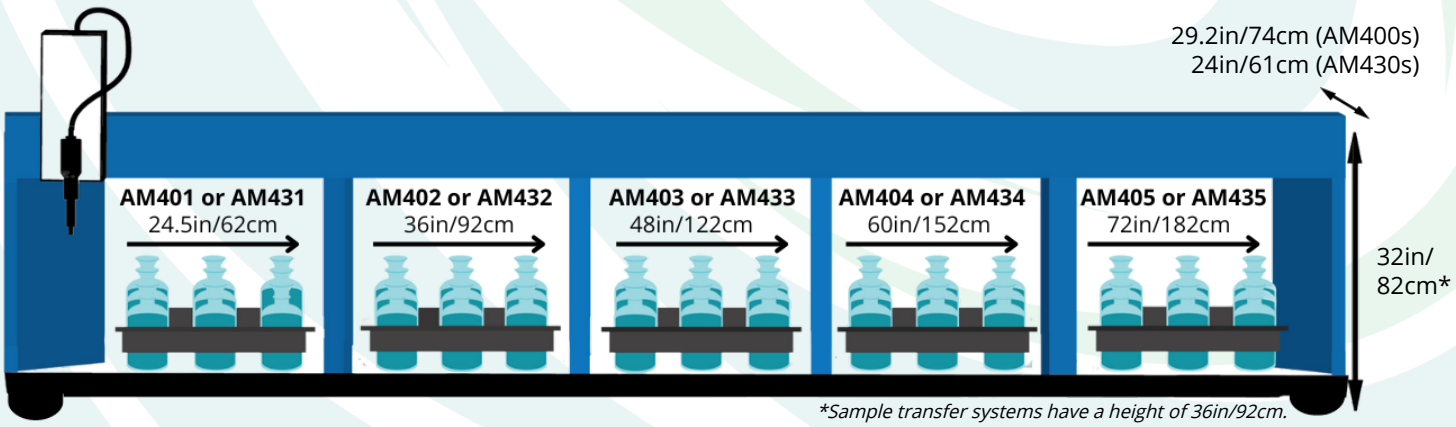
QUIET
If you're not looking at it you don't know it's running!

PRECISE
XYZ motion accuracy +/- 0.02mm.

NO MAINTENANCE
Sealed, self-lubricating axes keeps dust out with a single anchor point to eliminate binding.

ONE SIZE DOES NOT FIT ALL

Autosamplers range from 12 - 108 300mL bottle capacities with unlimited batch sizes - BOD Pro software will prompt analysts via email notification to swap out racks - with 12 or 18 position racks options available. For laboratories with limited bench space, the AM430s fit on lab benches of 24 inches in depth.



*Sample transfer systems have a height of 36in/92cm.

AM400	12 Place Racks	N/A	36 (3 Racks)	60 (5 Racks)	84 (7 Racks)	108 (9 Racks)
	18 Place Racks	18 (1 Rack)	36 (2 Racks)	54 (3 Racks)	72 (4 Racks)	90 (5 Racks)
AM430	12 Place Racks	12 (1 Rack)	24 (2 Racks)	36 (3 Racks)	48 (4 Racks)	60 (5 Racks)

Customizable racks options available to accommodate any bottle size.

"...built like a tank!"

- A MANTECH Customer

SELECT YOUR AUTOMATION LEVEL

MANTECH systems can be configured to automate as much or as little of the biochemical oxygen demand analysis process freeing up analyst's time and generating efficiencies for your laboratory.

SAMPLE PREPARATION

MANTECH's BOD systems can automate dilution water, seed and/or inhibitor (ATU) addition using

Peristaltic pumps (IntelliPeri™)
for dilution water and inhibitor (ATU) addition

- Software-controlled calibrations and flow rate/direction
- Precision +/-1%
- Flow rate: 12.5 to 860 mL/min *(clockwise & counterclockwise)*



Dosing Pump (IntelliDose™)
for seed addition

- Precision +/-0.2%



Syringe-based (buret) pump also available for sample preparation.

pH ADJUSTMENT & DECHLORINATION

As per SM 5210B 23rd edition, if pH is not between 6.0 - 8.0, then the sample must be adjusted to pH between 6.5 - 7.5. Samples with residual chlorine must be dechlorinated. MANTECH offers benchtop and autosampler options to measure and/or adjust samples while recording the data.

pH & Chlorine Measurement Meter



pH Adjustment & Dechlorination Meter



Automated pH Adjustment & Dechlorination



SAMPLE TRANSFER

MANTECH automates pipetting field samples into dilution bottles with IntelliDose™, a patented piston-based pump to deliver precise aliquots without clogging.

