



WHERE SCIENCE MEETS INNOVATION



apsLABS



MSME
MICRO, SMALL & MEDIUM ENTERPRISES
सूक्ष्म, लघु एवं मध्यम उद्यम

CLEAN AIR EQUIPMENT

SHAKING EQUIPMENTS

HEATING & COOLING EQUIPMENT

STERILIZATION EQUIPMENT

FERMENTATION TECHNOLOGY

SENSORS & CONTROL

BIOTECHNOLOGY

FOOD PROCESSING

HOSPITAL INTERIOR & FURNITURE

CONSULTANCY SERVICE

LABORATORY FURNITURE & INTERIOR

PLC & HMI SOLUTION

LIFE SCIENCE

DIAGNOSTICS

HOSPITALS

POULTRY

K O  E N



NAMA-120

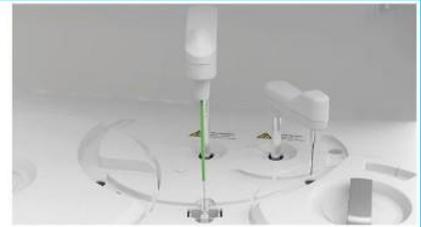
**Fully Automatic
Chemistry Analyzer**

120 Test/Hour, Double Reagent

K O  E N

Multifunctional precision sampling probe

- External & internal mirror polish, external & internal probe washing
- Dedicated sampling probe equipped with sensitive liquid sensor, timely feedback of reagent & sample residuals
- Collision protection, automatic probe depth adjusting



Excellent mixer design

- Teflon coating mixer. No water dropping (reducing carry-over)
- Excellent mixing effect with standard mixing procedure



High precision ceramic syringe

- Permanent ceramic piston
- Accurate dispensing as low as 0.1 μ l



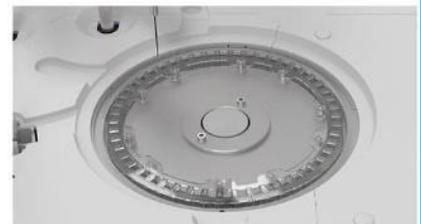
Reagent & sample tray

- 80 reagent positions (40 for R1, 40 for R2)
- 40 sample positions, micro cup & test tube can be used
- Non-stop cooling system with peltier pad inside, 24 hours 2 $^{\circ}$ C-14 $^{\circ}$ C
- Bar code reader(optional)



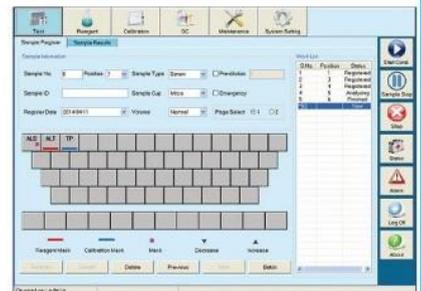
Reaction tray

- 50 disposable cuvettes
- Reaction volume as low as 150 μ l
- Stable & accurate temperature(37 \pm 0.1 $^{\circ}$ C) for reaction



Advanced operating system

- User friendly software interface simple, easy-to-operation
- Sample automatic dilution(decrease, increase, normal)
- Reaction result automatic checking and warning, calibration result automatic checking, warning alarm log
- Linear & nonlinear calibration,Multi-points calibration up to 8 points
- Quality control apply to westgard, L-T plot, cumulative



NAMA-120

K O  E N

Fully Automatic Chemistry Analyzer

- Constant 120 test / hour with double reagent
- 80 reagent positions
- Automatic liquid level sensing, anti-collision protection.
- Integrated full closed optical system, multi wavelength simultaneous detection.
- New amorphous optical plastics reaction cups, perfect transmittance.
- Maintenance free semiconductor solid state refrigeration
- Friendly surface and easy to operation



Fully Automatic Chemistry Analyzer

Technical specifications

General information

Machine type	Random access, open reagent & locked reagent (optional)
Test speed	Constant 120 tests/hour (Mono reagent or double reagent)
Test principle	Colorimetric method, turbidimetry
Test method	1 point end, 2 point end, Fixed-Time, Kinetics
Calibration type	Linear & nonlinear

Sample unit

Sample tray	40 sample positions
Sample tube	Micro cup & test tube & blood collection tube can be used. (Φ 12 -13)mm * (25 – 100)mm
Sample volume	2-30 μ L, step by 0.1 μ L
Sample probe	Liquid surface detection, timely tracking for liquid volume. Collision avoidance
Sample barcode	Sample barcode reader (optional)

Reagent unit

Reagent tray	80 reagent positions (40 for R1 & 40 for R2), Non-stop cooling system with peltier pad inside, 24 hours 2 $^{\circ}$ C-14 $^{\circ}$ C, open system, could accept any reagent.
Reagent volume	20-300 μ l, step by 1 μ l
Reagent needle	Liquid surface detection, timely tracking for liquid volume. Collision avoidance.
Reagent barcode	Reagent barcode reader (optional)

Reaction unit

Reaction tray	50 reaction cuvettes, new amorphous optical plastics reaction cups, perfect transmittance.
Reaction volume	150 μ l-330 μ l
Reaction time	10 minutes
Temperature	Peltier pad incubation system, reaction temperature (37 $^{\circ}$ C \pm 0.1 $^{\circ}$ C)

Mixing system

Mixer	paddle-type mixing, effective reducing of carry-over
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Optical system

Light source	Halogen lamp
Wavelength	340nm; 405nm; 450nm; 505nm; 546nm; 578nm; 630nm; 700nm(4 more options)
Absorbance range	0-4.0 Abs
Resolution	0.0001 Abs

Operating system

Operation system	Windows XP, Windows 7, Windows 8, Windows 10
Data processing	Automatic calibration, test combination, effective time management of reagents, serum index, whole process detection, linear expansion of enzyme, blank deduction, dirty cuvette memory, cross infection prevention, patient information memory and association input, automatic report audit, data fuzzy query, report statistics and printing, reference range grading, alarm information classification, user operation privilege classification management.
Report printing interface	6 formats optional, support custom pattern TCP/IP network interface

Working conditions

Power supply	AC 110/220V \pm 10%, 50/60 Hz, 650W
Water consumption	2.5L/hour(maximum)
Dimension	750mm * 535mm * 475mm(L*W*H)
Weight	45.4kg

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Model	APSC-8
Max. Speed	4000rpm
Max. RCF	2100xg
Max. Capacity	8x10ml/8x15ml
Timer	1-99 min
Noise	<55db



