### TECHNICAL SPECIFICATION

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
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<td><strong>System type</strong></td>
<td>Automatic clinical chemistry analyzer – open, random access system, STAT samples processing</td>
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</table>
| **Throughput**                               | - 400 photometric tests/hour  
- 640 tests/hour with ISE |
| **Simultaneous measurement items**           | Max. 45 photometric tests + 4 ISE                                           |
| **Sample type**                              | Serum, plasma, urine, CSF                                                   |
| **No. of programmable parameters**           | - 96 photometric tests  
- 40 calculation items  
- 4 ISE parameters                   |
| **Assay method**                             | End-point, kinetic, ISE (direct potentiometry)                              |
| **Calibration type**                         | Linear (one point, multi point), exponential, polynomial, factor            |
| **Optical system**                           | Halogen lamp, 12 wavelengths: 340, 376, 415, 450, 480, 505, 546, 570, 600, 660, 700 and 750 nm (diffraction grating) |
| **Reagent Tray**                             | 56 refrigerated positions (8-12°C) 5, 20, 50 ml reagent containers         |
| **Sample Tray**                              | 80 positions  
- Outer ring – 50 position for samples  
- Inner ring – 30 positions for blanks, standards, calibrators, controls and ISE solutions |
| **Reagent dispensing**                       | 2 independent dispensing probes with liquid-level sensor  
- Dispensed volumes: R1 50 – 300 µl with 1 µl step  
- R2 10 – 300 µl with 1 µl step               |
| **Minimal reaction volume**                  | 180 µl                                                                      |
| **Reaction tray**                            | 72 reusable hard glass cuvettes, optical path length 5 mm                   |
| **Mixing system**                            | 2 independent stirrers, 3 mixing speeds                                     |
| **QC**                                       | Levey-Jennigs graphs, Westgard rules                                        |
| **Barcode reader**                           | Built-in barcode reader                                                     |
| **Water consumption**                        | Max. 13 l/hod.                                                              |
| **PC requirements**                          | Operating system: MS Windows XP or MS Windows 7  
- Pentium 4, RAM 512 MB, HDD 200 GB, resolution 1024 x 768                  |
| **Power supply**                             | 220 V ± 10 %, 50 Hz ± 5 %, 1 000 VA                                        |
| **Dimensions, weight**                       | 910 (w) x 780 (d) x 1160 (h)                                               |
| **Backup**                                   | Complete or selected data                                                   |

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DISPENSING OF SAMPLES AND REAGENTS
- Sample volume: 2-70µl (0.2 µl step)
- Reagent volume: R1 50-300 ul (1 µl step)
  R2 10-300 ul (1 µl step)
- 3 dispensing probes (sample, R1, R2) equipped with liquid-level sensor and crash detector
- Auto-dilution of samples and calibrators
- Clot detection

ECONOMY
- Minimum reaction volume: 180 µl
- Reusable reaction cuvettes

MIXING SYSTEM
- 2 independent stirrers
- 3 user selectable mixing speeds

QUALITY CONTROL
- 4 levels of control material can be used
- Levey-Jennigs graphs
- Twin Plot diagrams for monitoring of systematic and random error

REACTION UNIT WITH WASH STATION
- 72 reusable hard glass cuvettes
- Possibility of replacement of individual cuvette
- Wash station – cuvette rinsing and drying in eight-step procedure
- Automatic cuvette blank measurement before analysis

SAMPLE TRAY
- 80 positions for samples, blanks, standards, calibrators, controls and ISE solutions
- Primary tubes 5, 7 and 10 ml, vacuum system tubes and cups
- STAT sample with priority in any position
- Additional tray for 80 samples included

REAGENT TRAY
- 56 positions, 20 ml, 50 ml reagent containers, 5 ml tube with adaptor
- Reagent compartment with Peltier/air cooler (8-12°C)
- Option to use one reagent for several test simultaneously

SOFTWARE
- Convenient user interface
- Connection to LIS
- Programmable auto-start from sleep mode including automatic daily maintenance
- Statistical methods of processing results
- Data export in selected format

MEASUREMENT MONITORING
- Colour indication of sample analysis
- Possibility of monitoring the reaction in real time
- Reagent volume monitoring
- Informative reports on ongoing analyzer status