# Performance. Capacity. Simplicity.

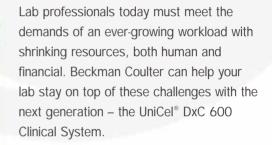
# UniCel<sup>®</sup> DxC 600 Synchron<sup>®</sup> Clinical System



Lab Automation Information Systems Immunodiagnostics Centrifugation Molecular Diagnostics

### **Disease Management**

Hematology Hemostasis Flow Cytometry Primary Care



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.





Bulletin 9487

# UniCel<sup>®</sup> DxC 600 Specifications

### **Measurement Principles**

ISE (Ion Selective Electrode) Colormetric Glucose Oxygen Sensor Immuno-turbidimetric CEDIA\* Enzyme Immunoassay Raté 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 ISF 1 Electrochemical

#### Throughput

990 tests/hour maximum 6 critical care chemistries in 42 seconds (CA, CL, CO2, 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 $+2^{\circ}$ C to $+8^{\circ}$ 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

BECKMAN

#### **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 CSE 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<sup>™</sup>

#### **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

nicq/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

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



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