

TECHNICAL SPECIFICATIONS

Principle	Ion selective Electrode (ISE)												
Sample Types	Serum, Plasma, Whole Blood, Urine, CSF												
Parameters	Na ⁺ , K ⁺ , Cl ⁻ , Ca ⁺⁺ , Li ⁺ & pH												
Sample volume	≤ 90µL												
Analysis Time	≤ 60 secs												
Throughput	≤ 60 samples per hour												
Calibration	Automatic Calibration : <ul style="list-style-type: none"> • Two Point Calibration after 4 hrs or just before Sample analysis • 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												
External Interface	USB (Keyboard, Barcode, Pendrive)												
Operating Temp.	15 to 35°C												
Relative Humidity	5 to 85% non-condensing												
Power Supply	100 to 240VAC 50/60 Hz												
Dimensions	365mm x 255mm x 375mm												
Weight Sample Storage	6.0 Kg 100,000												
Precision	<table border="1"> <tr> <td colspan="2">CV % -</td> </tr> <tr> <td>Na⁺</td> <td>≤ 2%,</td> </tr> <tr> <td>K⁺</td> <td>≤ 2%,</td> </tr> <tr> <td>Cl⁻</td> <td>≤ 2%,</td> </tr> <tr> <td>Ca⁺⁺</td> <td>≤ 3%,</td> </tr> <tr> <td>pH</td> <td>≤ 2%,</td> </tr> </table>	CV % -		Na ⁺	≤ 2%,	K ⁺	≤ 2%,	Cl ⁻	≤ 2%,	Ca ⁺⁺	≤ 3%,	pH	≤ 2%,
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Na ⁺	≤ 2%,												
K ⁺	≤ 2%,												
Cl ⁻	≤ 2%,												
Ca ⁺⁺	≤ 3%,												
pH	≤ 2%,												

ISE - Tritrol



* Optional Barcode reader available.

AGD Biomedicals (P) Ltd.
 Mehta Trade Center,
 Sir M.V. Road, Andheri East,
 Mumbai - 400 099 INDIA

P : +91-22-28231061/66
 +91-22-28257999
 E : sales@agdbio.com
 W : www.agdbio.com

ISO : 9001 : 2015
 ISO : 13485 : 2016

*Specifications are subject to change without notice.



ACCURATE | RELIABLE | FRIENDLY INTERFACE



EL - 120

ELECTROLYTE ANALYZER

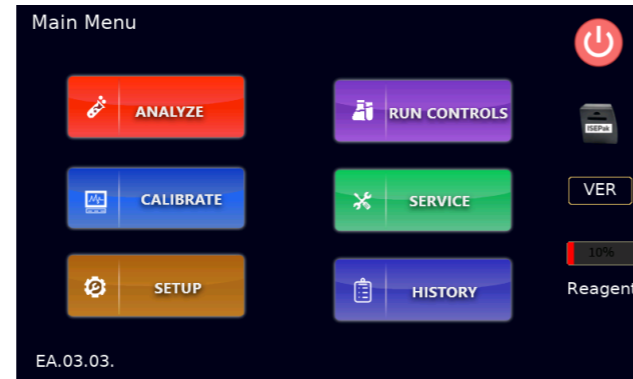
- Na⁺, K⁺, Cl⁻, Ca⁺⁺, Li⁺, pH
- Low Sample Volume
- Fast Sample Processing
- Low Cost per Test

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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 easy 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 ⁺	40 - 205
K ⁺	1.5 - 15
Cl ⁻	50 - 200
Ca ⁺⁺	0.2 - 5.0
Li ⁺	0.1 - 6.0
pH	5.0 - 9.0

Control Result
 Date : 2018-11-30 15:04:08
 Lot No : 5
 Control : LEVEL 2
 Sample Type : Aqueous

Param	mmol/L	Target
Na ⁺	141.3	140 (4.0)
K ⁺	4.33	4.25 (0.3)
Cl ⁻	104.7	105 (4.0)
Ca ⁺⁺	1.31	1.25 (0.2)

