

# DxC 700 AU CLINICAL CHEMISTRY SYSTEM



## INSTRUMENT SPECIFICATIONS

### Advanced solutions for long-term success

The DxC 700 AU delivers increased uptime, high reliability and precise performance to mid- to large-sized laboratories and hospitals. Its flexible design offers standalone operation or connectivity to laboratory automation systems. With throughput of up to 800 photometric tests per hour (up to 1,200 with ISEs) and 63 onboard parameters, the DxC 700 AU delivers reliability and efficiency to laboratories around the world.

- › Newly designed intuitive graphical user interface, including:
  - Simplified reagent inventory, calibration and quality control procedures
  - Online maintenance documentation
  - User-customized menu and free-text notepad
  - Color alerts to highlight system operating conditions
- › Reliability for greater uptime with quick and easy replacement of common parts
  - No special tools required
  - No more than three steps and no longer than 60 seconds for replacement of parts, such as sample and reagent probes, mixers, syringes, ISE electrodes and optical lamp
  - Extensive online help with instructional videos
- › Available integration with pre-analytical automation through direct track sampling from Power Express
- › Available connection to Command Central with REMISOL Advance, allowing access to multiple instruments and automation consoles from a single workstation, optimizing laboratory management and improving decision making
- › PROService remote diagnostic capabilities ensure 24/7 continuous monitoring of vital system functions
- › Cooled STAT compartment, providing one-button STAT interrupt, advanced auto QC and calibration capabilities
- › Ability to load reagents while the analyzer is in measure mode
- › Priority sample repeat/reflex
- › Economical ISEs with long onboard stability; easy to maintain (only individual electrode replacement required)
- › 150-sample continuous rack loader



# DxC 700 AU clinical chemistry system specifications

## MAIN SPECIFICATIONS

### Analytical system

Fully automated, random-access clinical chemistry system with STAT capability

### Analytical principles

Spectrophotometry and potentiometry

### Assay types

Endpoint, rate, fixed point and indirect ISE

### Analytical methods

Colorimetry, turbidimetry, latex agglutination and indirect ISE

### Test menu applications

I20

### Programmable tests

117 photometrics (I13 + LIH + HbA1c (Thb, HbA1c + HbA1c%)) and ISE

### Onboard parameters

60 photometric tests and 3 ISEs (Na, K, Cl)

### Throughput

800 photometric tests per hour, up to 1,200 with ISE

ISE sample throughput: 200 per hour

ISE maximum tests per hour: 600 if ISE only

### Sample types

Serum, plasma, urine, whole blood (HbA1c) and other fluids

### Sampler capacity

Rack sampler: 10 samples per rack (barcodes on primary tubes and on racks), capacity for 150 samples

Refrigerated STAT carousel: 22 samples can be run simultaneously (cal, QC and routine samples)

### Sample tubes

Primary and secondary tubes: diameter between 11.5 mm and 16 mm; height between 55 mm and 102 mm; nested micro cups

### Sample volume

1.0  $\mu$ L-25  $\mu$ L in 0.1  $\mu$ L increments

### Sample quality analysis

Lipemia, hemolysis and icterus indices

Clot detection and probe crash protection

### Sample bar-code formats

NW7, EAN13, CODE 39, CODE 128, ISBT-128, 2 of 5 standard, 2 of 5 interleaved mixed readable (max. four types at the same time, except if using ISBT-128)

### Reagent supply

60 positions for R1, 48 positions for R2 (refrigerated 4°C-12°C); bottle sizes: 15 mL, 30 mL, 60 mL and 120 mL

### Reagent volume

R1: 10  $\mu$ L-250  $\mu$ L; R2: 10  $\mu$ L-250  $\mu$ L (1  $\mu$ L increments)

### Total reaction volume

120-350  $\mu$ L

### Reaction cuvette

Permanent glass cuvettes

### Reaction time

Up to 8 minutes, 33 seconds

### Reaction temperature

37°C  $\pm$ 0.3°C

### Reaction method

Dry bath

### Photometric range

0 OD-3.0 OD

### Wavelength

13 different wavelengths between 340 nm and 800 nm

### Calibration

Auto-calibration, advanced calibration and cooled calibrator positions

Master calibration established by 2D barcode; 200 calibrators can be programmed

History of graphical calibration data stored

### Quality control

Westgard Rules, Twin Plot and Levey-Jennings graphs, auto QC, cooled QC positions

100 controls can be programmed, 10 levels per test

### Reflex testing

User-defined

### Automated sample pre-dilution

Repeat run with increased or decreased sample volume or sample pre-dilution (3, 5, 10, 15, 20, 25, 50, 75, up to 100 times)

### Online

Uni- and bi-directional host query communications

### Operating system

Windows 7

### Data storage

Up to 100,000 patient samples; reaction monitor: 400,000 tests, 300 indexes

## INSTALLATION REQUIREMENTS

### Dimensions (W x H x D)

Analyzer:

49 in x 50 in x 37 in (1250 mm x 1280 mm x 930 mm)

1,014 lbs (460 kg)

Sampler:

26 in x 37 in x 41 in (670 mm x 940 mm x 1040 mm)

287 lbs (130 kg)

### Power supply

200V, 208V, 220V, 230V, 240V, 50 Hz, 60 Hz, 3.8 kVA

### Water supply information

Mean water consumption: 28 L per hour

Water type: deionized CAP Type II, bacteria free

### Continuous flow supply

Resistivity: less than 2.0  $\mu$ S/cm filtered with a 0.5  $\mu$ m filter

### Temperature and humidity

18°C to 32°C, 20% to 80% RH (no condensation)

### Drain requirements

Built-in waste pump

Drain required: maximum height from floor < 59 in (< 1.5 m)

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