

Performance. Capacity. Simplicity.

UniCel[®] DxC 600i Synchron[®] Access[®] Clinical System

General Chemistry

Lab Automation

Information Systems

Immunodiagnosics

Centrifugation

Molecular Diagnostics

Disease Management

Hematology

Hemostasis

Flow Cytometry

Primary Care



Say goodbye to exceptions and hello to increased performance with the DxC 600i Clinical System. The DxC 600i consolidates chemistry and immunoassay technologies into one efficient workstation.

- One of the largest total menus of more than 100 chemistry and 50 immunoassay tests*. Onboard capacity of 89 reagents (65 chemistry plus 24 immunoassay).
- Unique closed-tube sampling (CTS) and closed-tube aliquotting (CTA) capabilities.
- A peak throughput of 990 tests per hour for chemistry and 100 per hour for immunoassay.
- Several different detection technologies, including chemiluminescence, spectrophotometry, ion-selective electrodes and Near-Infrared Particle Immunoassay, to help ensure accurate results.
- Enhanced user software that's very intuitive and easy to learn.

From a single point of entry, the DxC 600i system will process both chemistry and immunoassay tests.

*Not all assays available in all countries.

DS-10909A



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UniCel DxC 600i Synchron Access Clinical System

Measurement Principles

ISE (Ion Selective Electrode)
Glucose Oxygen Sensor
Oxygen Depletion
Immuno-turbidimetric
CEDIA*
Bidentate
Enzyme Immunoassay-
Chemiluminescent immunoassay
Colorimetric
Enzymatic

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:
Type: light emitting diode
Detector: diode array for 940 nm wavelength
Modular detectors:
5 ISE
1 Glucose oxygen sensor
Chemiluminescent detector:
Type: single photomultiplier tube

Throughput

990 tests/hr maximum (chemistry)
100 tests/hr maximum (immunoassay)
6 critical care chemistries in 42 seconds reaction time
(Na, K, Cl, CO₂, GLU, Ca)

Reaction Carousel Temperature

Cuvette chemistry methods:
+37°C (± 0.2°C)

Cup Module Temperature

+37°C (± 0.4°C)

ISE Method Temperature

In ambient operational environment

Reagent Compartment Temperature

Chemistry cartridge: +2°C to +8°C
Immunoassay cartridge: +3°C to +10°C

Reagent Capacity

89 methods simultaneously onboard
65 chemistry methods
59 cartridge chemistries
5 ISE chemistries
1 modular chemistry
24 immunoassay methods

Chemistry Menu

> 100 bar-coded chemistry methods
> 50 bar-coded immunoassay methods†
Onboard data storage for 100 user-defined chemistry methods
Disease State Menu includes:
Adrenal/Pituitary, Allergy, Anemia, Autoimmune, Bone Metabolism, Cardiac, Diabetes, Drugs of Abuse, General Chemistry, Hepatic, Infectious Disease, Inflammatory, Lipids, Nutritional Assessment, Renal, Reproductive, Specialty, Stat, Therapeutic
Drug Monitoring, Thyroid, Toxicology, Tumor Markers

Bar-Code Reagent Features

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

Calibration Types

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

Sample Management/Capacity

72 samples in input queue, continuous loading
152 samples total

Bar-code symbologies:

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

Sample volume as low as 3 µL
Aliquot vessel capacity 550 µL, maximum
Sample serum indices (hemolysis, lipemia, icterus)
Polychromatic correction minimizes impacts from optical interferences
Sample probe/aliquot probe obstruction detection/correction

Sample Types (chemistry dependent)

Serum, Plasma, Amniotic, CSF, Urine, Blood, Saliva, Synovial

Sample Container Types and Sizes

BD Diagnostics Hemogard*
13 X 75 mm
13 X 100 mm
16 X 100 mm

Greiner Vacuette*

13 X 75 mm (4 mL), ridged and non-ridged
13 X 100 mm (7 mL), ridged and non-ridged

Sarstedt S-Monovette with CTS Upgrade*

15 X 75 mm (5.5 mL) serum/gel
15 X 92 mm (7.5 mL) serum/gel

Sample Cups:

0.5 mL, 2.0 mL

Power and Environmental Requirements

Chemistry Analytic Unit:
200-240 VAC, 14 A at low line, 50/60 Hz,
10,500 BTU/hour maximum

Chemistry Console (system and monitor):
100-120 VAC, 4 A nominal or 200-240 VAC,
2 A nominal, 50/60 Hz, 979 BTU/hour

CTA (Closed Tube Aliquotter):
100-120 VAC, 6 A nominal or 200-240 VAC,
3 A nominal, 50/60 Hz, 2,900 BTU/hour

Immunoassay Analytic Unit:
100-120 VAC, 7 A or 200-240 VAC, 3.5 A
nominal, 50/60 Hz, 2730 BTU/hour maximum

Immunoassay Console (system and monitor):
100-120 VAC, 4 A nominal or 200-240 VAC,
2 A nominal, 50/60 Hz, 979 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 in (157.5 cm)
Length: 128 in (326 cm)
Depth: 48 in (122 cm)
Weight: 2654 lbs (1206 kg) without liquids

Clearance Requirements

Side clearance: 18 in (45.8 cm)
Top clearance: 22 in (55.9 cm)
Front clearance: 25 in (63.5 cm)
Rear clearance: 0 in (0 cm)

Water Requirements

For Chemistry unit: pressurized NCCLS Type II
water with <10 CFUs/mL

Drain Requirements

Minimum rate of 16 L/hr
< 36 in (91.4 cm) above the floor

* Cedia, Hemogard, Vacuette and S-Monovette are registered trademarks of their respective owners.

† Not all available in all countries



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