



# EC 90

Electrolyte Analyser



Making Automation Affordable  
for Labs Everywhere

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# EC 90

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  $\text{Na}^+$ ,  $\text{K}^+$ ,  $\text{Cl}^-$  and  $\text{iCa}^{2+}$ , 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  $\mu\text{L}$  Sample Volume
- Low reagent consumption
- 35 seconds analysis time



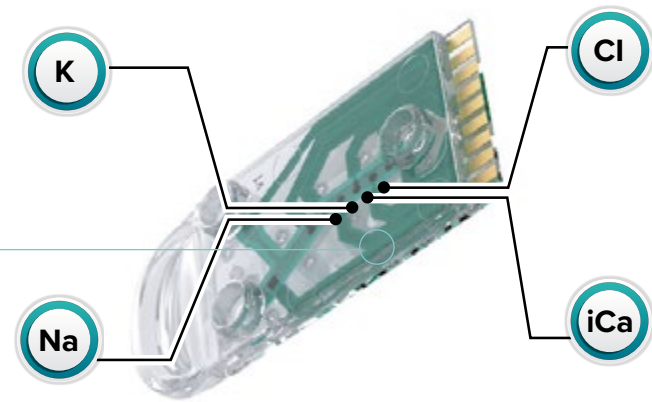
### PRECISE

- 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.

S

M

L



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	100mL

# TECHNICAL SPECIFICATIONS

<b>Touchscreen</b>	<b>Operating Conditions</b>
8.4 inch colour touch screen	15-35°C (59-95°F) / 15-90% humidity
<b>Display</b>	<b>Electronics</b>
600 x 800 pixel graphic display	microprocessor controlled
<b>Power</b>	<b>Connectivity</b>
100-240 VAC 50/60 Hz 60 W	2 x USB-A, 1 x USB-B, 1 x LAN, 1 x RS232
<b>Dimension</b>	<b>Weight</b>
D: 425 mm x W: 268 mm x H: 334 mm	<8 kg
<b>Auto Sampler</b>	<b>Printout</b>
to be announced	built-in, 24 column thermal printer
<b>Barcode Scanner</b>	
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 <sup>+</sup>	0.1	20 - 200	≤ 1	≤ 2	25 - 400
K <sup>+</sup>	0.01	0.2 - 40	≤ 1	≤ 2.5	1 - 15
Cl <sup>-</sup>	0.1	25 - 200	≤ 1	≤ 2.5	50 - 170
iCa <sup>2+</sup>	0.01	0.1 - 6.0	≤ 0.02 SD in mmol/L	≤ 0.03 SD in mmol/L	0.1 - 2.5
<b>Urine (diluted 1:3)</b>					
Na <sup>+</sup>	0.1	13 - 1000	≤ 5	≤ 5	13 - 400
K <sup>+</sup>	0.01	1 - 500	≤ 5	≤ 5	2.4 - 180
Cl <sup>-</sup>	0.1	25 - 500	≤ 5	≤ 5	40 - 400

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