


SPECIFICATIONS

Feature	Details
Type of device	Desktop fully automated random access analyser
Usage	General chemistry as photometric assay. Immunology as photometric assay (Latex reagent available). ISE
Assay type	1 point end, 2 point end, 1 point rate, 2 point rate
Type of calibration	Straight, linear, Log-logit, Exponential, Spline
Throughput	400 photometric tests per hour, 240 ISE test per hour. Combined max 560 tests per hour
Incubation time	One reagent assay 5 minutes (R1) Two reagent assay, 5 minutes (R1) + 5 minutes for (R2)
Timing	9 second cycle time
Bar coding	Laser scanner, enables faster scanning of reagents.
Number of simultaneous measurement	60 items (max) + Electrolyte: 3 items
Cuvette type	Pyrex, permanent & numbered (results matched to cuvettes)
Cuvette size	8 mm(W) x 6.23 mm (D) x 30 mm (H)
Path length	6 mm
Number of cuvettes	90
Volume range of cuvette	150 µl – 450 µl
Cuvette Cleaning	8 step cleaning (using purified water and wash solution)
IRU heating method	Direct heat with silicon-rubber heater
IRU heating range	37 +/- 0.3°C
Number of samples	Max 92 (36 samples on the outer ring + 36 samples on the middle ring + 20 controls/calibrators on the inner ring)
Sample turntable	Detachable type. Removable tray with sample tube holders. Barcode detection
Sample tube dimensions	Diameter: 13 – 16 mm, Length: 75 – 100 mm
Cooling method for samples	Cooling with Peltier modules, for controls and standards, (cooling only the tubes on the inner ring)
Emergency samples	STAT sampling: Immediate sampling interruption.
Sample programming	1000 normal samples can be programmed
Sample bar coding	Can use bar coded or non-bar coded, laser scanning.
Sample pipette	1
Pump type	Syringe pump
Liquid level detection	Micropipette with liquid level sensor by sensing a change of capacitance. Bubble detection
Sample volume	2 to 35 µl (0.1 µl/step). ISE: 100 µl
Sample type (User defined)	Serum, Plasma, Urine, Common
Reagent turntable	Detachable type. Removable tray with reagent bottle holders
Number of reagents	Maximum 60 reagent positions. 30x100 ml (or 50 ml) and 30x20 ml bottle positions
Cooling method for reagents	Cooling with peltier modules. 8°C- 15°C
Reagent Inventory	Calculation of remaining reagent volume and tests available
Reagent pipettes	2 (one pipette for R1 and one pipette for R2)
Pump type	Syringe pump
Liquid detection	Micropipette with liquid level sensor by sensing a change in capacitance


SPECIFICATIONS

Feature	Details
Reagent Volume	20 µl – 350 µl (1 µl/step) for both reagent pipettes.
Reagents dispensed per test	2 reagents.
DTR method	Direct Measurement of absorbance (1 or 2 wavelength measurement) in cuvette, bi-chromatic or monochromatic.
Selectable wavelength	12 wavelength 340,380,415,450,510,546,570,600,660,700,750,800nm
Wavelength selection	Diffraction Grating method
Light source	Tungsten Halogen Lamp
Cooling for light source	Air-cooled by fan
Stirring mechanism	5-speed stirrer. Stick type rotating stirrer, optimized for each assay.
ISE unit	Integrated ISE unit
ISE measurement	Direct
ISE analytes	Na ⁺ , K ⁺ , Cl ⁻ ,
Power requirements	100 to 120VAC, 9A(Max.)/200 to 240VAC, 4.5A(Max.), 50/60 Hz
Permissible voltage variation	+/-10% (Max.)
User interface	Windows XP, host communication by RS232C with Operational PC.
Connection to host	Via RS232 bi-directional interface
Ambient temperature	15 to 30°C, 2°C/hour
Humidity	45 to 85% (No dew condensation allowed)
Outside dimension (Main analyser)	970 mm (W) x 690 mm (D) x 580 mm (H)
Weight (Main analyser)	147 Kg (max)
Water consumption	18 l/hour
Water supply	Continuous feed. Pressurised supply. On-board reservoir (700 ml). Prevents air entering analyser, therefore improves accuracy and precision
Water quality requirement	NCCLS Type 1 or 2 (Other types may be acceptable- please contact A. MENARINI Diagnostics)
Auto start/ Shutoff	Yes
Automatic sample dilution	Yes. Pre-dilution and automatic re-assay with diluted sample/reduced/increased sample volume available.
Water blank measurement	Yes
Reagent blank measurement	Yes
Test selection by profile	Yes
Copy programmes	Yes
Calculated tests	Yes, 40 available
Result output formats	Results can be output to any file on the hard drive or on a removable media e.g. USB memory stick
Data for multiple Reagents lots storable	Yes
Display of calibration data	Yes
Manipulation of calibration data	Yes
Display of several control lots storable	Yes
Display of control data	Yes
Manipulation of raw data	Raw data can be viewed and printed in table or graph format