- Add automated pH adjustment and/or dechlorination
- No syringes, valves, sample loops or levelling required
- Flexible configuration
- Use autosampler for additional analyses (pH, alk, EC, etc.) during downtime
- Customizable racks for field bottles

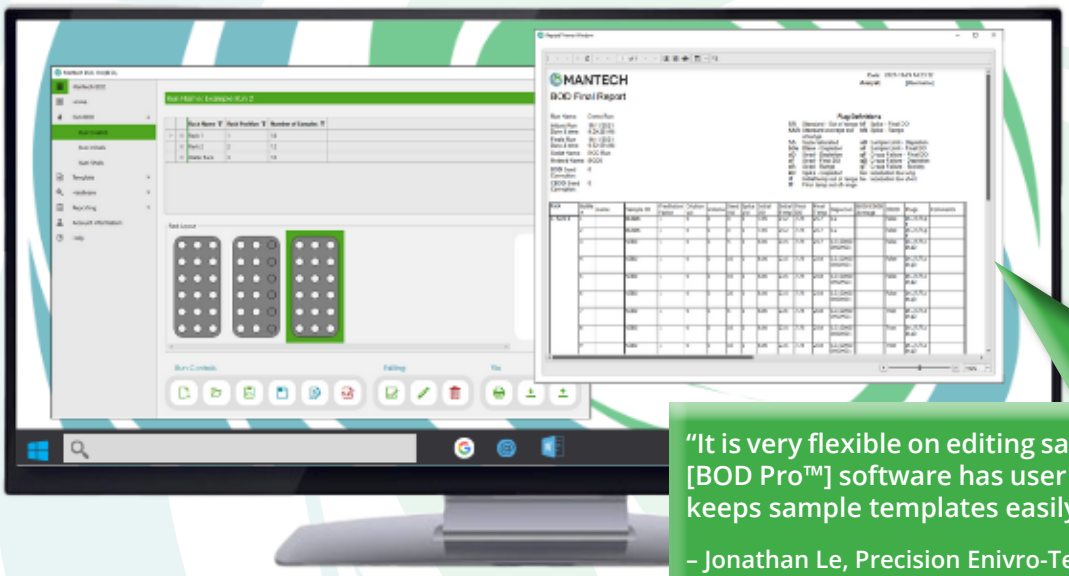


SAMPLE TRANSFER with pH Adjustment & dechlorination

BOD ANALYSIS

BOD PRO™ SOFTWARE

The MANTECH designed and coded BOD Pro™ software is easy to use and is designed to comply with user protocol requirements, while allowing user-defined flexibility.



"It is very flexible on editing sample ID's and prep batches. [BOD Pro™] software has user friendly configurations and keeps sample templates easily using the excel function. "

– Jonathan Le, Precision Enivro-Tech

ENSURES COMPLIANCE

- Tracks incubations periods
- Performs all calculations to conform with standard method requirements

USER–FRIENDLY INTERFACE

- Shortcut buttons for routine runs, PM and more
- Visual rack layout
- Use familiar Excel functionality for run set-up

AGNOSTIC TO ANY LIMS

- Full import and export capabilities
- Report editor add 10 user-defined data columns

SAFEGUARD YOUR DATA

- Designed for WIN 10 & 11 Pro OS
- Account permissions for each analyst

MULTILINGUAL FUNCTIONALITY

- Alternate between any language

MULTITASKING CAPABILITY

- Access all functionality during a run





MANUAL BOD5 FOR ONLY $2,490USD

Manually prepare dilutions and place DO probe in bottles and BOD Pro™ software will take care of the rest!

- Reporting
- Calculations
- Bottle/incubation tracking

HIGHLY CONFIGURABLE

MANTECH systems are designed to grow with your laboratory's changing demands with additional features and automation to be upgraded at any time.

MULTIPLE PROBES

Single, dual, triple or six probe options:

- *Up to x3 bottles at a time with sample preparation*
- *DO read only up to x6 bottles at a time only with AM500 robots*



QC RACK

Keep your racks available for more dilutions with a separate QC rack for:

- GGA's
- Blanks
- Probe park



BARCODE SCANNER

Integrate a barcode scanner to BOD Pro software to keep track of your dilutions.



10-MINUTE BOD ESTIMATOR

MANTECH's patented BOD estimator delivers results in 10-minutes or less which enables operators to:

- **Reduce the number of dilutions for samples with little to no historical data**
- **Get results back to engineers to make informed treatment decisions with confidence**
- **Ensure valid final BOD5 results for all samples**



WHY MANTECH

TRUSTED WORLDWIDE

With 3,500+ analyzers in the market, MANTECH systems are trusted to produce more than 670,000 results every day that protect public health and the environment.

SUPPORT

MANTECH offers several options:

- Context sensitive GIFs and instructions built into software
- On-Demand virtual support
- In-person visits with MANTECH Technical Representatives or distributors

END-TO-END MANUFACTURER

MANTECH develops and manufactures all hardware and software as a single source provider.

IOT CONNECTIVITY

All MANTECH system components feature IoT connectivity via USB or ethernet/IP connection for bi-directional communication with the software.

DUAL TITRATION CAPABILITY

MANTECH's BOD systems can be configured to add titration and multi-parameter functionality (pH, EC, alkalinity, etc.) in the same platform.

LEARN MORE

MODULAR DESIGN

The modular design allows for MANTECH systems to be highly configurable and plug-and-play for system upgrades and troubleshooting.

MANTECH

OPTIMIZE YOUR RESULTS. PROTECT OUR ENVIRONMENT.

5473 HIGHWAY 6 NORTH
GUELPH, ONTARIO, CANADA
N1H 6J2

WWW.MANTECH-INC.COM
INFO@MANTECH-INC.COM
+1 (519) 763-4245
+1 (866) 763-2122

@mantech_inc
linkedin.com/company/mantech-inc-

© 2026 MANTECH. All rights reserved.
PeCOD® is a registered trademark of MANTECH.