

BS-200

Chemistry Analyzer

Technical Specifications

System Function:

	Automatic, Discrete, Random Access STAT sample priority
Throughput:	up to 200 tests/hour (without ISE), up to 330 tests/hour with ISE
Measuring principles:	Absorbance photometry, Turbidimetry, Ion Selective Electrode technology
Methodology:	End-point, Fixed-time, Kinetic, optional ISE Single / Dual reagent chemistries, monochromatic / bichromatic Linear / non-linear multipoint calibration
Programming:	Open system with user defined profiles and calculation chemistries

Reagent/Sample Handling:

Reagent/Sample tray:	40 positions for reagents and 40 positions for samples in refrigerated compartment (4~15 °C)
Reagent volume:	
R1:	180~450µl, step by 1µl
R2:	30~450µl, step by 1µl
Sample volume:	3~45µl, step by 0.5µl
Reagent/Sample probe:	liquid level detection, collision protection and inventory checking
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:	disposable cuvette

Internal Bar Code Reader (optional):

Used for sample and reagent
programming
Be applicable to various bar code
systems of Codabar, ITF (Interleaved
Two of Five), code128, code39,
UPC/EAN, Code93
Capable to communicate with LIS in
bidirectional mode

ISE Module (optional)

Measuring K ⁺ , Na ⁺ , Cl ⁻	
Throughput:	Up to 225 tests per hour

Reaction System:

Reaction rotor:	rotating tray, containing 80 cuvettes
Cuvette:	optical length 5mm
Reaction volume:	180~500 µl
Reaction temperature:	37 °C
Temperature fluctuation:	± 0.1 °C
Independent mixing probe	

Optical System:

Light Source:	Halogen-tungsten lamp
Photometer:	reversed optics, static fiber spot photometry
Wavelength:	340nm、405nm、450nm、510nm、546nm、 578nm、630nm、670nm
Absorption range:	0~4.0Abs (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 software:	X-R, L-J, Westgard multi-rule, Cumulative sum check, twin plot

Operation Unit:

Operation system:	Windows XP Professional/Home SP2 or above Windows VISTA Home/Business
Interface:	RS-232

Working Conditions:

Power Supply:	AC100~130V, 50/60Hz, 1000W
Temperature:	15-30 °C
Humidity:	35-80%
Water consumption:	3.5L/hour De-ionized
Dimension:	Bench top: 860mm (W) x700mm (D) x625mm (H) Floor standing: 860mm (W) x700mm (D) x1160mm (H)
Weight:	Bench top: 116 kg Cabinet (optional): 51 kg



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