



(A Pathozyne Group Company)

### Technical specification

General information :

Machine type : Random access

Test speed : Constant 200 test/hour (Mono reagent or double reagent)

Test principle : Colorimetric method, turbidimetry

Test methods : 1 point end, 2 point end, Fixed-Time, Kinetics

Calibrator type : Linear & nonlinear

### Sample unit

Sample tray : 40 sample position

Sample : Micro cup, sample cup, primary tube & blood collection tube (Φ 12-13)mm \* (25-100)mm

Sample volume : 2-30μl, step by 0.1μl

Sample probe : Liquid surface detection, timely tracking for liquid volume. Collision Protection

### Reagent unit

Reagent tray : 40 reagent positions

(40 for R1 & R2), Non-stop cooling system with peltier pad inside, 24 hours 2°C-14°C.

Reagent volume : 10-300μl, step by 1μl

### Reaction unit

Reaction tray : 44 reaction cuvettes, new amorphous optical plastics reaction cups, perfect transmittance

Reaction volume : 150μl-330μl

Temperature : Heating coil incubation system, reaction temperature (37±0.1°C)

### Mixing system

Mixer : Paddle-type mixing, effective and reducing carryover

### 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 7, Windows 8, Windows 10

Report printing : 6 formats option,

support custom formats

Interface : pattern, TCP/IP network interface

### Working conditions

Water consumption : 8L/hour (maximum)

Dimension : 780mm \* 565mm \* 1120mm (L\*W\*H)

Weight : 80kg

### Power Supply

220V ± 10%, 50/60 Hz, 2000VA,

Earthing voltage < 5V online ups (230V)

with isolated transformer 2KVA



**PATHO**  
tech - 200

- Fully Automated Random Access Biochemistry Analyzer
- Throughput : 200 test/hour with double reagent
- On board refrigeration and laundry system
- Easy availability of system packs

GLUCOSE	UREA	CREATININE	SGPT	SGOT	BIURUBIN (T&D)	CHOLESTEROL
TRIGLYCERIDES	HDL-DIRECT	LDL-DIRECT	LDH	AMYLASE	LIPASE	ALP
CALCIUM	MAGNESIUM	PHOSPHORUS	CK-NAC	CK-MB	ALBUMIN	TOTAL PROTEIN
URIC ACID	HbA1c	RF	CRP	ASO	G6PDH	S.ACETONE
FERITIN	D-DIMER	ADA	ACE	CHLORIDE	GAMMA GT	TOTAL IGE
CHOLINESTERASE	VITAMIN D	FRUCTOSAMINE	. . . . . An Adding More . . . . .			

## Orbit Diagnostics Pvt.Ltd.

Plot No. A-115, Kagal- Hatkangale Five Star MIDC area, Kagal,

Dist. Kolhapur- 416 218 (MS), India

Telefax : 0231-2305072,

E-mail: orbit@pathozyne.com

Mob : 9850146686, 9325490233



40 Sample Position  
40 Reagent Position  
On board refrigeration

High efficiency pyrex cuvettes  
Individually replaceable cuvettes  
Air incubation temperature control (37±0.1°C)



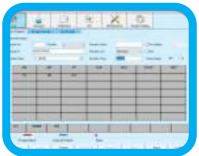
External and internal washing  
Waterfall washing station of probe  
Optimizing probe cleaning to avoid carry over

Teflon coated mixer  
Ensure no water dropping (reduces carryover)  
Homogenous mixing for accurate results



Onboard lamp window  
Lamp alignment and calibration not required  
Intensity measured Halogen lamp

Durable visible ceramic piston  
Accurate dispensing with 0.1 µl step  
Minimum maintenance



Windows XP, Windows 7, Windows 8, Windows 10  
Rejected Cuvette Memory  
Quality control L-J curve, waste guard and cum. mean



**CERAMIC PISTON** : Precise and accurate pipetting (as low as 2µl) long life ceramic piston, *save time & cost*  
**BLACK BOX OPTICAL SYSTEM** : Dust/Moisture Proof covered optical system increase efficiency, *save time & cost*  
**LAMP WINDOW** : Easy to change long life lamp minimize downtime, *save time & cost*  
**CUVETTES** : High precision, long lasting Pyrex cuvettes, individually replaceable, *save time & cost*  
**INSTRUMENT REAGENT SYNERGY** : Barcoded System, Auto programming /positing of reagent. *save time & cost*  
**COMPLETE SOLUTION** : System pack reagent, controls, calibrator. *Convenient inventory management*  
**COST PER TEST** : Proven Cost effectiveness