

BS-220E

Chemistry Analyzer

Technical Specifications

System Function:

Automatic, Discrete, Random Access
STAT sample priority
Throughput: Constant 200 tests/hour (without ISE), up to 330 tests/hour with ISE
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 multi-point calibration
Programming: Open system with user defined profiles and chemistry calculation
System pack reagents ready to use

Reagent/Sample Handling:

Reagent/Sample tray: 40 reagent positions, 40 sample positions in cooling compartment (2~12°C)
Reagent volume:
R1: 10~350µl, step by 1 µl
R2: 10~200µl, step by 1 µl
Sample volume: 2~45µl, step by 0.1 µl
Reagent/Sample probe: Liquid level detection and tracking, vertical & horizontal collision protection and inventory checking
Probe cleaning: Automatic washing of interior and exterior
Carry-over < 0.1%
Automatic sample dilution: Pre-dilution and post-dilution
Dilution ratio up to 1: 200

Internal Bar Code Reader (optional):

Used for sample and reagent scan
Applicable to various bar code systems such as Codabar, ITF (Interleaved Two of Five), code128, code39, UPC/EAN, Code93
Bi-directional interface LIS transmission

ISE Module (optional):

Measure K⁺, Na⁺, Cl⁻

Optical System:

Light Source: Halogen-tungsten lamp
Photometer: Grating system, reversed optics
Wavelength: 12 wavelengths, 340nm, 380nm, 412nm, 450nm, 505nm, 546nm, 570nm, 605nm, 660nm, 700nm, 740nm and 800nm
Absorption range: 0~3.3Abs (10mm conversion)
Resolution: 0.0001Abs

Reaction System:

Reaction rotor: Rotating tray, containing 80 cuvettes
Cuvette: Reusable, optical length 5mm
Reaction volume: 150~500µl
Reaction temperature: 37°C
Temperature fluctuation: ±0.1°C

Mixing System:

Standalone mixing bar

Cuvette Washing:

8-step washing station with pre-heated detergent and water

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: Westgard multi-rule, Cumulative sum check, Twin plot, L-J Chart

Operation Unit:

Operation system: Windows® XP Professional/Home SP2 or above
Windows® 7
Interface: RS-232

Working Conditions:

Power Supply: AC 200~240V, 50/60Hz, ≤1500VA or AC 100~130V, 50/60Hz, ≤1500VA
Temperature: 15-30°C for operation
Humidity: 35-85% RH
Dimension: 860mm (W) x700mm (D) x625mm (H)
Weight: 130 Kg



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