Motor Power	40W
Motor	Brushless Motor
N.W	7.5kg
G.W	8.0kg
Machine Dimension	300x270x210mm(LxWxH)
Voltage	100-240V 50/60Hz 5A

APS CENTRIFUGE

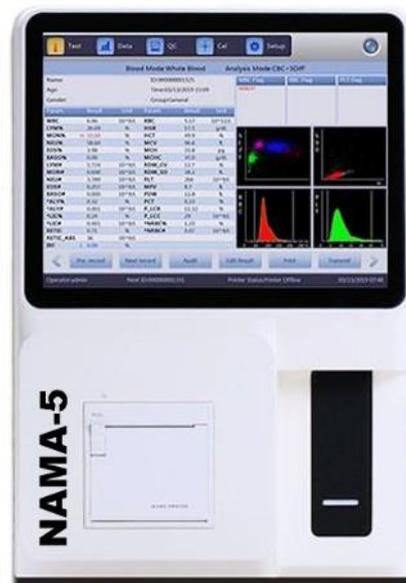
(APSC-8)

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NAMA-5

Hematology Analyzer
High Quality Performance



NAMA-5

5 Part-Diff Hematology Analyzer

- ★ 34 Parameters including RETIC_ABS, RETIC%, IRF
- ★ Flow Cytometry (FCM) + Multi Angle Scatter Separation (MMSS)
- ★ Hourly throughput up to 60 samples
- ★ Resistant RBC mode
- ★ Multi-Language software available (Tailor-Made)

34 Parameters

WBC, LYM%, MON%, NEU%, EOS%, BAS%, LYM#, MON#, NEU#, EOS#, BAS#, RBC, HGB, HCT, MCV, MCN, MCHC, RDW_CV, RDW_SD, PLT, MPV, PDW, PCT, P_LCR, P_LCC, RETIC%, RETIC_ABS, IRF
 6 research parameters: ALY#, ALY%, LIC#, LIC%, NRBC#, NRBC%
 2 histograms for RBC and PLT
 2 scatter grams 5-Part differential scatter gram
 Eosinophil's and Neutrophils scatter gram



Principles of Operation

WBC/DIFF: Flow cytometry, semi-conductor laser light multi-dimensional cell classification
 WBC analysis: optical and impedance measurements
 RBC/PLT analysis: impedance method
 HGB test: cyanide-free reagent colorimetry

Reagent

Diluent, detergents lyse, sheath

Sampling Modes & Aspiration Volume

Whole blood: 2 μ L, pre-diluent: 20 μ L

Aperture Diameter

WBC 100 μ m, RBC/PLT 68 μ m

Throughput

Whole blood: up to 60 samples per hour, pre-diluent: up to 60 samples per hour

Data Storage

Up to 200,000 sample results with grams

Alarms

Error messages & pathological flagging

Display

10.4-inch color touch screen

Input/output

Build-in thermal printer, Support serial port, LAN port, USB port

Power

AC 100-240V, 50/60Hz, 250VA

Dimension & Weight

530mm (L) x270mm (W) x412mm (H), about 26.5kg

- ★ Reticulocyte test: RETIC_ABS, RETIC%, IRF
- ★ 34 parameters, 2 histograms, 2 scatter grams
- ★ Hourly throughput up to 60 samples
- ★ Compact design of 5-part
- ★ The combination of WIC and WOC for WBC counting
- ★ Impedance method for RBC and PLT counting
- ★ Cyanide free reagent for haemoglobin counting
- ★ On board storage capacity of 200,000 samples with all grams
- ★ Support variety of external color printers
- ★ LIS and HIS available with HL7 protocol



Laser Scatter

- ★ Multi-angle scatter separation (MASS)
- ★ Original cell morphology signal
- ★ Stable and long-lasting



Sheath Flow Regulation

- ★ Chemical Dye free technology
- ★ Only sheath reagent for WBC 5-Diff



Diluting Unit

- ★ Separation system for motors and syringes
- ★ Ceramic syringes
- ★ High precision motors



Electronic & Mechanical Components

- ★ Individual quality control management
- ★ Military level
- ★ 20 years field-proven



2D Grams

- ★ Two 2D histograms: RBC & PLT
- ★ Two 2D scatter grams: 5-part differential
- ★ Eosinophil and Neutrophil



Data Management

- ★ On board storage capacity of 200,000 sample results
- ★ Professional data statistics query system



Operation Interface

- ★ Simple touch operation with user friendly illustrated icons
- ★ Handy tool tips
- ★ Unique URIT operation interface like all URIT haematology series



Quality Control Solution

- ★ URIT original QC reagent with multi-method as L-J, X, X-R, X-B, etc.
- ★ Third party QC solution available



NAMA-3

Hematology Analyzer
High Quality Performance



3 Part Differential Hematology Analyzer

- ★ Throughput of 60 Tests / hour with 21 parameters
- ★ Precision counting through High resolution cylindrical Aperture
- ★ Sweep flow, PHM and PWM technology for reliable results
- ★ Intelligent fault diagnostics with clog and bubble detection

K O  E N

Technical Specifications

Throughput: 60 Tests/hour

Mode: Whole blood, Pre-diluted

Total Parameters: 21

WBC, RBC, PLT, HGB, HCT, MCV, MCH, MCHC, PCT, MPV, PDW, RDW-CV, RDW-SD, P-LCC, P-LCR

3-Part Diff: LYM#, MID#, NEU#, LYM%, MID%, NEU%

Principle of Measurement

RBC/PLT/WBC/Diff: Electrical Impedance

Hb: Cyanide free Colorimetry

MCV/MPV: Measured

Histogram: 3(WBC/RBC/PLT)

Sample Volume

Whole Blood : 10 μ l

Pre Diluted mode : 20 μ l

Linearity & Precision

Parameter	Linearity Range	CV%
WBC	$0 \times 10^9/L \sim 9.99 \times 10^9/L$	<2.0%
RBC	$0 \times 10^{12}/L \sim 99.9 \times 10^{12}/L$	<1.5%
HGB	0 g/dl ~ 30 g/dl	<1.5%
PLT	$0 \times 10^9/L \sim 999 \times 10^9/L$	<4.0%

Calibration

Manual and Auto Calibration

HQ-CAL (4.5ml)

Quality Control

L-J graph, X- Bar Analysis, X-Mean Analysis

CBC-3D L, N, H (3ml)

High Caliber Detection

Aperture size – 68 μ (RBC/PLT) and 100 μ (WBC)

