



BS-480 Chemistry Analyzer

mindray
healthcare within reach

BS-480 Chemistry Analyzer

Technical Specifications

System function

Fully automated, discrete, random access,
STAT, urine and homogeneous immunoassays; STAT sample priority
Throughput: 400 photometric tests/hour, up to 240 tests/hour for ISE
Measuring principles: Absorbance Photometry, Turbidimetry
Methodology: End-point, Fixed-time, Kinetic, ISE (Optional)
Single/Dual/Triple/Quadruple reagent chemistries,
Monochromatic/Bichromatic
Programming: User defined profiles and calculation

Sample Handling

Sample tray: 90 positions for primary or secondary tubes and sample cups
Sample volume: 1.5~45 µl, step by 0.1 µl
Sample probe: Liquid level detection, clot detection and collision protection
Probe cleaning: Interior and exterior automatic probe washing
carry-over < 0.05%
Automatic sample dilution, Pre-dilution and post-dilution
Dilution with ratio up to 1: 150
Dilution vessel: Quartz cuvette

Internal bar code reader

Sample/Reagent barcode reading
including Codabar, ITF (Interleaved Two of Five), code128, code39,
UPC/EAN, Code93; Bi-directional LIS Interface transmission

ISE Module (optional)

Optional selection of K⁺, Na⁺, Cl⁻
Throughput: Up to 240 tests per hour

Reagent Handling

Reagent tray: 80 positions in refrigerated compartment (2~10°C)
Reagent volume: 10~350 µl
Reagent probe: Liquid level detection, collision protection and
inventory check
Probe cleaning: Interior and exterior automatic probe washing

Reaction System

Reaction rotor: Rotating tray, 90 cuvettes with automatic washing
Cuvette: Optical length 5mm
Reaction volume: 120~360 µl
Operating temperature: 37°C
Temperature fluctuation: ±0.1°C
Mixing system: 2 independent mixers

Optical System

Light Source: Halogen-tungsten lamp
Photometer: Reversed optics, grating photometry
Wavelength: 340nm, 380nm, 412nm, 450nm, 505nm, 546nm,
570nm, 605nm, 660nm, 700nm, 740nm, 800nm
Absorbance range: 0~3.3Abs (10mm conversion)
Resolution: 0.0001Abs

Control and Calibration

Calibration mode: Linear (one-point, two-point and multi-point), Logit
-Log 4P, Logit-Log 5P, Spline, exponential, Polynomial,
Parabola
Control rules: Westgard multi-rule, Levy-Jennings, Cumulative sum
check, twin plot

Operation Unit

Operation system: Windows 8
Interface: RS-232, Network Port, USB/ parallel port

Working Conditions

Power Supply: 200~240V, 50/60Hz, 1500VA
or 110~130V, 60Hz, 1500VA
Temperature: 15~30°C
Humidity: 35~85%
Water consumption: ≤20L/hour, De-ionized water
Dimension: 1180mm x 710mm x 1150mm (W x D x H)
Weight: 300 Kg

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