

- 400 tests per hour, up to 640 tests per hour with ISE Up to 77 onboard chemistries and 4 ions Refrigerated reagent compartment
  - Automatic probe cleaning, liquid level detection, clot detection, collision protection in both vertical
  - and horizontal directions

Onboard capacity of 90 sample positions

8-step auto washing system 12 wavelengths: 340~800nm

Automatic dilution for abnormal sample

Clot detection: to avoid incorrect reaction

Sample probe

Interior and exterior washing

Clot

at the very beginning of the reaction process.

Sample probe

Clot sample

**Multi-functional sample tray** 

Can be programmed into 5 virtual

Primary tubes and various sample cups

Automatic dilution of high concentration

Test sequence optimization to reduce

Total reaction volume as low as 150µL

medilak

Contains 90 reaction cuvettes

Maintenance free heating system

Pre-dilution for abnomal sample • Internal sample bar code reader (optional)

90 sample positions

sample disks

can be used

**Reaction tray** 

**High quality ISE Module** 

Na<sup>+</sup>, Cl⁻, Li<sup>+</sup>

6 months shelf life

**Washing station** 

diagnostics

8-step auto-washing

hour

• Optional selection of K<sup>+</sup>, Na<sup>+</sup>, Cl<sup>-</sup> or K<sup>+</sup>,

Throughput: up to 240 or 320 tests per

• High tech washing station to guarantee accurate results and ensure valid

carry-over

- Internal bar code reader (optional) **Bi-directional LIS interface**

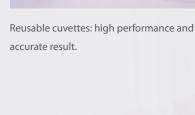




Convenient to use: real-time monitoring

of working status, emergency tests are

indicated by the LED display.











**Multi-functional reagent probe** 

Interior and exterior probe washing

Probe depth adjusted automatically

**Multi-functional sample probe** 

Interior and exterior probe washing

Liquid level detection

Clot detection

Liquid level detection

Collision protection

Inventory monitoring



## Collision protection Probe depth adjusted automatically Sample volume as low as 2.0µL





**Refrigerated reagent tray** 

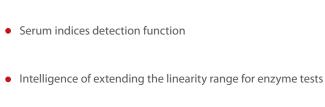
element

80 reagent positions for R1, R2, R3, R4

24 hour non-stop cooling with Peltier

Ready-to-use liquid stable reagents

Internal reagent bar code reader (optional)



Multi-point calibration: up to 10 points

Auto rerun: in repeating/increasing /decreasing mode

Power-off memory protection: in case of emergency shutdown,

the system quickly stores all the current information. When

powered on again, it will carry over unfinished tests without

Comprehensive indications for out-of-control results and

Condtions
Date
2007- 2-13

automatically

Comprehensive and sophisticated software program

**Chemistry Analyzer** 

**BS-400** 

requesting again Reaction trend graph of patient's history records

detailed causation records

- Automatic alarm during running process with explanations displayed Optimum test sequence setting program to avoid carry-over
- Dynamic and real-time display of running status Running status of reagent tray, sample tray and reaction tray

Real-time monitoring of reagent residual volume

Real-time diagnosis of system working status

Template Modifying Software Fast Emergency Detection

Blood Bank Proprietary Model

Flexible and Convenient software function

redundant procedures such as requesting, scanning, etc.

**BS-400** 

System function:

Throughput:

Methodology:

Programming:

Sample Handling: Sample tray:

Sample volume:

Sample probe:

Probe cleaning:

Dilution vessel:

Throughput:

Reagent tray:

Automatic sample dilution:

Measuring principles:

**Chemistry Analyzer** 

**Technical Specifications** 

STAT sample priority

monochromatic / bichromatic

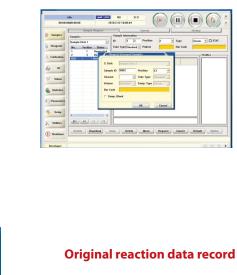
 $2\sim45~\mu l$ , step by 0.1  $\mu l$ 

protection

Cuvette

Internal bar code reader (optional):

carry-over  $\leq 0.1\%$ 





Detailed profile of alert messages

Fully automated, discrete, random access for routine, STAT, urine and homogeneous immuno assays; Probe cleaning: 400 tests/hour, up to 640 tests/hour with ISE Reaction System: Absorbance photometry, turbidimetry Reaction rotor: Cuvette:

End-point, Fixed-time, Kinetic, optional ISE Single/Dual/Triple/Quadruple reagent chemistries, Reaction volume:  $150\sim360\mu l$ Operating temperature: 37°C User defined profiles and calculation Mixing system:

Liquid level detection, clot detection and collision Automatic washing both interior and exterior, Pre-dilution and post-dilution dilution with ratio up to 1: 150

Used for sample and reagent programming; applicable to various bar code systems including Codabar  $\+$  ITF (Interleaved Two of Five)、code128、code39、UPC/  $\mathsf{EAN}_{\, \smallsetminus}\,$  Code93; capable to communicate with LIS in a bi-directional mode ISE Module (optional): Optional selection of K+, Na+, Cl-, or K+, Na+, Cl-, Li+ Up to 320 tests per hour Reagent Handling:

80 positions in refrigerated

R1:  $150\sim350\mu l$ , step by  $1\mu l$ ;

R2/R3/R4: 20~350μl, step by 1μl;

2 independent reagent probes

compartment (4~10°C)

90 positions for primary or secondary tubes and sample

Reagent probe:

Optical System:

Light Source:

Photometer:

Wavelength:

Resolution:

Temperature:

Humidity:

Rotating tray, 90 cuvettes with automatic washing Optical length 5mm Temperature fluctuation: ±0.1°C 2 independent mixers

740nm、800nm Absorbance range: 0~3Abs (10mm conversion)

0.001Abs

Control and Calibration: Control rules: Operation Unit:

Polynomial, Parabola Windows® Vista Home/Business Interface: Working Conditions: Power Supply:

or 220/230V, 60Hz, 1500VA

or 110/115V, 60Hz, 1500VA

15~30°C

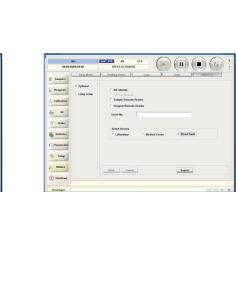
35~80%

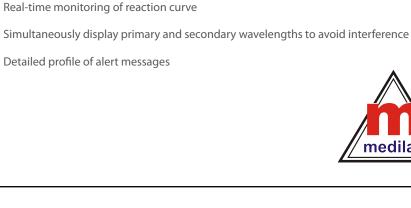
Water consumption: 20L/hour

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Calibration mode: Linear (one-point, two-point and multi-point), Logit-Log 4P, Logit-Log 5P, Spline, exponential, Operation system: Windows® XP Professional/Home SP2 or above 200~240V, 50Hz, 1500VA

Flexible to define various report templates for laboratory, and easy to import new template from Mindray or other users. One-key STAT function makes it easy to perform an emergency test for operator. It is a special function which can perform an automatic test routine with default configuration for blood bank without some 







Halogen-tungsten lamp Reversed optics, grating photometry 340nm、380nm、412nm、450nm、505nm、 546nm、570nm、605nm、660nm、700nm、

Westgard multi-rule, Cumulative sum check, twin plot

Dimension: 1180mm x 700mm x 1145mm (W x D x H) Weight: 300 Kg mindray

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