

Explore versatile capabilities and flexibility for your lab

AU680 Clinical Chemistry System



The AU680 is designed for the demanding environments of mid-sized to large laboratories and hospitals to meet ever increasing pressures on time and productivity. Flexibility of design offers stand-alone operation or connectivity to lab automation systems. With random access throughput of up to 800 photometric tests per hour (up to 1200 with electrolytes), and a broad menu of over 125 tests, the AU680 delivers field proven reliability and efficiency.

- Proven reliability and low maintenance
- Refrigerated reagent compartment and STAT module
- High-quality, permanent glass cuvettes
- High-precision microsampling
- Proprietary precision optics
- Long-life ISEs
- 150 samples continuous rack loader
- Priority re-run lane
- Plug and play calibration (2-D bar-code)
- Whole blood sampling capability for HbA1c testing

Chemistry
Lab Automation
Information Systems
Molecular Diagnostics
Immunodiagnosics
Centrifugation
Disease Management
Hematology
Hemostasis
Flow Cytometry
Primary Care

AU680 Clinical Chemistry System 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, homogeneous EIA, indirect ISE

Simultaneously Processed Analytes

60 photometric tests + 3 ISE

Throughput

800 photometric tests/hour; up to 1,200 with ISE

Sample Types

Serum, urine, whole blood (HbA1c), other 1, other 2

Rack Sampler

Racks with 10 samples each (bar-codes on primary tubes and on racks); capacity of 150 samples; continuous loading

Sample tubes

In primary and secondary tubes; diameter between 11.5 and 16.5 mm; height between 55 and 102 mm; nested micro cups

STAT Samples

Up to 22 positions for STAT samples, bar-coded primary tubes

Sample Volume

1.6 µL in 0.1 µL increments (1–25 µL for repeats)

Reagent Supply

60 positions for R1, 48 positions for R2/module (refrigerated 4°C–12°C)

Reagent Volume

R1: 15–250 µl; R2: 15–250 µl; (1 µl increments)

Total Reaction Volume

120–425 µL

Reaction Cuvette

Permanent hard glass cuvette

Reaction Time

Up to 8 minutes, 33 seconds

Reaction Temperature

37°C

Photometric Range

0–3.0 OD

Wavelength

13 different wavelengths between 340–800 nm

Calibration

Autocalibration, cooled calibrator positions; master calibration established by two-dimensional bar-code of the reagent bottle (>3-point calibration)

Quality Control

Auto QC, cooled QC positions

Test Requisition

Individual and profile test requisition online, mouse, function keys or touch screen

Safety

Clot detection and crash prevention for sample and reagent dispenser

Online

Full uni- and bi-directional communication possible

Software

Windows XP

Data Storage

Up to 100,000 patient samples

Dimensions (W x H x D) in

77 x 50 x 39 (1,950 x 1,280 x 1,000 mm) analyzer only

Power Supply

200 V; 208 V; 220 V; 230 V; 240 V; 50 Hz; 60 Hz/3.8 kVA

Water Supply information

Water Consumption: 28 L/hour
Water Type: Deionized CAP Type II, Bacteria Free, Continuous Flow Supply

Repeat Run

Automatic dilutions, also increase/decrease sample volumes, no operator intervention required

Reflex Testing

User defined

Automation Predilution

For Urine and other samples



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