

TECHNICAL SPECIFICATIONS

Principle	Ion selective Electrode (ISE)														
Sample Types	Serum, Plasma, Whole Blood, Urine, CSF														
Measured Parameters	Na ⁺ , K ⁺ , Cl ⁻ , iCa ⁺⁺ , pH, Li ⁺														
Calculated Parameters	TCa, nCa														
Sample volume	≤ 90μL														
Analysis Time	≤ 60 secs														
Throughput	≤ 60 samples per hour														
Calibration	Automatic Calibration : <ul style="list-style-type: none">• User-defined two-point calibration interval - 4 hours/ 8 hours/ 12 hours• One Point Calibration with each sample analysis														
Normal Ranges	User defined Normal Ranges for all Sample types with flagging for Abnormal Samples														
Data Management	Calibration History, Sample History and Control History of last 30 days														
Quality Control	Tri-Level Quality Control, with L J Plots of last 30 days														
Display	5" color LCD with Touchscreen Display, Resolution: 480 x 272 pixels														
Printer	Built-in 2" (48 mm) Thermal Printer, 42 characters wide														
Interface	RS-232, USB (Keyboard, Barcode reader, Mouse, Pendrive)														
Operating Temp.	15 to 35°C														
Relative Humidity	5 to 85% non-condensing														
Power Supply	110 to 240 VAC 50/60 Hz +/- 10%, 35W														
Dimensions	365mm x 255mm x 375mm														
Net Weight Sample Storage	5 Kg 10,000														
Precision	<table><tr><td colspan="2">CV % -</td></tr><tr><td>Na⁺</td><td>≤ 1%,</td></tr><tr><td>K⁺</td><td>≤ 1%,</td></tr><tr><td>Cl⁻</td><td>≤ 1%,</td></tr><tr><td>iCa⁺⁺</td><td>≤ 1.5%,</td></tr><tr><td>pH</td><td>≤ 0.5%,</td></tr><tr><td>Li⁺</td><td>≤ 1.5%,</td></tr></table>	CV % -		Na ⁺	≤ 1%,	K ⁺	≤ 1%,	Cl ⁻	≤ 1%,	iCa ⁺⁺	≤ 1.5%,	pH	≤ 0.5%,	Li ⁺	≤ 1.5%,
CV % -															
Na ⁺	≤ 1%,														
K ⁺	≤ 1%,														
Cl ⁻	≤ 1%,														
iCa ⁺⁺	≤ 1.5%,														
pH	≤ 0.5%,														
Li ⁺	≤ 1.5%,														

ISE - Tritrol



* Optional Barcode reader & LIS available.

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ISO : 9001 : 2015
ISO : 13485 : 2016

*Specifications are subject to change without the prior notice of manufacturer.



ACCURATE | RELIABLE | FRIENDLY INTERFACE



EL - 120

ELECTROLYTE ANALYZER

- Na⁺, K⁺, Cl⁻, iCa⁺⁺, pH, Li⁺
- Calculated parameters: TCa, nCa
- Low sample volume
- Fast sample processing
- Low cost per test

Erma EL - 120 is ideal for Medium to High Volume Laboratories and Hospitals. It is user Friendly & Reliable. It also allows measurement of specific ions; Accurately and Precisely. This supports Fast Diagnosis.

MAIN MENU

- Large Graphical Display affords convenience of Operation and Minimizes Errors while Entering Data
- User Friendly Software with Interactive Graphical User Interface
- Shortcut Menu Keys for Easy Operation



ANALYSIS

- Aspiration System: Internal Peristaltic Stepper Motor Pump for Accurate and Precise aspiration of Analytes
- Automatic flushing after aspiration of every sample to eliminate carryover
- Precise & Accurate Result



ELECTRODES

- Electrodes are based on Ion Selective Principle
- Electrodes can be refilled.
- Long life and Assured Stability



CALIBRATION

- Two Point Calibration after 4 hrs/ 8 hrs or 12 hrs. Programmable as per user
- One Point Calibration with each Sample Analysis
- Display Status of Calibration with Date and Time for each parameter
- Also Displays the Date and Time of next Calibration to be Performed / Due

RUN QUALITY CONTROL

- Levy Jennings plot of daily and monthly QC data to assess the performance
- Helpful for laboratories incase of Accreditation and Quality Assessment

ISEPak

- Convenient to place ISEpak which contains reagents required for all parameters
- Integrated reagent Pack for testing of All Parameters
- In-Built Reagent Inventory Management Software

URINE DILUENT AND DEPROTEINIZER

- **Urine Diluent** : Used for the Dilution of Urine Samples to Quantitatively determine Urine Electrolytes.
- **Deproteinizer** : Used for the Cleaning and Maintenance of Electrolyte Analyzer

Measuring Range

PARAMETER	SERUM / PLASMA BLOOD / AQUEOUS
Na ⁺	20.0- 200.0mmol/L
K ⁺	0.30-20.00mmol/L
Cl ⁻	20.0- 200.0mmol/L
iCa ⁺⁺	0.10- 6.00mmol/L
pH	3.00- 11.00(Unit)
Li ⁺	0.20- 5.00mmol/L

Sample Result		
Id: 22110309390001		
Date: 03/11/22 09:41		
External Id: 0001		
Name: -		
Sample Type: Aqueous		
Parameter	Result	Status
Na+	129.1 mmol/L	OK
K+	2.82 mmol/L	OK
pH	7.275 units	OK
iCa++	1.70 mmol/L	OK
nCa++	1.58 mmol/L	OK
tCa++	3.39 mmol/L	OK
Cl-	116.5 mmol/L	OK
Li+	0.8 mmol/L	OK