Automatic clog detection & prevention

High pressure back flush

Data Storage

1,00,000 results with Histograms

Data back-up through USB mass storage device

User Interface

10.4" touch screen display

Built-in Thermal printer

USB support with HP printers

PS2 port for Mouse and Keyboard

RS232 for LIS interface

5 USB+1 LAN+ 1 PS2 port

Power Requirement

100V-240V AC

50/60 HZ

100VA – 180VA

Operating Environment

Temperature : 15C – 35C

Humidity : <90%RH

Dimension (mm): 530x330x460

Weight (Kg): 23

Reagents

Autodiluent

Autolyse

Autorinse

K O  E N



K O  E N

Fully Automatic Chemistry Analyzer

200 Test/Hour, Double Reagent

NAMA-200

NAMA-200



Multifunctional precision sampling probe

- External & internal mirror polish, external & internal probe washing
- Dedicated sampling probe equipped with sensitive liquid sensor, timely feedback of reagent & sample residuals
- Collision protection, automatic probe depth adjusting



Excellent mixer design

- Teflon coating mixer. No water dropping (reducing carry-over)
- Excellent mixing effect with standard mixing procedure



High precision ceramic syringe

- Permanent ceramic piston
- Accurate dispensing as low as 0.1 μ l



Reagent & sample tray

- 80 reagent positions (40 for R1, 40 for R2)
- 40 sample positions, micro cup & test tube can be used
- Non-stop cooling system with peltier pad inside, 24 hours 2 $^{\circ}$ C -14 $^{\circ}$ C
- Bar code reader(optional)



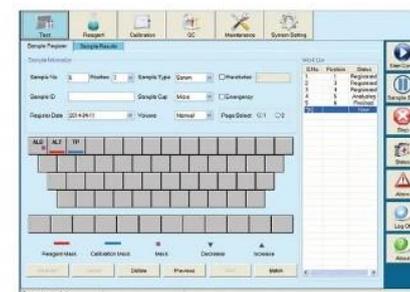
Reaction tray

- 44 reaction cuvettes
- Reaction volume as low as 150 μ l
- Stable & accurate temperature(37 \pm 0.1 $^{\circ}$ C) for reaction



Advanced operating system

- User friendly software interface simple, easy-to-operation
- Sample automatic dilution(decrease, increase, normal)
- Reaction result automatic checking and warning, calibration result automatic checking, warning alarm log
- Linear & nonlinear calibration, Multi-points calibration up to 8 points
- Quality control apply to westgard, L-T plot, cumulative



Fully Automatic Chemistry Analyzer

- Constant 200 test / hour with double reagent
- 80 reagent positions
- Automatic liquid level sensing, anti-collision protection.
- Integrated full closed optical system, multi wavelength simultaneous detection.
- New amorphous optical plastics reaction cups, perfect transmittance.
- Maintenance free semiconductor solid state refrigeration
- Friendly surface and easy to operation



Fully Automatic Chemistry Analyzer

Technical specifications

General information

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Test speed	Constant 200 tests/hour (Mono reagent or double reagent)
Test principle	Colorimetric method, turbidimetry
Test method	1 point end, 2 point end, Fixed-Time, Kinetics
Calibration type	Linear & nonlinear

Sample unit

Sample tray	40 sample positions
Sample tube	Micro cup & test tube & blood collection tube can be used. (Φ 12 -13)mm * (25 – 100)mm
Sample volume	2-30 μ L, step by 0.1 μ L
Sample probe	Liquid surface detection, timely tracking for liquid volume. Collision avoidance
Sample barcode	Sample barcode reader (optional)

Reagent unit

Reagent tray	80 reagent positions (40 for R1 & 40 for R2), Non-stop cooling system with peltier pad inside, 24 hours 2 $^{\circ}$ C -14 $^{\circ}$ C, open system, could accept any reagent.
Reagent volume	20-300 μ l, step by 1 μ l
Reagent needle	Liquid surface detection, timely tracking for liquid volume. Collision avoidance.
Reagent barcode	Reagent barcode reader (optional)

Reaction unit

Reaction tray	44 reaction cuvettes, new amorphous optical plastics reaction cups, perfect transmittance.
Reaction volume	150 μ l-330 μ l
Reaction time	10 minutes
Temperature	Peltier pad incubation system, reaction temperature (37 $^{\circ}$ C \pm 0.1 $^{\circ}$ C)

Mixing system

Mixer	paddle-type mixing, effective reducing of carry-over
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Optical system

Light source	Halogen lamp
Wavelength	340nm; 405nm; 450nm; 505nm; 546nm; 578nm; 630nm; 700nm(4 more options)
Absorbance range	0-4.0 Abs
Resolution	0.0001 Abs

Operating system

Operation system	Windows XP, Windows 7, Windows 8, Windows 10
Data processing	Automatic calibration, test combination, effective time management of reagents, serum index, whole process detection, linear expansion of enzyme, blank deduction, dirty cuvette memory, cross infection prevention, patient information memory and association input, automatic report audit, data fuzzy query, report statistics and printing, reference range grading, alarm information classification, user operation privilege classification management.
Report printing	6 formats optional, support custom pattern
interface	TCP/IP network interface

Working conditions

Power supply	AC 110/220V \pm 10%, 50/60 Hz, 650W
Water consumption	8L/hour(maximum)
Dimension	780mm * 565mm * 1120mm(L*W*H)
Weight	140kg

K O  E N



RAPTOR-8

R8 Hemoglobin Analyzer (HPLC)

R8 Hemoglobin Analyzer (HPLC)



The fully automated Lifotronic R8 Hemoglobin Analyzer offers the fast throughput of HbA1c results in 130 seconds, with Hb variant detection, providing the outstanding solution for quick and reliable diabetic monitoring. No sample preparation and very little hands-on time by the operator is required for the R8 Analyzer.

