

# SPECIFICATIONS

## THROUGHPUT

- Up to 180 tests per hour;
- Up to 300 tests per hour with ISE unit.

## REAGENT SYSTEM

- Rotor with 24 positions for 25 ml bottles and 8 positions for 5 ml bottles. All positions can be assigned as R1 and R2. Adapters for 5 ml bottles in 25 ml positions;
- 5 pairs of 25 ml positions can be used for 50 ml bottles;
- Reagent 1 volume 110 - 400 µl;
- Reagent 2 volume 0 - 180 µl;
- Reagent disk compartment is cooled to approx. 12°C below ambient temperature;
- Preheated reagent needle with level detection and integrated mixer;
- Typical reagent consumption 250 µl per test.

## SAMPLE SYSTEM

- Sample rotor containing an outer segment for 51 samples and/or calibrators and an inner segment for:
  - 3 stats;
  - 1 blank;
  - 9 calibrators;
  - 5 pediatric samples;
  - 4 controls;
  - 1 wash solution;
  - 1 ISE activator.
- Continuous loading;
- All positions can contain 5 ml primary tubes or sample cups;
- Optional rotor for KABE and SARSTEDT sample tubes;
- Sample volume 1 - 30 µl per test, programmable in steps of 0.1 µl;
- Sample probe with level detection and integrated mixer.

## SAMPLE PREDILUTION (DUAL REAGENT MODE ONLY)

- Programmable ratios 1:5, 1:10, 1:20, 1:30, 1:40, 1:50 with 3 possible diluents.

## PIPETTING SYSTEM

- Hamilton syringes and valve block;
- Reagent syringe 1000 µl;
- Sample syringe 100 µl.

## REACTION DISK

- Semi-disposable rotor with 48 cuvettes. Path length 7 mm;
- Minimum measuring volume 220 µl;
- Measuring temperature 37°C, controlled by Peltier elements.

## WASHING UNIT

- Cuvette-washing with 4 x 500 µl of water. The unit is equipped with liquid sensors. Waste is separated into diluted and concentrated (sample/reagent mixture and optional ISE-unit) waste. Cuvettes are dried before use.

## LIGHT SOURCE

- Quartz-iodine lamp 12V-20W.

## WAVELENGTH RANGE

- Automatic wavelength selection by 8-position filterwheel (340, 376, 405, 436, 505, 546, 578 and 620 nm). Half bandwidth 8 to 12 nm.

## PHOTOMETRIC RANGE

- -0.1 to 3.0 Absorbance.

## ANALYTICAL MODES

- Kinetic measurement with linearity check;
- Bichromatic end point measurement with or without bichromatic reagent blank and/or sample blank correction;
- Two point measurement;
- Graphic plot of all measuring points;
- Automatic rerun with sample reduction;
- Non-linear calibration curves.

## AMBIENT TEMPERATURE

- 15-32°C;
- Maximum humidity 80%.

## MEASUREMENT CAPABILITIES (SINGLE REAGENT MODE)

- Reagent Absorbance (bichromatic) before sample addition;
- Kinetic during 7 minutes after sample addition;
- End Point (Bichromatic) 11.5 minutes after sample addition;
- Kinetic can contain two points for two-point measurements.

## MEASUREMENT CAPABILITIES (DUAL REAGENT MODE)

- Reagent Absorbance (bichromatic) before sample addition;
- Kinetic 1 for 4.5 minutes after sample addition (can be used as sample blank for Kinetic 2);
- Kinetic 2 for 4 minutes after reagent 2 addition;
- Kinetic 1+2 for 8.5 minutes after sample addition;
- Sample blank (bichromatic) before reagent 2;
- Endpoint (bichromatic) 4.5 minutes after sample addition or 11.5 minutes after sample addition;
- Kinetic 1, Kinetic 2 or Kinetic 1 + 2 can contain a minimum measuring time or two points for two-point measurements.

## CALCULATION MODES

- Prozone check for immunology tests;
- Cut-off declaration.

## QUALITY CONTROL

- Up to 15 different controls can be defined, 3 per test;
- Westgard rules;
- Levey-Jennings plots.

## STANDARDS

- CE;
- CB certificate.

