

DESCRIPTION

Fully automatic, random access, continuous loading, bench - top analyzer for clinical chemistry and immunoturbidimetric assays

ASSAY TYPE

End point, Kinetic, Differential, Bichromatic and Immunoturbidimetric; up to 999 tests, all user programmable

ON LINE REAGENTS

4 racks are provided to hold up to 33 reagents that are divided as follows:
 - 2 racks cooled by Peltier cells holding up to 20 reagents
 - 2 racks for 13 reagent positions and 14 standards and controls at room temperature
 - 2 additional positions for diluents

SAMPLE LOADING

5 racks for continuous loading of samples split in:
 - 64 positions for routine samples
 - 14 positions for STAT samples

PRIMARY TUBE SIZE

Max 16 mm x 100 mm (height)

STAT SAMPLE PROCESSING

Allowed at any time

THROUGHPUT

Up to 333 tests/hour with ISE (200 without ISE)

INCUBATION TEMPERATURE

37° C

READING SYSTEM

Direct photometry

MINIMUM REACTION VOLUME

300 µl

OPTIC SYSTEM

- Photometer: multi - wavelength, dual channel optic
 - Wavelength: 8 narrow band interferential filters
 - Light Source: halogen lamp 6V/10W
 - Optical Path: 10 mm
 - Linear Range: 0.001 ÷ 2.500 Abs
 - Resolution: 0.0001 Abs

SAMPLING ARM

One mechanical arm performs all sampling operations with:
 - capacitive liquid level sensing
 - reagent pre - warming at 37° C
 - automatic probe washing

DILUTER

Dilutions are made without using traditional syringes with the following specifications:
 - sample volume: 3.0 µl ÷ 99 µl (1 µl incr.)
 - reagent volume: 3.0 µl ÷ 500 µl (1 µl incr.)

REACTION PLATE

Circular 60 semi - disposable cuvette tray with the following characteristics:
 - automatic cuvette washing
 - cuvettes Q. C. continuously monitored by the computer
 - incubation temperature: 37° C

COMPUTER (minimum requirements)

- CPU: Pentium III, 500 MHz
 - RAM Memory: 256 Mb
 - CD Rom: 32X
 - FD: 1.44 Mb, 1/3"
 - HD: 20 Gb EIDE ATA - 3 UDMA
 - Printer: Epson LX 300 PLUS
 - Communication: two RS - 232 ports, 1 parallel port
 - Software: WINDOWS XP

OPTIONS

- Direct potentiometry ISE module for Na⁺, K⁺, Cl⁻
 - Positive barcode reader

INSTALLATION REQUIREMENTS

Power Supply:
 - 90 ÷ 250 VAC
 - 47/63 Hz
 - 300 W

Water Consumption:
 2 ml/test

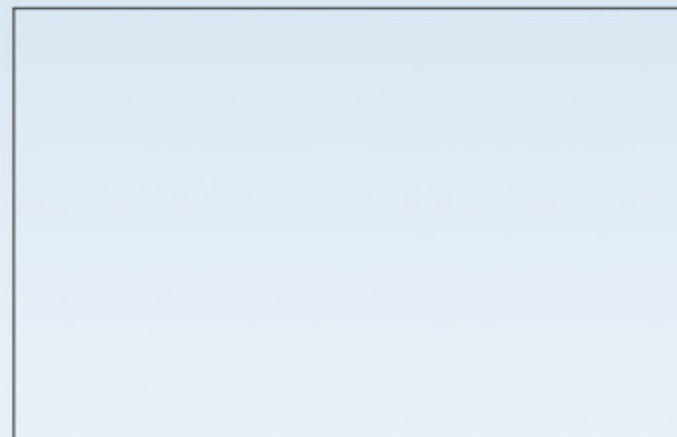
DIMENSIONS, WEIGHT & ENVIRONMENT

Analytical Module:
 - Height: 42 cm
 - Width: 65 cm
 - Length: 100 cm
 - Weight: 65 Kg

Room Temperature
 18° C ÷ 30° C

Relative Humidity:
 20% ÷ 85%

All of the above features can be changed without prior notice.



Factory:

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Clinical Chemistry
RANDOM ACCESS
 Analyzer

*Sample Testing Any Time?...
 It's up to you!*



Futura Promotion srl Tel. 0863.412308

Instrument Description

Liasys is a fully automatic, random access, continuous loading, easy - access bench - top clinical chemistry and immunoturbidimetrics analyzer. The instrument features primary tube sampling, capacitive liquid level sensing, positive identification of the samples (optional), and module for ISE (optional). It is therefore suitable to perform the daily routine of low / medium - sized laboratories in an entirely safe and reliable way, providing flexible and cost effective solutions. The Liasys multitasking and user - friendly software, running under Windows, enhances the system's potential and performance.



