

TECHINCAL SPECIFICATION

System Function

Description	Fully automated random access clinical chemistry analyzer
Throughput	300 Test/Hour
Measuring Principle	Absorbance Photometry, Turbidimetry.
Methdology	End point, Kinetic, Fixed Time, Immunoturbidimetry

Optical System

Light Source	Halogen Tungsten Lamp
Wavelength	340nm - 850nm, 12 wavelength
OD Linear Range	(0-3.5 ABS)
Optical System	Post-filter spectroscopy

Reagent / Sample System

Reagent Position	40 position with 24hrs refrigerated cmpartment
Sample Position	40 position
Reagent Volume	20-200 μ l (step by 0.5 μ l)
Sample Volume	2-50 μ l (step by 0.1 μ l)
Reagent/Sample Probe	Liquid level detection Vertical Collision Protection Inventory checking clot detection with autowash
Probe Cleaning	Automatic Washing for Interior and Exterior
Automatic Sample Dilution	Pre dilution & Post dilution
Mixing Unit	Independent mixing probe
Connectivity	LIS Bidirectional

Reaction System

Reaction Tray	60 reusable cuvette.
Reaction Volume	90-320 μ l
Temperature Control	37 $\pm$ 0.1 $^{\circ}$ C
Cuvettes Washing	5 Stages, 14 Step Washing

Operating Unit

Operating system	Windows 10/11
Interfare	Ethernet

Working Condition

Power Supply	200V $\sim$ 240V, 50Hz/60Hz
Temperature	15 $^{\circ}$ C $\sim$ 32 $^{\circ}$ C
Humidity	40% $\sim$ 85% RH
Water Consumption	<8L/Hr
Dimeasion	865mm(L)x600mm(W)x500mm(H)
Weight	70Kg

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MS-380P

Fully Automated Biochemistry Analyzer

“Touching Human Lives Through Innovation”

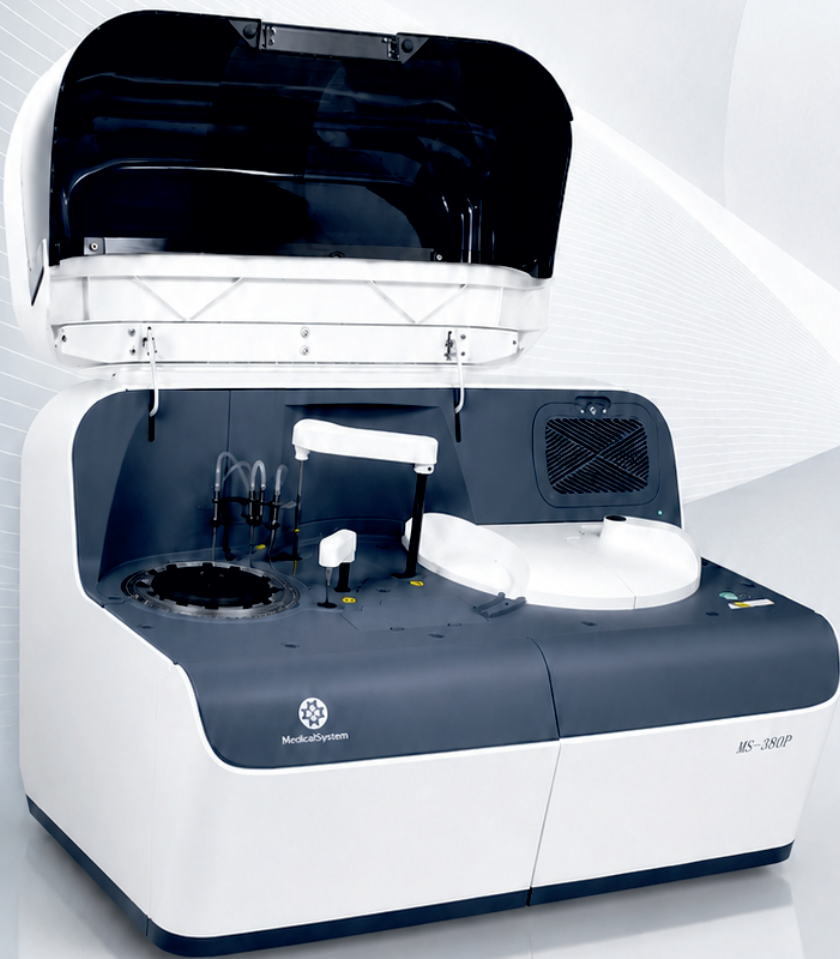


MS-380P Compact Intelligence, Powerful Performance,
Precision you can Trust...