## LANGUAGES

- English, German, Spanish, French, Italian and Dutch.

## DIMENSIONS

- 115 x 49 x 56 cm (W x H excl. Monitor x D).

## OPTIONS

### BAR CODE READER

- Hand held CCD bar code reader (can read all common bar codes) used for test requisition and sample identification.

### CONCENTRATED WASTE

- Separate waste container for concentrated waste.

### COMPUTER

- Minimum requirements:
  - Pentium 133 MHz; 32 MB RAM;
  - VGA Monitor 640 x 480 pixels;
  - Hard Disk: 1 GB;
  - Floppy: 3.5" (1.44 MB);
  - CD rom drive;
  - Windows '95 or '98;
  - 2 Serial ports: 1 for analyser and 1 for host;
  - 1 Printer port.

### PRINTER

- The application supports two printers simultaneously; one for patient reports and one for calibration and system data;
- Most printers supported by Windows can be connected.

### PC MONITOR TABLE

- To put monitor on top of the instrument.

### ISE UNIT

- Na, K and Cl measurements.

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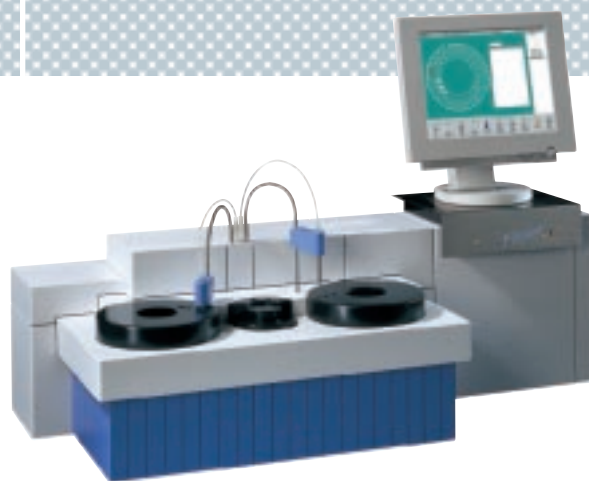
VITALAB

# Flexor E

CLINICAL CHEMISTRY ANALYSER

The  
economical  
solution

for  
all  
your  
needs



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GIVING YOU PEACE OF MIND

Proven and modern technology meeting all your needs: reliability, flexibility, convenience and economy. The design features and specifications make the Flexor-E a true all-round analyser. As a main system, as a back-up system, for routine chemistry or as a dedicated immunoproteins and drugs testing analyser, the Flexor-E does the job without compromising quality.



### The economical solution

With the Flexor-E your return on investment is guaranteed:

- Reagent volume is up to 30% less than most similar systems: giving you substantial savings on reagent;
- Reusable long-life cuvette-rotor is the only dedicated consumable required, saving you significant amounts on numerous costly consumables required by other systems;
- High reliability and limited need for maintenance parts: offers you low cost of maintenance;
- Optional Concentrated Waste System: saves costly waste removal.

Whether you call it Low Cost per Test or Low Cost of Ownership, the unique features of the Flexor-E save you money and guarantees a quick payback.







REAGENT ROTOR



CUVETTE ROTOR AND WASHING STATION



SAMPLE ROTOR

### You name it, the Flexor-E does it

- Clinical Chemistry;
- Special Proteins;
- Drugs of Abuse;
- Therapeutic Drugs;
- Electrolytes.

Without any doubt, the Flexor-E continues to show excellent performance for almost every application. Low volumes, low concentrations, turbidimetrics...the superior optical design of the Flexor-E offers you the accuracy you need. Plus on-board reagent cooling under every lab condition.

