

Transforming the hematology laboratory.

UniCel® DxH 800 Coulter® Cellular Analysis System

Chemistry
Lab Automation
Information Systems
Molecular Diagnostics
Immunodiagnosics
Centrifugation
Disease Management
Hematology
Hemostasis
Flow Cytometry
Primary Care





The **first step** in the
transformation journey.

Today's hematology laboratories are challenged by ever-increasing pressures to improve productivity, decrease turnaround time and reduce overall costs. The UniCel® DxH platform is designed to meet these challenges head-on and **transform** your laboratory, with ***unparalleled quality of results, innovative efficiency solutions*** and ***revolutionary scalability***.

Heralding a new era of hematology solutions, the UniCel® DxH 800 delivers the ultimate in high-definition cellular analysis. This is just the beginning of the transformation journey. Partner with us to see what the future holds.

Transforming the way you work.



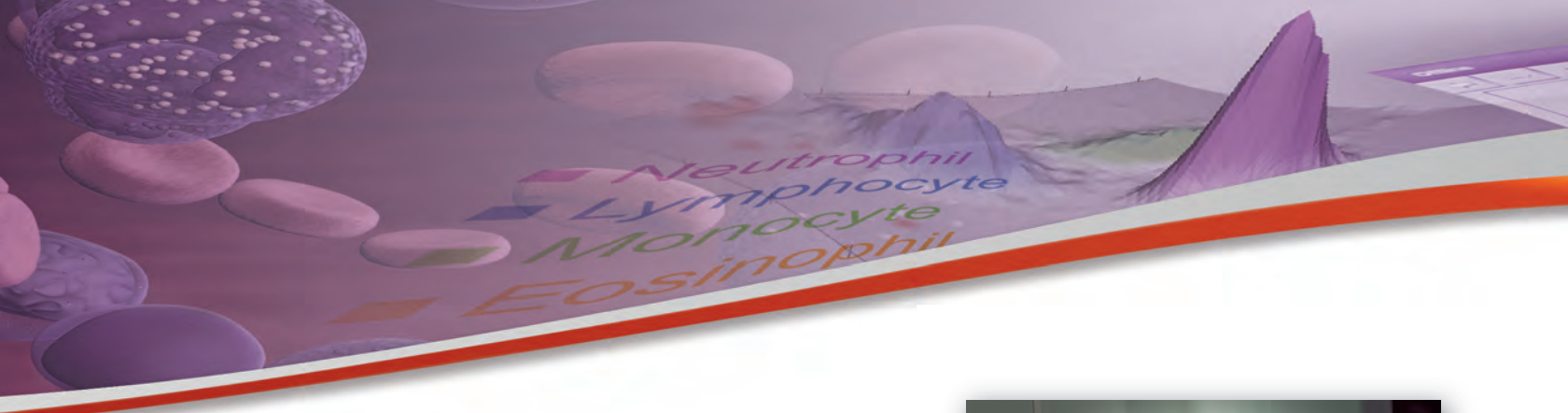
Beckman Coulter is making history once again with the introduction of the UniCel® DxH 800 Coulter® Cellular Analysis System. A perfect fit for today's LEAN Laboratory paradigm, the UniCel DxH 800 delivers results with industry-leading efficiency, requiring less effort, fewer resources and less time. The result, quite simply, is incomparable value for your laboratory.

Designed for reliability

From the ground up, the UniCel DxH 800 is engineered for dependable operation.

- Single aspiration pathway simplifies calibration and quality control process while eliminating mode-to-mode issues
- Sample Aspiration Module (SAM), with its unique design, reduces aspiration volume, especially benefitting pediatric samples

UniCel® DxH 800: The first in a new era of Beckman Coulter cellular analysis solutions.



- 2D-Digital Bar Code Technology maximizes reading capability, preventing errors and reducing misreads
- Remote Management System (RMS) increases versatility by proactively performing diagnostics with real-time troubleshooting, leading to increased instrument uptime
- Specimen Transport Module (STM) uses a unique, patented magnetic system for continuous loading of up to 20 cassettes, allowing “load ‘n’ go” capability

Revolutionary scalability

A host of innovations enables you to tailor the UniCel DxH 800 to precisely meet your laboratory’s needs. The STM provides the capability for future automation integration. This gives you the flexibility to create a workcell easily by connecting another UniCel DxH 800 for increased workload or even an integrated slidemaker/slidestainer for added functionality.

- Intelligent workload distribution optimizes workflow by achieving rapid turnaround times, providing STAT and ER results quickly
- Provides automation in a small footprint



“Load ‘n’ go” capability allows walkaway operation.

- On-board tracking, for optimal reagent management
- With its future upgradability the UniCel DxH 800 can be converted to a full laboratory workcell, providing tomorrow’s platform today

Innovative LEAN efficiency tools

From receipt of sample to reported result, the UniCel DxH 800 provides one of the leanest profiles of any analytical system in the industry. All new data acquisition technologies gather significantly more data on each cell than any previous hematology system.

- Extended decision rules promote consistent quality laboratory practices while reducing post-analytical errors and review rates
- Customizable repeat/reflex testing maximizes efficiency by automatically tracking samples, reducing retrieval time and repeating the analysis without operator intervention



The UniCel DxH 800 offers pediatric sample capability.

