

Performance. Capacity. Simplicity.

## UniCel® DxC 600 Synchron® Clinical System

General Chemistry

Lab Automation

Information Systems

Immunodiagnosics

Centrifugation

Molecular Diagnostics

Disease Management

Hematology

Hemostasis

Flow Cytometry

Primary Care



Lab professionals today must meet the demands of an ever-growing workload with shrinking resources, both human and financial. Beckman Coulter can help your lab stay on top of these challenges with the next generation – the UniCel® DxC 600 Clinical System.

With an **onboard capacity of 65 reagents**, the DxC 600 offers:

- A peak throughput of **990 tests per hour**, perfect for labs that process 100 – 500 chemistry tubes per day.
- Enhanced user **software that's very intuitive and easy to learn**.
- Low maintenance requirements – **no daily maintenance** and minimal weekly maintenance.
- Optional **closed-tube sampling capability to enhance your laboratory's performance**, while reducing exposure to biohazards and the potential for errors.

Plus, you can take advantage of many more features designed to help you deliver accurate test results, when they are needed.



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# UniCel® DxC 600 Specifications

## Measurement Principles

ISE (Ion Selective Electrode)  
Colorimetric  
Glucose Oxygen Sensor  
Immuno-turbidimetric  
CEDIA\*  
Enzyme Immunoassay  
Rate  
Endpoint

## Detection Systems

Cartridge chemistry detector:  
Type: Multi-wavelength, diffraction grating spectrophotometer  
Light source: Pulsed xenon lamp  
Detector: Diode array for 340, 380, 410, 470, 520, 560, 600, 650, 670, 700 nm wavelengths

NIPIA detector (PRO option):  
Type: Light emitting diode  
Detector: Photo diode array for 940 nm wavelength

Modular detectors:  
5 ISE  
1 Electrochemical

## Throughput

990 tests/hour maximum  
6 critical care chemistries in 42 seconds  
(CA, CL, CO<sub>2</sub>, GLU, K, NA)

## Reaction Carousel Temperature

Cuvette chemistry methods:  
37°C (± 0.2°C)  
Other module temperatures:  
37°C  
ISE methods:  
ambient room temperature

Cartridge Reagent Compartment Temperature  
+2°C to +8°C

## Reagent Capacity

65 methods simultaneously on board  
59 cartridge chemistries  
5 ISE chemistries  
1 modular chemistry

## Chemistry Menu Capacity

> 100 preprogrammed, bar-coded methods currently available  
On-board data storage for 100 user-defined methods

## BarCode Reagent Features

Automatic tracking of:  
Number of tests  
Available tests  
Expiration date  
Lot number  
Calibration expiration

## Calibration Types

Single-point, 2-point, multi-point  
Linear and non-linear models  
(chemistry method dependent)

## Sample Management/Capacity

56 samples input queue, continuous loading  
96 samples total

## Bar-code symbologies:

Code 39 (Code 3 of 9 or SD-3)  
Code 128 (USD-6)  
Interleaved 2 of 5 (USD-1)  
Codabar (USD-4)

Sample volume as low as 3 µL  
Sample serum indices (hemolysis, lipemia, icterus assessment)  
Sample probe obstruction detection and correction

## Sample Types

Serum  
Plasma  
Urine  
CSF  
Whole blood hemolysate

## Sample Container Types

BD Hemogard\*  
Greiner\*  
Sarstedt\*

## Sample Container Sizes

Primary tubes:  
10.25 X 64 mm (3 mL)  
13 X 75 mm (5 mL)  
13 X 100 mm (7 mL)  
16 X 75 mm (7 mL)  
16 X 100 mm (10 mL)

## Closed Sample Containers (PRO option)

Hemogard  
13 x 75 mm  
13 x 100 mm  
16 x 100 mm  
Greiner  
13 x 75 mm  
13 x 75 mm non-ridged  
13 x 100 mm  
13 x 100 mm non-ridged

Sarstedt (with CTS upgrade)  
15.3 x 92 mm serum/gel in 16 x 100 mm sample rack  
15 x 75 mm serum in modified sample rack

Sample cups:  
0.5 mL, 2.0 mL

SYNCHRON Microtubes™

## Reporting Units Available

(chemistry method dependent)

Weight/Volume:  
pg/mL, ng/mL, µg/mL,  
pg/dL, ng/dL, µg/dL, mg/dL, g/dL  
mg/L, g/L

Mass/Volume:  
nmol/L, µmol/L, mmol/L

Units/Volume and miscellaneous units:  
mEq/L  
nKat/L, µKat/L  
µIU/L, IU/mL  
mIU/L, U/L, IU/L, mA, mA/min  
, nIU/dL, mIU/mL

## Communication Modes

Unidirectional, bidirectional, bidirectional with true Host Query  
RS-232C Serial

## Power and Environmental Requirements

Analyzer:  
220 VAC, nominal  
15 A at low line, exclusive of power on surge  
50/60 Hz, nominal

Computer console and monitor:  
115 VAC, 4A, nominal or 230 VAC, 2A, nominal  
50/60 Hz, nominal

Printer:  
120 VAC or 220 VAC, nominal  
50/60 Hz

Heat output (analyzer only):  
7,200 BTU/hour

Ambient operating environment:  
Ambient Temperature: +18°C to +32°C  
Relative Humidity: 20 to 85% relative, non-condensing

## Dimensions and Weight

Analyzer only:  
Height: 62 inches (157.5 cm)  
Length: 62 inches (157.5 cm)  
Depth: 41 inches (104.1 cm)  
Weight: 1573 pounds (713.5 kg) without liquids  
Zero rear clearance required

## System Console Computer

3.5 inch, 1.44 MB floppy diskette  
≥ 2.0 GB hard disk drive  
128 MB RAM  
CD-ROM

## Water Requirements

0.6 L/minute peak flow rate  
16 L/hour minimum continuous flow rate  
NCCLS Type II deionized, <10 CFU/mL

## Drain Requirements

Minimum rate of 16 L/hour  
< 36 inches (91.4 cm) above the floor

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