



Yumizen C600

Technical Specifications

Throughput: 400 tests/hr (Photometric), 320 tests/hr (ISE)
600 tests/hr (photometric + ISE)

Principles: Colorimetry, Turbidimetry, Potentiometry

ISE Module (optional)
Sample Type: Serum, Plasma or Urine
Sample Volume: Na⁺, K⁺, Cl⁻, Li⁺ (optional)
Serum: 100 µL, Urine: 200 µL

Sample Handling

Sample Position: 126 (up-to 9 seg. – 14 positions/seg.)

Barcode Reader: Yes

Barcode Positions: 81

Tube Size: 12 mm to 16 mm (height up to 100 mm)

Container Type : Vacutainer, 2ml cup, 500µL Pediatric Cup, Test tubes, etc.

Type of Syringe: Ceramic piston pump with low maintenance

Sample Volume: From 2 µL to 40 µL

Predilution Ratio: From 1:2 to 1:200

Level & vertical collision Detector: Yes

Clot Detector: Yes

Optical System

Light Source: LEDs

Photometric Range: -0.2 A to 3.5 A

Wavelengths: 340, 405, 505, 535, 560, 600, 635, 670 nm

Filters Bandwidth: ± 2 nm

Internal Resolution: 0.0001

Photo Detector: Main Photodiode + reference photodiode

Measurement Precision: CV <1% to 0.1 A / CV <0.1% to 2 A

Electrical Requirements

Mains Voltage: 115 V to 230 V

Mains Frequency: 50 Hz or 60 Hz

Electric Power: 500 VA

Physical Information

Dimensions (W/D/H): 1200 mm x 720 mm x 1258 mm

Weight: 210 Kg

Directives and Standards Compliance

EC Directive: 98/79/EC IVD

Reagent Handling

Reagents Probe: 2 (1 for Reagent A, 1 for Reagent B)

Bottles Size: 20 mL, 60 mL

Reagent Capacity: 88 (44 bottles of 20 or 60 mL + 44 bottles of 20 mL)

Cooled Reagent: Yes

Temperature: From 5 °C to 8 °C (at room temperature of 25 °C)

Barcode Detector: Yes

Type of Syringe: Maintenance Free Ceramic piston pump

Pipetting Resolution: 1 µL

Level & Vertical collision Detector: Yes

Thermostatic Tip: Yes

Reactions Handling

Reaction Volume: From 180 µL to 600 µL

Reagent Volume R1: From 150 µL to 500 µL

Reagent Volume R2: From 40 µL to 300 µL

Sample Volume: From 2 µL to 40 µL

No. of Wells: 120

Cuvette Material: UV methacrylate

Temperature: 37 °C

Accuracy & stability of temp: ±0.2 °C

No. of Stirrers: 2

Cuvette washing System: 7 Probes (2 wash, 3 rinse, 2 dry)

Fluidic Requirements

Water Inlet: External tank or Direct DI water supply

Water Type: Purified Type II

Water Consumption: <14 liters/hr

Biohazard & wash solution Container: 5L

Environmental Requirements

Ambient Temp: 10 °C to 35 °C / 10 °C to 30 °C (with ISE module)

Relative Humidity: <85% without condensation

Altitude: <2500 m

Minimum Computer Requirements

Operating System: Windows 10 or above 64 bit / Intel Core i3 & above

RAM & Memory: 8GB or Higher / 500GB or higher

Interface: USB

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