LOAD & GO — and make flow cytometry simplicity itself
Introducing Aquios CL
...the first true LOAD & GO flow cytometer

What would it mean for your laboratory’s productivity if you could automate your most routine, repetitive tasks?

Modular flow cytometry systems, while effective for higher-complexity, labor-intensive applications, aren’t the best option for efficiently managing a high volume of routine applications for immunophenotyping such as lymphocyte subset enumeration for immunosuppressed specimens.

Modular systems have, however, been the best available option – until now.
Say hello to Aquios CL from Beckman Coulter – the first true LOAD & GO flow cytometer.

Aquios CL is easy to learn, easy to use, ideal for cross-training your lab staff, and represents a breakthrough solution to the most basic operational challenges of flow cytometry.

With Aquios CL in your lab, LOAD & GO simplicity means you can…

- **Provide a 24/7 flow cytometry service** as the Aquios CL can be run safely by minimally trained users.
- **Minimize the potential for user error** inherent in existing systems that require numerous manual steps to set up and run.
- **Increase productivity** with high-throughput performance that eliminates many of the least efficient features of existing systems.
- **Minimize hands-on time** with a fully integrated system that incorporates automated loading, sample preparation, reagent management, barcode scanning, data analysis, and full LIS connectivity.
- **Get system users up to speed in one day** with computer-based training and an application specialist site visit.
- **Allocate staff resources for maximum productivity**, putting your skilled operators where you need them most.
- **Minimize exposure to potentially biohazardous material**. The Aquios CL uses cap piercing technology which will greatly reduce your need to handle open blood tubes.
Choose Aquios CL for end-to-end speed, simplicity, and ease of use.

Within its compact footprint, Aquios CL has several features that deliver powerful performance – and true LOAD & GO ease, efficiency, and savings.

<table>
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<tr>
<th>Feature</th>
<th>Description</th>
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<tr>
<td>Full Bidirectional LIS Connectivity</td>
<td>• Automatic retrieval of test requests and transmission of test results</td>
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<td>• No need for additional workstations or software to connect to the LIS System</td>
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<td>• No need to create or download worklists manually</td>
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<td>Automated System Setup</td>
<td>• Preprogrammed protocols per application</td>
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<td>• No daily setup reagents required</td>
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<td>• No manual system or controls optimization</td>
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<td></td>
<td>• Power on, system warmup, load controls, load samples – that’s it!</td>
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<td>Smart Track Reagent Monitoring</td>
<td>• Uses a range of barcoded reagents and consumables</td>
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<td>• Automatic barcode scanning to track most reagents, lot numbers, open and closed vial expiration dates, and number of tests or volume per reagent container</td>
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<td>• Continuous tracking of reagent usage</td>
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<td>• Automatic reagent monitoring for most reagents including the number of tests remaining and warnings when reagents are low, out or expired</td>
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<td>Cassette Autoloader</td>
<td>• Total capacity 40 sample tubes</td>
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<td>• Accommodates a variety of tube sizes</td>
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<td>• Continuous, random loading and unloading</td>
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<td>• Separate single-tube loader for STAT samples, open vials, and tubes that are not barcoded</td>
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Automated Sample Preparation
- Automatic matching of sample identification code with the test request
- All sample preparation and analysis performed in 96-well microplates
- Automatic launch of applicable testing protocol
- Positive specimen ID and automatic specimen mixing immediately prior to aspiration
- Automatic dispensing and mixing of applicable reagents
- No manual pipetting or decapping of primary tubes

Pipeline Sample Processing*
- Eliminate slow, inefficient batch processing of samples
- 20 minutes to the first result after sample load (measured with Tetra-1 or Tetra-2+), and, after the first result, it’s 25 results/hour for up to one full 96-well plate (measured with Tetra Combo)
- Two multitasking probes: one for cap piercing and sample preparation, the other for aspirating prepared samples for analysis
- Each sample is analyzed as soon as it is ready
- Intelligent analysis algorithm sets all gates and regions automatically
- System flags samples that don’t meet autovalidation criteria

Real Time Sample Monitoring
- Intuitive software interface indicates the status of each sample
- Know at a glance where each sample is in the process and how much time until results are available

Comprehensive Quality Control
- Barcode tracking for most reagents means no manual QC or reagent logs
- Generate a full, easily reviewable audit trail that includes reagent traceability
- Should QC fail, operator is alerted via text message or email

*Patent Pending
The Aquios CL Breakthrough:
Fast, efficient, high throughput, hands-off flow cytometry

Learn what having true LOAD & GO flow cytometry capability can mean for your laboratory's operational and cost efficiency. Save time and money, eliminate testing backlogs, and make the most efficient use of your skilled operators.

For more information, please visit:
www.AquiosCL.com

Aquios CL System Specifications:

Dimensions:
System: W: 32” (82 cm); D: 22” (56 cm); H: 22” (56 cm)
Workstation: W: 23” (59cm); D: 5” (13cm); H: 18” (46cm)
Supply Cart: W: 21” (54cm); D: 18” (46cm); H: 16” (41cm)

Sample Loading: Autoloader holds up to 8 cassettes at a time with up to 5 sample tubes each and allows for continuous loading and unloading. A separate single-tube loader enables both open- and closed-vial sampling. Check with your Beckman Coulter representative for a list of all compatible tubes and cassette types.

Throughput: First result in approximately 20 minutes from loading (measured with Tetra-1 or Tetra-2+), subsequent results at a rate of 25 samples per hour for up to a full 96 well plate (measured with Tetra Combo).

8 Parameters: 5 fluorescence detectors plus forward scatter, side scatter, and electronic volume*. For the immune monitoring application, 4 fluorescence detectors are in use.


Computer System: All-in-one computer and monitor with touch-screen operation, plus alternative keyboard and mouse.

*The Electronic Volume parameter is used as a relative cellular characteristic (such as light scatter) for the purpose of population gating and is not reported as a specific measurement of cellular volume.

Class 1 laser product
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