PRECISION CRAFTED FOR UNMATCHED STABILITY AND RELIABLE PERFORMANCE

MS 380P with its advanced technological features provides constant 300 Test/Hour. Its additional features like on-board laundry, clot detection with auto washing' ensures efficient operational flow.



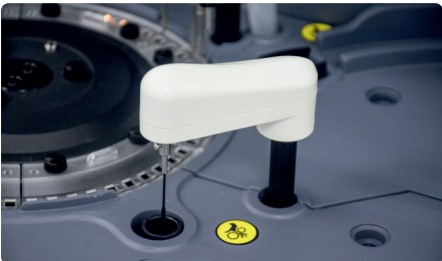
Sample and Reagent Tray

Unique Coaxial Reagent Disk Design for True Random Access analyzer. 40 positions for reagent and sample positions. The unique carousel design ensures uniform temperature distribution, maintaining optimal reagent stability throughout operation.



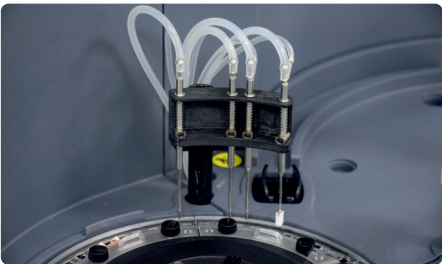
Multifunctional Probe

A multifunctional probe performs both sample and reagent aspiration, with dedicated internal and external washing stations to effectively eliminate carry-over and ensure accurate, reliable results.



Independent Mixer

MS 380P is equipped with independent mixer that ensure proper mixing of reagent and sample inside each cuvette with dedicated wash station as well.



Reaction Tray

Reusable cuvette with 60 position is available in MS 380P. Equipped with durable reusable reaction cuvettes, the MS-380P employs an intelligent 5-stage washing system to deliver exceptional cleanliness, minimize carry-over, and significantly reduce the need for periodic cuvette replacement. A highly accurate temperature control system maintains the reaction tray at 37°C ± 0.1°C, providing stable reaction conditions.

QC Management

Quality Control (QC) Management of MS 380P ensures regular monitoring, testing, inspection in customised manner both in tabular as well graphical representation.

Probe Collision Protection

The multifunctional probe with collision protection avoids breakdown due to the probe collision breakage. This reduces the down time and efficiency of the system

LIS Connectivity

MS 380P is equipped with in-built barcode scanner for both reagent and sample. for bidirectional connectivity. It also helps in inventory management as well.

STAT position

To perform the top priority sample any position in the sample tray can be customised to STAT position, immediately performing sample at STAT position., interrupting sampling from other positions.

Menu

Extended Renal Profile	Lipid Profile	Liver Function Profile	Iron Profile
Calcium Cystatin C Magnesium Microalbumin Complement C3 Complement C4	Triglycerides HDL Cholesterol LDL Cholesterol Total Cholesterol	LDH GOT (AST) GPT (ALT) Albumin Gamma GT Total Protein Bilirubin Total Bilirubin Direct Alkaline Phosphatase (ALP)	Iron TIBC Ferritin Transferrin
Inflammatory Profile	Extended Lipid Profile		Renal Profile
ASO C-Reactive Protein	Lipoprotein (a) Apolipoprotein B Apolipoprotein A1		Urea Uric Acid Creatinine Phosphorus
Diabetic Profile	Pancreatic Profile	Other Parameter	
Glucose	Amylase Kit	Zinc Lactate Ammonia Bicarbonate Cholinesterase	
Cardiac Profile	Arthritis Profile		
Creatine Kinase- NAC	Rheumatoid Arthritis		