BS-480 Chemistry Analyzer
**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
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 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 (2~10°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:
120~360µl

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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