

Sys 220

Accuracy Within Reach



Flexible | Progressive | Pioneering

Tailored Precision for Small-Scale Operations

DiaSys

DiaSys
Diagnostic Systems

CHOOSING QUALITY.

Accuracy within reach

The DiaSys Sys 220 is a compact, fully automated clinical chemistry analyzer, ideal for small to medium labs. It offers high performance, user-friendly operation, and reliable results across a wide range of tests, ensuring efficiency and faster turnaround times.



KEY FEATURES



Compact Design : Space-efficient, ideal for small labs without compromising functionality.



Fully Automated: Handles 200 photometric and 400 electrolyte tests per hour.



Wide Test Menu: Supports a variety of tests, with the flexibility to add more.



High Throughput: Faster sample processing for improved productivity and TAT.



Enhanced Accuracy: Advanced optics for precise results (340-800 nm wavelength range).



User-Friendly Interface: Intuitive software with real-time status and data management.



Sample & Reagent Management: Continuous loading with an 40-position sample carousel.



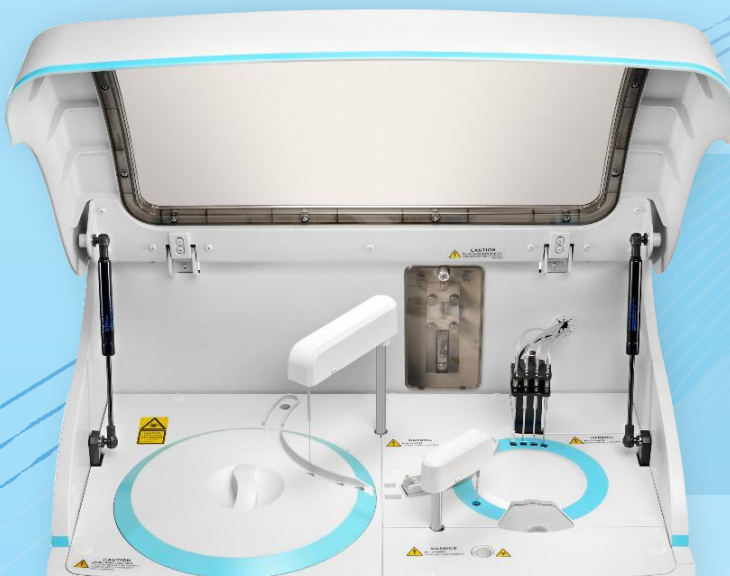
Cost-Efficiency: Low reagent consumption to reduce waste and operational costs.



Maintenance: Automated routines and modular design for quick repairs.



Flexible Configurations: Customizable to suit specific lab needs without costly upgrades.



Value Proposition

- Time Savings
- Resource Optimization
- Enhanced Accuracy
- Reliability
- Consistency
- Scalability
- Space-Saving

Test Menu of Clinical Chemistry

A wide and specialized test menu in clinical chemistry is vital for accurate and comprehensive diagnosis, allowing for detailed patient assessments. It enhances operational efficiency by consolidating tests in one place, reduces outsourcing, and provides a competitive edge by addressing diverse diagnostic needs.

