

CLINICAL CHEMISTRY **RANDOX RX IMOLA**

DELIVERING HIGH QUALITY
TESTING FOR RESULTS
YOU CAN TRUST

- 400 photometric tests per hour
- 560 tests per hour including ISE
- 90 permanent Pyrex cuvettes, with 8 stage washing
- 12 wavelength options ranging from 340-800nm
- Water consumption of 18 liters per hour
- Long life span cuvettes of approximately 5 years



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Rapid, comprehensive clinical chemistry testing

The RX Imola is a cost effective system that delivers consistent high quality results. Capable of handling the workload of a medium to high throughput laboratory, the RX Imola provides rapid, comprehensive testing on a small footprint analyzer.

SPECIFICATIONS

PERFORMANCE CHARACTERISTICS	
Throughput	400 photometric tests per hour, 240 ISE tests per hour. Combined throughput of 560 tests per hour
Analyzer type	Compact fully automated random access bench top clinical chemistry analyzer
Assay tests	Endpoint, kinetic, biochromatic, turbidimetric, sample blanking, reagent blanking and ISE
Maintenance	Daily maintenance-less than 5 minutes. No rear access required.
Data management	Storage of up to 30,000 patient reports, search facility, test counter
Test channels	60 photometric channels, 3 direct ISE tests - sodium, potassium and chloride
Sleep mode	User defined sleep mode capabilities with automatic wash and instrument prep

REAGENT & SAMPLE SYSTEM	
Reagent capacity	Removable tray with 60 cooled positions (30 positions for 100 or 50ml bottles and 30 positions for 20ml bottles)
Reagent cooling	8-15°C
Reagent identification	Automatic barcode reagent identification
Reagent inventory	Calculation of remaining reagent volume and tests available, alert for shortage, expired reagent and expired calibration
Reagent pipette	Dedicated twin reagent micropipette with liquid level sensor and crash detection, rinsed inside and outside with purified water
Sample addition	Immediate sampling interruption for addition of samples via removable panel
Sample capacity	Removable tray with 72 positions for samples, 20 cooled position for controls and calibrators
Sample dead volume	150µl in standard or primary tubes, 100µl in pediatric cups
Sample dilution	Pre-dilution and automatic re-assay with diluted, reduced or increased sample volume.
Sample identification	Barcode sample identification
Sample pipette	Dedicated sample micropipette with liquid level sensor, crash detection, bubble detection and 4 levels of clot detection. Rinsed inside and outside with purified water
Sample tube Size	Multiple primary tube sizes (diameter 13 to 16mm, height 75 to 100 mm), pediatric cups
Sample type	Serum, Plasma & Urine
Sample volume	2 to 35µl (0.1µl increments)
STAT sampling	Immediate STAT sampling interruption

REACTION SYSTEM	
Minimum reaction volume	150µl
Stirring speed	Dual 5-speed rotating stirrers rinsed with purified water
Stirring system	Paddle type rotating stirrer cleaned with purified water
Temperature	37°C±0.3
Cuvettes	90 reusable Pyrex® cuvettes with 5-year lifespan, min volume 150µl, Max volume 450µl, 8-stage cuvette washing system
Cycle time	9 seconds
Water consumption	18L per hour
Water requirements	NCCLS type 1 or 2 purified water supply at pressure [0.15-0.34Mpa]

OPTICAL SYSTEM	
Detection principal	12 wavelengths: 340, 380, 415, 450, 510, 546, 570, 600, 660, 700, 750 and 800 nm
Light source	Halogen tungsten lamp (air-cooled, 6 months service life)

CALIBRATION & QC	
Quality control	Interactive Levey-Jennings Charts, Daily, Monthly and Batch QC with data archiving, Automatic QC and Automatic calibration
Calibration principal	Factor, Linear, point to point, spline, log-logit and exponential. Up to 7 calibrators per test

OPERATING SYSTEM	
Operator interface	15" LCD display and printer externally connected. Windows® based user Interface 100 -249 VAC, 1230 Watt approx.