

# Convergys® ISE comfort Electrolyte Analyzer

*The comfortable way of Electrolyte Analysis*



- **Measured Parameters:**  
K<sup>+</sup>, Na<sup>+</sup>, Cl<sup>-</sup>, Ca<sup>++</sup>, Li<sup>+</sup>, pH
- **100 µl sample volume of whole Blood, Serum, Plasma, Urine or CSF**
- **60 tests per hour throughput**
- **Built-in thermal printer**
- **Automatic two-point calibration**

- **2 level QC management**
- **128x64 dots LCD**
- **Easy-to-use menu with soft key interface**
- **Large data storage for 250 results**
- **Integrated air-liquid-air-liquid rinsing mode to avoid carry over**

## Specifications of Convergy's® ISE comfort

<b>Measured Parameters:</b>	K <sup>+</sup> , Na <sup>+</sup> , Cl <sup>-</sup> , Ca <sup>++</sup> , Li <sup>+</sup> , pH
<b>Measuring principle:</b>	ISE based Electrolyte analysis to determine the ion concentrations of K <sup>+</sup> , Na <sup>+</sup> , Cl <sup>-</sup> , Ca <sup>++</sup> , Li <sup>+</sup> , pH
<b>Throughput:</b>	60 tests/hour
<b>Reagent system:</b>	Calibrator-1 solution, Calibrator-2 solution, Cleaning Solution, ISE and Ref electrode filling solution
<b>Sampling method:</b>	Semi-automatic aspiration system, using Sample Cup or Collection Tube
<b>Sample volume:</b>	100 µL
<b>Sample types:</b>	Human (general): whole Blood, Serum, Plasma, Urine or CSF (Built-in reference ranges)
<b>Cleaning procedure:</b>	Chemical cleaning of the measuring chamber and tubing system with Cleaning solution
<b>Quality Control:</b>	2 QC levels. QC parameters include all measured parameters. Separate QC database
<b>Calibration:</b>	Automatic two-point calibration with additional option for carrying out one-point and two-point calibration manually
<b>Standby Mode:</b>	Pre-adjusted with automatic calibration step
<b>User interface:</b>	Easy-to-use, menu driven user interface with soft keys
<b>Languages available:</b>	English menu
<b>Data capacity:</b>	250 results
<b>Host computer Interface:</b>	RS-232 serial link for data download
<b>Built-in printer:</b>	Stationary Head Graphical Thermal Printer, 58 mm wide paper roll. Prints full report
<b>Display:</b>	128x64 dots high contrast and backlit LCD
<b>Keypad:</b>	3 soft keys for simple use
<b>Power requirements:</b>	100-120 or 200-240 VAC, 50-60Hz
<b>Operating conditions:</b>	15-30°C, 59-86°F (Optimal temperature is 25 °C, 77 °F), 20%~ 80% RH,
<b>Dimensions and weight:</b>	(W x D x H) 300 x 290 x 275mm, ca. 6 kg

### Measured parameters

Parameter	Measuring range	Resolution	Precision	Accuracy
Potassium ion(K <sup>+</sup> )	0.50 - 15.00 mmol/L	0.01 mmol/L	≤ 1.0 %	≤ 3.0 %
Sodium ion(Na <sup>+</sup> )	80.0 - 200.0 mmol/L	0.1 mmol/L	≤ 1.0 %	≤ 3.0 %
Chloride ion(Cl <sup>-</sup> )	80.0 - 200.0 mmol/L	0.1 mmol/L	≤ 1.0 %	≤ 3.0 %
Ionized calcium(Ca <sup>++</sup> )	0.50 - 5.00 mmol/L	0.01 mmol/L	≤ 2.0 %	≤ 5.0 %
Lithium ion (Li <sup>+</sup> )	0.10 - 4.00 mmol/L	0.01 mmol/L	≤ 3.0 %	≤ 5.0 %
Hydrogen ion activity(pH)	6.80 - 8.00	0.01	≤ 1.0 %	≤ 1.0 %

### Ordering information

REF	Article Name	Description
1100-1035	<i>Convergys® ISE comfort Analyzer M03</i>	Semi-automatic Electrolyte Analyzer, K <sup>+</sup> , Na <sup>+</sup> , Cl <sup>-</sup>
1100-1036	<i>Convergys® ISE comfort Analyzer M03</i>	Semi-automatic Electrolyte Analyzer, K <sup>+</sup> , Na <sup>+</sup> , Li <sup>+</sup>
1100-1037	<i>Convergys® ISE comfort Analyzer M05</i>	Semi-automatic Electrolyte Analyzer, K <sup>+</sup> , Na <sup>+</sup> , Cl <sup>-</sup> , Ca <sup>++</sup> , pH
1100-1014	<i>Convergys® ISE Calibrator-1 (480ml)</i>	Standard Calibrator-1 solution
1100-1015	<i>Convergys® ISE Calibrator-2 (200ml)</i>	Standard Calibrator-2 solution
1100-1012	<i>Convergys® ISE Cleaning solution</i>	Standard Cleaning Solution

\* Convergent Technologies reserves the right to change any of the specifications without prior notice.

\*\* Usage of original Convergent Technologies reagents is recommended

\*\*\* Full specifications are available on request