

CLINICAL CHEMISTRY **RANDOX RX DAYTONA+**

HIGH QUALITY TESTING ON A
COMPACT EASY TO USE
CLINICAL CHEMISTRY ANALYSER
FOR ACCURATE RESULTS YOU
CAN TRUST

- 270 photometric tests per hour
- Optional ISE unit which enables a total throughput of 450 tests per hour
- 72 semi-permanent cuvettes on-board with cuvette check function and 12 stage washing process
- Low water consumption of 5 liters per hour at maximum throughput
- Separate sample and reagent pipettes including liquid level sensors, crash protection and clot detection
- Dual 5 speed stirrers optimized for each assay ensuring better performance



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A compact fully automated solution for high quality clinical chemistry testing

The RX Daytona+ is a fully automated, random access, bench top analyzer. The comprehensive and flexible test menu on the RX Daytona+ allows consolidation of a wide range of routine and specialized tests onto one, easy to use, platform. Direct, on-board, HbA1c testing capabilities allow HbA1c tests to be run immediately as there is no sample incubation step required, saving time in the laboratory.

SPECIFICATIONS

PERFORMANCE CHARACTERISTICS	
Throughput	270 tests per hour, 450 tests per hour with ISE
Analyzer type	Compact fully automated random access bench top clinical chemistry analyzer
Assay type	Endpoint, kinetic and ISE
Maintenance	Daily maintenance - less than 5 minutes.

REAGENT AND SAMPLE SYSTEM	
Data management	Storage of up to 30,000 patient reports, search facility
Test channels	50 photometric channels, 3 direct ISE
Sleep mode	User defined sleep mode capabilities with automatic wash and instrument prep
Reagent pipette	Dedicated reagent micropipette with liquid level sensor and crash detection
Reagent capacity	Removable turntable with 50 cooled positions for 20ml and 70ml bottles
Reagent cooling	8 to 15°C
Reagent identification	Barcode reagent identification
Reagent inventory	Calculation of remaining reagent volume and tests available/Alert for shortage or expired reagents
Sample addition	Sampling interruption for addition of samples
Sample capacity	50 positions are contained within the universal carousel, including 10 bespoke positions for calibrators and controls
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 protection and clot detection
Sample tube size	Multiple primary tube sizes (diameter 12 to 16mm, height 55 to 100mm), Pediatric cups
Sample type	Serum, Plasma, Urine, CSF & Whole Blood
Sample volume	1.5 to 35µl (0.1µl increments)
STAT sampling	STAT samples can be added immediately via emergency loading port

REACTION SYSTEM	
Reaction time	10 minutes (R1: 5 min. + R2: 5 min.)
Reaction volume	100 to 350µl
Stirring speed	5 speed levels available
Stirring system	Dual 5 speed stick type rotating stirrers
Temperature control	Dry bath
Water consumption	Maximum 5L per hour
Water requirements	NCCLS type 1 or 2 purified water supply
Wash unit	12 stage washing process
Cuvettes	72 semi-permanent cuvettes
Incubator temperature	37°C ± 0.1°C
Cycle time	13 seconds

OPTICAL SYSTEM	
Detection principal	12 wavelengths generated via diffraction grating: 340, 380, 415, 450, 510, 546, 570, 600, 660, 700, 750 and 800nm
Light source	Halogen tungsten lamp air cooled by fan

CALIBRATION & QC	
Quality control	Interactive Levey-Jennings charts, daily, monthly and batch QC with data archiving
Calibration principal	Factor, Linear, Point to point, Log-logit, Exponential, Spline and Spline 2

POWER & CONNECTIVITY	
Power requirement	AC100V to 120V, 6.5A (Max.) AC200 to 230V, 3.3A (Max.) 50/60Hz
Power consumption	650VA
LIMS connectivity	Bi-directional ASTM Standard (RS232 connection)

OPERATING SYSTEM	
Operator interface	Windows10 based software