



# SmartBlock II

**METALS DIGESTION BLOCK**

## DIGESTION BLOCK

Fast, simple and reproducible digestions for trace metals, TN, TP

- ▶ Economical
- ▶ Low Maintenance
- ▶ Time Saving
- ▶ Rugged Construction

Suitable for EPA

Approved Methods:

3005, 3010, 3050A, 3050B, 200.2, 200.7, 200.8, 7470A, 7471A, 245.1, 1631, 245.7 and more!

### ALSO AVAILABLE

**SmartBlock II Plus** with programmable controller to automate your digestion procedure

**Save multiple programs for higher efficiency!**

# SmartBlock II



**Compact, easy-to-use bench top heating block, ideal for labs with limited space.**

## USER FRIENDLY AND ECONOMICAL

- Large easy to read LED displays current set temperatures
- Use the supplied digestion tubes for normalization and eliminate the need for digestion beakers, volumetric flasks, graduated cylinders storage containers, etc.
- Take the digestion tubes straight from the SmartBlock to your ICP or other analyzer
- A large range of accessories gives you complete flexibility

## EFFICIENT

- Up to 96 simultaneous sample digestions
- Fast & uniform heat distribution-from ambient to 180° C
- Evenly heats the digestion tubes on both the sides and the bottom to ensure optimum heat transfer
- Temperature stability eliminates the need to move individual digestion tubes to a more favorable position

## DURABLE AND SAFE

- Solid graphite heating block allows for maximum heat transfer from heater base to digestion tubes and eliminates corrosion and sample contamination
- Rugged Teflon coating resists highly corrosive acids
- Corrosion proof external temperature probe
- Built in safety features protect both operators and samples including:
  - Over temperature cut out to protect samples
  - Integrated temperature controller
  - Isolated electronics
  - Temperature lock-the last temperature set will be remembered, even if turned SmartBlock is turned off

*SmartBlock II can significantly reduce sample volume, chemicals, digestion time, and power consumption*

**Ideal for trace metal digestions of**

Soils • Sludges • Drinking Water • Wastewater  
Biological Samples and Tissues • Foods  
Animal Foods • Nutritional Supplements

## SIMPLER & SAFER DIGESTIONS

Extra racks allow you to weigh sample directly into the digestion tubes. The racks can be transferred directly to the SmartBlock II. After digestion the rack can be used for cooling. Extra racks facilitate batch handling of samples and digestion tubes.

## ACCESSORIES



### Standard 50ml Vials

- Polypropylene
- Graduated
- Available in 15mL, 50mL, or 100 mL



### PTFE Digestion Tubes

- Designed for more strenuous digestions
- Can be heated up to 200° C

- ▶ High Temperature Racks    ▶ Extra Racks  
▶ Standard Vial Caps    ▶ Reflux Caps    ▶ Watch Glasses



PLEASE VISIT  
[www.seal-analytical.com](http://www.seal-analytical.com)

or contact your local SEAL Analytical representative about your specific application.

## TECHNICAL SPECIFICATIONS

### Dimensions

13" H x 26" W x 7" D

### Weight

57 lbs | 25.85 kg

### Voltage

110 or 240 VAC

### Power

15A at 110/115 V

### Heating Block Material

Teflon coated graphite

### Temperature Range

Ambient - 180°C with  
PTFE Digestion Tubes

Ambient - 135°C with  
Polypropylene Digestion Tubes

### Temperature Display

Integrated LED, displays  
current and set temperature

### Configurations

60 tubes / 50ml (standard)

96 tubes / 15ml

36 tubes /100ml

### Digestion Tube Options

Accommodates flat bottom  
digestion tubes (standard)

Accommodates conical  
bottom digestion tubes  
(optional, must be specified)

### Custom Digestion Tubes

Application specific  
digestion tubes accepted

### Warranty

1 Year (excludes consumables)

## Colorimetric Nutrient Analyzers

### DISCRETE ANALYZERS



**AQ270**



**AQ300**



**AQ400**

### SEGMENTED FLOW ANALYZERS



**AA100**



**AA500**



**AA3**



**QuAAtro39**

## 50 Years' Experience in Environmental Analysis Built into Every Analyzer

50 years' experience in designing, developing and manufacturing automated wet chemistry analyzers specifically for very low detection levels in environmental applications has helped SEAL to apply the most useful, easy to use features into the SEAL range of Discrete and Segmented Flow analyzers. The SEAL analyzers are widely acknowledged as the best for environmental analysis, giving you everything you need to achieve equal or superior results to the manual and approved laboratory methods the SEAL analyzer replaces.

SEAL Analyzers are monitoring environmental samples in every corner of the globe. They are manufactured in the USA, Germany and the Netherlands. Engineering and chemistry support is provided from SEAL global facilities in USA, Germany, England, the Netherlands and China along with a worldwide network of specialist distributors.

### COMPREHENSIVE SUPPORT

We offer comprehensive applications, technical service and software support.

#### INCLUDING

- ▶ A choice of preventative maintenance and service contracts to meet your specific requirements
- ▶ In-house and online training
- ▶ Guaranteed availability of genuine consumables and spare parts
- ▶ Adaptation of methods to specific requirements such as matrix, range or detection limit
- ▶ Continuous in-house development of software to incorporate new customer requested features

## Robotic Handling Systems

SEAL Robotic Minilab systems for automating sample (pre) treatment in the laboratory – improving your sample handling efficiency. Typical applications include BOD, pH, COD, Alkalinity, and conductivity measurements with options such as decapping/capping, sample splitting, and filtration. Call us about your laboratory needs and we will design a robot to suit you.



**SEAL Minilab 1200**

## Digestion Systems

### FOR METALS AND TKN, TP DIGESTION



**BD50**



**SmartBlock II**



**DEENA 3**

**SEAL Analytical**



[www.seal-analytical.com](http://www.seal-analytical.com)

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