

EC 90







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Thanks to its biosensor innovative technology, high quality components and simplified daily routine, this next generation electrolyte analyser increases productivity, turnaround time 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 **Blo**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



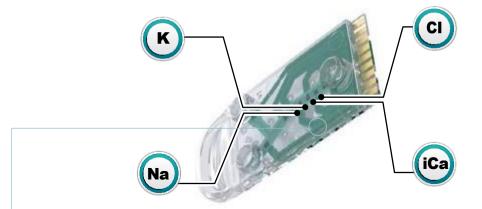
PRECISE

- · 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 packaging.

At Erba Mannheim we put great emphasis on developing products that are sustainable and innovative, for a better and more sustainable future.



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 mon		
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	100mL	







TECHNICAL SPECIFICATIONS



Touchscreen	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
Auto Sampler	Printout
to be announced	built-in, 24 column thermal printer
Barcode Scanner	
Sample/Patient ID, QC Materials Data	

Metrological data	Resolution	Display Range	Reproducibility (% CV)		
Serum, plasma, aqueous, whole blood	[mmol/L]	[mmol/L]	Within-Run	Between-Run	Measuring range [mmol/L]
Na⁺	0.1	20 - 200	≤1	≤2	25 - 400
K ⁺	0.01	0.2 -40	≤1	≤ 2.5	1 - 15
Cl ⁻	0.1	25 - 200	≤1	≤ 2.5	50 - 170
iCa2⁺	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	13 - 400
K+	0.01	1 - 500	≤ 5	≤ 5	2.4 - 180
Cl ⁻	0.1	25 - 500	≤ 5	≤ 5	40 - 400

Parameters	Technology
Na⁺, K⁺, iCa²⁺, 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