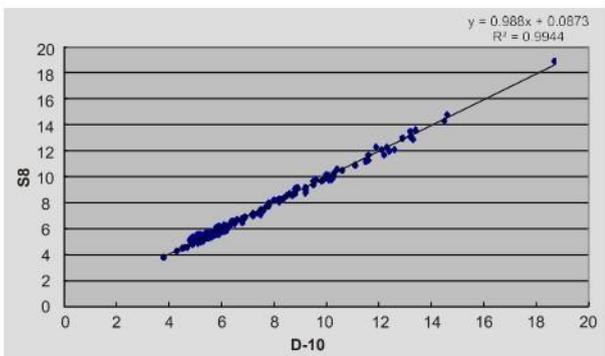
RAPTOR-8

Gold Standard of Diabetes Diagnose

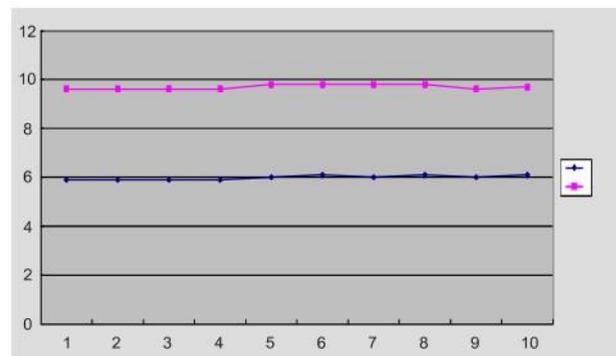
Glycosylated hemoglobin (HbA1c) is widely recognized as a Gold Standard to monitor diabetes, which can indicate the average plasma glucose concentration over 8 ~ 12 weeks.

HPLC Methodology

High-Pressure Liquid Chromatography (HPLC), to separate HbA1c, HbF, HbA2 directly with measuring the absorbance points continually to form chromatogram. Using normal distribution curve fitting auto-iterative algorithm to get precise HbA1c testing result, excluding interference of variant and unstable hemoglobin. Standard Analysis Mode will report HbA1a, HbA1b, HbF, La1c, HbA1c, HbA0 peak areas and ratio. And the result also includes IFCC, NGSP and ADAG value for diverse client needs.



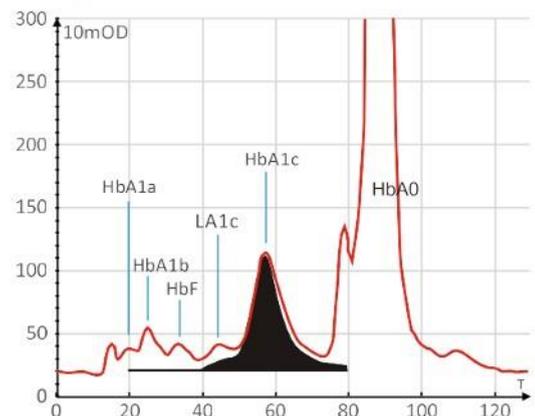
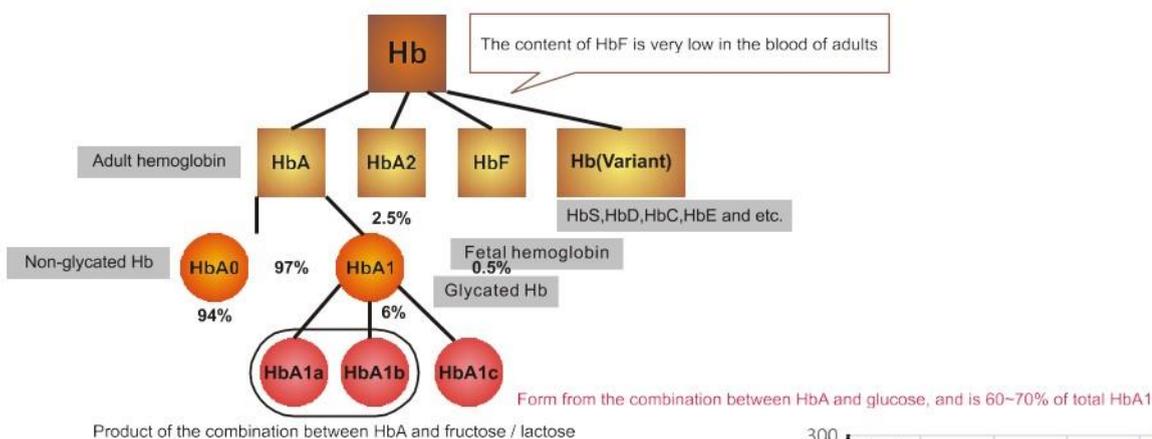
Correlation between R8 and D-10



Precision Study

R8 Hemoglobin Analyzer (HPLC)

The Elements of Hemoglobin



HPLC Technology – Gold Standard Methodology

- NGSP and IFCC Certified
- HbA1c Results in 130 Seconds

Fully Automated - To Minimize Operation Hassles

- Primary Tube Sampling with Cap Piercing
- Fully Automated Start - up, Maintenance and Shutdown
- Barcode Scanner for Sample Identification

Precise and Reliable – To Serve You Consistently

- HbA1c Inter Measuring CV $\leq 1.5\%$ & Intra Measuring CV's $\leq 3\%$ to Enable Exceptional Result Management
- Superior Quality Chromatographic Resolution to Eliminate Interferences

Dual Wavelength Detection – To Avoid Interference

- To Avoid the Reagent Peak Interference
- More Anti-interference Abilities, the Mutation Factor Interference to the Peak Can be Easily Counteracted
- To Eliminate the Nonspecific Absorption of Hemoglobin

Degasser – For Better Result Accuracy

- More Stable Pressure, More Accurate Flow Rate
- To Reduce Background Absorption and Improve Detection Sensitivity
- To Improve the Separation Effect of Column and Prolong Its Lifetime

Compact Size – To Minimize Space Requirements

- Small Footprint Reduces Bench Space Needed



R8 Hemoglobin Analyzer (HPLC)

Technical Specs

Methodology	High - Performance Liquid Chromatography (HPLC)
Test Modes	Standard Mode, Variant Mode, Thalassaemia Mode
Test Range	3% - 18%
Precision	CV ≤ 1.5%
Test Speed	130 Secs / T for Variant Mode, 380 Secs / T for thalassaemia Mode
Sample Type	Venous Blood, Finger Peripheral Blood, Lyophilized Whole Blood Peripheral Blood, 500ul (150 Dilution Ratio)
Auto Sample Station	10 Positions
Photometer	415nm + 500nm Detector
Chromatography Column	Available Tests ≥ 1600T
Filter	≥ 800T
Display	10.1 " TFT True Color LCD Touch Screen
Software	Linux Software with Self - Diagnosis to Monitor and Detect System Errors
Reagent Kit	Eluent A, Eluent B, Eluent C, Hemolysin, Calibrator, QC Material (Weight Sensor ± 1%)
Information Input	Scanner or Touch Keypad
Storage	4000 Sample Results
Connection	USB, LAN, LIS Compatible
Printer	Thermal Printer and External Laser Printer
Operation	Temperature 10 ~ 30 °C (50 ~ 86 °F)
Humidity	≤ 80%
Power	AC 100-240V 50/60HZ 120VA
Dimensions	600mm x 360mm x 540mm (23.6"H x14.2 "W x 21.3" D)
Weight	49KG (108 lbs)
Barcode Scanner	QC Curve



Clean Air Equipment

- Laminar air flow cabinet Vertical / Horizontal
- Biological safety cabinet Class II A2, B2
- Clean room Air shower
- Pass box Static / Dynamic
- Fume hood (Polypropylene)
- Dispensing Booth / Sampling Booth

Heating & Cooling Equipment

- Muffle furnace
- Hot Air Oven
- Bacteriological incubator
- Serological water bath
- Humidity chamber
- Incubator
- Vacuum Oven
- Deep Freezer -20°C, -40°C to -86 °C
- B.O.D incubator
- Plant growth chamber
- Seed Germinator
- Stability Chamber
- Laboratory Refrigerator etc.



