

cobas c 311 analyzer

take your lab to the next level



cobas c 311 analyzer

- Uses convenient **cobas c** reagent packs with liquid, ready-to-use test reagents.
- Growing test menu with more than 90 reagents.
- 3- to 10-minute test duration times.
- Combined photometric and ISE throughput up to 300 tests/hour.
- Clot and liquid level detection.
- Ultrasonic mixing of reagents and samples minimizes cross-contamination from carryover.
- Real-time, remote troubleshooting service and support through **cobas**[®] e-services.
- Ability to run third-party reagents.



System specifications

Feature	cobas c 311 analyzer
Test throughput	300 photometric tests/hour 450 ISE tests/hour
Number of channels	42 channels and 3 ISEs
Programmable parameters	86 photometric applications, 3 ISE applications, 3 serum indices, 8 calculated results
Sample material	Serum/plasma, urine, CSF, WB (HbA1c only)
Sample input/output	Disk with 108 positions for samples, calibrators and controls, plus W1 position for ISE cleaning solution, W2 position for ISE activator; user-definable STAT positions
Sample barcode types	NW7 (Codabar); Code 39; ITF; Code 128
System interface	RS-232C serial interface
Sample database	10,000 results (routine, STAT and QC)
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 standby cassettes. Two K-factors can be defined for different sample types.
QC methods	Individual QC and cumulative QC. Up to 100 controls pre-programmable/Preventative QC after calibration of standby cobas c packs/Auto QC (without operator intervention).
Electrical requirements	115 Volts AC; Frequency 60 Hz +/- 0.5%
Water requirements	Water Type: bacteria-free, deionized water Water Consumption: ~ 12 L/hr during operation
Operating conditions	Ambient room temperature of 15 to 32°C; relative humidity 30 to 85% non-condensing
Physical dimensions	Depth: 34 in (86.4 cm) Height closed: 50 in (127 cm) Height open: 67 in (170.2 cm) Width: 52 in (132.1 cm)
Weight	550 lbs (250 kg)

**For more information, contact your Roche representative,
call 1-800-852-8766 (option 7) or visit MyLabOnline.com.**

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cobas e 411 analyzer *take your lab to the next level*



cobas e 411 rack analyzer



cobas e 411 disk analyzer

- Up to 86 tests/hour
- Clot and liquid level detection
- System memory up to 2,000 results (samples and QC) that can be downloaded to a USB drive
- Automatic sample dilution upon request
- Windows XP-based control unit
- Individual and cumulative QC
- Preprogrammable calibrators and controls



System specifications

Feature	cobas e 411 analyzer
System	Fully automated, immunoassay analyzer for random access processing of ECL-based immunoassays (cobas e system format)
Types of modules	<ul style="list-style-type: none">• cobas e 411 disk analyzer• cobas e 411 rack analyzer <ul style="list-style-type: none">• Optional System Table (cabinet); Optional System Table Extension (for printer)
System components	Self contained bench top analyzer comprising an analytical unit and a customized user interface
System interfaces	RS232 serial interface, bidirectional
Throughput	Up to 86 tests/hour
Number of reagent channels	18 channels (reagent slots) for maximum of 18 tests
Programmable test parameters	N/A, programming-by-loading (PBT) concept, application data are transferred without operator intervention from the 2D barcode of the reagent pack (RP) into the instrument database
Sample material	Serum/plasma, urine, others
Sample input/output	<ul style="list-style-type: none">• Disk Model: 30 positions for samples, calibrators and controls• Rack Model: 15 racks with 5 samples each (= 75 samples in/out)• STAT port: STAT samples are processed with priority
Sample volume	10 – 50 µl
Sample clot detection	Standard (pressure sensor)
Sample barcode types	Code 128; Codabar (NW 7); Interleaved 2 of 5; Code 39
Control unit	Microsoft® Windows® XP-based panel PC
Calibrator/QC input	cobas e system-specific barcoded CalSet vials on disk or racks
Calibration methods	Lot calibration (L-cal); Reagent Pack (RP) calibration (R-Cal)
QC methods	<ul style="list-style-type: none">• Individual QC and cumulative QC• Up to 100 controls pre-programmable <ul style="list-style-type: none">• Preventive QC after calibration of the stand-by cobas e packs
Data storage capacity	<ul style="list-style-type: none">• The memory contains data files necessary for the analyzer and software to work together:• Reagent Data File: Up to 300 reagent packs• Sample Data File: Up to 2000 test records (for samples and controls)• Calibration Data File: Up to 160 calibrators <ul style="list-style-type: none">• QC Data File: Capacity up to 100 controls• Operating Parameter Data File: Up to 305 reagent applications• Up to 20 operator IDs
Electrical requirements	<ul style="list-style-type: none">• 230/110 Volts AC; 1,000 kVA (disk), 1,250 kVA (rack)• Frequency: 50 Hz or 60 Hz +/- 0.5%
Water/Waste requirements	<ul style="list-style-type: none">• Water: Bacteria free, de-ionized water supply, resistance of < 10 µS/cm• Liquid waste: Onboard waste container (4 liter), direct drain optional
Operating conditions	<ul style="list-style-type: none">• Ambient temperature: 18 to 32°C• Ambient humidity: 20 to 80% RH (without condensation)• Heat Output: 2,879 kJ/hr (analyzer unit)• Noise Output: 60 dBA (stand-by), 63 dBA (operation avg.)
Physical dimensions	<ul style="list-style-type: none">• Width (disk/rack): 120 cm / 170 cm 47.2 in / 67 in• Depth (disk/rack): 73 cm / 95 cm 28.7 in / 37.4 in• Height: 80 cm / 31.4 in (closed top cover) 109 cm / 43 in (opened top cover)
Weight	<ul style="list-style-type: none">• Disk: 180 kg / 397 lbs• Rack: 250 kg / 551 lbs

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