Liver Function test (LFT)	Lipids (Arteriosclerotic risk)	Iron metabolism, Anemia
Albumin FS Alkaline Phosphatase FS IFCC ALAT (SGPT) FS IFCC ASAT (SGOT) FS IFCC Ammonia Bilirubin Auto Direct FS Bilirubin Auto Total FS Cholinesterase FS Gamma GT FS (Szaaz method) LDH 21 FS IFCC Total protein FS Total Bile Acids 21 FS	Apolipoprotein A1 FS Apolipoprotein B FS Cholesterol FS CRP U-hs FS Homocysteine HDL-C Direct FS LDL-C Direct FS Lp(a) 21 FS Lp-PLA2 FS Non-esterified fatty acids (NEFA) FS Triglycerides FS	Ferritin FS Iron FS Ferene Transferrin FS UIBC FS Glucose-6-phosphate dehydrogenase (G6PDH)
Renal Function	Cardiac	Metabolic parameters
Albumin in urine/CSF FS (Microalbumin) Calcium P FS Calcium AS FS Creatinine Jaffe FS Creatinine PAP FS Cystatin C FS Glucose Hexokinase FS Magnesium XL FS One HbA1c FS Phosphate FS Total Protein UC FS (Urine & CSF) Uric Acid FS TBHBA Urea	Angiotensin Converting Enzyme (ACE) Apolipoprotein A1 FS Apolipoprotein B FS CK-NAC FS CK-MB FS CRP U-hs FS Homocysteine Lp(a) 21 FS Lp-PLA2 FS Myoglobin	Bicarbonate FS Chloride 21 FS Lactate FS Potassium FS Sodium FS
Diabetes	Pancreas	Infection Panel
Albumin in urine/CSF FS (Microalbumin) B-Hydroxybutyrate 21 FS Glucose Hexokinase FS Glucose GOD FS Non-esterified fatty acids (NEFA) FS One HbA1c FS	Alpha-Amylase CC FS Lipase DC FS Pancreatic amylase FS	Immunoglobulin A FS Immunoglobulin E FS Immunoglobulin G FS Immunoglobulin M FS Antistreptolysin O (ASO)
Metal Profile	Bones, Osteoporosis	Inflammation
Calcium FS Copper FS Magnesium XL FS Zinc FS	Alkaline Phosphatase FS IFCC Calcium FS Phosphate FS Vitamin D Rheumatoid Factor FS	CRP FS CRP U-hs FS Procalcitonin (PCT) FS Rheumatoid Factor FS Complement C3cFS Complement C4FS
	Pulmonary Profile	Nutrition
	Adenosine Deaminase (ADA) Angiotensin Converting Enzyme (ACE)	Albumin FS Magnesium XL FS Prealbumin FS Total protein FS Uric Acid FS TBHBA
	Thrombosis	Electrolyte
	D-Dimer	Chloride 21 FS Potassium FS Sodium FS

Technical Specifications

System Function

Automatic, Discrete, Random Access, Bench-top

STAT sample priority

Throughput: Up to 200 tests/hour, up to 400 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 / bi-chromatic

Original system pack reagent ready to use

Close system and open system is optional

Reagent/Sample Handling

Reagent/Sample tray: 40 positions for reagents, 40 positions for samples and 40 interchangeable to extend in 24-hour refrigerated compartment (2~12°C)

Reagent volume: 10~250µl, step by 0.5µl

Sample volume: 2~45µl, step by 0.1µl

Reagent/Sample probe: Liquid level detection, vertical collision protection and inventory checking, reagent pre-warming

Probe cleaning: Automatic washing for interior and exterior
Carry over < 0.05%

Automatic sample dilution: Pre-dilution and post-dilution

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 bi-directional mode

Reaction System:

Reaction rotor: Rotating tray, containing 40 cuvettes

Cuvette: Reusable, optical length

Reaction volume: 100~360µl

Operating temperature: 37°C

Temperature fluctuation: ± 0.1°C

ISE Module (optional) Measuring K⁺, Na⁺, Cl⁻

Mixing Unit

Independent mixing bar

Cuvette Washing: Washing station with pre-warmed detergent and water

Optical System

Calibration modes: Linear (one point, two points and multi-points), Logit-Log 4P, Logit-Log 5P, spline, exponential, polynomial, parabola

Control Rules: X-R, L-J, Westgard multi-rule, Cumulative sum check, twin plot

Operation Unit

Operation system: Windows 8

Interface: RS-232

Working Conditions

Power Supply: 200~240V, 50/60Hz, ≤1000VA or 100~130V, 60Hz, ≤1000VA

Dimension: 690 mm (length) × 580 mm (depth) × 595 mm (height)

Weight: 79 kg

Water Consumption: ≤4L/H

Order Information

Item Code	Analyzer
4000004014	SYS 220 without ISE