Shaking Equipment

- Orbital Incubator Shaker.
- Rotary Shaker.
- Water bath incubator shaker
- Platform shaker.
- Vortex shaker



Sterilization Equipment

- Autoclave Vertical.
- Autoclave Horizontal
- Autoclave Rectangular
- Autoclave Cylindrical
- Autoclave Table Top



Laboratory Furniture & Interior

These products are manufactured using the best-assured input and advanced techniques. Owing to high demand, experts manufacture these products in diverse patterns

CLEAN AIR EQUIPMENT

Biological Safety Cabinet Class II A2, B2

- Construction-g.I. / Ss 304grade/pp
- Work table-SS 304/316 grade
- Air flow-vertical
- Filter-hepa/ulpa
- Anti microbial coating.

MODEL: APS-126 Series



Outstanding UV decontamination

Optional UV light is programmable from 30 minutes to 24 hours, in 30-minute increments, extending bulb life and saving energy. Powerful cross-beam UV irradiation in both side walls illuminates entire work area, designed to ensure thorough disinfection of the complete chamber (Herasafe KS BSC only)



MODEL: APS-125 Series

Laminar Air Flow Cabinet Vertical / Horizontal

- Construction-g.I. / Ss 304grade/pp.
- Work table-ss 304/316 grade/pp.
- Air flow-vertical/horizontal
- Filter-hepa/ulpa
- Anti microbial coating.

Lockable cater wheels for easy portability.
Working table made of S. S. 304.
Rounded corners.
Vertical sliding front door with high toughen glass.



Fume Hood (Polypropylene)

- Construction outer-g.I. /Ss304grade/pp/frp.
- Work table-jet black granite/ss 304
- Grade/ non-reactive.
- Airflow type-unidirectional
- Front door-vertical with concealed
- Counter balanced mechanism

MODEL: APS-123 Series



Pass Box Static / Dynamic

- Construction Outer-G.I. / SS 304grade
- Type-Static/Dynamic
- Filter-HEPA.
- Doors- Door Interlock System.
- Digital/Manual.
- UV Light

MODEL: APS-258 SERIES

MODEL: APS-D-258 SERIES



MODEL: APS-256 SERIES

Clean Room Air Shower

- Construction Outer-G.I. / SS
- 304grade
- Type-Static/Dynamic
- Filter-HEPA
- Illumination-Fluorescent Tube



Dispensing Booth/Sampling Booth

- Construction – stainless steel
- Ss304g/mild steel.
- Filters- Hepa/Ulpa.
- Digital system.



AIR VOC

Quality Indicator (as per AQI):

- Clean Air (Very minimal pollution level)
- Moderate Pollution level
- Severe Pollution level

HEATING & COOLING EQUIPMENT

Bacteriological Incubator

- Construction Outer-G.I. / SS 304grade
- Chamber-Stainless Steel 304/316 grade
- Temp. Range-Ambient to 60°C
- Controller-Microprocessor based PID controller

OPTIONAL

- Door Open Alarm.
- USB data restore.
- RS-485/RS232 communication ports, cables, window based software with inbuilt data recording.



MODEL: APS-107 Series



MODEL: APS-113 Series

Hot Air Oven

- Construction Outer-G.I. / SS 304grade
- Chamber-Stainless Steel 304/316 grade Optional
- Temp. Range-Ambient to 250°C/300°C
- Controller-Microprocessor based PID controller
 - (16 x 2) with optional RS-232 communication ports, cables, window based software with inbuilt data recording
 - LCD control with Data Logger.



OPTIONAL

Serological Water Bath

- Outer Made of mild steel
- Inner Inner made of ss 304
- Temp+amb to 100°C
- Control panel Microprocessor based led/ Lcd display

OPTIONAL

- Door Open Alarm.
- RS-485/RS232 communication ports, cables, window based software with inbuilt data recording.
- USB data restore.



MODEL: APS-122 SERIES



MODEL: APSLY-80

Freeze Dryer (Lyophilizer)

Dry chamber size (D*H): $\Phi 260 \times 540$ mm
 Total shelf area: 0.08m²
 Shelf size (mm): $\Phi 200 \times 4$ pcs Shelf space height (mm)
 70 Shelf number: 4 pcs

(-80 & -55 Variant)

HEATING & COOLING EQUIPMENT

Muffle Furnace

- Construction Outer-G.I. / SS 304grade
- Insulation-Ceramic fiber wool insulation
- Temp. Range-1000°C/1200°C/1400°C
- Controller-Microprocessor based PID controller



OPTIONAL - Controller-Microprocessor based PID controller



MODEL: APS-120 Series



MODEL: APS-114 Series

Vacuum Oven

- Construction Outer-G.I. / SS 304grade
- Vacuum- By Compatible Rotary oil sealed or noise free vacuum pump
- Temp. Range-50°C to 150°C
- Controller-Microprocessor based PID controller



Optional:
Vacuum Pump

Incubator

- Construction Outer-G.I. / SS 304grade
- Chamber-Stainless Steel 304/316 grade
- Temp. Range-Ambient to 60°C
- Humidity Range-Up to 95%
- Controller-Microprocessor based PID controller
- Door Open Alarm.
- USB data restore.
- RS-485/RS232 communication ports, cables, window based software with inbuilt data recording.



