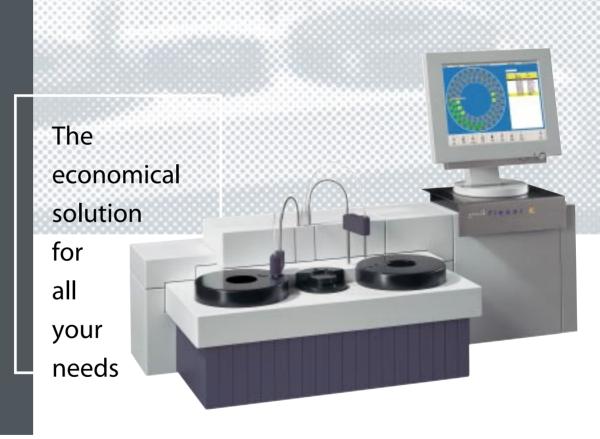


# flexor E

CLINICAL CHEMISTRY ANALYSER





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.

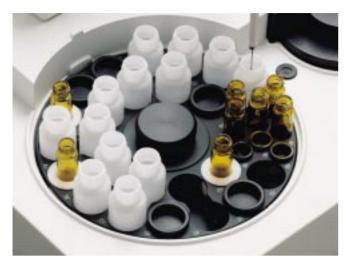
## VITALAB flexor E

#### 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.





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.

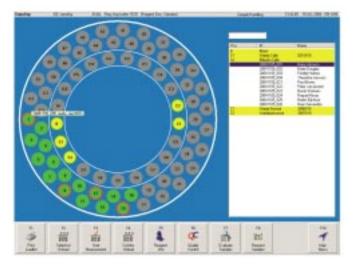
### **Throughput & True Walk Away Capacity**

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.

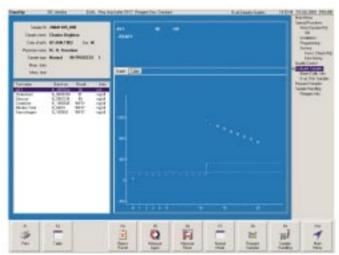
## **System Intelligence**

- 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<sup>™</sup> 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.

#### **Three Reagent System**

The software supports a "three reagent system".

This feature makes the Flexor-E the ideal platform for special applications, which require long incubation times.

#### **Network and Host Facilities**

The use of an external Operator Console easily enables the integration of the Flexor-E to a local network. Further, with dedicated remote control software the Flexor-E can be fully operated and data can be examined from any location.

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



#### 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, R2 and R3. 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 3 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:
- Outer segment with 51 positions for samples and/or controls;
- Inner segment for calibrators, controls, stats, blank and wash solution;
- Stat and pediatric functionality;
- Continuous loading;
- All positions can contain 5 ml primary tubes or sample cups;
- Sample volume 1 30 μl per test, programmable in steps of 0.1 μl;
- Sample probe with level detection and integrated mixer;
- Optional rotor for KABE and SARSTEDT sample tubes.

## SAMPLE PREDILUTION (MULTIPLE REAGENT MODE ONLY)

- Pre-programmed ratios selectable from 1:2 to 1:100 with 3 diluents;
- Automatic parent calibrator dilution.

#### **PIPETTING SYSTEM**

- Reagent syringe 1000 μl;
- Sample syringe 100 μl.

#### **CUVETTE ROTOR**

- Semi-disposable rotor with 48 cuvettes. Path length 7 mm;
- > 10.000 tests per rotor;
- Min. 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.

#### OPTICS & WAVELENGTH RANGE

- Optical unit with an 8 position filter wheel;
- Automatic wavelength selection by 8-position filter wheel (340, 376, 405, 436, 505, 546, 578 and 620 nm);
- Other wavelenghts available on request;
- 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

- 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.

## MEASUREMENT CAPABILITIES (TRIPLE REAGENT MODE)

 Additional timings available for three reagent system.

#### 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.

#### CERTIFICATES

- CE;
- CB.

#### LANGUAGES

- In conformity with CE/IVD requirements;
- Other languages on request.

#### WEIGH'

• 74 kg.

#### DIMENSIONS (RENCHTOD)

 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 reagent identification.

#### CONCENTRATED WASTE

Separate waste container for concentrated waste.

#### COMPLITE

- Minimum requirements:
- Pentium based: 800 MHz;
- RAM 128 MB;
- Monitor VGA 1024 x 768 pixels;
- Hard Disk: 2 GB;
- Floppy: 3,5" (1.44 MB);
- CD ROM drive;
- Windows 2000 english / US;
- 1 serial port for analyser; 1 serial port for host; 1 or 2 printer port(s).

#### 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.

#### ISE LINIT

- Na, K and Cl measurements;
- CO<sub>2</sub> measurement optional.

With over 40 years experience in the design and manufacture of award winning scientific and laboratory instrumentation, Vital Scientific has the proven expertise and know-how to respond to your needs.

Skilled employees, powerful design tools, precision engineering and a policy for top quality components lie at the very heart of our good manufacturing practices. By accepting nothing but the very best, Vital Scientific - an ISO 9000 / 13485 compliant and FDA registered company - is well equipped to meet the highest standards.

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