



Life needs answers

cobas c 311 analyzer

Experience the benefits of standardizing with **cobas**[®] solutions

Introducing the latest addition to the cobas[®] family of analyzers

Comprehensive features in a compact footprint

- Full menu including general chemistries, TDM's, DAT's, and serum proteins
- On-board capacity of 42 channels and 3 ISE's
- 300 tests per hour

Convenience through standardization

- Common ready-to-use reagent packs and user interface across **cobas**[®] platforms means less training and enhanced productivity
- Online updates and remote services via **cobas**[®] e-services

Control laboratory operations

- Automatic data flag processing of requesting repeats, dilutions without operator intervention
- With Middleware Solutions, functions include archiving, autoverification, reflex testing, and delta checking



cobas c 311 analyzer

Confidence in results

- Clot detection and test specific serum indices ensure reliable results
- Non-contact ultra-sonic mixing results in homogeneous distribution of reactants
- Common analytics yield comparable patient results across **cobas**[®] platforms
- Proven Hitachi instrument reliability



Diagnostics

System	Automated, discrete clinical chemistry analyzer intended for the in vitro quantitative/qualitative determination of analytes in body fluids		
System Components	Self contained floor model analyzer comprised of the analytical unit and control unit		
Sample Throughput	300 photometric tests per hour		
Number of Channels	42 channels and 3 ISE's		
Programmable Parameters	Maximum: 117 photometric, 3 ISE tests, 8 formulas, 3 serum indices		
Sample Material	Serum/plasma, urine, CSF		
Sample Input/Output	Sample disk with 108 sample positions plus: W1 position for ISE cleaning solution, W2 position for ISE activator, Real STAT interrupt		
Sample Cups and Tubes	Sample container	Diameter x length	
	Primary sample tube	16mm x 100mm	
	Primary sample tube	16mm x 75mm	
	Primary sample tube	13mm x 100mm	
	Primary sample tube	13mm x 75mm	
	Hitachi standard cup	17mm x 38mm, 2.5ml	
	Hitachi micro cup	8mm x 37mm, 1.5ml	
	False bottom tube	13mm x 75mm, one type definable	
Sample Clot Detection	Available (pressure sensitive clot detection system)		
Liquid Level Sensor	Capacitance sensing technology		
Sample Barcode Types	NW7 (Codabar); Code 39; ITF; Code 128		
Control Unit	Microsoft Windows XP, Pentium IV processor		
System Interface	RS-232C serial interface		
Sample Database	10,000 samples (routine, STAT, and QC samples)		
Calibration Methods	Start-up, re-calibration. For photometric assays: Linear, non-linear multi points, 2 point calibration, K-factor. Up to 100 calibrators pre-programmable. Storage of up to 180 curves. Preventative calibration of stand-by cassettes. Two k-factor can be defined for different sample types.		
QC Methods	Real-time QC, individual QC, cumulative QC. Up to 100 different controls pre-programmable. Preventative QC after calibration of stand-by cassettes. Auto QC (without operator intervention).		
Electrical Requirements	Power rating	AC 208 V AC/60 Hz (US/Canada)	
	Power supply fluctuation	No significant power supply fluctuation (operating on 208/230 V AC, max. power supply change: $\pm 10\%$)	
	Overtoltage category	II	
	Pollution degree	2	
	Power consumption	1.5 kVA for analytical unit; 0.5 kVA for control unit	
	Electrical installation	Technical standard class C, Required earthing $< 10\ \Omega$, Bonding impedance $< 0.1\ \Omega$ at 30 A, Insulation resistance $> 10\ M\Omega$ at 500 V	
Water/Waste Requirements	Bacteria-free, deionized water	< 10 cfu/mL	
	Conductivity	$> 10\ M\Omega$ resistance	
	Water pressure	5015 to 25 psi (1.054 – 1.76 g/cm ²)	
	Water supply volume	40 L/h	
Operating Conditions	Ambient temperature	18 to 32 C	
	Ambient humidity	45-85% (non-condensing)	
	Noise output	< 70 dB(A) for surrounding	
Physical Dimensions	Depth	859 mm	34 in
	Height	1260 mm	50 in
	Height Level of Monitor	1380-1570 mm	54.3- 61.8 in
	Width	1325 mm	52 in
	Weight	270 kg	595 lb
Sampling System	Sample pipetting volume	1.5-35 μ L, in 0.1 μ L increments	
	Detection of sample clogging	Pressure sensitive clot detection system	
	Liquid level sensor	Capacitance sensing technology	

COBAS, COBAS C, LIFE NEEDS ANSWERS and MYLABONLINE are trademarks of Roche.
©2007 Roche Diagnostics.
All rights reserved. 461-33517-0407

Roche Diagnostics
9115 Hague Road
Indianapolis, IN 46256
www.mylabonline.com
1-800-981-8863



Diagnostics