

TECHNICAL SPECIFICATIONS

SYSTEM TYPE

Automatic clinical chemistry analyser – random access system, STAT samples processing

THROUGHPUT

400 photometric tests/hour 640 tests/hour with ISE

ON-BOARD PARAMETERS Up to 45 photometric tests + 4 ISE

SAMPLE TYPE

Serum, plasma, blood, urine, CSF, other biological fluids

NO. OF PROGRAMMABLE PARAMETERS

96 photometric tests, 40 calculated tests and 4 ISE parameters

ASSAY METHODS

End-point, kinetics, ISE (direct potentiometry)

CALIBRATION TYPE

Linear (one point, multi point), exponential, polynomial, factor, cubic spline, Logit-Log 4P, Logit-Log 5P

OPTICAL SYSTEM

Halogen lamp, 12 wavelenghts: 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: R150 – 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

0C

Levey-Jennigs charts, Westgard rules

BARCODE READER Built-in barcode reader

WATER CONSUMPTION Maximum 13 litres/hour

PC REQUIREMENTS Operating system:

Up to Win 10, Pentium 4, RAM 512 MB, HDD 200 GB, resolution 1024 x 768

POWER SUPPLY 220 V ± 10 %, 50 Hz ± 5%, 600 VA

DIMENSIONS $910 \text{ mm}(w) \times 780 \text{ mm}(d)$ x1160 mm(h)

BACKUP Complete or selected data



COMPACT. **HIGH PERFORMANCE. 32-BIT MICRO CONTROLLER BASED.**



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TOTAL SOLUTIONS FOR CLINICAL DIAGNOSTICS

Version No 1.1

CHEM-7 SEMIAUTOMATIC BIOCHEMISTRY ANALYZER

CHEM-7

Semiautomatic biochemistry analyzer

Open system

Measure principle:

colorimetry, turbidimetry, immunoassays

Optical Module

- Static photometer
- 8 interference filters: 340, 405, 450, 505, 546, 578, 600 and 670 nm
- Silicon photodiode detectors
- Photometric range from 0 to 3.0 OD
- Quartz halogen lamp 12V, 20W

Measuring Module

- Unique triple cuvette system
- o 18 µl flow cell (33 µl optional)
- o 10 mm square cuvette
- o 6 mm round glass tube with adapter for coagulation tests
- Peltier temperature control: 20 - 40°C ± 0.1°C
- Peristaltic pump
- Aspiration volume programmable from 100 μl to 2997 μl

Memory

• 5000 test results

Results recall

• Collated reports by date, ID or both

Printer and Keyboard

• 41 fixed and 6 dynamic keys

10 operation modes

- 1-point linear
- 2-point linear
- 1-point non-linear
- 2-point non-linear
- Rate A linear
- Rate A non-linear
- 1-point sample blank linear
- 1-point sample blank non-linear
- Absorbance
- Coagulation

QC

- Levy Jennings chart available for three controls per test
- Daily and monthly QC

Display

- High resolution graphic LCD 320 x 240 with backlight
- View area 120 x 92 mm

Interfaces

- USB B type port for host computer
- USB A type port for external USB DeskJet printer
- External PC/AT keyboard

Mains Supply

- 115/230V AC (±10%), 50/60 Hz (input for power adapter)
- External universal SMPS adapter (18/19.5V; 65/90W)

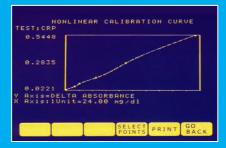
Size and weight

- Size (mm): 410 (I) x 292 (w) x 195 (h)
- Weight: approx. 7 kg

Optional accessories

- External 16 position dry block incubator
- External battery back-up





Multistandard calibration



16 cell thermostat



Battery



Connection of the keyboard



Printout of reports with external printer