



BEACON

Vchem Smart



Semi Auto Chemistry Analyzer

Slim, Sleek.....

A Smart Choice

FEATURES

4.3 inch color TOUCH SCREEN

Built in thermal printer

Online reaction curve

Built in quality control progress

Storage of 300 chemistry parameters

Pressure auto releasing peristaltic pump

1000 test results with editable patient information

Air purge facility after each sample to avoid carry over

TECHNICAL SPECIFICATIONS

Test Method

End point with standard
Two point kinetics (fixed time)
Multipoint kinetics
Multi point calibration up to 8 concentration points
Bichromatic
Absorbance

Reagent Unit

Principle - Photometric analysis with interference filter
Absorbance Range - 0.0000-3.0000 (linearity : $\pm 1\%$, Repeatability : 0.001, Resolution : 0.0001)
Spectral Range Selection - Automatic via filter wheel
Wavelengths - 340, 405, 505, 546, 578, 630 nm +2 free positions, ± 2 CML precision
Light Source - 6V 10W 2000 hrs. tungsten halogen lamp
Detector - Photodiode
Sleep Mode - To enhance lamp life, in non working hours sleeping mode will be activated

Thermal System

Temperature Regulation - Peltier regulated 25°C, 30°C, 37°C $\pm 0.3^\circ\text{C}$
Realtime temperature on screen

Cuvettes

Flow Cell - Quartz 32 μl
Path Length - 10 mm
Removable Cuvette (square)

Printer

In built thermal printer

Display & Input System

4.3 inch color touch screen

Aspiration System

Aspiration Volume - 300 μl to 1000 μl
Pressure auto releasing peristaltic pump
Air purge facility after each sample to avoid carry over

Marketed By



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Semi Auto Chemistry Analyzer

Test Parameter, Storage & CPU

Test Parameters - Up to 300
1000 test results with editable patient information
Storage of quality control and standard results
DDR2 SDRAM - 512 K Bytes
Flash - 2 MB
ARM Cortex A8, 720 Mhz

Quality Control

Levey-Jennings chart using Westgard's rule

Operating Conditions

Temperature - 10°C ~ 37°C
Relative Humidity - <85%

Power Requirement/Dimensions

Voltage - 100-240 V AC (Auto Adaption)
Online UPS with isolated transformer of 0.6KVA
Earth Voltage - <5V
Frequency - 50/60 HZ
External power adaptor - 12V 4.7 Amp
Dimensions - 300x250x140 (LxWxH)
Weight - 5 Kgs

