HORIBA



Smart Automation *Elevate Lab Efficiency*



Explore the future HORIBA

Smart Technology for Accurate and Reliable Testing



Optimizing Laundry Systems

for Clinical Excellence.

Reaction Rotor: Features 120 UV Methacrylate cuvettes for unparalleled testing precision.



> 3 dedicated dispensing probes: 2 for reagents, 1 for samples-ensuring precision with CV <1% at 0.1 Abs

► High Throughput: 600 tests per hour (Photometric+ISE)

Technology



Equipped with ceramic piston dispensing pumps that require no maintenance.

▶ 126 positions for samples, controls,

► 88 refrigerated reagent positions

equipped with barcode reading

for enhanced efficiency.

and standards, with 81 ready for

seamless barcode scanning.



► Precision in Photometry: Stable photometric readings with a range of -0.2 A to 3.5

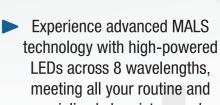


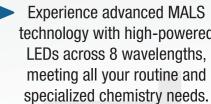


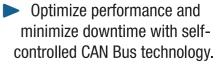
Maintenance

Reagent tray Sample and



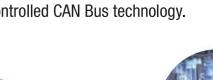
















Technical Specifications

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.)

320 tests/hr (ISE)

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 μ L to 40 μ L Predilution Ratio: From 1:2 to 1:200

Yes

Level & vertical

collision Detector:

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: $\pm 2 \text{ nm}$ 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 μ L Level & Vertical Yes collision Detector:

Thermostatic Tip: Yes

Reactions Handling

Reaction Volume:From 180 μL to 600 μLReagent Volume R1:From 150 μL to 500 μLReagent Volume R2:From 40 μL to 300 μLSample Volume:From 2 μL to 40 μL

No. of Wells: 120

Cuvette Material: UV methacrylate

Temperature: $37 \, ^{\circ}\text{C}$ Accuracy & $\pm 0.2 \, ^{\circ}\text{C}$

stability of temp:

No. of Stirrers: 2

Cuvette washing 7

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 5L

Biohazard & wash

solution Container:

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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