

# Fully Automatic Chemistry Analyzer

## ASPEN Chem 400

### Technical Specification

#### General information

System type	Random access
Test speed	Constant 400 tests/hour (Mono reagent or double reagent)
Test principle	Colorimetric method, turbidimetry
Test method	End point, Fixed-Time, Kinetic, Monochromatic/Biochromatic assays
Calibration type	Linear & nonlinear

#### Sample unit

Sample tray	120 positions for primary or secondary tubes and sample cups
Probe Cleaning	Interior and exterior washing
sample volume	2-30μL, step by 0.1μL
Sample probe	Liquid level detection collision protection
Sample barcode	Sample barcode reader (optional)

#### Reagent unit

Reagent try	90 reagent positions, (45 for R1 & 45 for R2), Non-stop cooling system 2°C-14°C
Reagent volume	20-300μL, step by 1μL
Reagent needle	Liquid level detection collision protection
Reagent barcode	Reagent barcode reader (optional)

#### Reaction unit

Reaction tray	90 bionex cuvettes with automatic washing
Reaction volume	150μL-330μL
Reaction time	10 minutes
Operating Temperature	37°C ± 0.1°C

#### Mixing system

Mixer	Teflon coated paddle-type mixing, effective reducing of carry-over
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#### Working conditions

Power supply	AC 110/220V ± 10%, 50/60 Hz 650W
Water consumption	15L/hour(maximum)
Dimension	1110mm * 765mm * 1150mm (L*W*H)
Weight	200kg

#### Optical system

Light source	Halogen lamp
Wavelength	340nm; 405nm; 450nm; 505nm; 546nm; 578nm; 630nm; 700nm (4 more options)
Absorbance range	0-4.0Abs
Resolution	0.0001 Abs
Report printing	6 formats optional, support custom pattern
Interface	TCP/IP network interface/LIS

#### Operating system

Operating system	Windows XP, Eindows 7, Windows 8, Windows 10
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#### Data processing

Automatic calibration, test combination, effective time management of reagents, serum index, whole process detecion, linear expansion of enzyme, blank deduction, dirty cuvette memory, cross infection prevention, patient information memory and association input, automatic report audit, data fuzzy query, report statistics and printing, reference range grading, alarm information classification, user operation privilege classification management.

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Constant **400 Tests/Hour**  
Random Access

\* The product specifications are subject to change without prior notice owing to product modification, information/upgradation

# Fully Automatic Chemistry Analyzer

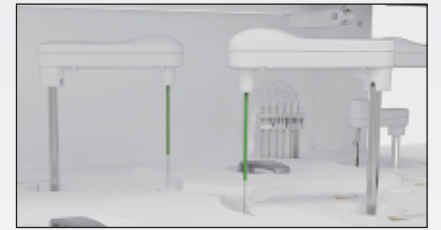
## ASPEN Chem 400



- Constant 400 test / hour with double / mono reagents
- 90 reagent positions
- Automatic liquid level sensing, anti-collision protection.
- Integrated full closed optical system, multi wavelength simultaneous detection.
- Maintenance free semiconductor solid state refrigeration
- Friendly surface and easy to operation

### multifunctional precision sampling probe

- External & internal probe washing
- Dedicated sampling probe with sensitive liquid sensor,
- Collision protection, automatic probe depth adjusting



### Excellent mixer design

- Teflon coating mixer, No water dropping (reducing carry-over)
- Excellent mixing effect with standard mixing procedure



### High precision ceramic syringe

- Permanent ceramic piston
- Accurate dispensing as low as 0.1μL



### Reagent & Sample tray

- 90 reagent positions ( 45 for R1, 45 for R2)
- 120 sample positions, micro cup & test tube can be used
- Non-stop cooling system 2°C-14°C
- Bar code reader (optional)



### Reaction tray

- 90 reaction cuvettes
- Reaction volume as low as 150μL
- Stable & accurate temperature (37±0.1°C) for reaction



### Advanced operating system

- User friendly software interface simple, easy-to-operation
- Sample automatic dilution
- Reaction result automatic checking and warning, calibration result automatic checking, warning alarm log
- Linear & nonlinear calibration, Multi-points calibration up to 8 points
- Quality control apply to westgard, L-J plot, cumulative

