



#### Explore the future

Automotive Test Systems I Process & Environmental I Medical I Semiconductor I Scientific

## HORIBA



# To meet the most of current and

The Yumizen C1200 is designed to ever ensure high efficiency, high accurary and optimal workflow to medium to large sized laboratories. Its throughput of up to 1200 tests/hour, its dedicated STAT loader for emergency patient samples, its large menu guarantee the enhanced flexibility that laboratories request more and more for every day use.



# High speed & micro-volume technology for improved performances & cost efficiency

Compact and enhanced usability



- Flexible routine test management
- Easy STAT at any time
- Na, K, Cl in less than 3mn



- Refrigerated areas for Calibrators
   & Controls samples
- 2x45 reagents for a large test menu
- Up to 3 reagents for complex methods



- Unique sample probe shape & washing mechanism for whole blood sampling
- Micro-volume technology for cost-efficiency

# selective Laboratory needs, future Health requirements

The Yumizen C1200 offers a fully optimized workflow with the new HORIBA Medical reagent range including all the routine tests & a large panel of specific proteins:

- 68 applications available including the new enzymatic HbA1c
- More than 30 other applications in development including DOA & TDM assays.

## Yumizen C1200 HbA1c:

Operating effectiveness, high performances & cost efficiency

The new enzymatic HbA1c radically improves HbA1C management in clinical chemistry.

Enhanced with specific features, the Yumizen C1200 executes on-board automated hemolysis from EDTA whole blood and provides HbA1c results on a fully routine basis in only 10mn.

Long onboard reagent and calibration stabilities eliminates reagent waste and improves cost-effectiveness.

## Demonstrates very good correlation with reference methods

The enzymatic method targets the HbA1c molecule exceptionally well and provides performances comparable to the gold-standard method.

Highly specific without significant interferences by other Hemoglobin variants, standardized according to the IFCC certified reference material for measurement of HbA1c (JCCRM411-2), the Yumizen C1200 HbA1c ensures reliable Patient Diagnostic and therapeutic monitoring based on International references.









\* Yumizen C1200 HbA1c evaluation against NGSP certified method





### **Technical Specifications**

#### General description

Analysis Method Types

ISE Maximum Total Throughput Maximum Chemistry Throughput Maximum ISE Throughput Automatic maintenance

#### Sample Handling

Sample Tray Capacity (STT) Sample needles Sample Identification Sample Types Sample Collection Format ISE Sample Volume Dispensed Sample Volume Automatic Sample Dilution Calibration and control Tray Capacity (CTT) STAT sample

#### Reagent Handling

#### Reagent Tray Capacity

Containers Capacity Dispensing System Reagent Identification Dispensed Reagent Volume

#### Reaction System

Reaction Tray Reaction Volume Reaction Temperature Reaction Time Extended Reaction Time Photometer reaction cycle Homogenization Automatic correction

#### Optical System

Light Source Measurement Principle Wavelengths

#### **Physical Specifications**

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System Size System Weight Ambient Temperature Humidity Power Source Water Consumption Water Specifications Spectrophotometry: colorimetry and turbidimetry assays. Potentiometry: indirect. Na+, K+, Cl-1200 tests/hour 800 tests/hour 600 tests/hour During start-up and shutdown

84 samples, continuous loading.
Level, shock and clot detections.
Integrated Barcode Reader.
Serum, plasma, urine, CSF, whole blood, homogeneous fluids
5, 7, 10mL and sample cups.
22μL (serum/plasma and urine)
1 - 25μL (0.1μL increment)
1/2 to 1/200
61 refrigerated positions for calibrators, controls
Dedicated STAT position

2 trays with 45 reagent positions each. All reagents in a closed refrigerated area (2-10°C). Up to 43 parameters on board 20 (with adaptors), 40 or 70mL 3-part reagent capability, 2 reagents probes Integrated Barcode System 5 - 300µL (0.1µL increment)

231 reusable plastic cuvettes 80 to 430μL 37°C ± 0.1 with inert bath oil 3, 4, 5, 10, 15 minutes 21 or 31 minutes 13.5 seconds Rotation and repeated left-right movements by stirrers Serum Blank, cell blank, measurement point change

Halogen lamp with cooling system (coolant circulation) Endpoint, rate reaction, 2 point rate, immunoassay 14 wavelengths (340 - 884nm), mono and bi-chromatism

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122 x 85 x 110.8 cm / 48" x 33" x 43" 450kg / 992lbs 18 to 30°C 40 to 70% with no condensation 2.6kVA, 220V ± 10%, 50/60Hz 20L/bour

20L/hour Conductivity < 1µs/cm



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