

General Chemistry

Lab Automation

Information Systems

Immunodiagnosics

Centrifugation

Molecular Diagnostics

Disease Management

Hematology

Hemostasis

Flow Cytometry

Primary Care

*Performance. Capacity. Simplicity.*

## UniCel® DxC 800 Synchron® Clinical System



It takes powerful technology and outstanding support to help your laboratory meet the challenges of today's fast-paced health care environment. Beckman Coulter can help your lab stay on top of its challenges with the next generation – the UniCel® DxC 800 Clinical System.

The system's **onboard capacity of 70 reagents** helps your lab consolidate workstations. Plus, the DxC 800 delivers:

- A peak throughput of 1440 tests per hour, perfect for labs that process more than 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.



ANALIS sa/nv  
Suarlée Tel ++ 32 81 25 50 50  
Gent Tel ++ 32 9 243 77 10  
mail@analisis.be

SCIENTIFIC INSTRUMENTS



# UniCel® DxC 800 Specifications

## Measurement Principles

ISE (Ion Selective Electrode)  
Conductivity Electrode  
Glucose Oxygen Sensor  
Colorimetric  
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  
2 Electrochemical  
4 Colorimetric

## Throughput

1440 tests/hour maximum  
11 critical care chemistries in 42 seconds  
(ALB, BUN, CALC, CO<sub>2</sub>, CL, CRE, GLU, PHOS, K, NA, TP, UREA)

## Reaction Carousel Temperature

Cuvette chemistry methods:  
37°C (± 0.2°C)  
Other module temperatures:  
37°C and 41°C, chemistry method dependent  
ISE methods:  
ambient room temperature

## Cartridge Reagent Compartment Temperature

+2°C to +8°C

## Reagent Capacity

70 methods simultaneously on board  
59 cartridge chemistries  
5 ISE chemistries  
6 modular chemistries

## 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

100 samples input queue, continuous loading  
140 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  
15A 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):  
7,500 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: 70 inches (177.8 cm)  
Depth: 41 inches (104.1 cm)  
Weight: 1725 pounds (782.4 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

\* CEDIA, BD Hemogard, Greiner and Sarstedt are registered trademarks of their respective owners.



SIMPLIFY • AUTOMATE • INNOVATE



Eastern Europe, Middle East, North Africa, South West Asia: Switzerland, Nyon (41) 22 994 0707. Australia, Gladesville (61) 2 9844 6000. Canada, Mississauga (1) 905 819 1234. China, Beijing (86) 10 6515 6028. Hong Kong (852) 2814 7431, 2814 0481. France, Villepinte (33) 1 49 90 90 00. Germany, Krefeld (49) 2151 33 35. Italy, Cassina de' Pecchi (Milan) (39) 02 953921. Japan, Tokyo (81) 3 5404 8424. Latin America (1) (305) 380 4709. Mexico, Mexico City (52) 55 560 57770. Netherlands, Mijdrecht (31) 297 230630. Puerto Rico (787) 747 3335. Singapore (65) 6339 3633. South Africa/Sub-Saharan Africa, Johannesburg (27) 11 805 2014. Sweden, Bromma (46) 8 564 85 900. Switzerland, Nyon 0800 850 810. Taiwan, Taipei (886) 2 2378 3456. Turkey, Istanbul (90) 216 309 1900. UK, High Wycombe (44) 01494 441181. USA, Brea, CA (1) 800 352 3433, (1) 714 993 5321.