BS-480 Chemistry Analyzer
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**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: 120~360 μl

**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

Robust hardware

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 0.1 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: Permanent Cuvette

Internal bar code reader
Sample/ Reagent barcode reading including Codabar,
ITF (Interleaved Two of Five, code 128, 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: R1: 45- 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: 120~360µl
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: 46in x 28in x 45in (W x D x H)
Weight: 661lb

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