














## System specifications

 Throughput up to 200 tests/hour	 Continuous sample loading	 Sample type: primary tubes or pediatric cups	 Dedicated switch for reagent system cooling
 Run time optical cuvette quality check	 Samples automatic dilution (pre, post and rerun)	 Available both as open and closed system	 Level sensors for wash and waste tank
 Less than 1 L/h water consumption	 Quality control program	 Minimum maintenance	

## Software

Continuous sample loading and reagents refilling	Up to 3 QC levels per test, qc monitor and reports	Up to 8 calibrators per method.
Random access and stat, re-run sample worklists	Method statistics: including test counter, CV%, mean, graphical trend analysis	Dynamic autodilution of standards
Walk away capability with real time alarm	Automatic pre and post dilution	Bi-directional lis
Levey-jennings plots and westgard multi rules	Active reagent monitoring (volumes, available tests, calibration, qc status)	Positive identification of samples with internal barcode reader
		Printing on any windowscompatible printer in most common formats



## Test panel

### Clinical Chemistry

Albumin
Glucose UV
Alkaline Phosphatase
GOT
Amylase Bicarbonate
GPT
Bilirubin Direct
Hemoglobin A1C (HBA1C)
Bilirubin Total
Homocysteine (HCY)
Calcium
Iron
Chloride
LDH
Cholesterol
Lipase
Cholesterol HDL Direct
Magnesium
Cholesterol LDL (Calculated)
Myoglobin
Cholinesterase
Phosphorus
CK-MB
Total Proteins
CK-NAC
Triglycerides
Creatinine
Urea
Gamma GT
Uric Acid
Glucose
Zinc

### Immunochemistry

Anti-Streptolysin O (ASO)
C-Reactive Protein (CRP)
Immunoglobulin A (IGA)
Immunoglobulin G (IGG)
Immunoglobulin M (IGM)
Rheumatoid Factor (RF)



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Multifunction random access clinical chemistry  
**santhia 200**







# santhia 200

Multifunction random access clinical chemistry analyzer with wide range of testing possibilities

Dedicated to small & mid size, laboratories, doctor's offices, hospitals, clinics

 Throughput up to 200 tests/hour

 Low reagent consumption

 24 minutes of reaction time

 Up to 4 reagents handling



# Technical features

## Mode

Random access, stat, continuous sample loading

## Analysis

Throughput up to 200 tests / hour

End point, differential, fixed time, kinetic

Calibration up to 8 points for each analysis (linear, spline, logit-log, etc.)

Reagent handling: automatic up to 4 reagents up to 24 minutes of cuvette reaction time

## Sample

Removable tray

Up to 48 samples on board in primary tubes

75 mm or pediatric cups 1.5 ml

Sample volume: 1.5 – 100 µl

Barcode scan during sample processing

Automatic pre and post dilution

Test profiles and replicates

## Reagent

Removable tray

Up to 64 reagents on board

Reagent bottles available in different volumes:

13 ml, 25 ml and 40 ml

Reagent tray cooling for all positions

Reagent volume: 2–350 µl

Barcode scan for reagent identification

## Controls

Reaction volume: 180–350 µl

6 mm optical path cuvette

45 reusable plastic cuvettes

Reaction temperature 37°C

## Pipetting system

Ceramic piston diluter, maintenance free

Needle impact detection

Needle capacitive liquid level detection

## Optical system

Spectral range: 290–1100 nm

Interferential filters wavelengths:

340, 405, 505, 546, 578, 630, 660, 700 nm

Photometric linearity: 0-2.5 od; resolution 0.0001 od

Optical source: tungsten halogen lamp (long life, auto-power off)

Optical range: 0.5 od (10 mm conversion)

## Washing

10 steps (5×2) cuvette wash station

Pipetting needle auto-washed internally and externally

Water consumption: less than 1 l/h

Level sensor on waste and wash tanks

## User interface

External computer required, Windows® based

Communication: USB port or serial RS232

Various print-out format for patient results

Software usable for touch screen

Multi language software

## Dimensions

54×44×64 cm (W×D×H)

## Weight

37 kg

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