

# Chemistry Analyzer C 73

## Technical Specifications

### System Function:

Automatic, Discrete, Random Access

STAT sample priority

Throughput: Constant 200 tests/hour (without ISE), up to 330 tests/hour with ISE

Principles: Absorbance photometry, Turbidimetry, Ion Selective Electrode technology

Methodology: End-point, Fixed-time, Kinetic, optional ISE Single/Dual reagent chemistries, monochromatic/bichromatic

Programming: Linear/non-linear multi-point calibration

Open system with user defined profiles and chemistry calculation  
System pack reagents ready to use

### Reagent/Sample Handling:

Reagent/Sample tray: 40 reagent positions, 40 sample positions in cooling compartment (2~12°C)

Reagent volume: R1: 10~350µl, step by 1 µl

R2: 10~200µl, step by 1 µl

Sample volume: 2~45µl, step by 0.1 µl

Reagent/Sample probe: Liquid level detection and tracking, vertical & horizontal collision protection and inventory checking

Probe cleaning: Automatic washing of interior and exterior  
Carry-over < 0.1%

Automatic sample dilution: Pre-dilution and post-dilution  
Dilution ratio up to 1:200

### Internal Bar Code Reader (optional):

Used for sample and reagent scan  
Applicable to various bar code systems such as Codabar, ITF (Interleaved Two of Five), code128, code39, UPC/EAN, Code93  
Bi-directional interface LIS transmission

### ISE Module (optional):

Measure K<sup>+</sup>, Na<sup>+</sup>, Cl<sup>-</sup>

### Optical System:

Light Source: Halogen-tungsten lamp  
Photometer: Grating system, reversed optics

Wavelength: 12 wavelengths, 340nm, 380nm, 412nm, 450nm, 505nm, 546nm, 570nm, 605nm, 660nm, 700nm, 740nm and 800nm

Absorption range: 0~3.3Abs (10mm conversion)

Resolution: 0.0001Abs

### Reaction System:

Reaction rotor: Rotating tray, containing 80 cuvettes

Cuvette: Reusable, optical length 5mm

Reaction volume: 150~500µl

Reaction temperature: 37°C

Temperature fluctuation: ±0.1°C

### Mixing System:

Standalone mixing bar

### Cuvette Washing:

8-step washing station with pre-heated detergent and water

### Control and Calibration:

Calibration mode: Linear (one-point, two-point and multi-point), Logit-Log 4P, Logit-Log 5P, Spline, Exponential, Polynomial, Parabola  
Westgard multi-rule, Cumulative sum check, Twin plot, L-J Chart

### Control software:

### Operation Unit:

Operation system: Windows® XP Professional/Home SP2 or above

Windows® 7

Interface: RS-232

### Working Conditions:

Power Supply: AC 200~240V, 50/60Hz, ≤1500VA or AC 100~130V, 50/60Hz, ≤1500VA

15~30°C for operation

Temperature: 35~85% RH

Humidity: 860mm (W) x700mm (D) x625mm (H)

Weight: 130 Kg

## BeneSphaera™ Brand Chemistry Analyzer C 73



ISO Phillipsburg, NJ 9001:2008 & 14001:2004  
Paris, KY 9001:2008  
Mexico City, Mexico 9001:2008  
Deventer, the Netherlands 9001:2008, 14001:2004 & 13485:2003

Gilwice, Poland 9001:2008 & 17025:2005  
Selangor, Malaysia 9001:2008  
Dehradun, India 9001:2008, 14001:2004 & 13485:2003  
Mumbai, India 9001:2008 & 17025:2005

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### Ordering Information and Assistance

#### Customer Service and Technical Service

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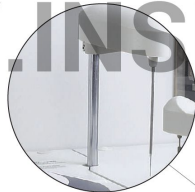
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Chemistry Analyzer  
**C73**

Smart,  
Versatile,  
Easy

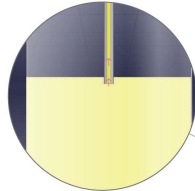
Intelligent collision protection

- Vertical & horizontal collision
- Audible alarm
- Ensure operator safety



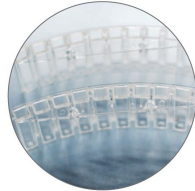
Smart probe function

- Effective liquid level detection
- Liquid level tracking
- Prevent short sampling



Semi-permanent cuvettes

- Lower consumable cost
- Easy replacement
- Durable material, long lasting



Reagent and sample cooling compartment

- 2~12°C continuous cooling
- Enhance reagent and sample stability



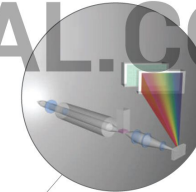
Highly compatible reagent system

- Reagents, QC and CAL
- Metrological traceability



Grating optic system

- 12 Wavelengths; up to 800nm
- Reversed optics
- Accomodate most chemistry assays



8-step washing station

- Enable lengthy operator walk-away time
- High quality cuvette washing
- Ensure optimal cleanliness with pre-heated detergent and water



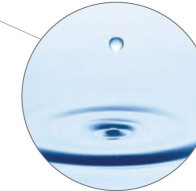
Standalone mixing bar

- Effectively minimizes potential carry-over
- Innovative design
- Minimal maintenance; simple installation



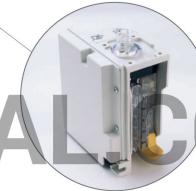
150 µl minimum reaction volume

- Lower reagent consumption
- Long term saving on reagent cost



3-channel integrated ISE module

- Na<sup>+</sup>, K<sup>+</sup>, Cl<sup>-</sup> electrodes
- Durable assemble
- Highly efficient electrolytes analysis



- **Throughput: 200 tests per hour for chemistry**
- **Grating optical system with 12 wavelengths**
- **8-step auto wash system with pre-heated detergent and water**
- **80 semi-permanent cuvettes**
- **High efficiency standalone mixing bar**
- **150µl minimum reaction volume**
- **Liquid level detection and tracking**
- **Vertical & horizontal collision protection**
- **Intuitive; user-friendly operation software**
- **Highly compatible reagent system : reagents, QC & Calibrators ready for use**

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