

Technical Specifications

Throughput	: 200 photometric tests per hour and 400 tests per hour with ISE ⁺ (* optional ISE with Na ⁺ , K ⁺ , Cl ⁻ , Li ⁺)
System Type	: Discrete,Open,Automated,Random Access, Patient Prioritized Clinical Chemistry Analyzer.
Onboard Parameters	: upto 50 + 4 ISE ⁺
Sample Type	: Serum,Plasma,Urine, other.
Programmable Parameters	: Unlimited
Analytical Methods	: 1-Point,2-Point,Rate-A,Rate-B,Direct Potentiometry
Calibration	: Linear, Non-Linear, Multipoint
Photometer	: Static Photometer
Absorbance Range	: 0-2.5 Absorbance
Light Source	: Halogen lamp
Optics	: 8 Filters (340-700nm) 340,405,505,546,578,600,660,700nm.
Detector	: 8 Silicon photo diodes
Sample Unit	: 30 positions for routine samples,9 positions for Blank,controls,standards,and ISE. All the positions can be used for STAT.
Reagent Unit	: 50 cooled reagent positions
Quality Control	: L.J. Plot and Multiple rules
Reaction Tray	: 45 Hard glass Cuvettes
Reaction Liquid Mixing	: Stirrer with variable speed Mixer
Reading Volume	: 180 µl.
On board laundry	: 6 stage cleaning, 2 stage Drying with Cuvette validation step
Sample Pipetting	: 2-70 µl.(Adjustable in 0.2 µl)
Reagent Pipetting	: 10-300 µl (adjustable in 1 µl)
System	: PC- IBM compatible. OS-Windows XP, CPU -P4, RAM 512 MB, HDD - 40GB, Printer -DOT Matrix, TFT monitor, Multimedia Speakers. System Interface - RS 232 Bi-Directional
Power supply	: AC 110 V. +/- 10% 60±1 Hz or AC 220 V ± 10%,50± Hz.(Factory Set)/600VA
Dimensions	: 810 mm(W)x 800mm (D)x600mm(H)



EM 200TM

Automated Random Access Clinical Chemistry Analyzer

**Biochemistry workflow management
within reach....**



Do more for less

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EM 200™

The Fully Automated, Random Access Clinical Chemistry Analyzer



Compact Bench Top Model

Ease of Operation

Accuracy and Precision

Reagent Savings

On board Laundry

On Board Cooling

Automated Pipetting

Auto Dilution Auto Rerun

Optional ISE with Na⁺, K⁺, Cl⁻, Li⁺

Stat Sampling

Open System

Wide Test Menu

QC with L.J Plot and Multiple rules



Quality Control with Multiple rules...

EM 200 comes with an extensive Quality Control Program which gives confidence in reporting by providing L.J. Chart with Multiple rules.

Different levels of controls can be run on EM 200. Flags as per the Multiple rules about acceptance of run ensures accurate reporting.

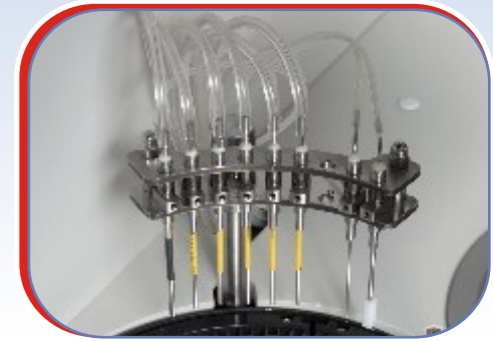
On board Laundry

8 stage laundry station ensures complete cleaning and drying.

Reaction mixture containing sample i.e. Biohazard waste is removed from the cuvette and disposed off separately in the biohazard waste container.

Cleaning is done using ERBA XL wash and DI water.

Cuvettes are checked for cleanliness and sent for drying, which is done in two stages with a cuvette validation step.



Automated Pipetting for Sample and Reagent

EM 200 has automated pipetting of reagent and sample by a robotic arm which guarantees precise liquid handling of as low as 2 µl and as high as 300 µl with an incremental volume of 0.2 µl

Robotic Capacitance Probe equipped with Liquid Level Sensor to check presence of adequate liquid in the container.

Vertical Obstruction Detection sensor protects the probe thereby increasing its longevity.



Flexible sample tray

Provides convenience for sample loading in primary tubes of 5ml, 7ml, 10ml and sample cups. All 39 positions can be assigned for Blank/Sample/Calibrator/Control/STAT Samples

An optional Barcode reader makes the operation simple and user friendly, thereby increasing operators efficiency.

Reagent Tray:

Consists of 50 cooled positions for system pack bottles. Flexible options of 50ml, 20ml Bottles & 5ml adaptor.

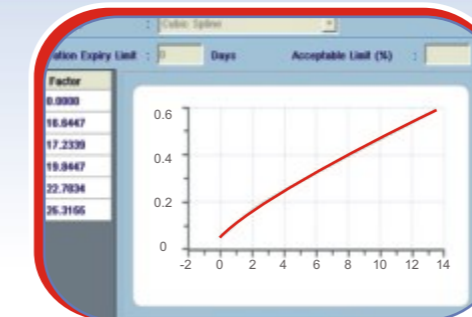


Smart Mixing ...

Immersion Mixing with user defined, variable speeds up to three levels ensures thorough Mixing.

This ensures accurate performance of Immunturbidimetric assays.

Separate cleaning station to ensure high precision.



Calibration

For Immunturbidimetric assays upto 10 standards can be used.

Calibration trace gives information of the curve as well as time of calibration.

Smart Savings...

Savings of reagent is possible in EM 200 as several chemistry parameters can be performed with reagent volume as low as only 180 µl.

Also, EM 200 comes with permanent hard glass cuvettes.



Time course

The reaction in the cuvette is monitored for the entire Reaction time. The reaction curve can be viewed online.

Each reaction curve is stored with the details of absorbance of primary and secondary wavelengths.

