

Compact, reliable and cost-effective

AU480 Clinical Chemistry System



Blood Banking
Centrifugation
Chemistry
Flow Cytometry
Hematology
Hemostasis
Immunoassay
Information Systems
Lab Automation
Molecular Diagnostics
Rapid Diagnostics

The AU480 is the ideal primary chemistry analyzer for small- to medium-sized hospitals and laboratories, or as a dedicated specialty chemical or STAT analyzer for larger institutions. With random access throughput of up to 400 photometric tests per hour (up to 800 with electrolytes), increased onboard testing, reduced sample volume and user-friendly operation, the AU480 delivers efficiency for laboratories around the world.

- New and intuitive graphical user interface, standardized with AU680
 - Sample tracking
 - Metering data
 - Patient statistics
 - User customized menu
 - Color alerts to highlight system operating conditions
- AU proven reliability with quick and easy maintenance procedures
 - No tools required
 - Daily hands-on time only 5 minutes
 - Online maintenance videos
- Cooled STAT module provides one button STAT interrupt and advanced Auto QC and calibration capabilities
- High-quality, permanent glass cuvettes—reduces disposable costs
- High-precision micro sampling, ideal for pediatric, geriatric and veterinary testing
- Economical ISEs with long onboard stability; easy to maintain (individual electrode replacement only required)
- 80-sample continuous rack loader

AU480 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, homogeneous EIA, indirect ISE

Test Menu Applications: 125

Programmable Tests: 120

Photometrics: 113, Serum Indices (LIH) HbA1c (Thb, HbA1c + HbA1c%) and ISE

Onboard Parameters

Up to 60 photometric tests + 3 ISE (Na, K, Cl)

Throughput

400 photometric tests/hour, up to 800 with ISE
ISE sample throughput: 200 per hour
ISE maximum tests/hr: 600 if ISE only

Sample Types

Serum, plasma, urine and other fluids

Sampler Capacity

Rack sampler -10 samples per rack (barcodes on primary tubes and on racks)
Capacity of 80 samples, continuous loading
Refrigerated STAT carousel (22 samples can be run simultaneously: Cal, QC and routine samples)

Sample Tubes

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

Sample Volume

1.0 –25 μ L in 0.1 μ L increments

Sample Quality Analysis

Lipemia, Hemolysis, Icterus Indices
Clot detection and probe crash protection

Sample Barcode Formats

NW7, CODE 39, CODE 128, ISBT-128, 2 of 5 interleaved
Mixed readable (max 4 types at the same time)

Reagent Supply

76 positions for (R1+ R2, detergent position) refrigerated 4°C–12°C
Bottle sizes: 15 mL, 30 mL, 60 mL

Reagent Volume

R1: 10–250 μ L, R2: 10–250 μ L (1 μ L increments)

Total Reaction Volume

90–350 μ L

Reaction Cuvette

Permanent hard glass cuvettes

Reaction Time

Up to 8 minutes, 38 seconds

Reaction Temperature

37°C

Reaction Method

Dry Bath

Photometric Range

0–3.0 OD

Wavelength

13 different wavelengths between 340–800 nm

Calibration

Auto calibration, advanced calibration, 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, to 100 times)

Online

Uni- and bi-directional host query communications

Operating System

Windows XP*

Data Storage

Up to 100,000 patient samples
Reaction monitor 200,000 tests

Installation Requirements

Dimensions (W x H x D) in and weight lbs (kg)

57 x 48 x 30 in (1450 x 1205 x 770 mm)
Analyzer 926 lbs (420 kg)

Power Supply

100V, 200V, 208V, 220V, 230V, 240V, 50 Hz, 60 Hz, <3.5 kVA

Water Supply Information

Mean Water Consumption: 20 L/hour
Water Type: Deionized CAP Type II, Bacteria Free

Continuous Flow Supply

Resistivity: less than 2.0 μ S/cm filtered with a 0.5 μ m filter

Temperature & Humidity

18 to 32°C, 40% to 80% RH (no condensation)

Drain Requirements

Built-in waste pump
Drain required: maximum height from floor < 1.5 m (< ~ 59 in.)



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