Sampling Arm



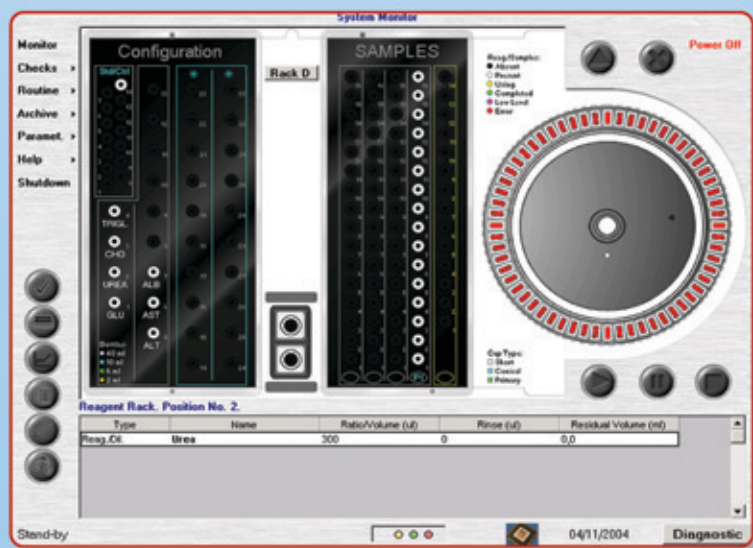
A single, heated, capacitive level sensing probe is rapidly moved by the mechanical arm to reach all the various positions and aspirate reagents, samples, standards and controls, delivering them into the reaction cuvettes for the final reading.

Probe Cleaning

The aspiration probe for samples and reagents is automatically rinsed and cleaned at the end of each sampling cycle to prevent carry - over and contamination.

Diluter

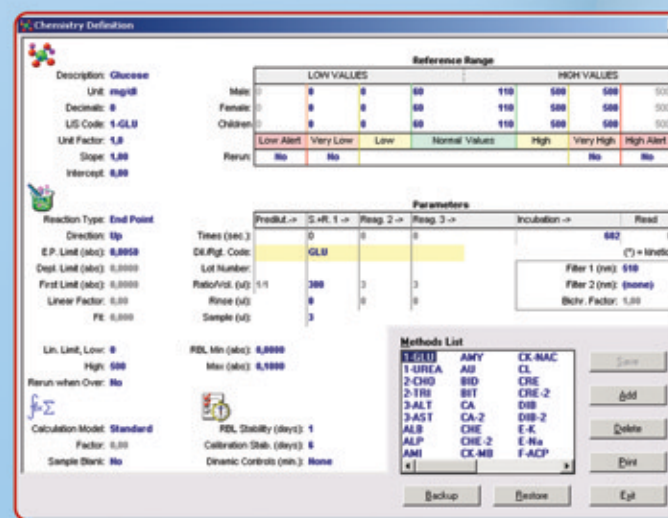
Innovative technology allows the Liasys to be equipped with a "maintenance free" diluter for sampling both reagents and samples.



Software

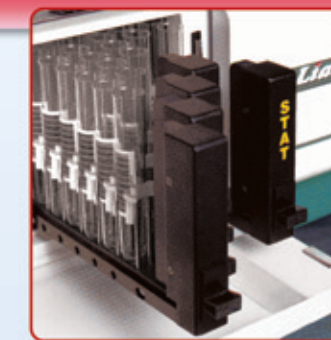
The system is equipped with a personal computer on which the operating software runs under multitasking Windows with the following main features:

- Unlimited work list entry
- Stat sample entry
- Q. C. data management
- Levey - Jennings graphics
- Patient archives
- Reagent data files
- Standard and control sera data files
- Multipoint calibration curves
- Sample predilution
- Pathological samples automatic re - run
- Up to 999 user programmable methods
- Bi - directional communication with host computer compliant with ASTM standard
- Auto - diagnosis



Sample Racks

Four separate racks each having 16 positions allow the operator to continuously load the instrument with new samples. A fifth rack having 14 positions allows STAT samples to be executed at any time. Furthermore, all the racks are specifically designed for the automatic, positive identification of the samples.



Washing Station

After taking the reading, all the reaction cuvettes are automatically washed, rinsed and dried. Following the washing cycle, the software performs the Q. C. of the cuvettes by reading them at 340 nm wavelength.



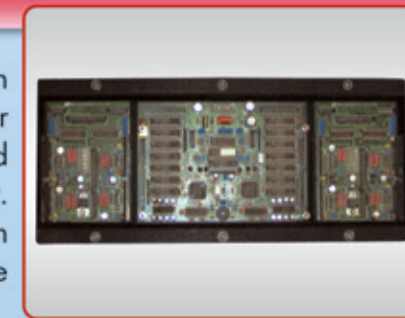
Reaction Plate

The chemical reactions of the samples take place in 60 high quality optic cuvettes which are directly read by the multi - wavelength optic system.



Electronics

The electronic assemblies such as the power supply, motor driver and PCBs are located at the rear of the instrument. Their design and position have been studied to facilitate technician's access.



Reagent Compartment

Four removable racks (two Peltier - effect cooled, two at room temperature) are supplied to hold up to 33 reagent bottles, 14 standards and controls.

