

Automatic Chemistry Analyzer



Analysis system

Working mode: Discrete/random access
Test speed: test speed 300T/H (without ISE)
Test principle: Absorbance photometry, Turbidimetry
Methodology: End-point, Fixed-time, Kinetic, Single/Dual reagent chemistries, monochromatic/bichromatic
Linear/non-linear multi-point calibration
The longest reaction time: 15 minutes
Minimum reaction volume: 150µl
Cuvettes material: plastics (quartz glass can be selected), 81 cuvettes have the function of automatically deducting reagent and sample blanks
Linear range of absorbance: 0-3.8Abs
Halogen light source using time \geq 2000 hours
Wavelengths: 340nm, 405nm, 450nm, 510nm, 546nm, 578nm, 630nm, 670nm
Refrigeration system: water medium uniform refrigeration technology
Reagent storehouse temperature: 4-16°C
Reaction temperature: 37 \pm 0.2°C
Temperature fluctuation: \pm 0.1°C

Working Conditions

Temperature: 15°C-30°C
Humidity: \leq 85%
Water consumption: 18L/hour, De-ionized water
Power supply: 200-240V 50/60HZ 1000W or 100-120V 60HZ 1000W
Dimension: 978mm(w) \times 784mm(D) \times 773(H)
Net weight: 89KG
Rough weight: 129KG

Dia-CHEM
360

Dia-CHEM
360

Automatic Chemistry Analyzer



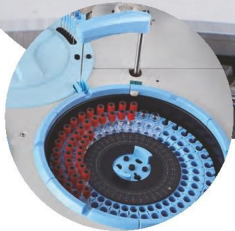
 **DIATEK** HEALTHCARE PVT. LTD.

Corporate Office :

P-27, Kalindi Housing Scheme,
Kalindi, Kolkata, WB, India, Pin - 700089
Email : diatek@rediffmail.com,
TEL : +91-33-25223075/3448/3646
Fax: +91-33-25222401

Automatic Chemistry Analyzer

Dia-CHEM
360



Product features

Operating System

English operating system: Windows2000, windows XP, windows7, windows8, windows10
Make print format and content freely, provide several common formats

Special user management password, rational distribution of user operation permissions

RS-232 standard interface, support for intranet, remote print report

Optional various databases, autosave, automatic backup, save all kinds of data permanently

Real-time monitoring of sample tray, reagents tray, reacting tray; Real-time display of reaction temperature, reagent allowance, reaction curve, calibration curve and quality control chart

Check and judge reaction endpoint, reaction linear interval, substrate exhaustion, reagent blank absorbance, etc.

Reagent Handling

Reagent tray: 80 positions in refrigerated compartment(4-16°C)
Reagent volume: R1:150-300 μ l,R2:20-150 μ l
Reagent probe: Liquid level detection, collision protection and inventory check
Probe cleaning: Interior and exterior automatic probe washing

Sample Handling

Sample tray:120 positions for sample primary or secondary tubes and sample cups
Sample probe: Liquid level detection, clot detection and collision protection
Probe cleaning:interior and exterior automatic probe washing
carry-over<0.05%

Reaction cuvettes cleaning system

3 groups of cleaning probes, low carry-over
Optional acid and alkali cleaning solution



Discrete, random access, fully automated
Up to constant 300 tests per hour
Optional for external bar code reader
120 positions for samples and 80 positions for reagents

Automatic probe cleaning, liquid level detection, collision protection

Reversed optic system with 8 wavelengths

Refrigerated reagent and sample compartment

Sampling and mixing system

Sample capacity: 2-30 μ l, 0.1 μ l increasing

Sample probe: The inner and outer walls are highly polished, with the function of liquid level detection, tracking and collision protection, sample probe matching special cleaning liquid, prevent cross contamination

Reagent capacity: 20-300 μ l, 0.1 μ l increasing

Reagent probe: The inner and outer walls are highly polished, with the function of liquid level detection, tracking and collision protection

Reagent bottle: Reagent bottles with volume of 15ml, 20ml, 30ml, 50ml, 60ml and 70ml can be used, and the dead volume is less than 1ml

Mixing bar: Double mixing bar, S and R2 independent mixing bar to reduce cross contamination. The mixing bar is made of special material, surface treatment using Teflon, not hanging liquid, thoroughly clean before and after mixing to prevent cross contamination



Calibration and quality control

Quality control type: real time quality control, daily quality control, day to day quality control

Quality control charts L-J, Cumulative, Twin Plot
The quality control rules are arbitrarily formulated by default to Westgard multiple rules

The calibration type: linear and nonlinear; Logit-4P, Logit-5P, Spline, exponent, polynomial, factor method
Automatically check the calibration curve and select the best calibration type of the fitting degree automatically