

CLC 720 Chemistry Analyzer

Technical Specifications

System function:

Fully automated, discrete, random access for routine, STAT, urine and homogeneous immunoassays; STAT sample priority

Throughput: 400 tests/hour, up to 560 tests/hour without Li

Measuring principles: Absorbance photometry, turbidimetry

Methodology: End-point, Fixed-time, Kinetic, ISE
Single/Dual/Triple/Quadruple reagent chemistries, monochromatic/bichromatic

Programming: User defined profiles and calculations

Sample Handling:

Sample tray: 90 positions

Sample volume: 2-45µl, step by 0.1µl

Sample probe: Liquid level detection, clot detection and collision protection

Probe cleaning: Automatic washing both interior and exterior, carry-over ≤ 0.1%

Automatic sample dilution: Pre-dilution and post-dilution with ratio up to 1:150

Dilution vessel: Cuvette

Internal bar code reader:

Used for sample and reagent programming; applicable to various bar code systems including Codabar, ITF (Interleaved Two of Five), code128, code39, UPC/EAN, Code93; capable of communicating with LIS in a bi-directional mode

ISE Module:

K+, N+, Cl-

Throughput: Up to 240 tests per hour

Reagent Handling:

Reagent tray: 80 positions in refrigerated compartment (4-10° C) R1: 150-350µl, step by 1µl; R2/R3/R4: 20-350µl, step by 1µl
2 independent reagent probes

Reagent probe: Liquid level detection, collision protection and inventory checking

Probe cleaning: Automatic washing both interior and exterior

Reaction System:

Reaction rotor: Rotating tray, 90 cuvettes with automatic washing

Cuvette: Optical length 5mm

Reaction volume: 150-360µl

Operating temperature: 37° C

Temperature fluctuation: ±0.1° C

Mixing system: 2 independent mixers

Optical System:

Light source: halogen-tungsten lamp

Photometer: Reversed optics, grating photometry

Wavelength: 340nm, 380nm, 412nm, 450nm, 505nm, 546nm, 570nm, 605nm, 660nm, 700nm, 740nm, 800nm,

Absorbance range: 0-3Abs (10mm conversion)

Resolution: 0.001 Abs

Control and Calibration:

Calibration mode: Linear (one-point, two-point and multi-point), Logit-Log 4P, Logit-Log 5P, Spline, exponential, Polynomial, Parabola

Control rules: Westgard multi-rule, Cumulative sum check, twin plot

Operation Unit:

Operation system: Windows® 7/Windows® XP, Dell 380

Interface: RS-232

Working Conditions:

Power Supply: 110/115V

Temperature: 15-30° C

Humidity: 35-80%

Water consumption: 20L/hour

Dimension: 46" x 27" x 45" (W x D x H)

Weight: 551 lbs (250 Kg)

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CLC 720

Chemistry Analyzer

Cost effective. Extensive menu. Accurate.



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CLC 720 Chemistry Analyzer

Real-time monitoring of working status.

Clot detection to avoid incorrect reaction at the very beginning of the reaction process.

High performance, reusable cuvettes, and accurate results.

- Discrete, random access, fully automated
- Up to 560 tests per hour with ISE
- Up to 77 onboard chemistries plus Na+, K+, Cl-
- Refrigerated reagent compartment
- Sample tray: 90 positions
- Automatic probe cleaning, liquid level detection, clot detection, probe collision protection
- 8-step auto washing system
- 12 wavelengths: 340-800nm
- Automatic dilution of high samples above usable range
- Internal reagent and sample barcode reader
- Bi-directional LIS interface with host query
- Eliminates the need for cumbersome racks
- Pre-dilution for certain assays
- STAT capabilities

Multi-functional Reagent Probe

- Interior and exterior probe washing
- Liquid level detection
- Collision protection
- Inventory monitoring
- Probe depth adjusted automatically

