

AUTOMATIC CHEMISTRY ANALYZER

VITA CHEM 200



AUTOMATIC CHEMISTRY ANALYZER

THE PREMIUM DESIGN



Fully Automated Benchtop solution. The VITACHEM 200 benchtop system is the perfect choice for a clinical chemistry laboratory growing into a Market, seeking a fully automated and integrated solution to increase workflow capacity whilst producing reliable results.

VITACHEM 200 has built a solid worldwide reputation for reliable and accurate performance. The VITACHEM 200 offers a compact design, with a best-in-class operator interface. Together with a broad menu of ready-to-use, liquid stable reagents, the VITACHEM 200 provides a fully integrated chemistry solution when growing into a laboratory.

The VITACHEM 200 system runs typically up to photometric 300 tests per hour to serve laboratories with primary, STAT, Random Access or backup testing needs. The system offers minimal maintenance and effective use of consumables to truly reduce operational costs.

MAIN FEATURES

- Dedicated low Sample/Reagent Volume required for Test
- High precision of Sampling & Low Maintenance Cost

High Accuracy

With the Evading Functions , can increase the times of Cleaning by software setting , effectively eliminates cross contamination, such as cross contamination between reagents or that caused by turbidity test

Upon detection of an abnormal in water blank measurement before analysis , it is automatically skipped over for exclusion from analysis cuvettes number will be displayed

Auto washing with heated water keep the cuvette temperature stable

Reliability

With VOD (Vertical Obstacle Detection) system , automatically and precisely detect liquid level

With the volume tracking technology , real-time monitoring the reagent level

ID Management function ensures reliability & security , user access to data enquiry & maintenance are under control .

High Performance

Holographic concave flat field grating with rear spectrophotometry , cluster optical path , can achieve micro achieve micro volume detection of reaction solution . stable data photometry can be achieved even in a minimum reaction volume .

Convenience

Function of Emergency analysis is available

The sample disk has a free adaptor for allowing the user to set sample cups and sample tubes for different sizes

Two or more bottles can be set for one reagent that is consumed in large quantity for frequently requested test items .

The Analysis results of each test can be checked on screen Laboratory can therefore response to any urgent inquiry from the in-patient and out-patient department . Moreover, in STAT sample analysis , all test result data can be transmitted to be host computer .

Advanced Software Program

Serum Indices detection function

Auto rerun (repeating/increasing/decreasing Mode)

If the test result is out of reference range , the system will run the previous again

Multi-point Calibration Function

Alarm automatically , and the alarm content will be displayed on screen simultaneously

Optimum test sequence setting program to avoid carry-over

If the test between two or more items exist carry-over . the function is available to adjust the test sequence of these items . The function ensures the high accuracy of our analyzer

Dirty Cup Avoidance function

The reaction cup can be cleaned & detected automatically . If the contamination rate exceeds the standard , the reaction cup can be avoided to use automatically

Dynamic & real-time display the running status

Dynamix Monitoring the running status of reagent tray

Real-Time monitoring the reagent residual volume

Real-Time diagnosis the working status of system

Original Reaction Data record

Real-Time Monitoring the reaction Curve

Simultaneously display primary & Secondary Wavelength to avoid interface

TECHNICAL SPECIFICATIONS

System	Fully Automated , Random Access Chemistry System with STAT Capability
Throughput	Constant photometric 300 T/H (450T/H with ISE Optional)
Photometry	Mono-chromatic & Bi-Chromatic Measurement with Multi-wavelength diffraction grating with 13 wavelength options . 340-800nm
Assay Method	1-Point end , 2-Point end , Fixed , Rate-A and Rate-B
Calibration	Linear , Non-Linear , Multipoint , K Factor
Absorbance Range	0-3.8A
Sample Type	Serum, Plasma , Urine , other
Sample Capacity	Sample tray 79 positions (39 Interchangeable) for routine samples (all positions can be used for STAT Samples
Sample Volume	1.5-20 ul in 0.1ul step
Sample Cups	Sample cups sample tubes in different size
Reagent Tray Capacity	80 (39 Interchangeable) refrigerating reagent positions
Reagent Storage	4C to 12C
Mixing Function	Independent stirring Arms
Reagent Volume	15ul-200ul in 0.5ul step
Reaction Cuvettes	Cuvettes Made of UV Free Plastic
Min. Reaction Volume	75ul
Reaction Time	10min or 22 min
Reaction Incubation	37C , water bath
Light Source	Long-Life Halogen Lamp
Detection of Needle Blockage	Clot detection sensor
Barcode	Optional
Automatic Cleaning System	Carrying rate \leq 0.05 %
Automatic Sample Dilution	Pre-Dilution & Post Dilution
Operating System	Win10
Dimensions & weight	720(W)x780(D)x600(H)mm Approx.80Kg
Power supply	220/110V , 50/60Hz

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