

CHEMIA-220^{pro}

Auto Chemistry Analyzer

Technical specifications

General information

Machine type	Fully automatic, random access, discrete, STAT sample priority
Test speed	Constant 200 tests/hour
Test principle	Colorimetric method, turbidimetry
Test method	1 point end, 2 point end, Fixed-Time, Kinetics

Sample/reagent unit

Sample/reagent tray	40 sample positions outside, support bar code reader, auto-dilution, STAT sample priority; 40 reagent positions in centre, 40 reagent positons inside, 40 reagent positions can support bar code reader, 24 hours uninterruptef refrigeration.
Sample/reagent needle	1 sample probe, liquid level detection,Vertical collision protection, inventory checking, clog detection(optional)

Sample volume	2~30μL, step by 0.1μL
Reagent volume	20~300μL, step by 1μL

Mixing system

Mixer	Paddle-type mixing, effective reducing of carry-over
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Reaction unit

Reaction tray	44 reaction cuvettes, new amorphous optical plastics reaction cuvettes, perfect transmittance. Diameter of reaction cuvette is 6mm.
Reaction volume	150~330μL
Temperature	37 ± 0.1℃
Cuvette washing	2*4 automatic washing (without alkaline)
Wastewater treatment	High and low concentration split

Optical system

Light source	Halogen lamp
Life of light source	Average of 2000 hours
Wavelength	8 wavelengths: 340nm, 405nm, 450nm, 505nm, 546nm, 578nm, 630nm, 700nm (4 more options)

Built-in bar code reader (optional)

Applicable to sample and reagent bar code, code system: Codabar, ITF (Interleaved Two of Five), code128, code39, UPC/EAN, Code93

QC/Calibration

Calibration modes	K factor, Two points linear, multi-pointslinear, Spline, Line graph, Exponential, Logit-Log3P, Logit-Log 4P, Logit-Log 5P
QC rules	Westgard, L-J

Operation system unit

Operation system	Windows10, Windows11 professional edition
System connection	TCP/IP network connection

Other

Power supply	100-240V,50/60Hz
Dimension	745mm*540mm*530mm
Weight	50Kg



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Auto Chemistry Analyzer

200 Tests/Hour, Double Reagent



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- Constant speed 200 tests/ hour
- Independent probe
- Independent stirrer
- Reagent tray contains 80 reagent positions
- Sample tray contains 40 sample positions
- The reaction tray is single circle, with a total of 44 semi-permanent plastic cuvettes
- 4-stage, 2 times automatic washing system



Multifunctional precision sampling probe

- External & internal mirror polish, external & internal probe washing
- Dedicated sampling probe equipped with sensitive liquid sensor, timely feedback of reagent & sample residuals
- 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 0.1 μL



Reagent & sample tray

- 80 reagent positions, 40 sample positions
- Non-stop cooling system with peltier pad inside, 24 hours 2°C-14°C
- Bar code reader(optional)



Reaction tray

- 44 reaction cuvettes
- Reaction volume as low as 150 μL
- Stable & accurate temperature ($37 \pm 0.1^\circ\text{C}$) for reaction



Advanced operating system

- User friendly software interface simple, easy-to-operation
- Sample automatic dilution(decrease, increase, normal)
- 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

