



Environmental Testing at its Best!

Oceanographers demand excellence. Whether it is a deep sea submersible capable of operating at bone-crushing depths, a ship big and dependable enough to withstand the most extreme conditions at sea, or a robust, state-of-the-art automated analyzer for nutrient analysis, these scientists' requirements are constantly pushing the limits and raising the bar for suppliers to their industry.

Astoria-Pacific International, a leading manufacturer of automated analyzers, tackles this demand head on, constantly working with our customers to provide the best solutions. For instance, our ultra low level orthophosphate method in seawater has a working

range of 0.02 - 3.0 μM (as P), a calculable MDL of 0.0012 μM (as P) and runs at 42 samples per hour -- thereby maximizing your lab's performance capabilities.

Our FASPac™II software is easy to use, provides reports in spreadsheet format and offers internal QC programming, thereby ensuring that your results are consistently accurate. Optional fluorometric methods are available, allowing you to monitor Ammonia, Nitrate and/or Nitrite without dissolved salt concentrations having an adverse affect.

Ultra Low Level Ranges and MDL's in Brackish Water or Seawater on the Astoria Analyzer

Nitrite:	0.02 - 2.0 μM (as N), MDL: 0.007 μM (as N)
Nitrate:	0.05 - 7.5 μM (as N), MDL: 0.016 μM (as N)
Orthophosphate:	0.02 - 3.0 μM (as P), MDL: 0.0012 μM (as P)
Ammonia:	0.05 - 5.0 μM (as N), MDL: 0.030 μM (as N)
Silica:	0.05 - 5.0 μM (as Si), MDL: 0.0045 μM (as Si)
Urea:	0.05 - 5.0 μM (as Urea), MDL: 0.013 μM (as Urea)

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)

Expected Total Sample Volume Used in seawater / brackish water analyses

1 Channel:	0.489 mL - 0.929 mL	4 Channel:	2.565 mL - 3.104 mL
2 Channel:	1.124 mL - 1.698 mL	5 Channel:	3.299 mL - 3.715 mL
3 Channel:	1.796 mL - 2.432 mL	6 Channel:	Maximum of 4.228 mL

Optional Methods for seawater / brackish water samples

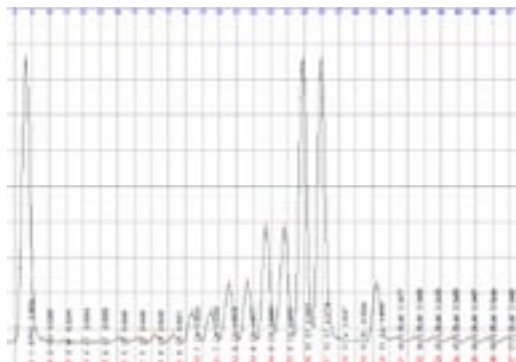
Ammonia by Fluorometry	Nitrate by Fluorometry	Nitrite by Fluorometry
0.05 - 5 μM (as N)	0.05 - 5 μM (as N)	0.05 - 5 μM (as N)
MDL: 0.007 μM (as N)	MDL: 0.006 μM (as N)	MDL: 0.006 μM (as N)

Key Features of FASpac II

- 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^
- Bidirectional LIMS communication
- Export/Import reports/sample tables
- Pseudo channels for analytical corrections/calculations
- Ability to add samples during a run

^NOTE: Diluter module required

Peak signal plot of the Fluorometric Ammonia method



Range: 0.05 - 5 μM (as N)
 Mean=0.047 μM
 SD=0.0024 μM
 RSD=4.98%
 MDL=0.007 μM
 Analysis rate: 55 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 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 prep the system for time at sea, 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!