MODEL: APS-107B Series



MODEL: APS-135

ROTARY EVAPORATOR

- Digital display of both rotation speed and heating temperature allows for optimal control of all distillation processes
- Automatic motor lift releases the evaporating flask to a safe position in case of power failure
- 5L heating bath with wide temperature range from room temp. to 180°C)
- Overheating protection temperature at 220°C
- Speed range from 20 to 280rpm, and interval operation in clockwise and anticlockwise directions for drying process

HEATING & COOLING EQUIPMENT

Deep Freezer -20°C, -40°C to -86 °C

- Construction Outer-G.I. / SS 304grade
- Chamber
- Stainless Steel 304/316 grade
- Temp. Range -20°C/-40°C/-86°C
- Controller-Microprocessor based PID controller

•Advanced cold storage solutions for critical life sciences, healthcare and industrial applications



MODEL: APS-132 Series



MODEL: APS-106 Series

B.O.D Incubator

- Construction Outer-G.I. / SS 304grade
- Chamber-Stainless Steel 304/316 grade
- Temp. Range-5°C to 60°C
- Controller-Microprocessor based PID controller
- OPTIONAL- Lcd display

★ Heating Model
Cooling Model
(AVAILABLE)

Plant Growth Chamber

- Construction Outer-G.I. / SS 304grade
- Chamber-Stainless Steel 304/316 grade
- Temp. Range-5°C to 60°C
- Humidity Range-Up to 95%
- Controller-Microprocessor based PID controller

★ Heating Model
Cooling Model
(AVAILABLE)



MODEL: APS-128 Series



MODEL: APS-175

Micro High Speed Refrigerated Centrifuge

- ▷Stainless steel chamber with guarding ring
- ▷Electronic safety Jack prevent cover opening during centrifugation
- ▷Manually Lid open in case of failure or emergency
- ▷Gas spring to prevent falling of lid
- ▷Pre-cooling during standstill, CFC free refrigeration system refrigerant
- ▷Reliable drive system induction motor maintenance free.

HEATING & COOLING EQUIPMENT

Seed Germinator

- Construction Outer-G.I. / SS 304grade
- Chamber-Stainless Steel 304/316 grade
- Temp. Range-5°C to 60°C
- Controller-Microprocessor based PID controller
- Controller-Microprocessor based PID controller

OPTIONAL

- Single-board electronic solid-state design.
- Microprocessor based PID controller
- 7" color LCD touch screen with user friendly screen



MODEL: APS-129 Series



MODEL: APS-266 Series

Stability Chamber

- Construction Outer-G.I. / SS 304grade
- Chamber-Stainless Steel 304/316 grade
- Temp. Range-5°C to 60°C
- Humidity Range-Up to 95%
- Controller-Microprocessor based PID controller

Laboratory Refrigerator

- Construction Outer-G.I. / SS 304grade
- Chamber-Stainless Steel 304/316 grade
- Temp. Range -8°C TO -10°C
- Controller-Microprocessor based PID controller

APS-132-350 , APS-132-450 & APS-132-650



APS-132-1000

APS-132-1500



MODEL: APS-284

Dry Bath Incubator

1. Quick and easy-to-exchange Blocks
2. Special-designed blocks improves temperature homogeneity
3. Heating lid function available for turn on / off
4. Individual sensor-controlled blocks allow for block-specific
5. Wi-Fi-function is available with the APP software

HEATING & COOLING EQUIPMENT

COLD ROOM

- Construction Outer-G.I. / SS 304grade
- Chamber-Stainless Steel 304/316 grade
- Controller-Microprocessor based PID controller



MODEL: APS-131 Series

MODEL: APS-153 Series



ICE FLAKING MACHINE

- Construction Outer-G.I. / SS 304grade
- Chamber-Stainless Steel 304/316 grade
- Controller-Microprocessor based PID controller

MORTUARY CHAMBER

- Construction Outer-G.I. / SS 304grade
- Chamber-Stainless Steel 304/316 grade
- Controller-Microprocessor based PID controller



MODEL: APS-121 SERIES

MODEL: APS-158 Series



CIRCULATING WATER BATH

- Construction Outer-G.I. / SS 304grade
- Chamber-Stainless Steel 304/316 grade
- Temp. Range 0°C to 100°C
- Controller-Microprocessor based PID controller

Ultra Sonic Bath/Sonicator

Tank Volume (liters)	: 2 L,4 L,6 L,9 L,12 L,12 L
Ultrasonic Frequency	: 40 ± 3 KHZ
Digital Timer	: 0 To 60 Minutes
Outer Housing Material	: Stainless Steel
Mains Supply	: 220 Volt, Ac 50 Hz, Single Phase
Inner Tank Material	: Stainless Steel



MODEL: APS-103



ORBITAL INCUBATOR SHAKER

- Construction Mild steel powder coated / SS304G / SS316G
- Chamber SS304G / SS316G
- Shaking Type Orbital
- Controller Microprocessor based LED/LCD display
- Temp range +5°C to 60°C , Ambient +5°C to 60°C
- Safety features Door open cut off , safety valves & etc.
- Control Panel Microprocessor based LED/LCD display

MODEL: APS-110 Series

ROTARY SHAKER

- Construction
- Mild steel powder coated / SS304G / SS316G
- Clamps SS304G / SS316G
- Control Panel Microprocessor based LED/LCD display
- **OPTIONAL- CLAMPS**



MODEL: APS-116 Series



WATER BATH SHAKER

- Construction
- Mild steel powder coated / SS304G / SS316G
- Clamps SS304G / SS316G
- Control Panel Microprocessor based LED/LCD display

MODEL: APS-111 Series

Hybridization Oven 6 to 120 RPM

Temp. Accuracy	:	± 0.5°C
Rotor Capacity	:	4 supplied (8 maximum)
Rotor Speed	:	6-50 rpm
Shaker Rotation	:	Rotation + Orbital
Shaker Speed	:	6-120 rpm
Shaker Capacity	:	Carry 6kg
Digital timer	:	999h 999min 999sec



MODEL: APS-116



AUTOCLAVE VERTICAL/ CYLINDRICAL

- Chamber SS304G / SS316G
- Lock Radial Locking Unit
- Basket/ Bucket Perforated SS304G / Wire mesh type
- Gasket Joint less silicon / Neoprene
- Safety features Low water level cut off , safety valves & etc.
- Control Panel Microprocessor based LED/LCD display

MODEL: APS-101 Series

AUTOCLAVE RECTANGULAR

- Chamber SS304G / SS316G
- Lock Radial Locking Unit
- Basket/ Bucket Perforated SS304G / Wire mesh type
- Gasket Joint less silicon / Neoprene
- Safety features Low water level cut off , safety valves & etc.
- Control Panel Microprocessor based LED/LCD display



MODEL: APS-102 Series



AUTOCLAVE TABLE TOP

- Chamber SS304G / SS316G
- Lock Radial Locking Unit
- Basket/ Bucket Perforated SS304G / Wire mesh type
- Gasket Joint less silicon / Neoprene
- Safety features Low water level cut off , safety valves & etc.
- Control Panel Microprocessor based LED/LCD display

