

AU480 CLINICAL CHEMISTRY SYSTEM



INSTRUMENT SPECIFICATIONS

Compact, reliable and cost-effective

The AU480 is the ideal primary chemistry analyzer for small- to mid-sized hospitals and laboratories or 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.

- › 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 three 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 reduce disposable costs
- › High-precision microsampling
- › Economical ISEs with long onboard stability; easy to maintain (only individual electrode replacement required)
- › 80-sample continuous rack loader



AU480 Clinical Chemistry System

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

(bar codes 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 bar code formats

NW7, 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

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 glass cuvettes

Reaction time

Up to eight minutes, 38 seconds

Reaction temperature

37°C

Reaction method

Dry bath

Photometric range

0-3.0 OD

Wavelength

13 different wavelengths between 340 and 800 nm

Calibration

Auto calibration, advanced calibration, cooled calibrator positions

Master calibration established by 2D bar code

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)

Analyzer: 57 x 47 x 30 in (1450 x 1205 x 770 mm) 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 and 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)

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