BEACONIC B200 Practical Solution for Automation

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 methos : 1 point end, 2 point end, Fixed-Time, Kinetics
Calibrator type : Linear & nonlinear
1 Point Linear, 2 Point Linear, Exponential
Logi - 10g, 3P, 4P, Multi-point Linear, Spline, Line Graph

Sample unit

Sample tray : 40 sample position
Sample : Micro 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. Vertical Collision Protection

Reagent unit

Reagent tray : 40 reagent positions (40 for R1 & R2), Non-stop cooling system with peltier pad inside, 24 hours 8˚C-14˚C.
Reagent volume : 10-300μl, step by 1μl

Reaction unit

Reaction tray : 44 single reaction pyrex cuvettes, perfect transmittance
Reaction volume : 150μl-330μl
Temperature : Solid state heating system (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 10
Report printing : 6 formats option, support custom formats
Interface : pattern, TCP/IP network interface

Working conditions

Water consumption : 8L/hour (maximum)
Dimension : 780mm * 565nm * 1120mm (L*W*H)
Weight : 80kg

Power Supply

220V ± 10%, 50/60 Hz, 1000VA,
Earthing voltage < 5V online ups (230V) with isolated transformer 2KVA

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BSCIC ISO 9001:2015 JAS-ANZ BSCIC ISO 13485:2016

BDPL/OCT25/VBB200VER03

BEACON GROUP

BEACONIC B200

Practical Solution for Automation

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

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40 Sample Position & 40 Reagent Position

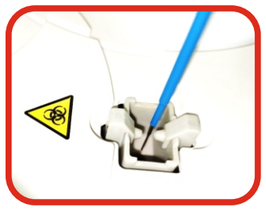
On board refrigeration

Barcoded reagent system

High efficiency pyrex cuvettes

Individually replaceable cuvettes

Solid state heating system (37±0.1°C)



External and internal washing

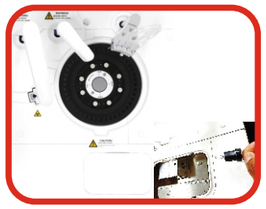
Waterfall washing station of probe

Optimizing probe cleaning to avoid carry over

Teflon coated mixer

Ensure no water dropping (reduces carryover)

Homogenous mixing for accurate results



Onboard lamp window

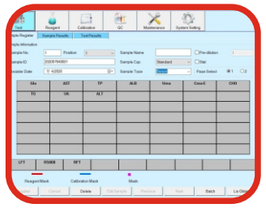
Lamp alignment not required

Intensity measured Halogen lamp

Durable visible ceramic piston

Accurate dispensing with 0.1 µl step

Minimum maintenance



Windows 10

Rejected Cuvette Memory

Quality control L-J curve, westgard and cum. mean

Practical **Solution** for Automation

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 *& cost of maintenance*

LAMP WINDOW : Easy to change lamp, minimize downtime

CUVETTES : High precision, long lasting Pyrex cuvettes, individually replaceable, *save cost*

INSTRUMENT REAGENT SYNERGY : Barcoded System, Auto programming /positing of reagent

COMPLETE SOLUTION : System pack reagent, controls, calibrator*. Convenient inventory management*

COST PER TEST : Proven Cost effectiveness

HbA1c	HDL	ASO TURBI	CRP TURBI	RF TURBI	LDL	LDH
ALBUMIN	GLUCOSE	AMYLASE	LIPASE	BILIRUBIN (T&D)	SGOT	SGPT
CALCIUM	CHOLESTEROL	UREA UV	CREATININE (ENZYMATIC)	MAGNESIUM	TOTAL PROTEIN	URIC ACID
PHOSPHORUS	CK-NAC	ALP	TG	VITAMIN D	IRON*	