





C1200 AL

Together, let's build the future

HORIBA

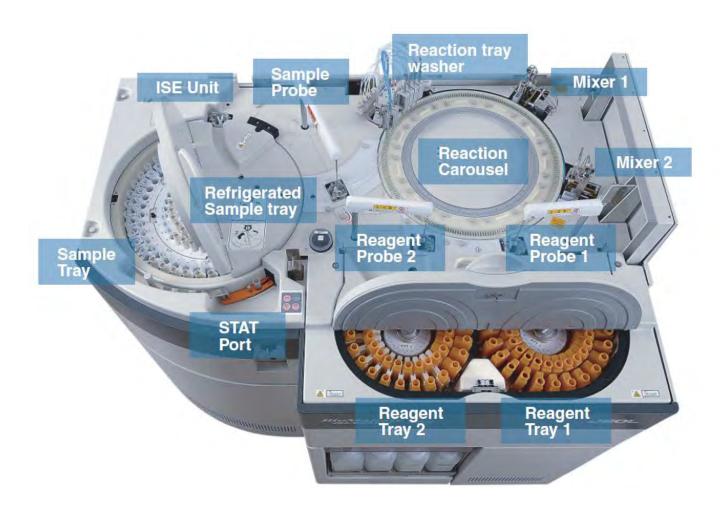


Big lab automation in a small footprint

HORIBA, Ltd. has been providing analytical instrumentation for over 75 years, and is an expert in analysis and measurement technologies covering liquids, gas and solids.

The Yumizen C1200 AL is the next generation chemistry system designed to provide high efficiency, and accuracy, and optimal workflow capabilities for laboratories processing 2.0M+ tests annually.

With a throughput of 1200 tests/hour, dedicated port for STAT patient samples and a large test menu, the Yumizen C1200 system guarantees the enhanced flexibility and performance laboratories require for everyday use.



- Compact footprint and enhanced usability
- High speed and micro-volume technology for improved performance and cost efficiency
- Robust performance with industry standard MTBSF of 2.5 days



Accuracy | Efficiency | Optimum Workflow



Sample Handling

- 84 positions for routine sample testing
- Micro-volume analysis; sample volume 1-25 μL
- · Analyzes serum, plasma and urine
- Refrigerated area for controls and calibrators



Reagent Handling

- 45 refrigerated positions | 100 applications
- Program 3-reagent assays
- Micro-reagent pipetting: 5-300 μL
- Open channels for esoteric assays



Reaction Tray and WUD Station

- 11 replaceable segments, 21 reaction wells per segment
- Two mixers enable maximize throughput and help to reduce sample and reagent carryover
- Oil bath provides high resolution for quality results, maintains reaction temperature, and eliminates bubbles, bacterial growth and water stains
- Seven-step wash process ensures thorough cleaning



STAT Mode

- External access outside of sample carousel
- Easy loading and off-loading
- 10 pre-defined panels for samples without barcodes



Autoloader

- Autoloader loading capacity: 65 samples
- 13 racks; 5 samples per rack
- 800 samples/hr
- Sample tube types: 5, 7 and 10 mL



Yumi - Japanese archery term synonymous with precision and flexibility

Zen - Evokes relaxation and serenity resulting in a positive mindset

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 \pm 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 (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 \pm 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

MED-ADV-10703

