

## TECHNICAL SPECIFICATIONS

Principle	Ion Selective Electrode ( ISE )												
Sample Types	Serum, Plasma, Whole Blood, Urine, CSF												
Measured Parameters	Na <sup>+</sup> , K <sup>+</sup> , Cl <sup>-</sup> , iCa <sup>++</sup> , pH												
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"> <li>• User-defined two-point calibration interval - 4 hours/ 8 hours/12 hours</li> <li>• One Point Calibration with each sample analysis</li> </ul>												
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 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 border="1"> <tr> <td colspan="2">CV % -</td> </tr> <tr> <td>Na<sup>+</sup></td> <td>≤ 2%,</td> </tr> <tr> <td>K<sup>+</sup></td> <td>≤ 2%,</td> </tr> <tr> <td>Cl<sup>-</sup></td> <td>≤ 2%,</td> </tr> <tr> <td>iCa<sup>++</sup></td> <td>≤ 3%,</td> </tr> <tr> <td>pH</td> <td>≤ 2%,</td> </tr> </table>	CV % -		Na <sup>+</sup>	≤ 2%,	K <sup>+</sup>	≤ 2%,	Cl <sup>-</sup>	≤ 2%,	iCa <sup>++</sup>	≤ 3%,	pH	≤ 2%,
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iCa <sup>++</sup>	≤ 3%,												
pH	≤ 2%,												

### ISE - Tritrol



\* Optional Barcode reader & LIS available.

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



ACCURATE | RELIABLE | FRIENDLY INTERFACE



# EL - 120

## ELECTROLYTE ANALYZER

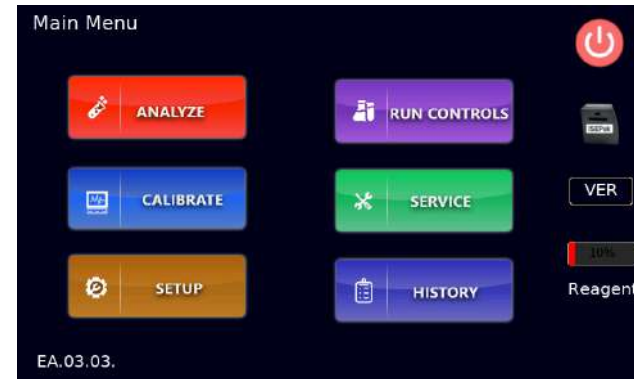
- Na<sup>+</sup>, K<sup>+</sup>, Cl<sup>-</sup>, iCa<sup>++</sup>, pH
- Calculated parameters: TCa, nCa
- Low sample volume
- Fast sample processing
- Low cost per test

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AGD 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 offers 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
- Individual IFS for stable slope



## 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

- Levey-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 <sup>+</sup>	40 - 205
K <sup>+</sup>	1.5 - 15
Cl <sup>-</sup>	50 - 200
iCa <sup>++</sup>	0.2 - 5.0
pH	5.0 - 9.0

Parameter	Result	Status
Na <sup>+</sup>	129.1 mmol/L	OK
K <sup>+</sup>	2.82 mmol/L	OK
pH	7.275 units	OK
iCa <sup>++</sup>	1.70 mmol/L	OK
nCa <sup>++</sup>	1.58 mmol/L	OK
tCa <sup>++</sup>	3.39 mmol/L	OK
Cl <sup>-</sup>	116.5 mmol/L	OK

