

# Beckman AU480 Chemistry Analyzer



## OVERVIEW

With a throughput of 400 photometric tests per hour (up to 800 with electrolytes) and an on board capacity of 63 different analytes the AU480 Chemistry System is the ideal main analyzer for small to medium sized laboratories. The AU480 Chemistry System can also fit as a special chemistry or STAT analyzer in large laboratories as well. The AU480 Chemistry System maintains many features of its predecessor the AU400 that made it successful; long life electrodes, low maintenance and superior spot photometer technology. The AU480 Chemistry System has a new intuitive Graphic user interface, standardized to the AU680 minimizing any training requirements. A new ergonomically designed swing arm with a user friendly touch screen monitor is now available. User definable software options such as auto rerun via rack handler / STAT wheel and true reflex testing expand the convenience for the user. Automated low level maintenance requiring minimum hands-on time by the operator. The AU480 Chemistry System uses dry bath technology therefore requiring no water bath maintenance. Low consumable replacement for example permanent cuvettes, long life electrodes (guaranteed for 6 months), robust sample and reagent probes.

## FEATURES

- New and intuitive graphical user interface
- Embedded maintenance videos
- Universal applications
- Plug and play calibration via 2-D barcode
- Reagent reduction
- Low consumable usage
- Microsampling ideal for pediatrics
- Positive sample identification
- Beckman Coulter flexible racks to handle all commonly used tube sizes in parallel
- Barcoded racks to define different sample materials
- 80 samples on board at any time
- Automatic repeat and reflex capability
- Dedicated STAT rotor with 22 positions and integrated barcode reader
- Full STAT capabilities during routine operation
- Refrigerated area for calibrators and controls
- Combined routine and emergency work area
- 76 refrigerated reagent compartments
- Ready to use liquid stable reagents
- Automatic bottle switch capabilities
- Advanced calibration
- Liquid detection and remaining test number calculation
- Non disposable quartz cuvettes
- Software driven carry over elimination
- Dry incubation bath
- Environmental friendly
- High quality ISE for Na, K and Cl
- 6 months shelf life
- 18 months shelf life for reference electrodes
- 600 tests/hour (if ISE mode only)
- Same technology across the whole range of analyzers

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## Contact Us for More Information:

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- 909-465-6325
- [www.techneal.com](http://www.techneal.com)



# Beckman AU480 Specifications

<b>Analytical system</b>	Fully automated, random access chemistry system with STAT capability	<b>Photometry system</b>	Direct assay through the reaction cuvette (0 – 3.0 OD) mono and bichromatic measurements possible
<b>Analytical principle</b>	Spectrophotometry and potentiometry	<b>Wavelength</b>	13 different wavelengths between 340 – 800 nm
<b>Analytical types</b>	Endpoint, rate, fixed point and indirect ISE	<b>Calibration</b>	Auto calibration, cooled calibrator positions; master calibration established by two-dimensional barcode
<b>Analytical methods</b>	Colorimetry, turbidimetry, latex agglutination, homogeneous EIA, indirect ISE	<b>Quality control</b>	Auto QC, cooled QC positions
<b>Simultaneously processed analytes</b>	60 photometric tests + 3 ISE, 120 pre-programmed onboard tests	<b>Rerun</b>	1. Auto rerun and manual rerun available 2. Automatic sample increase, decrease or normal repeat 3. Reflex testing
<b>Throughput</b>	400 photometric tests/hour; maximum of 800 with ISE	<b>Sample Pre Dilution</b>	Dilution ratio: Fixed to 3, 5, 10, 15, 20, 25, 50, 76 or 100
<b>ISE throughput</b>	200 samples/hr. Maximum test/hr 600 if ISE only	<b>Test requisition</b>	Individual and profile test requisition via on-line, mouse, function keys and touch screen
<b>Sample types</b>	Serum, plasma, urine, other	<b>Sample integrity</b>	Lipaemia, Haemolysis and Icterus analysis. Sample clot detection and probe crash protection
<b>Sample feeder</b>	Racks with 10 samples each (barcodes on primary tubes and on racks); capacity of 80 samples; continuous loading	<b>Online</b>	RS232C. Full uni- and bidirectional communication possible
<b>Sample tubes</b>	Primary and secondary tubes; diameter from 11.5 to 16 mm; height from 55 to 102 mm, nestled micro sample cups	<b>Software</b>	Windows XP®
<b>STAT samples</b>	Up to 22 positions for STAT samples via cooled turntable. Easy to operate interrupts between tests Auto repeat run capability	<b>Data Storage</b>	Sample number 100,000 samples. Reaction Data 200,000 tests
<b>Sample volume</b>	1–25 µl in 0.1 µl steps (1–25 µl for repeats)	<b>Dimensions (W x H x D) mm</b>	ANL: 1,450 x 1,205 x 760
<b>Reagent capacity</b>	76 positions for (R1+R2, detergent position). Holds 15, 30 and 60ml bottles	<b>Power supply</b>	100–240v; 60 Hz/ < 3.5 kVA
<b>Reagent storage</b>	Refrigerated (4 °C–12 °C)		
<b>Reagent volume</b>	R1: 10–250 µl; R2: 10–250 µl; (in 1 µl increment)		
<b>Total reaction volume</b>	90–350 µl		
<b>Reaction cuvette</b>	Permanent glass cuvettes		
<b>Reaction time</b>	Up to 8 minutes, 37.5 seconds		
<b>Reaction incubation</b>	37 °C, dry bath		

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