



FALCON 260



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FULLY AUTOMATED RANDOM ACCESS ANALYSER



Technical Specifications

Basic System

Type	: Fully Automated Discrete Random Access Analyzer. Bench Top / Floor Model optional
Throughput	: 260 tests per hour Biochemistry.
Sample Process	: Patient oriented, Batch, STAT prioritized, Continuous loading
Methods	: End Point, Fixed Time, Kinetic, Multi Standard, Multi Reagent, Bi-chromatic
Test Storage	: Unlimited test programs. Organ Profiles, Test Panels
Refrigeration	: On board cooling for Reagents, Samples, Calibrators, Standards, Controls with ON/OFF Switch
Quality Control	: Quality Control program with Levy Jennings, Multiple lots, QC charts, etc.
Calculation	: Can calculate other tests by ratio or formulas automatically
External Tests	: Facility to input other test values and print reports

Dispensing System

Probes	: 2 probes. One for Reagent & sample dispense and second for Sample mixing.
Probe function	: Level detection, Vertical and Sideways anti-collision, Depth adjustment.
Probe Wash	: Both probes wash in and out after every use.

Sample System

Sample Positions	: 40 positions with continuous loading for samples, calibrators, controls, STAT samples .
Container Type	: Cups, Transport vials, Primary tubes, 100 µl dead volume, Alarm when sample low
Sample Volume	: 2-50 µl with 0.1 µl increment, separate sample syringe of 50 µl for better accuracy
STAT Samples	: STAT / Emergency samples can be added anytime and anywhere during process

Reagent System

Reagent Positions	: 40 positions with removable tray
Reagent Volume	: 10 µl to 400 µl with 1 µl increment, separate reagent syringe of 500 µl for better accuracy
Reagent Inventory	: Continuous monitoring, Alarm when reagent low
Multiple Reagent	: Up to 2 reagents per tests can be programmed

Reaction System

Cuvettes	: 90 reusable high quality cuvettes on board. Individual cuvette can be replaced if necessary
Read Volume	: Minimum 150 µl for less reagent consumption
Washing	: 8 steps on board washing and drying of cuvettes
Water Usage	: 2-3 Liters per hour
Cuvettes Scan	: All cuvettes scanned and bad cuvettes detected to avoid wrong results
Mixing	: Mixing of Reagent and Sample in cuvette by separate mixer probe
Reaction Temp.	: Maintained at 37°C +/- 0.1°C by dry Air bath for accurate results
Online Reaction	: Online real time reaction curve displayed for each test

Optical System

Wavelengths	: 9 long life wavelengths in 300 nm to 700 nm range with +/- 2 nm precision
Reading	: Can set readings with monochromatic or bi-chromatic wavelengths
Abs. Range	: 0.0 – 4.0 Abs.
Lamp	: Halogen-Tungsten lamp with long life

Quality Control

Levy Jennings Graph, Daily & Monthly charts with SD & CV

Physical System

Dimension	: 700 mm x 620 mm x 1200 mm (W x D x H) for Floor model
Weight	: 60 Kgs.
Power Req.	: 220 V, 50 Hz.

Specifications and Design subject to change without notice due to continuous development

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