

P780



Clinical Chemistry System



Performance Without Compromise



Introducing the cost-effective P780, our flagship clinical chemistry system, as part of the Pictus family.

The P780 is designed to provide outstanding performance and maximum efficiency without compromising affordability.

Maximum Efficiency in Performance

Achieving flawless accuracy without compromising laboratory workflow.

All Pictus family members ensure seamless compatibility with the same reagents, consumables, methods, controls & calibrators.



Auto Filling Draining
Module Option for
extended walkaway

Built-in
Panel PC with
touch screen
for minimizing
footprint

Nonstop
operation for
improving
turnaround
time

Ideal Platform

The P780 provides exceptional performance by seamlessly integrating proven technologies with cutting-edge enhancements for your lab. The system maximizes productivity and throughput, ensuring results without compromising the highest standards of accuracy.



Dual concentric reagent tray with cooled positions for calibrators and controls

ISE unit with independent arm to maximize throughput



All-New Software

The P780's All-New Software integrates advanced features to ensure state-of-the-art performance while maintaining uncompromised usability and reliability across all processes.

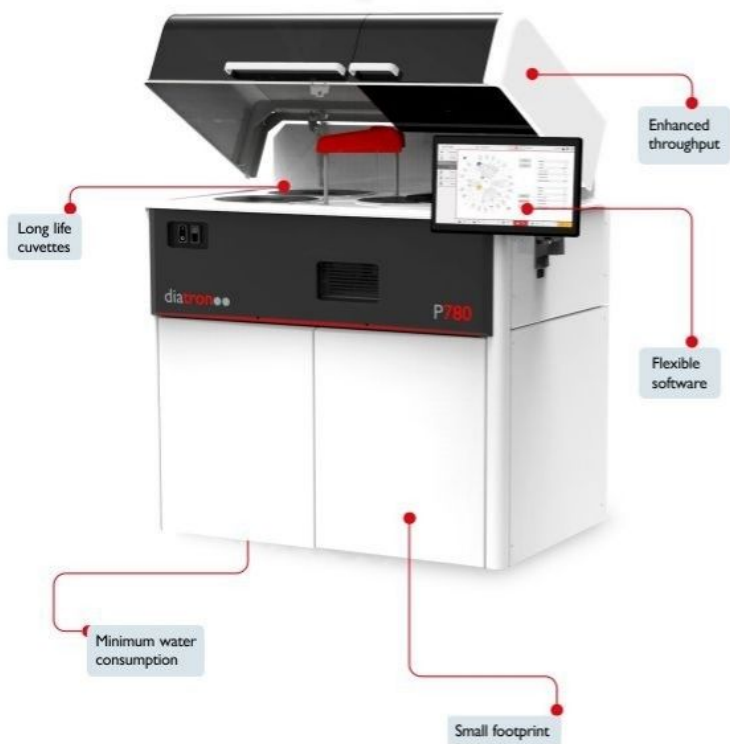


- 01 Enhanced flexibility
- 02 Comprehensive dashboard
- 03 Intuitive and easy to use
- 04 Real time workload
- 05 Sample time to completion
- 06 Three processing modes
- 07 Method priority
- 08 QC results gating
- 09 Delta check
- 10 Cuvette triple check
- 11 BC load calibrator & control values

Low Operating Cost

The P780 is designed to deliver excellent performance while keeping operating costs low. With long-life cuvettes and minimal water consumption, it ensures maximum efficiency and reliability, without compromising affordability or overall performance.

Specifications



01 Analysis modes:

- Fully and optimized Random access
- Sample or batch mode
- Real STAT
- Continuous reagents and samples loading
- Automatic sample pre and post dilution (1:2 to 1:120)
- Automatic sample re-run
- Method priority
- Wake up and stand-by mode

03 Method types:

- point end point
- point end point Fixed time
- Kinetics (conservative and adaptive modes)
- Calculated
- Open channels: 5 research and 95 quality assured POC (Programmable Open Channels)

05 Calibration:

- Automatic calibration. Automatic curve fit. Factor or standard. Single and multipoint (unlimited).
- Calibration formulas: linear, multilinear, polynomial, sigmoidal, Logit4, Logit5, spline.

07 Samples:

- Initial rack quantity: 5 x 19 samples with continuous loading up to 99 racks providing a capacity of 1800 samples per day.
- Primary tube (length up to 100 mm)
- Pediatric vials
- 2 types of adaptors to accommodate variety of sample tubes and cups (ext. diameter 11.5–16 mm).
- Sample type: Human body fluids.

13 Reaction Tray:

- Reaction cuvettes: 160 re-usable plastic 6 mm light path.
- Reaction time: 0 to 25 min.
- Reaction temperature: 37 °C ± 0.1 °C.
- 6 steps cuvette washing station.

18 Touchscreen Panel PC

- Windows based
- Cybersecurity functionality

25 Dimensions:

- 114 (W) x 78 (D) x 129 (H) cm (closed top cover, without Panel PC)
- 162 (W) x 78 (D) x 178 (H) cm (open top cover, with Panel PC)

02 All-New Software features:

- Comprehensive Dashboard
- Delta check
- Reflex testing
- Test profiles definition
- 2D barcodes for autoloading calibrator and control values
- Real time worklist with time to complete function
- Automatic backup procedure
- Result printout user customized

04 Quality control system:

- Levy-Jennings
- Twin QC
- Westgard multi-rules
- Rili-BAK

06 Throughput:

- Throughput: Up to 600 photometric + up to 230 ISE tests/h.

08 Reagents and reagent tray:

- Dual concentric reagent tray
- Reagent cooling compartment: 72 cooled positions 8 ± 2 °C
- Cooled positions for selected calibrators and controls.

14 Optics:

- Light source: UV quartz halogen lamp.
- Photometric Range: -0.1 to 3.6 A.
- Up to 13 measuring wavelength.
- 12 Standard wavelengths: 340, 380, 405, 450, 490, 505, 550, 590, 620, 650, 700, 750 nm.
- Photometry: Single or Double-wavelength simultaneous reading.

19 Optional Filling / Draining Module

20 Optional handheld BCR

21 Ambient temperature monitor

26 Transport box dimensions:

- 128.9 (W) x 89.6 (D) x 79.6 (H) cm

27 Weight:

- Analyzer: 250 kg.
- Packed Analyzer with transport box and accessories: 270 kg.

09 Reaction tray:

- Two pipetting arms for both sample and reagent, reaction pre-heater, probe collision sensor, reaction mixer and clot detector.
- Stirring after dispensing each reagent.
- Probe cleaning: Internal and external washing.

15 Optional ISE Unit:

- Medica ISE module: Na⁺, K⁺, Cl⁻ and optional Li⁺
- Independent pipetting for ISE module

22 Operating environment:

- Temperature +18 °C to +30 °C
- Humidity: 40% to 80%
- Atmospheric pressure: 600 to 1050 hPa

10 Reagent bottle size:

- 25, 45 and 70 mL

12 Reaction volume:

- 180 µl - 650 µl

16 Interface LIS:

- Bi-directional RC 232 C, ASTM
- HL7

23 Transport and storage:

- Temperature +5 °C to +35 °C
- Humidity: 10% to 80%
- Atmospheric pressure: 600 to 1050 hPa

11 BCR:

- On-board samples and reagents barcode recognition.

17 Water consumption:

- <6 L/hour

24 Power requirements:

- 110/220 V, 50/60 Hz, 1.8 kVA (1800 VA)

Marketed in India by :

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For full product specifications, please refer to the User Manual.

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