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

Absorbance photometry, Turbidimetry, Principles:

Ion Selective Electrode technology

Methodology: End-point, Fixed-time, Kinetic, optional ISE Single/Dual reagent chemistries,

monochromatic/bichromatic

Linear/non-linear multi-point calibration

Open system with user defined profiles Programming:

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 2~45µl, step by 0.1 µl Sample volume:

Reagent/Sample probe:

Liquid level detection and tracking, vertical &

horizontal collision protection and inventory

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

0~3.3Abs (10mm conversion) Absorption range:

Resolution: 0.0001Abs

Reaction System:

Reaction rotor: Rotating tray, containing 80 cuvettes

Cuvette: Reusable, optical length 5mm

Reaction volume: 150~500µl Reaction temperature: Temperature fluctuation: ±0.1°C

Mixing System: Standalone mixing bar

8-step washing station with pre-heated **Cuvette Washing:**

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 Westgard multi-rule, Cumulative sum

check, Twin plot, L-J Chart

Operation Unit:

Control software:

Windows® XP Professional/Home SP2 or above Operation system:

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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