The new clinical chemistry system from HORIBA Medical

The Yumizen C1200 is designed to provide high efficiency, accuracy and optimal workflow for small- to medium-sized hospital laboratories analyzing 2.0M+ tests annually.

With a throughput of up to 1200 tests/hour, dedicated STAT loader and a large assay menu the Yumizen C1200 provides the flexibility laboratories need for everyday use.

Yumizen C1200 Test Menu*

The Yumizen C1200 menu provides an extensive range of tests covering the following panels:

Panels
- Comprehensive Metabolic
- Hepatic
- Lipid
- Renal
- Anemia
- Diabetes/Stroke
- TDMs
- DAUs and Adulterants
- Specialty Assays
- Inflammation/Allergy

Key features include:
- Processes 1200 test/hr with ISEs
- Dedicated STAT position
- Random continuous access
- Serum, Plasma, and Urine samples
- 90 refrigerated reagent positions
- 61 dedicated refrigerated positions for calibrators and controls
- Liquid level sensing
- Clot detection
- Cap/shock detection

*Pending FDA submission and clearance, Health Canada registration and CE mark
## Technical Specifications

### General Description

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<th>Analysis Method Types</th>
<th>Spectrophotometry: colorimetric and turbidimetric assays</th>
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<td>Indirect ISE</td>
<td>Na⁺, K⁺, Cl⁻</td>
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<td>Throughput</td>
<td>1200 tests/hour</td>
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<td>Automatic Maintenance</td>
<td>During start-up and shutdown</td>
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### 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                    |
| Reagent Cartridge                    | All reagents refrigerated at 2°-8° C                      |
| Dispensing System                    | 20 (with adaptors), 40 or 70 mL                           |
| Reagent Identification               | 2 reagents probes, 3-part reagent capability              |
| 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

| System Size                          | 122 W x 85 D x 110.8 H cm / 48" W x 33" D x 43" H       |
| System Weight                        | 450 kg / 992 lbs                                         |
| Ambient Temperature                  | 18° to 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                                   |

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**Yumi** - Japanese archery term synonymous with precision and flexibility

**Zen** - Evokes relaxation and serenity resulting in a positive mindset

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