- The UniCel DxH 800 shares the same user interface as the UniCel DxH and UniCel DxL systems, reducing the training needs of your generalist
- Intelligent Quality Monitoring (IQM) promotes confidence in results by allowing real-time monitoring and avoiding process variances

Exceptional quality of results

With numerous new patents granted or in process, the UniCel DxH 800 platform is built on a host of new and proprietary technologies designed to increase accuracy, precision, sensitivity and specificity.

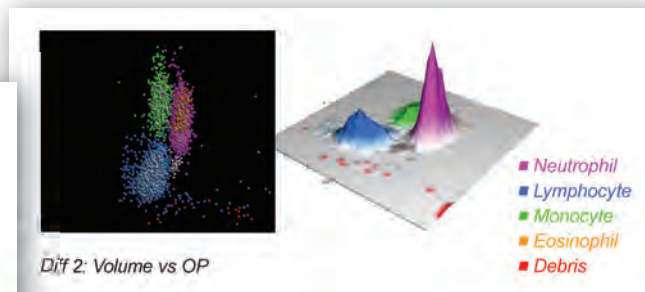
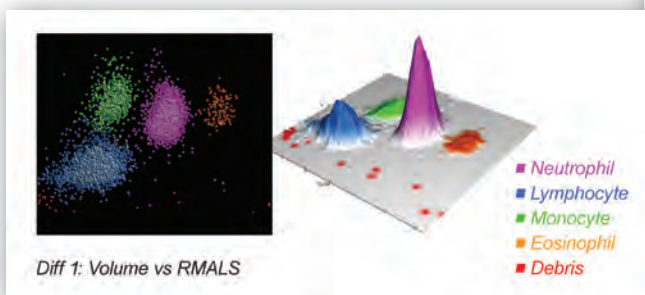
- High Definition Cellular Analysis on the UniCel DxH 800 provides four times greater resolution and achieves new levels of performance
- Flow Cytometric Digital Morphology (FCDM) optimizes performance by providing 10 times more data per sample than existing technologies, allowing reduced review rates
- With its multi-angle scatter technology, onboard reagents and new advanced algorithms, the UniCel DxH 800 provides an unrivaled NRBC, with no need for special or expensive stains
- Using its data fusion capability, the system will correct for most of the common interferences in today's laboratory, ensuring first-pass accuracy and efficiency



User interface was designed to minimize training requirements.

The UniCel DxH 800 is a complete testing solution that improves patient care and lab productivity, while eliminating unnecessary work. Plus, it's backed by the award winning, world-class service and support of Beckman Coulter.

To learn how the UniCel DxH 800 can transform your laboratory for a new era of cellular analysis, contact your Beckman Coulter representative.



Flow cytometric digital morphology optimizes performance.

UniCel® DxH 800 Coulter® Cellular Analysis System Specifications

Available Test Menu

CBC	WBC, UWBC, RBC, HGB, HCT, MCV, MCH, MCHC, RDW, RDW-SD, PLT, MPV
Differential	NE, LY, MO, EO, BA, NRBC, NE#, LY#, MO#, EO#, BA#, NRBC#
Retic	RET, RET#, MRV, IRF
Body Fluids (Spinal, Serous and Synovial)	TNC, RBC

Throughput

Up to 100 samples/hr

Aspiration Volumes

Open/Closed Vial 165 µL

Power

90–264 VAC and 48–62 HZ

DxH 800 System with System Manager and printer draws 1,185 watts

DxH 800 System with System Manager, printer and UPS draws 2,390 watts

Weight and Dimensions

	Depth	Width	Height	Weight
Specimen Processing Module	78.7 cm (31.0 in)	76.2 cm (30.0 in)	96.5 cm (38.0 in)	~ 117.5 kg (260 lb)
Pneumatic Supply	51.0 cm (20.0 in)	21.6 cm (8.5 in)	36.8 cm (14.5 in)	~ 18.4 kg (40.5 lb)
Optional Floor Stand	78.7 cm (31.0 in)	76.2 cm (30.0 in)	83.8 cm (33.0 in)	~ 125.6 kg (277 lb)

Whole Blood Performance – Measuring Range

WBC	0.000 – 400.000 X 10 ³ µL
RBC	0.000 – 8.500 X 10 ⁶ µL
HGB	0.00 – 25.50 g/dL
MCV	50.00 – 150.00 fL
PLT	0.0 – 3,000.0 X 10 ³ µL
NRBC	0.00 – 600.00/100 WBC
Retic	0.000 – 30.000 %

Data Management

Computer	Microsoft* Windows* XP
Database	40,000 Patient results with Graphics
Quality Assurance	QC with Levy-Jennings Graph, XB/XM for Moving Averages, Daily Check, Intelligent Quality Monitoring

Sample Transport Capabilities

Capacity	20 five-tube cassettes
Bar Codes	Digital Bar Code with 2D Bar Code capability
Sample ID	Up to 22 characters

*Microsoft and Windows are trademarks of Microsoft Corp.

www.beckmancoulter.com/DxH



Optional floor stand helps organize consumables and makes changing reagents easy.



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