

The high-throughput, flexible solution for your lab

AU5400 Clinical Chemistry System

Chemistry

Lab Automation
Information Systems
Molecular Diagnostics
Immunodiagnosics
Centrifugation

Disease Management

Hematology
Hemostasis
Flow Cytometry
Primary Care



In high-volume commercial and core hospital laboratories, handling immense workloads under continuous STAT conditions is a daily routine. The AU5400 gives you the advantages of intelligent random access throughput—maximizing efficiency, productivity and reliability.

- Configurable as the two module AU5420 or the three module AU5430
- Choice of single or dual flowcell ISE module
- Proven reliability and low maintenance
- Refrigerated reagent compartment
- High-quality, permanent glass cuvettes
- High-precision microsampling
- Proprietary precision optics
- 300-sample continuous rack loader
- Selection of 96 parameters + ISE
- Twin sampling technology and twin cuvette wheel

AU5400 Clinical Chemistry System Specifications

Analytical System

Fully automated, random-access clinical chemistry system with STAT capability

Analytical Principles

Spectrophotometry and potentiometry

Assay Types

Endpoint, rate, fixed point and indirect ISE

Analytical Methods

Colorimetry, turbidimetry, latex agglutination, homogeneous EIA, indirect ISE

Simultaneously Processed Analytes

96 photometric tests + 3 ISE

Throughput

Fast and reliable turnaround times;

- Throughput of up to 6,600 tests/hour
- 3,200 photometric tests/hour (2 modules), 4,800 photometric tests/hour (3 modules)
- 900 tests/hour with single ISE
- 1,800 tests/hour with dual ISE

Sample Types

Serum, urine, other

Rack Sampler

Racks with 10 samples each (bar-codes on primary tubes and on racks); capacity of 300 samples; continuous loading

Sample Tubes

In primary and secondary tubes; diameter from 11.5 to 16 mm; height from 55 to 102 mm

Sample Volume

1.6–25 µl in 0.1 µl increments (1 µl for repeats)

Reagent Supply

Refrigerated (4°C–12°C); 48 positions for R1; 48 positions for R2/module

Reagent Volume

R1: 15–250 µl; R2: 15–250 µl (1 µl increments)

Total Reaction Volume

120–430 µl

Reaction Cuvette

Permanent hard glass cuvette

Reaction Time

Up to 8 minutes, 22 seconds

Reaction Temperature

37°C

Photometric Range

0–2.5 OD

Wavelength

13 different wavelengths between 340–800 nm

Calibration

Linear and non-linear (linear interpolation), refrigerated calibrator positions

Data Processing

Calculated parameters, blank value correction and correlation. Definition of normal value range, measuring range, pathological values and repeats. Quality controls, printout of abnormal values, pending sample work list and repeat run sample list

Test Requisition

Individual and profile test requisition online, mouse, function keys or optional touch screen

Safety

Clot detection and crash prevention for sample and reagent dispenser

Online

Full uni- and bi-directional communication possible

Software

Windows 2000

Data Storage

Up to 60,000 patient samples

Dimensions (W x H x D) in

AU5420: 156 x 50 x 45 (3,960 x 1,260 x 1,140 mm) analyzer only
AU5430: 200 x 50 x 45 (5,090 x 1,260 x 1,140 mm) analyzer only

Power Supply

100 V; 110 V; 200 V; 210 V; 220 V; 230 V; 240 V; 50 Hz; 60 Hz/10 kVA (5,420); 12 kVA (5,430)

Water Supply information

Water Consumption: 120 L/hour 180 L/hour
Water Type: Deionized CAP Type II, Bacteria Free, Continuous Flow Supply

Repeat Run

Automatic dilutions, also increase/decrease sample volumes, no operator intervention required

Reflex Testing

User defined

Automation Predilution

For Urine and other samples



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