

## Specifications

### • System function

**General:** Benchtop, automatic, discrete, random access, STAT sample priority  
**Throughput:** Up to 100 tests per hour  
**Principle:** Colorimetry and turbidimetry  
**Methodology:** End-point, fixed-time, kinetic, etc.  
**Programming:** Open or closed system on demand

### • Reagent/Sample handling

**Reagent/Sample tray:** 40 reagent positions  
20 sample positions  
**Reagent volume:** 10-300  $\mu\text{L}$ , step by 1  $\mu\text{L}$   
**Sample volume:** 1-40  $\mu\text{L}$ , step by 0.1  $\mu\text{L}$   
**Reagent/Sample probe:** Liquid level detection, vertical & horizontal collision detection and reagent inventory monitoring  
**Probe cleaning:** Auto interior and exterior wash

### • Reaction system

**Reaction tray:** 81 reusable cuvettes, auto cuvette washing station  
**Reaction volume:** 150-750  $\mu\text{L}$   
**Reaction temperature:**  $37 \pm 0.1^\circ\text{C}$   
**Heating method:** Solid heating

### • Optical system

**Light source:** Halogen tungsten lamp  
**Photometer:** Maintenance-free photometer, rear spectrophotometry by filters  
**Wavelength:** 8 wavelengths: 340, 405, 450, 510, 546, 578, 630, 660nm (precision  $\pm 2\text{nm}$ )  
**Absorbance:** 0-4.5 Abs

### • Calibration and control

**Calibration:** K-factor, Linear, Spline, Logit-Log 4P, Logit-Log 5P, Exponential, Polynomial  
**Control:** Westgard multi-rule, Cumulative sumcheck, Twin plot, L-J Chart

### • Operation system

**Computer:** Built-in operation system - Linux  
**Screen:** 10.4 inch color touch screen  
**Data storage:** 100,000 results  
**Printer:** Built-in and external printer  
**Others:** Soft keyboard  
Compatible with keyboard and mouse  
**Interface:** Ethernet, USB, etc.

### • Working condition

**Power supply:** AC 100-240V, 50/60Hz,  $\leq 150\text{VA}$   
**Temperature:**  $10-30^\circ\text{C}$   
**Humidity:**  $\leq 85\%$   
**Dimension:** 384mm\*640mm\*410mm (Width\*Depth\*Height)  
**Weight:** 30 Kg  
**Water consumption:**  $\leq 1\text{L/H}$

# HYCHEM 100

Auto Chemistry Analyzer



Every lab deserves  
an automatic chemistry

# HYCHEM 100

Auto Chemistry Analyzer

## Full functionality, highly integrated microlaboratory

HYCHEM 100 is the smallest and most integrated chemistry analyzer, which is perfect for low-volume laboratories

It optimizes the use of space in the laboratory by providing full functionality in small space

Standardized operation, which is consistent with larger analyzers, eliminates manual errors and makes test results more reliable

The robust system prolongs uptime and increases productivity of lab

The easy automated testing improves the workflow and mitigates manual labour, together with its cost-effectiveness, making it possible to bring benefits of automatic chemistry to all laboratories



### Efficient

- Up to 100 tests per hour
- Fast start-up and shut-down process
- User-friendly software
- Removable reagent disk
- Auto cuvette washing station...



### Economical

- Minimum reaction volume 150  $\mu\text{L}$
- Reusable cuvettes
- Few consumables
- Low water consumption
- Halogen lamp with long lifespan
- Optional reagent closed system...



### Integrated

- Small footprint on the desk
- Big reagent and sample compartment
- Built-in computer with touch screen
- Built-in thermal printer
- Complete solution with reagents
- Powerful data transmission with USB, Ethernet ...



### Intelligent

- Reagent inventory monitoring
- Accurate probe pipetting technique
- Auto probe washing reduces carry-over
- Simultaneous dual-wavelength measuring...