

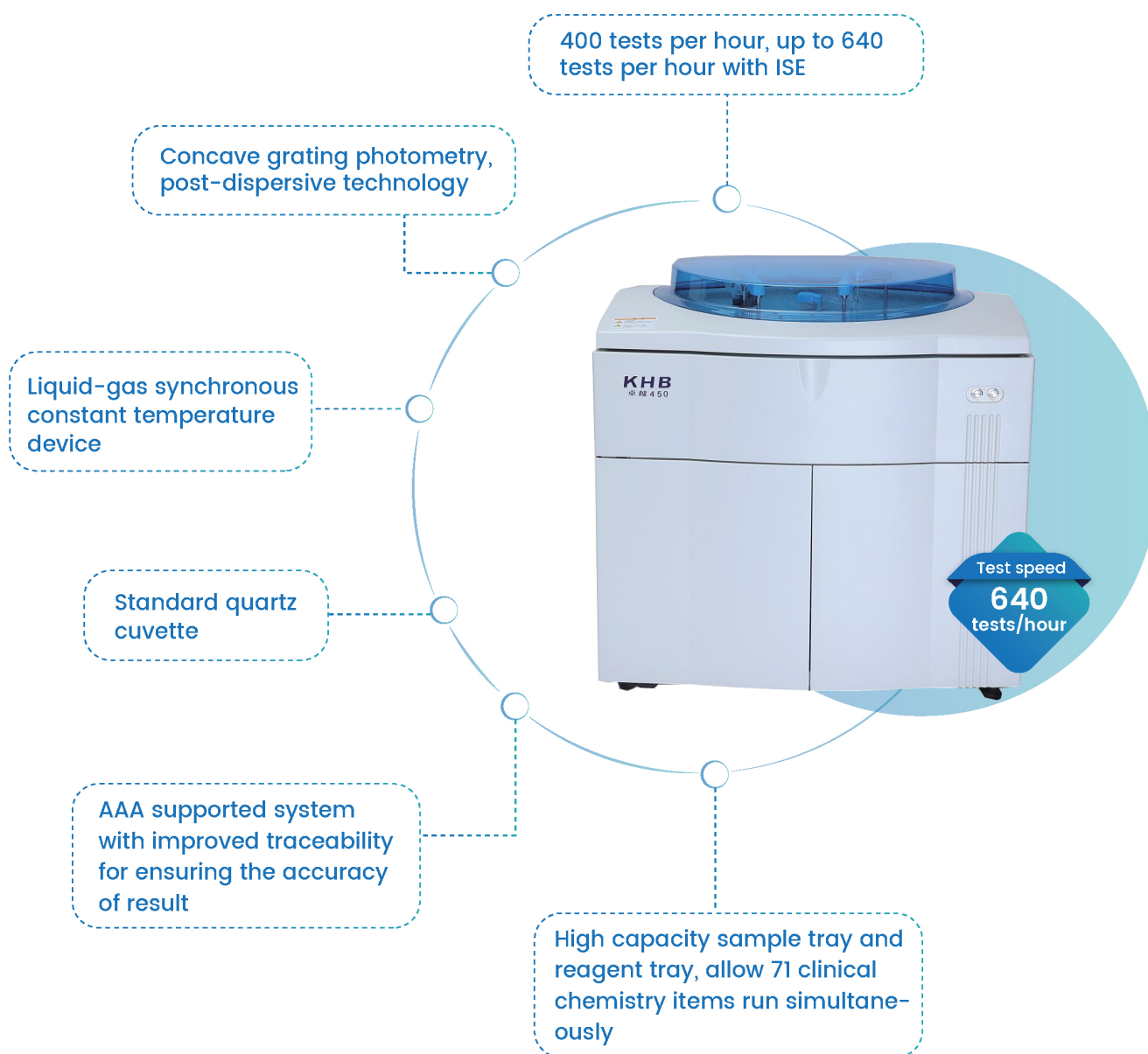
Fully Automatic Clinical Chemistry Analyzer

