



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

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

SEAL Analytical is a global company with offices worldwide - contact us at:

SEAL Analytical, Inc.
6501 West Donges Bay Road
Mequon, WI 53092
United States
Tel: +1 (262) 241 7900
Fax: +1 (262) 241 7970
sales@seal-us.com

SEAL Analytical Ltd.
3 Talisman Business Centre
Duncan Road
Park Gate
Southampton, SO31 7GA
United Kingdom
Tel: +44 (0) 1489 864 400
sales.uk@seal-analytical.com

SEAL Analytical Netherlands
ROHASYS BV
Provincienbaan 4
5121 DL Rijen
The Netherlands
Tel: +31 161 240152
Fax: +31 161 240153
info@rohasys.com

SEAL Analytical GmbH
Werkstrasse 5
D-22844 Norderstedt
Germany
Tel: +49 (0)40 60 9292 9-00
Fax: +49 (0)40 60 9292 9-02
info.germany@seal-analytical.com

SEAL Analytical Shanghai
Room 413, 12th Building,
No. 128 Xiangyin Road,
Shanghai, 200433
China
Tel: +86 21 3362 5002
Fax: +86 21 3362 5002

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