

Big lab automation in a small footprint

The Yumizen C1200 AL provides flexibility and workflow efficiencies needed in today's busy labs



Key features include:

- Throughput of 1200 tests/hr with ISEs
- Dedicated STAT position
- Random continuous access
- Optional autoloader
- Serum, Plasma, and Urine samples
- Endpoint, rate reaction, 2-point, immunoassay reactions
- Hemolysis, Icterus and Lipemia checks
- 84 sample positions
- 61 dedicated refrigerated positions for calibrators and controls
- 45 reagent positions
- 100 programmable applications
- Liquid level sensing
- Clot detection
- Cap/shock detection

Technical Specifications

General Description

Analysis Method Types	Spectrophotometry: colorimetric and turbidimetric assays
Indirect ISE	Na ⁺ , K ⁺ , Cl ⁻
Throughput	1200 tests/hour
Automatic Maintenance	During start-up and shutdown

Sample Handling

Sample Tray	84 samples, continuous loading
Sample Probe	Liquid level sensing, cap/shock and clot detections
Sample Identification	Integrated barcode reader
Sample Types	Serum, plasma, urine
Sample Collection Format	5, 7, 10 mL tubes and sample cups
ISE Sample Volume	22 µL (serum, urine)
Sample Volume	1 - 25 µL (0.1 µL increment)
Automatic Sample Dilution	1/2 to 1/300
Calibrator and Control Tray	61 refrigerated positions for calibrators and controls
STAT Sample Handling	Dedicated STAT position

Reagent Handling

Reagent Tray	2 trays with 45 reagent positions each
Refrigeration	All reagents refrigerated at 2° - 8° C
Reagent Cartridge	20 (with adaptors), 40 or 70 mL
Dispensing System	2 reagents probes, 3-part reagent capability
Reagent Identification	Integrated barcode system
Reagent Volume	5 - 300 µL

Reaction System

Reaction Tray	231 reusable cuvettes
Reaction Volume	80 - 430 µL
Reaction Temperature	37° C ± 0.5 with oil bath
Reaction Time	3, 4, 5, 10, 15 minutes
Extended Reaction Time	21 or 31 minutes
Photometer Reaction Cycle	13.5 seconds
Reagent/Sample Mixing	Rotation and repeat left-right movements by stirrers
Automatic Correction	Serum blank, cell blank, measurement point change

Optical System

Light Source	Halogen lamp with cooling system (coolant circulation)
Measurement Principle	Endpoint, rate reaction, 2 point rate, immunoassay
Wavelengths	14 wavelengths (340 - 884 nm), mono- and bichromatic

Physical Specifications

Analyzer Size	122 W x 85 D x 110.8 H cm / 48" W x 33" D x 43" H
Analyzer Weight	450 kg / 992 lbs
Ambient Temperature	18° - 30° C
Humidity	40% to 70% with no condensation
Power Source	2.6 kVA, 110 V or 220 V ± 10%, 50/60 Hz
Water Consumption	20 L/hour
Water Specifications	Conductivity < 1 µs/cm
Autoloader	77 W x 118 D x 101 H cm 46.5" W x 30.3" D x 39.8" H
Autoloader Weight	98 kg / 216 lbs