



EC 90

Electrolyte Analyser



Making Automation Affordable
for Labs Everywhere

www.erbamannheim.com

EC 90

Thanks to its biosensor innovative technology, high quality components and simplified daily routine, this next generation electrolyte analyser reduces the turnaround time and increases productivity and results accuracy.

Measuring Na^+ , K^+ , Cl^- and iCa^{2+} , the EC 90 ISE analyser takes laboratory measurements to new heights. By utilizing the innovative solid ISE cutting edge technology, the EC 90 is designed to be easy to use, efficient in operation and reliable.

The Magic is in the **BIO**sensor

PATENTED TECHNOLOGY



INNOVATIVE

- Clean biosensor technology
- Maintenance free technology
- Advanced connectivity and data management
- 35 μL Sample Volume
- Low reagent consumption
- 35 seconds analysis time



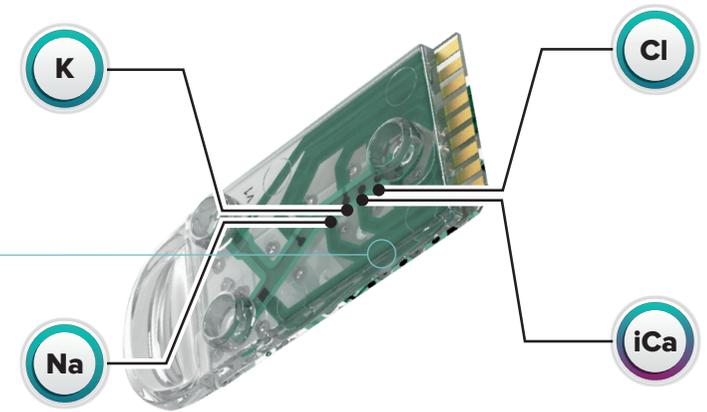
PRECISE

- Integrated reference sensor
- Automatic 1 and 2-point calibrations
- Fully functional QC module
- Within-run precision $<1\%$ CV
- Extended linearity of all parameters
- Advanced flagging



ACCESSIBLE

- Large touch screen and clean software design
- 3 months use life cartridges
- Self-contained waste
- Plug and play
- 3 different cartridge sizes: small, medium and large



THE CARTRIDGE



ADAPTIVE

Find the right size for your workload. Based on the workload, the laboratory can easily adjust the power of EC 90 with 3 sizes of cartridges: S, M or L.



SUSTAINABLE

In 2020 we won the Sustainability Design Awards in Germany and Austria for our cartridge. At Erba Mannheim we put great emphasis on developing products that are eco-friendly and innovative, for a better and more sustainable future.



500 samples / 3 months

1000 samples / 3 months

3000 samples / 3 months

CAT NO	PRODUCT NAME	PACK SIZE
INS00079	EC 90	Analyser with accessories
REG00058	EC cartridge S	500 samples / 3 months
REG00056	EC cartridge M	1000 samples / 3 months
REG00057	EC cartridge L	3000 samples / 3 months
REG00061	EC cartridge S plus iCa	500 samples / 3 months
REG00062	EC cartridge M plus iCa	1000 samples / 3 months
REG00063	EC cartridge L plus iCa	3000 samples / 3 months
REG00059	EC urine diluent	100 mL

TECHNICAL SPECIFICATIONS

Touch Screen	Operating Conditions
8.4 inch colour touch screen	15-35°C (59-95°F) / 15-90% humidity
Display	Electronics
600 x 800 pixel graphic display	microprocessor controlled
Power	Connectivity
100-240 VAC 50/60 Hz 60 W	2 x USB-A, 1 x USB-B, 1 x LAN, 1 x RS232
Dimension	Weight
D: 425 mm x W: 268 mm x H: 334 mm	<8 kg
Printout	Barcode Scanner
built-in, 24 column thermal printer	Sample/Patient ID, QC Materials Data

Metrological data	Resolution	Display Range	Reproducibility (% CV)		
			Within-Run	Between-Run	Measuring range [mmol/L]
Serum, plasma, aqueous, whole blood	[mmol/L]	[mmol/L]			
Na ⁺	0.1	20 - 200	≤ 1	≤ 2	100 - 200
K ⁺	0.01	0.2 - 40	≤ 1	≤ 2.5	1 - 15
Cl ⁻	0.1	25 - 200	≤ 1	≤ 2.5	50 - 170
iCa ²⁺	0.01	0.1 - 6.0	≤ 0.02 SD in mmol/L	≤ 0.03 SD in mmol/L	0.1 - 2.5
Urine (diluted 1:3)					
Na ⁺	0.1	13 - 1000	≤ 5	≤ 5	25 - 400
K ⁺	0.01	1 - 500	≤ 5	≤ 5	2.4 - 180
Cl ⁻	0.1	25 - 500	≤ 5	≤ 5	40 - 400

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Parameters	Technology
Na ⁺ , K ⁺ , iCa ²⁺ , Cl ⁻	electrochemistry, thick film biosensor cartridge
Principle	Sample Type
direct measurement	whole blood, plasma, serum, dil. urine, aqueous sol.
Sample Volume	Sample Temperature
35 and 90 µL measuring modes	15–35 °C
Throughput	Analysis Time
90 samples/hour	35 sec
Data Storage	Data Management
10000 samples	fully functional QC with Levey-Jennings and Westgard rules, programmable reference ranges, advanced flagging
Language/s	1-point calibration
English & others on demand	automatic 1-point calibration with every sample or on-demand
2-point calibration	Standby Mode
automatic 2-point calibration every 12 hours or on demand	automatically controlled or user defined



Scan the QR code to play the video

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TOTAL SOLUTIONS FOR CLINICAL DIAGNOSTICS
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