AU480 CLINICAL CHEMISTRY SYSTEM

INTRODUCTION

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

COMPACT, RELIABLE AND COST-EFFECTIVE

- Intuitive graphical user interface, standardized with entire AU series
  - Sample tracking
  - Patient statistics
  - User customized menu
  - Color alerts to highlight system operating conditions
- AU proven reliability for greater uptime with quick and easy parts replacement
  - No tools required
  - No more than 3 steps, no longer than 60 seconds for parts such as sample and reagent probes, mixers and syringes
  - Online maintenance videos
- Cooled STAT compartment with 22 positions. Provides one button STAT interrupt and advanced Auto QC and calibration capabilities
- High-quality, permanent glass cuvettes reduces disposable costs
- High-precision micro sampling
- Economical ISEs with long onboard stability; easy to maintain (individual electrode replacement only required)
- 80-Sample continuous rack loader

LAB FORWARD

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 ISEs (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 standard, 2 of 5 interleaved
Mixed readable (max 4 types at the same time, except if using ISBT-128)

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 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 47 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 uS/cm filtered with a 0.5um filter

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

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

For Beckman Coulter's worldwide office locations and phone numbers, please visit www.beckmancoulter.com/contact

DS-19127A B2014-15014