Technical Specifications

Throughput

Up to 200 Tests / Hour

Sample Handling

Sample rotor capacity Barcode Reader Number of sample with Barcode Size of Primary Tubes

Sample Types

Dispensing mode Pipetting volume Pipetting resolution Automatic sample dilution Tip Wash

100mm) Serum, Plasma, Urine, Whole Blood **Biological fluid** High Accuracy ceramic syringe 2-50µL 0.1µL Yes Inside and Outside

Reagents Handling

Volume of reagents bottles Reagent rotor capacity Cooled reagents Temperature range of refrigerator

Barcode reader Reagent volume R1 Reagent volume R2 Dispensing mode Pipetting resolution Tip wash

Reactions rotor

Reaction volume range Number of wells Well material Type of incubation Temperature **Temperature Accuracy** Number of Mixers Cuvette washing system

Optical System

Light Source Wavelengths Photometric range Internal resolution Measurement accuracy CV

40 sample Yes 40 samples Diameter 12mm to 16mm (Max height (Hemolysis), Cerebrospinal liquid, and

20ml and 30ml 40 bottles Yes From 4°C to 12°C, 24 hours water cooling Yes 150µL to 450µL 10µL to 300µL High accuracy ceramic syringe 1μL Inside and Outside

From 150µL to 500µL 50 UV special plastic cuvettes Metal thermostat 37°C ± 0.2°C 6 step auto wash station.

Halogen Tungsten lamp,12V 20W 340-405-450-510-546-578-630-670nm 0 -3.0 Abs 0.0001 Abs 0.5A < ± 0.02Abs, 1.0A <± 0.04 Abs <1.5%

Calibration & QC

Calibration Mode

Calibration curve QC Rule

Size & Weight

Size (w.,d.,h) Weight

Electrical and Environmental Requirements

Mains voltage Mains frequency Electric power Ambient temperature **Relative Humidity**

Fluidic requirements

Water inlet Water type Water consumption Bottle of high concentration waste 20L cane Bottle of wash solution

Minimum Computer Requirements

Operating system CPU RAM Hard Disk Monitor Connector of serial channel (port)

Windows10 2.5GHz 4GB or higher 500 GB or higher 19 inch wide screen monitor RS -232C

Laboratory Information Systems

Connectivity to LIS

Directives and Standards Compliance

EC Directive -IVD

Single point linear, Two point linear, Multi point linear, Logit-4P, Logit-50, Spline, Exponential, Polynomial Calibration curve auto check, Auto curve fitting Westgard multi-rule, Cumulative sum check, Twin plot

720 x 450 x 550 mm 50 Kg

100 to 240 V

10°C to 30°C

External tank

<5L/Hour

1L

Yes.

98/79/EC

Purified water type II

350 VA

50/60 Hz ± 1 Hz

30% -85% , non condensing

... A180

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OCONCEPTA



BioSystems Diagnostics Private Limited A4, Sipcot Industrial Park | Irungattukottai | TN-602105 Ph: 044- 6712 1911 / 12 / 13 / 14 | Email: support@biosystems.in | www.biosystems.in **A180**

ပ္လွိ CONCEPTA





A180 Clinical **Chemistry Analyzer**

Reaction Tray

- 50 reaction cuvettes
- Stable reaction temperatue of 37°C
- Automatic water blanking for consistent quality results

Reagents and Sample Module

- Onboard refrigeration at 4-12 °C
- A quiet water-cooling system design
- 40 Reagents positions with Barcode
- 40 Sample positions with STAT facility

Sampling Module

- Polished Stainless steel probe
- Durable ceramic syringe ensures accuracy
- Built-in Degasser for accurate sampling
- Liquid level detection, vertical and horizontal collision protection
- Maintenance free rotor with stable movement

Flexible operating software

- Easy to operate with an icon-based interface
- User defined printable report template
- Automatically diagnoses issues and prompt to initiate recovery processes





- check

- Live reaction curve monitoring
- Real time water level monitoring

- 6 step cuvette washing system
- Stainless steel polished mixer
- each step

Optical System

- Tungsten Halogen Lamp with 2000 working hours
- A quiet water-cooling system design



Calibration and Quality Control

• Sophisticated algorithm to achieve optimal calibration curve • Multiple QC Program : Westgard, Twin plot and Cumulative sum

Continuous real-time tracking

 Reagent, sample and cuvette status Temperature status of reaction tray and reagents module

Superior wash system

- Automatic wash procedure of probe and mixer after
- Smart contamination prevention program