

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 : • 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>CV % -</td> <td></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%, |
| CV % - | | | | | | | | | | | | | |
| Na ⁺ | ≤ 2%, | | | | | | | | | | | | |
| K ⁺ | ≤ 2%, | | | | | | | | | | | | |
| Cl ⁻ | ≤ 2%, | | | | | | | | | | | | |
| Ca ⁺⁺ | ≤ 3%, | | | | | | | | | | | | |
| pH | ≤ 2%, | | | | | | | | | | | | |



ISE - Tritrol



Marketed By :
VR HealthTech

Plot No. 2, First Floor, N.K. Sharma Office Road
Lohgarh, Zirakpur-140603,
Distt. Mohali, Punjab
E-mail : vrhealthtech@gmail.com
Mobile : +91-9466104609 | www.vrhealthtec.com

* Optional Barcode reader available.



VYOMAXTM
Empowering Diagnostics, Enabling Care

ACCURATE | RELIABLE | FRIENDLY INTERFACE

EL - 120

**ELECTROLYTE
ANALYZER**



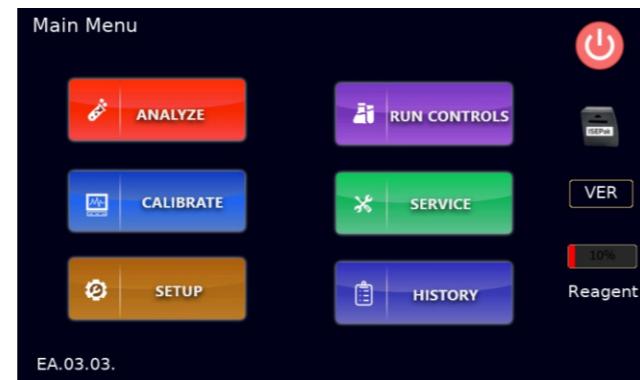
- Na⁺, K⁺, Cl⁻, Ca⁺⁺, Li⁺, pH
- Low Sample Volume
- Fast Sample Processing
- Low Cost per Test

Manufactured By :
AGD Biomedicals Pvt. Ltd.

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

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) |

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

