AGRICULTURE

ASTORIA-PACIFIC

Quality Testing at its Best!

Agricultural laboratories face numerous challenges when it comes to accurately measuring nutrients and ions in soils, plants, feeds, fibers and/or surface waters. Concentrations of these analytes can vary greatly; and sample preparations, using different extraction solutions and digestion procedures, may cause additional problems for the subsequent analyses. Moreover, the number of tests to be run per day may be overwhelming.

Astoria-Pacific's bench-top analyzers have been designed to assay various concentrations of nutrients/ ions in samples. Our methods can accommodate the wide range of extraction and digestion procedures established by the AOAC. And our rates of analysis will make quick work of your mounting sample loads.

Call us today! Our friendly and knowledgeable Sales and Technical Support staff will help you configure an analyzer that your lab can use to monitor your samples quickly, accurately and at a lower cost per test.

Common Methods The Astoria Analyzer is capable of performing several hundred tests. Those of particular interest to agricultural laboratories are listed below; EPA and ASTM Methods for segmented flow analysis are denoted in Green.

Test	Overall Range	Method
Ammonia	0.001 - 2000 mg/L	Phenolate or Salicylate
Boron	0.05 - 90 mg/L	Azomethine
Calcium	Contact Astoria-Pacific	Complexone/AMP or Flame Photometry
Chloride	0.05 - 1000 mg/L	Mercuric Thiocyanate
Lithium	Contact Astoria-Pacific	Flame Photometry
Nitrate	0.0005 - 100 mg/L	Cd reduction, single reagent, SAN/NED
Orthophosphate	0.0005 - 200 mg/L	Single reagent, Molybdate
Potassium	1 - 2500 mg/L	Flame Photometry
P2O5	0.01 - 0.32 dag/L or 2 - 100 mg/L	Single reagent, Molybdate
Protein (as Nitrogen)	6 - 320 mg/L	Phenolate or Salicylate
Selenium	0.1 - 10 ug/L	Fluorometric
Silicate	0.5 - 300 mg/L	Ammonium Molybdate/SnCl2
Sodium	1 - 2500 mg/L	Flame Photometry
Total Dissolved Nitrogen	0.1 - 10 mg/L	UV digest., Cd reduction, SAN/NED
Total Kjeldahl Nitrogen	0.05 - 80 mg/L	Phenolate or Salicylate
Total Phosphorus (TK)	0.01 - 100 mg/L	Two reagent Molybdate
Total Phosphorus (Per)	0.001 - 20 mg/L	Two reagent Molybdate

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Required Bench-top (Operational) Space

2 channel unit: 11.25 inches W x 17.25 inches D x 10 inches H (28.6 cm W x 43.8 cm D x 25.4 cm H)

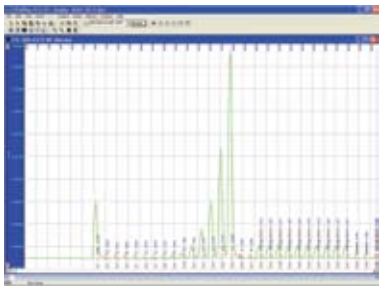
3 - 6 channel unit: 22.5 inches W x 17.25 inches D x 10 inches H (57.2 cm W x 43.8 cm D x 25.4 cm H)

Key Features of FASPac II, data acquisition software

- Timed events: pump, heat bath, lamp control
- Real time Sample Table correction
- Peak markers/ID's on real time signal plot
- Calibration Wizard for online standards prep*
- Bi-directional LIMS communication
- Export/Import of reports and Sample Tables
- Pseudo channels for analytical corrections/calculations
- Ability to add samples during a run

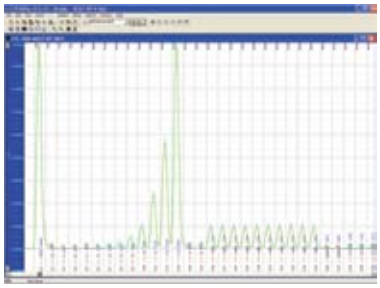
*NOTE: Diluter module required

Ammonia



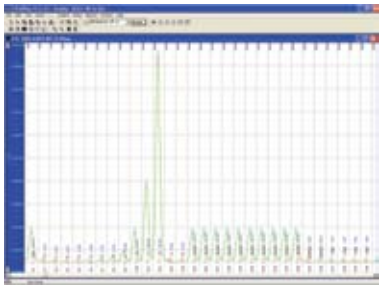
Range = 0.1 - 20 mg/L (as N)
MDL = 0.02 mg/L (as N)
Analysis rate:
60 samples/hour

Nitrate



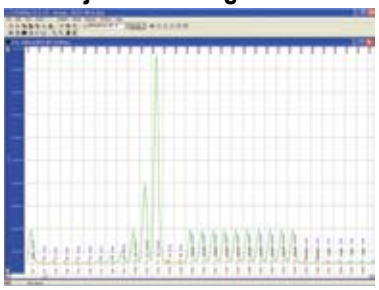
Range = 0.05 - 40 mg/L (as N)
MDL= 0.001 mg/L (as N)
Analysis rate:
72 samples/hour

Orthophosphate



Range = 0.2 - 200 mg/L (as P)
MDL = 0.02 mg/L (as P)
Analysis rate:
60 samples/hour

Total Kjeldahl Nitrogen



Range= 0.2 - 80 mg/L (as N)
MDL= 0.02 mg/L (as N)
Analysis rate:
60 samples/hour

We hope you understand our commitment to excellence. By choosing Astoria-Pacific International, you not only gain a compact, robust, reliable analyzer but also gain the best Customer Service and Technical Support teams in the industry. Whether it is showing you how to run the system for the first time, giving you pointers on the best ways to maintain system performance, making sure you have the supplies necessary for uninterrupted operation, or helping you push your detection limits, Astoria-Pacific is dedicated to making sure that your needs are met. Essentially, by choosing Astoria-Pacific, you are choosing the Best!

Astoria-Pacific™
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