

Service Beyond Your Imagination



VEC-300⁺

Fully Auto Random Access
Biochemistry Analyzer

With
System Packs



SALIENT FEATURES

- Fully Automated Random Access Clinical Chemistry Analyzer
- Throughput 300 photometric test/hr and 450 test/hr with ISE (Optional)
- Onboard 8 stop 14 steps laundry mechanism
- Two separate probes for reagents and sample
- Maintenance free Ceramic piston syringes for sample and reagent
- 40 reagent positions and 60 sample positions
- Online real time monitoring of reaction curve
- Liquid level detection through capacitance
- Online inventory management system

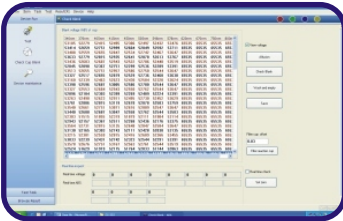
TOLL FREE
1800-270-1027

www.vectorbiotek.com



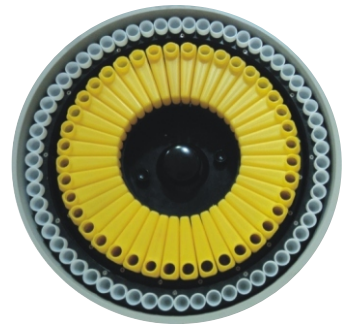
Laundry Mechanism & Reaction System

- 8 step 14 Steps automatic washing of reaction cuvettes
- 2 step dryer to dry the reaction cuvettes
- Each cuvette washes with alkaline detergent and high pressure warm water
- Vacuum draining to ensure the precise washing of cuvettes
- Check water blank of cuvettes with all filters to ensure the accuracy of result
- Auto escalates facility if cuvette blank absorbance is high
- High quality UV passed pyruve material cuvettes
- Individuals cuvettes can be replaced



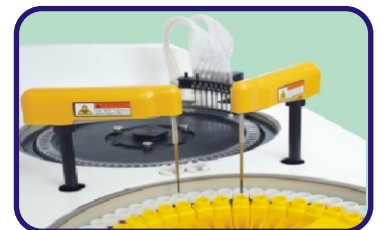
Reagent and Sample Disk

- 40 Reagent position compatible with 45ml & 18 ml reagent bottles type
- 60 sample position STAT on priority compatible with test tube, vacutainer, sample cup and nano tube etc.
- Onboard refrigeration of reagent and sample disk to ensure reagent and longer QC and calibration stability
- All sample positions are flexible for STAT, QC and calibrator
- Low dead volume adjustments



Reagent and Sample Mechanism

- Separate probes for reagent and sample
- Probe polished with nano processing technology to reduce cross contamination
- Capacitance liquid level sensing technology to detect accurate liquid level
- 2 separate maintenance free long life ceramic piston syringe for sample and reagent which precise sample of reagent/sample
- Liquid level detection and collision protection



Ceramic Syringe



- Maintenance free long life ceramic piston syringe with precision of 0.1 steps
- High grade air displacement syringe to ensure precise sampling of reagent / sample
- Made from high grade acrylic material with trouble free operation
- Breakage, crack and leakage proof
- Life spans more than 10 million

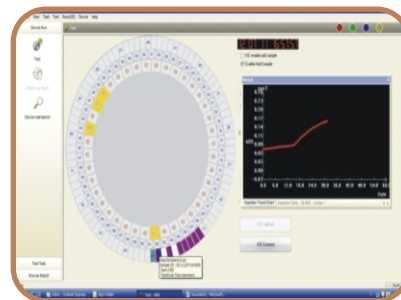
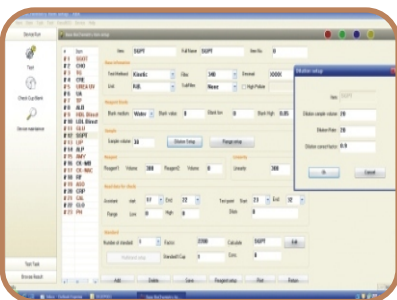
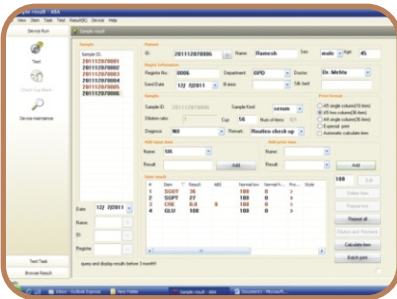
Calibration & QC Function

