

CLINICAL CHEMISTRY **RAN**DOX RX MONACO

A CONVENIENT SOLUTION FOR
LOW TO MID VOLUME CLINICAL
CHEMISTRY TESTING

- 170 photometric tests per hour
- 120 semi-permanent cuvettes
- Low water consumption of 5.5 liters per hour at maximum throughput
- Grating spectrophotometry system generating 12 wavelengths ranging from 340-800nm



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A compact fully automated solution for high quality clinical chemistry testing

The RX Monaco is a fully automated, cost effective solution for low to mid volume clinical chemistry testing offering the ultimate in convenience, performance and confidence. The RX series test menu allows for complete consolidation of routine and specialized testing onto one efficient, easy to use platform.

SPECIFICATIONS

PERFORMANCE CHARACTERISTICS	
Throughput	170 tests per hour constant speed
Analyzer type	Fully automated, discrete, random access bench-top clinical chemistry analyzer
Assay type	End-point, rate, 2 point assays
Maintenance	Daily maintenance – probe & mixer wash/water bath exchange/cuvette check

REAGENT & SAMPLE SYSTEM	
Reagent & Sample capacity	Shared reagent & sample carousel with a total of 66 user defined positions (positions for reagents ≥ 3, positions for samples ≥ 9)
Reagent cooling	5-15°C
Reagent & sample Identification	Internal barcode scanner
Reagent inventory	Test & report remaining reagent volume, linked to work list
Reagent & sample pipette	Single reagent & sample pipette with digital liquid level detection & collision detection function, rinsed inside & out (warm water rinsing)
Reagent container	20ml and 70ml
Sample type	Serum, plasma, urine
Sample volume	3-35µl (0.1µl increments)
Sample dead volume	100µl in primary tubes
STAT sampling	STAT priority function available

REACTION SYSTEM	
Reaction time	13 minutes
Reaction volume	150-550µl
Stirring speed	Independent stirring after reagent injection (Teflon coated)
Temperature control	Water bath
Water consumption	5.5 liters per hour Pressurized Water
Water requirements	NCCLS type 1 or 2 purified water supply at 0.5 bar pressure
Cuvettes	120 semi-permanent optical plastic cuvettes, 6mm optical path. Life span: 3-6 months
Cycle time	15 seconds

OPTICAL SYSTEM	
Incubator temperature	37°C ± 0.1°C
Light source	Long life quartz halogen lamp (water cooled)
Detection principal	12 wavelengths generated via diffraction grating: 340, 380, 405, 450, 480, 505, 546, 570, 600, 660, 700, 800nm
Detector method	Direct absorbance in cuvette (monochromatic or bi-chromatic)
Wavelength accuracy	±2nm
Absorbance range	0 to 3.3 Abs

CALIBRATION & QC	
Calibration principal	1 point, 2 point, multi-point, non-linearity method
Quality control	QC interval, monthly QC

OPERATING SYSTEM	
External output	Standard RS-232C interface
Software	Windows®

POWER REQUIREMENTS	
Power supply	240 VAC 50Hz/60Hz
Power output	650VA