MODEL: APS-103 Series

Distillation Unit all Glass

CAPACITY (FLOW RATE) (BOROSILICATE GLASS)			
(A) 1.2 lit/hr, (B) 1.5 lit/hr, (C) 3.5 lit/hr			
VERTICAL		HORIZONTAL	
SINGLE STAGE	DOUBLE STAGE	SINGLE STAGE	DOUBLE STAGE
CAPACITY (FLOW RATE) (QUARTZ)			
(A) 1.2 lit/hr (B) 1.5 lit/hr (C) 3.5 lit/hr			
VERTICAL		VERTICAL	
SINGLE STAGE	DOUBLEST AGE	SINGLE STAGE	DOUBLE STAGE



MODEL: APS-136



MODEL: APSCCY

COLONY COUNTER

- * Grid, sector, and spiral area define methods for different theory based counting
- * User define counting category can be applied on different images
- * Continue counting and single image analysis
- * Easy setup and no need for extra training
- * Map scale reference for colony sizing
- * Inhibition zone define and measure
- * Medium color defining

ELISA READER 96-WELL

- * Touch screen Large LCD display
- * Multiple plate formats capability
- * Extensive on-board data analysis
- * Choice of reading speed
- * Micro plate shaking
- * 10000 test results



MODEL: APS-234



MODEL: APS-235

ELISA WASHER 96-WELL(MICRO PLATE WASER)

- *Compatible with U, V, or flat-bottom plates
- *Up to 50 wash protocols programmable
- *Minimal residual volume (<1uL/well)
- *Interchangeable manifolds for 8- and 12-well strips
- *Unattached absorb head and dispense head
- *Positive displacement pump with low noise
- *overfill washing and overflow protection
- *Automatic waste liquid warning
- *Bottom washing function

NANO DROP (NV-1000)

- Sample Volume - 1 μ L minimum volume
- Sample Number - 1
- Path Length - 0.5mm/0.05mm
- Light Source - Pulsed xenon flash lamp
- Detector Type - 2048 element CMOS
- Wave Length - 190-1000mm
- Band Width - 1.3nm



MODEL: NV-1000



MODEL: APS-264 Series

MICROPROCESSOR SPECTROPHOTOMETER

- * **User Friendly Operation and Information Rich LCD Display:** The large 128 x 64 dots, backlit LCD screen with adjustable brightness control displays a large array of data also in graphical format.
- * **On-Board Data Storage:** The System can save the test results, up to 200 groups of data and 200 standard curves in the RAM memory.
- * Data can be restored after a sudden power failure.

DOUBLE BEAM SPECTROPHOTOMETER

- * Wavelength from 190 to 1100 nm (with scanning)
- * 8 cell position cuvette holder
- * USB computer interface
- * High wavelength precision
- * Excellent stability & accuracy
- * Abs% ,T% , Multi wavelength, wavelength scan,
- * Fix bandwidth : 1 nm Software CD , Dongle software key



MODEL: APS-264



MODEL: APS-269

BIOREACTORS

- * Process control software
- Top-Mounted Magnetically coupled drive for 5L and direct coupled provided with a single mechanical seal for other capacities.
- * ASME/CE Electro polished Vessel
- * Baffles (removable type)
- * Bright Industrial Color Touchscreen Controller
- * 4 • 3-Fixed Speed Pumps
- * User-Definable, Pressure Hold Sequence

RT PCR MACHINE (REAL TIME PCR)

Module operating temperature range	4°C~99.9°C(Minimum setting scale: 0.1 °C)
Average Heating rate	When rising from 50°C to 90°C, it should be no less than 3.5°C/s
Average cooling rate	From 90°C to 50°C, should not be less than 3.0°C/s
Temperature uniformity	The temperature difference is within ±0.3°C



MODEL: APS-278



MODEL: AKKI-32

NUCLEIC ACID EXTRACTOR

- * Easy Operation — unique remote control pad saving time and improve your work efficiency
- * Flexible solution — pre-loaded protocols selection for up to 1+32 Sample
- * Fast startup and immediate results — With special rapid reagents, the extraction can be done within 10 minutes
- * Reliable result you can depend on — high- Quality nucleic acid ready to use in sensitive downstream applications

TEST STRIP READER

- * 6.2 inch touch screen and smart operation system
- * High-sensitivity measurement with high repeatability
- * Supports a wide range of reagents as well as reagent development
- * Compatible with different reagent housing configurations
- * Large built-in memory can save more than 10,000 measurement records which you can check out at anytime
- * Colorimetric detection: Colloidal gold, colored latex beads, carbon etc



MODEL: APS-296



MODEL: APS-185

DIGITAL GEL DOCUMENTATION SYSTEM

- * Compatible image file formats: JPG, BMP, JPEG, DFN, TIFF, PCX, GIF and TGA
- * Adjustable intensity 302nm UV transilluminator for both gel analysis and excision
- * Optional 150mm x 40mm anti-UV radiation observation window
- * Small footprint suitable for frequently used gel documentation
- * Operation quick guide and one-click auto data process
- * Low cost high performance gel documentation system

AUTOMATED NUCLEIC ACID EXTRACTION SYSTEM

- * High-throughput: Open system AKKI-96 can process 96 samples simultaneously.
- * Open and multiple functions can be designed for reagent optimization.
- * It is easy to use with 7 inch touch screen
- * Universal built-in program for easy using?
- * High purity and excellent yield of nucleic acid
- * UV lamp to avoid cross contamination



MODEL: AKKI-96



MODEL: APS-AE

ELECTROLYTE ANALYZER

1. Multi parameter estimation of Electrolytes.
2. No dilution of samples – Direct ISE technology.
3. Direct results from the sample without any chance of errors.
4. Temperature Compensation Factor (TCF) is calculated
5. System self testing is done when the unit is switched on.
6. point calibration after every 10 tests.

5 PART HEMATOLOGY ANALYZER

Kovipen 5 Plus is an innovative, economical, compact hematology analyzer using advanced tri-angle laser scattering, flow cytometry technology that can be applied for detecting the parameters of WBC, RBC, PLT, HGB, etc. 28 parameters, 8 research parameters and 2 histograms for RBC and PLT, 4 scattergrams for WBC differential) in whole blood or pre-diluted blood.



