## **BS-400**

## **Chemistry Analyzer**

## **Technical Specifications**

System function:

Fully automated, Discrete, Random Access, for routine, STAT, urine and homogeneous Immuno Assays

STAT sample priority

Throughput: 400 tests/hour, up to 640 tests/hour

with ISE

Measuring principles

Absorbance photometry, Turbidimetry Methodology: End-point, Fixed-time, Kinetic, optional ISE

Single/Dual/Triple/Quadruple reagent chemistries, monochromatic / bichromatic

Programming: User defined profiles and calculation

chemistries

Sample Handling:

Sample tray: 90 positions for primary tubes or

secondary cups

Sample volume: 2~45µl, step by 0.1µl

Sample probe: liquid level detection, clot detection and

collision protection

Probe cleaning: automatic washing for both inside and

outside, carry over ≤ 0.1%

Automatic sample dilution:

pre-dilution and post-dilution dilution ratio up to 150

dilution vessel: cuvette

Internal bar code reader:

Used for sample and reagent programming Applicable to various bar code systems of Codabar、ITF (Interleaved Two of Five)、 code128、code39、UPC/EAN、Code93 Capable to link in LIS bi-directional mode

ISE Module:

Optional selection for K<sup>+</sup>, Na<sup>+</sup>, Cl<sup>-</sup>, or

K<sup>+</sup>, Na<sup>+</sup>, Cl<sup>-</sup>, Li

Throughput: Up to 320 tests per hour

Reagent Handling:

Reagent volume

80 positions in refrigeration Reagent tray:

compartment (4~10℃) R1: 150~350µl, step by 1µl

R2/R3/R4: 20~350µl, step by 1µl 2 independent reagent probes

Reagent probe: liquid level detection and collision protection

Inventory checking

Probe cleaning: automatic washing for both inside or outside

carry over ≤ 0.1%

Reaction System:

rotating tray, 90 cuvettes with automatic Reaction rotor:

washing Cuvette: optical length 5mm Reaction volume: 150~360µl Operating temperature: 37 °C Temperature fluctuation: ±0.1℃

2 independent mixing bars

**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: 0~3Abs (10mm conversion)

Resolution: 0.001Abs

**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, Cumulative sum check, twin

**Operation Unit:** 

Operation system: Windows 2000 Professional or Windows XP

Interface: RS-232

**Working Conditions:** Power Supply:

200-240V~, 50Hz, 1500VA or 220/230V~, 60Hz, 1500VA

or 110/115V~, 60Hz, 1500VA

Temperature: 15-30℃ Humidity: 35-80%

Water consumption: 23L/hour Deionized water

**DISTRIBUTOR:** 

1180mm x700mm x1145mm (WxDxH) Dimension:

Weight: 300ka









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