

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 µL in 0.1 µL 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 µL, R2: 10–250 µL, (1 µL increments)

Total Reaction Volume

90–350 µL

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 (1,450 x 1,205 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 uS/cm filtered with a 0.5µm 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.)

*All trademarks are the property of their respective owners

Beckman Coulter, the stylized logo, AU and AU480 are registered trademarks of Beckman Coulter, Inc.
Windows is a registered trademark of Microsoft Corp.



Australia, Gladesville (61) 2 9844 6000 Austria, Vienna (43) 1 25 65 800 0 Canada, Mississauga (1) 905 819 1234
China, Shanghai (86) 21 3865 1000 Croatia, Zagreb (38) 51 489 9003 Czech Republic, Prague (420) 272 017 999
Eastern Europe, Middle East, North Africa, South West Asia: Switzerland, Nyon (41) 22 365 3707 France, Villepinte (33) 1 49 90 90 00
Germany, Krefeld (49) 2151 33 35 Hong Kong (852) 2814 7431 Hungary, Budapest (361) 25 09 330 India, Mumbai (91) 22 3080 5000
Italy, Cassina de' Pecchi, Milan (39) 02 953921 Japan, Tokyo (81) 3 5530 8500 Korea, Seoul (82) 2 404 2146 Latin America (1) (305) 380 4709
Malaysia, Kuala Lumpur (60) 3 5621 4793 Mexico, Mexico City (001) 52 55 9183 2800 Netherlands, Woerden (31) 348 462462 Poland, Warszawa (48) 22 366 0180
Puerto Rico (787) 747 3335 Russia, Moscow (7) 495 9846730 Singapore (65) 6339 3633 South Africa/Sub-Saharan Africa, Johannesburg (27) 11 564 3203
Spain, Madrid (34) 91 3836080 Sweden, Bromma (46) 8 564 85 900 Switzerland, Nyon (41) 0800 850 810 Taiwan, Taipei (886) 2 2730 2500
Turkey, Istanbul (90) 216 570 17 17 UK, High Wycombe (44) 01494 441181 USA, Brea, CA (1) 800 352 3433, (1) 714 993 5321

B2010-10926-DG-5K

www.beckmancoulter.com

© 2010 Beckman Coulter, Inc.

DIAG-PRINTED IN U.S.A.