MODEL: APS-AHP5



MODEL: APS-AHP3

3 PART HEMATOLOGY ANALYZER

Principle

- * Impedance for WBC, RBC, PLT
- * Cyanide-free method for HGB

Print

- * Auto print, manual print

Communication

- * Support Bi-directional LIS

SEMI AUTO BIOCHEMISTRY ANALYZER

Test mode: Kinetic, End point, Two point, Absorbance
 Wavelength: 7 standard filters, 340, 405, 492, 510, 546, 578, 630nm, 1 free position
 Wavelength precision: ± 2 nm, width ≤ 10 nm
 Absorbance range: 0~4.500 Abs
 Absorbance precision: outside 0.0001 Abs, inside 0.00001 Abs



MODEL: APS-ABAS



MODEL: APS-249

BALANCE RANGE 0.01mg

- *Fully Automatic Internal Calibration with built in weight.
- *A built in under hook for below weighing.
- *Easy to read VFD (Vacuum Fluorescent display) Display.
- *Density measurement for solid and liquid.
- *Standard RS 232C Interface
- *High Resolution, Quick Weighing, Accurate Result
- *Based on E.M.F.C Technology
- *S.S. Weighing Pan, Level Indicator, Adjustable fit,
- *Tare Range up to max. Capacity of the balance.

MINI ELECTROPHORESIS SYSTEM

- Input Power : AC100~120V, 50~60Hz
- Output Power : DC35V / DC50V / DC100V
- Bath Dimensions (mm) : 110 x 121 x 43mm
- Volume of Bath : 230ml
- Timer range : 1min~99min
- Max. Power : 40W
- Dimensions (mm) : 190 x 130 x 60mm
- Construction of Bath : PC+ABS with high temperature resistance



MODEL: APS-SEM



MODEL: APS-MSH

HYBRIDIZATION SYSTEM

- Temperature Control Range : RT.+5°C-99.9°C
- Temperature Accuracy : ±1°C
- Temperature Uniformity : ±1°C
- Temp. Display Accuracy : ±0.1°C
- Heating Time (37°C to 95°C) : ≤3min
- Cooling Time (95°C to 45°C) : ≤7min
- Display : Touch Screen
- Capacity : 12 Slides

ISOTHERMAL FLUORESCENCE PCR

1. Small footprint, low-cost and easy to use, suitable for bench top and field applications
2. Purpose-designed sophisticated instruments that support any isothermal DNA/RNA amplification method employing fluorescence readout
3. 7 inch touchscreen, and offers stand-alone operation, it no need for a host computer
4. Support eight standard 0.2ml tubes



MODEL: APS-RFI



MODEL: APS-184

MICRO PLATE THERMO SHAKER

Temp. Range	: Ambient+5°C to 70°C Temp.
Increment	: 0.1°C Steps
Temp. Uniformity	: ±0.5°C
Temp. Accuracy	: 0.1°C
Orbit	: 2 mm
Speed Range	: 100-1200 RPM
Digital timer	: 1min – 99h59min
Overall Size	: 280 x 270 x 140 (mm)
Power Source	: AC220V 50/60Hz

HOMOGENIZER

1. Built upon the innovative design and designed for personal use
2. Broad performance range -- speed settings from 4 to 7 m/s
3. Small footprint -- requires minimal bench space
4. Holds 6x0.5ml/1.5ml/2ml or 2x5ml tubes
5. Patent design for the damping institutions and hold ultra quiet operation, even at the highest speed running



MODEL: APS-MRH



MODEL: APS-187

PCR MACHINE (RAMP CYCLER)

Display	: Monochrome LCM, 240 x 128 Pixel
Input Interface	: Capacitive touch Keypad
Auto Restart After Power Outage	: Yes
Footprint Dimensions (H x W x D)	: 225mm x 245mm x 415mm
Weight	: 9.0 Kg
Power Supply	: VAC 100-240, 50/60Hz, 500W
Certification	: CE IVD, RoHS

PLATE SEALER (SEALING MACHINE)

1. Easy to operate; To push the button once and the work station will move back and forth once
2. The motor have a self-locking function, to protect user.
3. Hold an adapter for SealBio-2. After filming and take it onto the machine, then be able to cut the film
4. Push the button one time, the work-station will move one time



MODEL: APS-MSP

AUTO KARL FISCHER TITRIMETER

MODEL: APS-196

MODEL: APS-APMA

AUTO MELTING POINT APPARATUS

MODEL: APS-UHSP

PCR WORK STATION AND HAND UV

CONDUCTIVITY METER

MODEL: APS-145

ION METER

MODEL: APS-137

MODEL: APS-149

PH METER MICROPROCESSOR BASED

MODEL: APS-147

**MICROPROCESSOR
CONDUCTIVITY/TDS/SALINITY METER**

DISSOLVE OXYGEN METER

MODEL: APS-150

HOT PLATE MAGNETIC STIRRER

MODEL: APS-148

MODEL: APS-H550-Pro

DIGITAL SOIL AND WATER KIT ANALYSIS KIT

MODEL: APS-152

MICROPROCESSOR TURBIDITY METER

MAGNETIC STIRRER

MODEL: APS7-S

MEDIA FILLING PUMP

MODEL: APS-LMCC

MODEL: APS-PFM

CLINICAL CENTRIFUGE 4500 RPM 15X8ML

MODEL: APS-162

VACUUM PUMP (OIL FREE)

VORTEX MIXER

MODEL: APS-164

PALM MICRO CENTRIFUGE

MODEL: APS-167

MODEL: APS-179

UV TRANSILLUMINATOR

MICRO PLATE THERMO SHAKER

MODEL: APS-184

MODEL: APS-SBW

WESTERN BLOTTING SYSTEM

GEL ROCKER

MODEL: APS-189

MODEL: APS-212

PROTEIN RUN VERTICAL PAGE

ELECTROPHORESIS

MODEL: APS-198

MODEL: APS-219

TWIN ELECTROPHORESIS SYSTEM

MODEL: APS-170

MICRO CENTRIFUGE 10000 RPM

APS CENTRIFUGE

MODEL: APSC-8

MODEL: APS-MLX

GEL DOCUMENTATION AND ANALYSIS

GEL DRYER

MODEL: APS-188

MODEL: APS-187

PCR 96-WELL MACHINE

TEST TUBE ROTATOR

MODEL: APS-192

MODEL: APS-218

SEMI DRY/SOUTHERN BLOTTING

POWER SUPPLY

MODEL: APS-225

HARISHVA HEALTHCARE PRIVATE LIMITED

Authorized Distributor AAPL
Oxair PSA Plant,

Care On Healthcare solution
(surgical drapes & packs),

APS labs (medical equipment's,
labware & IVF culture media, products &
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