



AQ300

DISCRETE ANALYZER FOR ENVIRONMENTAL TESTING

AQ300 is a low cost flexible analyzer that uses the principle of discrete analysis where each test occurs in a separate or discrete reaction vessel.



AQ300 is ideal for laboratories with smaller workloads requiring varied tests on different samples and when individual results are needed immediately.

AQ3

USEPA, ASTM, ISO

and other international regulatory compliant methods are available.

METHODS INCLUDE

Alkalinity Ammonia Chloride Cyanides Nitrate/Nitrite Nitrite Phenol Phosphate, ortho Phosphorus, total Silicate Sulfate Total Kjeldahl Nitrogen

HOW DOES THE AQ300 WORK?

The AQ300 robotic sampling arm works in conjunction with a stepper motor-driven syringe that is responsible for aspirating, dispensing and mixing accurate and precise quantities of sample and reagent in miniaturized test tubes called reaction wells.

The sample and reagents are incubated in heated reaction wells until reaction is complete. A single aliquot is then transferred into a 10mm pathlength optical glass cuvette. The absorbance is read on the stationary reactant to ensure the best possible signal to noise ratio.

Each sample is read is the same position in front of the detector in the 10mm glass cuvette, similar to SEAL colorimetric flow systems, known for their high reproducibility and lowest detection limits. This eliminates issues of reaction well variability and scratching found in direct read discrete systems so improves reproducibility. In the SEAL AQ series, liquid is moved not the tray - fewer moving parts equals higher reliability.

Once the absorbance is read, the glass cuvette is thoroughly cleaned and checked, ensuring no carryover or cross contamination.

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. AQ300 – The latest in discrete analyzer technology Designed by chemists for chemists.

ADVANTAGES AND BENEFITS



~ QCPro™ Data Quality System - allows the user to specify QC types, limits

and corrective actions

or contact your local SEAL Analytical

www.seal-analytical.com

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representative about your specific application.



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.

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

FOR YOUR SAMPLE PREPARATION — BLOCK DIGESTION : TKN, METALS

SEAL's enhanced computer controlled **BD50** digestion block is ideal for speeding up the acid digestion process for soils, water samples and food products. It is especially suited to Total Kjeldahl Nitrogen and Phosphorous methods. The solid aluminium heating grid delivers even heating across the whole block and ensures reproducible results. Please see our detailed brochure for further information.



www.seal-analytical.com

THOMAS CAIN (a SEAL Analytical brand) manufactures automated sample preparation and digestion systems for the analysis of trace metals for environmental laboratories. From the **SmartBlock** – a simple manual digestion block - to the **DEENA** acid digestion system, that fully automates the sample preparation and digestion for EPA and other laboratory methods.



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