Multi-functional Sample Probe

- Interior and exterior probe washing
- Liquid level detection
- Clot detection
- Collision protection
- Probe depth adjusted automatically
- Sample volume as low as 2.0µL

Multi-functional Sample Tray

- 90 sample positions
- Automatic dilution of high concentration samples
- Pre-dilution for samples
- Internal sample bar code reader
- Can be programmed into 5 virtual sample disks

Refrigerated Reagent Tray

- 80 reagent positions
- 24-hour non-stop cooling with Peltier element
- Ready-to-use liquid stable reagents
- Internal reagent bar code reader

High Quality ISE Module

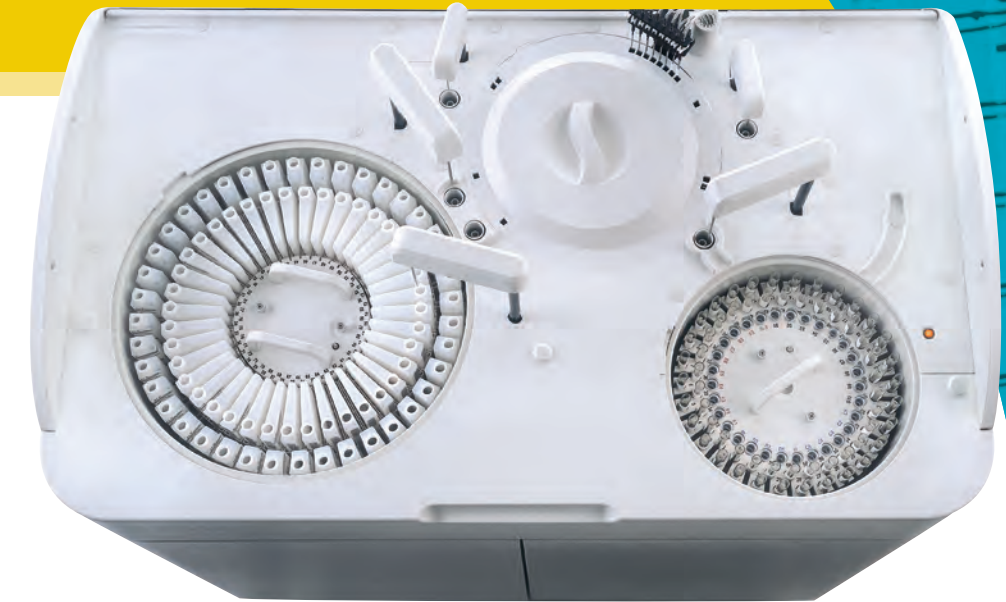
- Throughput: up to 240 tests per hour
- 6 month shelf life

Washing Station

- High-tech washing station to guarantee accurate results and ensure valid diagnostics
- 8-step auto-washing

Reaction Tray

- Test sequence optimization to reduce carry-over
- Total reaction volume as low as 150µL
- Contains 90 reaction cuvettes



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CLC 720 Chemistry System Reagents

ALB	CA	Glycomark	LDLD w/cal	TIBC	DRUGS OF ABUSE	
ALP	CHOL	GLU	Lipase w/cal	TP	6-AM	Methadone (METD)
ALT	CK	HbA1c w/Lyse	Lithium	Transferrin	Alcohol	Propoxyphene (PROX)
AST	CO2	HDL w/cal	Lp(a)	TG	Buprenorphine	Barbiturate (BARB)
Amylase	CREA	Homocysteine w/cal	Microalbumin	Uric Acid	Cannabinoid (THC)	Benzodiazepine (BENZ)
APO A1	CRP	Insulin	MG	Vitamin D	Opiate (OP)	Oxycodone
APO B	DBIL	Iron w/cal	PO4	Plac® Test	Amphetamine (AMPH)	Cotinine Assay
Bile Acid	Fructosamine w/cal	LDH	Rheumatoid Factor		Cocaine (COCM)	Ecstasy EIA Kit
BUN	GGT		TBIL		Phencyclidine (PCP)	