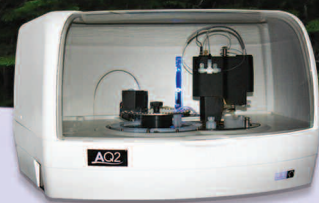


AA3

QuAAtro

AQ1

AQ2



COMPREHENSIVE SUPPORT

We offer comprehensive applications, technical service and software support before and after installation and training.

INCLUDING

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

RELATED PRODUCTS

AA3 and **QuAAtro** are high performance, fully automated instruments, that use the principle of segmented flow analysis to achieve high throughput, high reproducibility and low detection limits.

AACE software is a common platform for both the AutoAnalyzer 3 HR and QuAAtro series and is intuitive and flexible.

AQ1 and **AQ2** are flexible analyzers that uses the principle of discrete analysis where each test occurs in a separate or discrete reaction vessel.

Discrete analysis is complementary to segmented flow analysis and many laboratories use both techniques. The AQ1 and AQ2 are ideal when many and varied tests are needed on different samples.

SEAL's enhanced computer controlled BD50 digestion block, is especially suited to Total Kjeldahl Nitrogen and Phosphorous methods. Reproducible results are ensured as it is made from solid aluminum with a heating grid for even heating across the whole block. Please see our detailed brochure for further information.



www.seal-analytical.com

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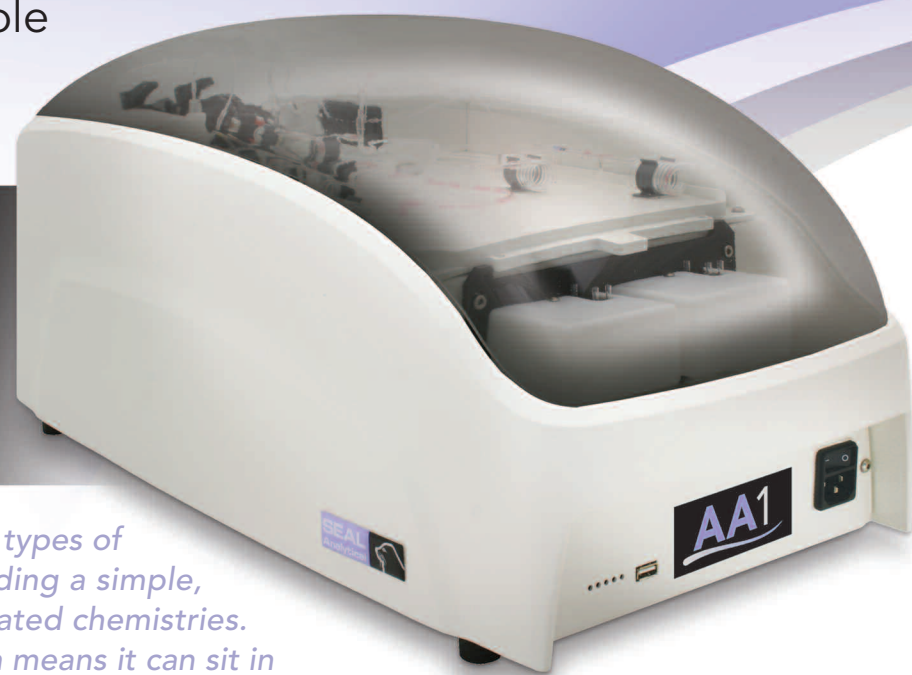
**Compact
 Sleek Design
 Simple to use
 Low cost per test**

AA1
 NEXT GENERATION
 SEGMENTED FLOW ANALYZER

A new generation of flow analyzers from SEAL – focusing on simplicity of use

The AA1 is designed to be a sleek system that is reliable and simple to use.

AA1



The dual channel AA1 is ideal for all types of water analysis for laboratories needing a simple, uncomplicated system to run dedicated chemistries. Its light weight and compact design means it can sit in any orientation on the bench.

USEPA, ASTM, ISO

and other international regulatory compliant methods are available.

APPLICATIONS INCLUDE

Water & Wastewater
Drinking Water
Soil & Plants

PARAMETERS INCLUDE

Ammonia
Phosphate
Nitrate+Nitrite
Nitrite
Total Nitrogen
Total Phosphorous
Chloride

HOW DOES THE AA1 WORK?

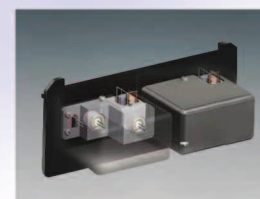
A basic SFA system consists of an autosampler, a peristaltic pump, a chemistry manifold, a detector and data acquisition software. Sample and reagents are pumped continuously through the chemistry manifold. Air bubbles are introduced at regular intervals forming unique reaction segments which are mixed using glass coils. Glass is ideal, as it is inert, stays clean and enables easy visual checks.

In SFA, all reactions run to completion. The ratio of sample to reagents in the detector reaches a constant maximum value – the steady-state condition. This ensures maximum sensitivity resulting in lowest detection limits and exceptional reproducibility. Variations in reaction time, temperature and sample matrix do not affect the results as they do in other colorimetric techniques, such as flow injection analysis, where the reaction is not brought to completion.

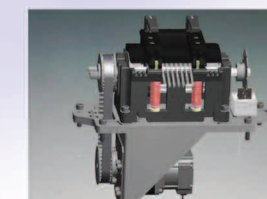
- ▶ **As a market leader**, SEAL has over 1,000 applications available and under continual development. Markets include water, wastewater, soil, plant, fertilizer, food and beverage. Please contact us for your specific application.

The new AA1 Segmented Flow Analyzer is a fully automated instrument designed specifically for environmental and industrial testing laboratories.

ADVANTAGES AND BENEFITS



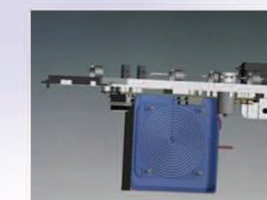
The unique AA1 digital photometer provides high sensitivity, wide dynamic ranges and low detection limits. LED light sources are used.



The high quality multi-speed metal pump ensures regular reproducible dosing of liquid.



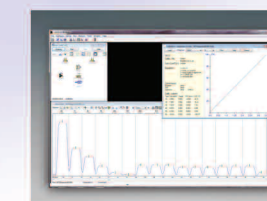
The chemistry manifold is comprised of close-tolerance glass components, which are chemically inert and allow for easy visual check of operation.



The new, unique software controlled heating unit provides consistent even heating, ensuring stable results



The AA1 carousel sampler is robust and simple to use. Samples can be added at any time during the run.



Instrument control and data acquisition is carried out through the intuitive, easy to use AACE Lite software package.

DIMENSIONS

610 mm
x
295 mm
x
290 mm (h)

WEIGHT
only 13 kg

OTHER FEATURES

- ▶ **Compact design** – small footprint
- ▶ **Up to 2 channels per system**
- ▶ **Simplified tubing** – easy to use
- ▶ **Intuitive software** – easy to learn
- ▶ **Add samples once run has started**
- ▶ **Up to 120 tests per hour**
- ▶ **Low cost per test**



PLEASE VISIT

www.seal-analytical.com

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