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ZY-400



ZY- 400

Fully Automatic Clinical Chemistry Analyzer



*One of the drafters of Pharmaceutical Industrial Standard of the People's Republic of China YY/ T0654—2017 Automatic Biochemical Analyzer



Automated Washing System

- Permanent glass cuvettes with good light transmission, anti-corrosion, anti-wear, and durable
- Multi-step warm water washing system with more stable temperature of the cuvette tray and more thoroughly washed cuvettes
- Independently operating, highly polished, three-dimensional vortex-style automatic washing system
- Equipped with KHB special packaging detergent, with which maintenance costs are reduced and cross-contamination rate is lower than 0.08%



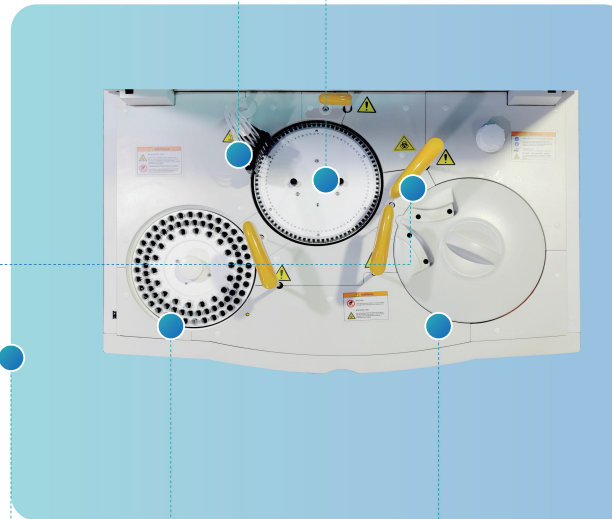
Smart Filling System (Sample/Reagent Probes)

- Liquid-level detection and liquid volume tracking function
- Anti-collision function (optional) and sample clot detection
- Agglomeration monitoring alarm function (optional)



Excellent Overall Analyzer Performance

- Able to function for 24 hours; automatic "sleep" and "wake-up" functions
- General samples can be reclassified as emergency samples for priority detection
- 13 optional pre-set report formats, or user-defined report formats
- Duplex communication between the device and external computer systems (LIS/HIS) through data interface and internet protocol is supported
- The user analysis function is provided for data security



Accurate Optics and Reaction Systems

- Equipped with halogen lamps which has automatic "sleep" and "wake-up" functions, and durable lifespan
- Using advanced multi-channel microcurrent information processing technology; real-time single or dual wavelength tests
- Outstanding absorbance linearity range that stands the test of the market and bears higher resolution
- Air-bath heating system, whose actual temperature is $37 \pm 0.1^\circ\text{C}$
- Real-time temperature display function and temperature threshold alarm function



An Advanced Complementary System

- One of the drafters of an industrial standard
- Integrating R&D, production, sales, and after-sales service
- Self-produced reagent, calibrator, and quality control, with which the complete AAA system is available
- Various self-produced reagents and device are complementary
- The standardized, medical laboratory is certificated by CNAS



Ultra-large Sampling System (Sample/Reagent Trays)

- Emergency samples first, and automatic sample dilution and retest function
- Supporting samples of various types placed together
- Semiconductor refrigeration technology-based reagent tray
- A Real-time reagent volume monitoring function. Display of the number of tests available
- Specially designed of reagent bottle; save on reagents

ZY-400 Fully Automatic Clinical Chemistry Analyzer Parameter Specification

Performance

Throughput	Photometric test: 400 tests/hour, ISE: 240 tests/hour (Na ⁺ , K ⁺ , Cl ⁻ , Ca ²⁺)
System functions	Continuous standby for 24 hours, emergency test, automatic dilution, automatic retest, automatic sleep and wake-up Single/dual reagent (s) and wavelength (s) settings, 1-10 min response time
Type of sample	For whole blood test, serum test, plasma test, urine test, among others, please see Instructions for Use
Analytical method	One-point endpoint method, dual-point endpoint method, reaction speed method (kinetic method), two-point speed method (fixed time method) and potential survey method for ISE test
Calibration method	Linear calibration: factor K method, linear method (including two-point linear and multi-point linear methods) Non-linear calibration: spline method, broken line method, exponential method, logarithmic method, 3P parameter method, 4P parameter method and 5P parameter method

