

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 ℃)
Reagent volume:	
R1:	180~450 μ l, step by 1 μ l
R2:	30~450 μ l, step by 1 μ l
Sample volume:	3~45 μ l, step by 0.5 μ l
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 μ l
Reaction temperature: 37 ℃
Temperature fluctuation: \pm 0.1 ℃
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: -0.1~4.0Abs (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 2000 Pro with SP4
Windows XP Pro / Home
Interface: RS-232

Working Conditions:

Power Supply: AC200~240V, 50/60Hz, 1000W or
AC100~130V, 50/60Hz, 1000W
Temperature: 15-30 ℃
Humidity: 35-80%
Water consumption: 3.5L/hour De-ionized
Dimension: Bench top: 860mm(W)x700 mm(D)x625 mm (H)
Floor standing: 860mm(W)x700 mm(D)x1160 mm (H)
Weight: Bench top: 116 kg
Cabinet (optional): 51 kg



MINDRAY™

Mindray Building, Keji 12th Road South, High-tech Industrial Park,
Nanshan, Shenzhen 518057, P. R. China

Tel: +86 755 26582492, 26582888 Fax: +86 755 26582680

E-mail: Intl-market@mindray.com Website: www.mindray.com



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