### Throughput & True Walk Away Capacity

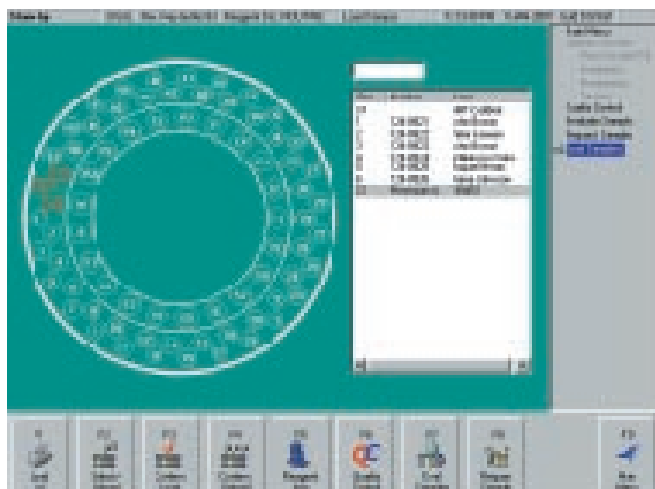
The Flexor-E combines throughput (180 tests per hour; 300 tests per hour with ISE) with true Walk Away Capacity (up to 4.5 hours), bringing a much higher true throughput than systems requiring continuous attention even with higher theoretical throughput.

### System Intelligence

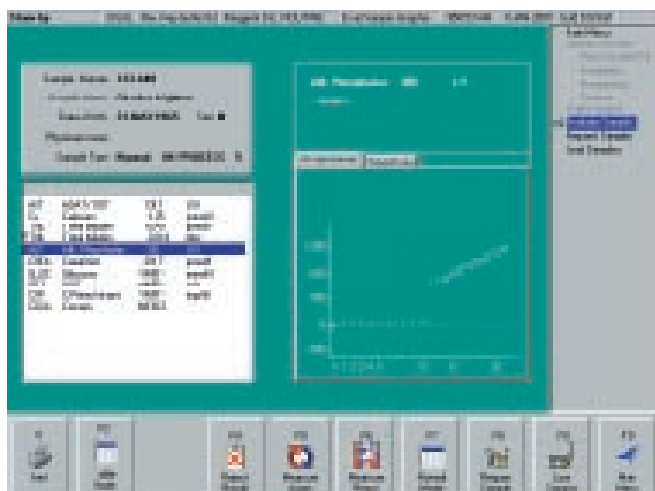
- Random Access;
- Continuous Loading;
- Level Sensing;
- Test Incompatibility;
- Pre-dilution and Automatic Rerun;
- Interactive Maintenance Procedures;
- Host Connection;
- Barcode Identification.

Features you normally only see in advanced high throughput systems are incorporated as standard in the Flexor-E.

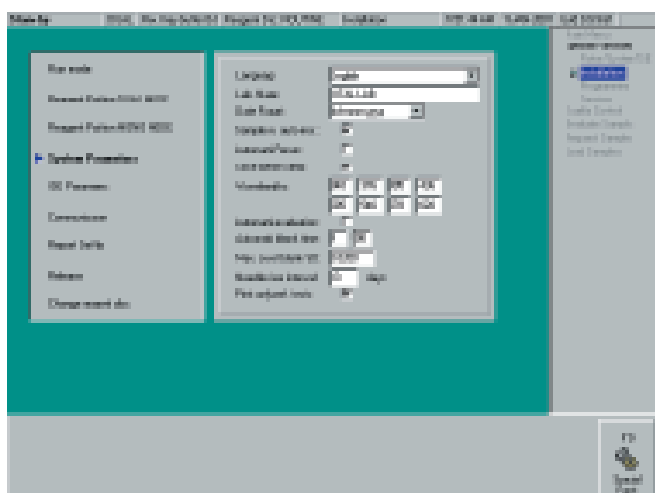
Giving you convenience and economical solutions.



LOAD SAMPLE MENU



EVALUATE SAMPLE MENU



SYSTEM PARAMETER MENU

### Simplicity

Discover the simplicity of operating with the new Windows™ based software. Mouse clicks and/or function keys offer the operator the maximum convenience desired.

Skilled laboratory staff will be able to run the Flexor-E within an hour. System maintenance instructions are also integrated in the software.

### On-Board Quality Control

QC results are stored in memory and are easily displayed on the screen. The software calculates the mean, standard deviation and coefficient of variation.

Results validation using Westgard rules and a display of the Levey Jenning plot are also included.

### Network and Host Facilities

The use of an external Operator Console easily enables the integration of the Flexor-E to a local network.

Bi-directional Host Connection allows the system to receive instructions and to transmit data to the data management system.