- Multipoint calibration mode, linear and non linear with flexible calibration method
- 9 types of calibration method can be programmed with 3 different level of Q.C
- Real time daily Q.C function to ensure the system is working at best analysis conditions
- Westgard multi Q.C program can be defined at different level of control
- QC plot: westgard multi rule, Cumulative sum check, Twin plot



Real Time Monitoring

- Real time monitoring of reaction curve of individual cuvettes
- Real time monitoring of calibration and quality control
- Real time monitoring reagent/ sample status and residual volume
- Real time monitoring Lamp intensity, distilled water tank and waste tank status
- Real time monitoring of Reaction disk temperature etc.



VECSYS

- A complete range of biochemistry reagent system
- Fully compatible with all biochemistry analyzers
- Highly economic and affordable with superior quality
- Highly stable ready to use reagents with long shelf life (ALP, Albumin, Amylase, ADA, Bilirubin, Cholesterol, Creatinine, Creatinine (Enz.), Calcium, CK-MB, CK-Nac, Glucose, GGT, HbA1c, HDL-D, LDL-D, Lipase, LDH, Phosphorus, SGPT, SGOT, Triglycerides, Total Protein, Urea-UV & Uric Acid)



TECHNICAL SPECIFICATION

System Function

System Type	: Automated, Discrete, Random Access Clinical Chemistry Analyzer with STAT Priority
Measuring Principles	: Absorbance, Photometry and Turbidimetry.
Analysis Mode	: End Point, Initial Rate, Kinetic with single/double reagent chemistry.
Onboard Parameter	: 40 Photometry items and 3 ISE (Optional)

Sample/Reagent Mechanism

Sample Probe	: Nano polished separate sample probe
Reagent Probe	: Nano polished separate Reagent probe
Mixer Probe	: Nano polished Separate Mixer probe
Sample Position	: 60 Flexible sample, calibrator, Q.C. position including STAT on priority
Sample Container	: Regular sample tube, sample cup and vacuum tube etc
Sample Volume	: 1-100 µl with step of 0.1 µl
Sampling Technology	: Liquid level detection and collision detection
Probe Cleaning	: Automatic cleaning of warm water internally and externally with high pressure jet wash

Onboard Laundry Mechanism

Reaction Cuvettes	: 90 optical Pyruve material cuvettes
Wash Station	: 8 stop 14 steps washing with alkaline detergent and warm water
Dryer	: 2 steps Dryer
Minimum reading Volume	: 200 µl
Recommended Reading volume	: 300 µl
Reaction time Setting	: Random setting with 3 – 16 minutes
Reaction Temperature	: 37°C ± 0.1°C
Reaction Disk constant Temperature	: By heating coil

Optical System

Light Source	: 20w, 12v halogen lamp (life more than 3000 hrs)
Monochromator	: High quality filter based optics system
Wavelength	: 12 wavelengths 340, 376,405, 415, 450, 510, 546, 578, 620, 670, 750, 800nm
Detector	: Photoelectric LED array
Absorbance Range	: 0 - 3 Abs

Calibration & Control System

Calibration Mode	: Linear, non linear, one point, two point, multipoint and K factor
Q.C Rule Curve	: Westgard multi rule, day to day Q.C
Q.C Alarm	: Auto warning for out of control results

Operating System (Optional)

PC Configuration	: CPU ≥ 2.2 Ghz, RAM ≥ 1 GB Hard disk ≥ 160 GB, Color Display (Monitor) Inkjet or Laser Printer (optional)
PC Operating System	: Window XP and Window 7
System Connection	: RS 232, 2 serial ports (1 for Analyzer and 1 for Host)

Working Conditions

Room Temperature	: 25°C - 30°C
Relative Humidity	: 85%
Dimension	: 85cm X 72cm X 53cm
Weight	: 90 kg



VECTOR BIOTEK PVT. LTD.

Factory & Registered Office:
425, NEW GIDC, KABILPORE, NAVSARI - 396 424. (GUJ.) INDIA
Toll free:1800-270-1027, +91 93757 94103, Fax: +91-2637-265105
E-mail : service@beaconindia.com, Web: www.vectorbiotek.com
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