

BS-480 Chemistry Analyzer



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Robust hardware

Enhanced Liquid System

- Precise sample and reagent aspiration
- Built in air bubble elimination prior to washing
- High pressure interior probe wash
- Carry-over < 0.05%



Economy Usage

- Light-Spot Flatting Technology facilitates lower reaction volume
- 24 hour non-stop refrigeration at 2-10°C
- Minimum sample volume: 1.5 μl
- Reagent volume: 10 ~ 350 μl
- Cuvette Volume:120~360μl



Easy to perform maintenance

- Front loaded reagent compartment for easier access
- Easy access for routine maintenance and troubleshooting
- Built in Step-by-Step maintenance guide



Intelligent Probe System

- Supports methods with up to 4 reagents
- Vertical and horizontal collision protection
- Automatic System Recovery
- Liquid level detection, clot detection







Tailor made

Advanced software



User-friendly Interface

- Real-time analytical and carousel status monitoring
- Bi-directional LIS interface transmission



Real-time QC Status Monitoring

- Levy-Jennings chart and Twin-Plot chart
- QC Out-of-Range real-time alarm
- Customizable periodic QC reminder



Traceable Test Results

- Historic data recall from reagent/ calibrator/ control archive
- Intuitive software, easy historical results



Reflex Function

- User-defined customizable reflexive assays
- Multiple reflexive criteria may apply to a single assay
- A single reflexive criteria may apply up to 20 assays



Test Summary

- Test summary reports & sample rerun available on all assays and Quality Assurance
- Facilitate computation of total test costs
- Error Log Export function -facilitate error report to engineers
- Results Archive can be transferred to engineers for evaluation



for your lab

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, Turb

-idimetry

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 0.1μl

Sample probe: Liquid level detection, clot detection and collision pro

-tection

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: Permanent 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 ($2\sim10^{\circ}$ C)

Reagent volume: R1: 120- 350 ul, R2 ~ R4:10 - 350ul

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: $120\sim360\mu$ l Operating temperature: 37° C Temperature fluctuation: $\pm 0.1^{\circ}$ 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: \leq 20L/hour, De-ionized water Dimension: \leq 6in x 28in x 45in (W x D x H)

Weight: 661lb

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