Sample System

Sample tray	90 sample positions available for mixed placement of miscellaneous samples and bar code scanning (optional)
Sample volume	1.5 ~ 70μL, progressively increase by 0.1μL
Sample probe	Liquid level detection, volume tracking, automatic anti-collision protection, probe blockage detection (optional), etc. Inner and outer wall cleaning technology, automatic maintenance and cleaning, with a cross-contamination rate of lower than 0.08%
Sample tube	A variety of specifications for micro sample cup and sample tubes available on market

Reagent System

Reagent tray	72 reagent positions, 36 positions on both inner and outer rings respectively, available for 72 reagent bottles with volume of 35ml and 65ml. Scalable bottle volume, allow bar code scanning (optional) Cleaning solution settable at any position
Reagent volume	10 ~ 350μL, progressively increase by 0.5μL
Reagent probe	Liquid level detection, volume tracking, automatic anti-collision protection Inner and outer wall cleaning technology, automatic maintenance and cleaning, with a cross-contamination rate of lower than 0.08%
Temperature for refrigeration of reagent	Continuous refrigeration for 24 hours at 2 ~ 8℃

Reaction System

Reaction tray	Tray design, with 81 cuvettes
Cuvette	Permanent hard glass cuvette (glass) with optical path of 6mm, semi-permanent organic glass (plastic) (optional)
Reaction solution volume	110 ~ 500μL
Constant temperature system	Liquid-gas synchronous constant temperature device
Temperature of reaction tray	37℃, real-time display of temperature
Temperature fluctuation of reaction tray	±0.1℃
Stirring mechanism	Independent stirrer

Optical System

Light source	Halogen lamp, available for automatic sleep and wake-up
Spectrophotometry	Concave grating photometry, post-spectroscopic technology
Wavelength	12 wavelengths: 340, 380, 405, 450, 505, 546, 578, 600, 660, 700, 750, 800
Wavelength precision	±1nm
Absorbance range	-0.5 ~ 3.5Abs

Working Conditions

Power supply	230V±23, 50/60 Hz
Power	< 1500VA (UPS 2000VA power supply is optional)
Water consumption	Less than 10 L/H deionized water
Dimensions	1075mm (length) × 706mm (width) × 1100mm (height)
Weight	230kg

Clinical Chemistry Reagents Test Menu



Liver Function

- ALT
- AST
- ALP
- TP
- ALB
- PA
- TBA
- γ -GT
- TB
- DB
- CHE
- AFU
- GPDA
- ADA
- 5'-NT
- CG
- m-AST
- CIV*
- LAP*
- MAO*
- AMM*
- GR*



Renal Function

- CRE
- UREA
- UA
- UMA
- Cys-C
- RBP
- NAG
- NGAL
- β 2-MG
- α 1-MG
- CSF*
- LC λ *
- LCK*



Blood Lipid

- TC
- TG
- HDL-C
- LDL-C
- ApoA1
- ApoB
- Lp (α)
- ApoE
- sd-LDL-C
- Lp-PLA2
- MPO*
- PLIP*



Specific Protein

- IgA
- IgM
- IgG
- C3
- C4
- CRP
- hs-CRP
- WCRP
- RF
- ASO
- anti-CCP
- SAA
- PCT*
- MMP-3*
- Clq*
- SOD*



Myocardium

- LDH
- CK
- CK-MB
- α -HBDH
- HCY
- IMA
- ACE
- MYO
- H-FABP
- CTnI*
- LDH1*



Pancreas

- α -AMY
- LPS
- PAMY



Electrolytes

- Ca
- Mg
- IP
- CO₂
- K
- Na
- Cl
- Fe*
- Zn*



Glycometabolism

- GLU
- HbA1c
- D3H
- NEFA
- GA
- INS*
- GSP*
- LAC*



Tumor Marker

- SA
- PGI
- PGII
- Fer*
- SGF*



Others

- D-Dimer
- TRF
- FDP*
- Fbg*

*Coming soon



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