

cobas e 411 analyzer

Peace of mind in immunology





Actual product photo

- 01** CD-ROM, USB & printer ports enable efficient data management
- 02** Also available rack version with 75 sample positions
- 03** 30 continuous random access sample positions with STAT prior
- 04** **cobas**[®] touchscreen user interface is standardized to other cobas systems
- 05** 18 channels enable use of up to 18 parameters simultaneously
- 06** Easy removal of disposables via solid waste container
- 07** Disposable tips and cups eliminate carryover
- 08** Measuring cell provides unmatched detection using Electrochemiluminescence (ECL) technology
- 09** Consumables and liquid waste are easily accessible

Full workstation consolidation

- The **cobas e 411** analyzer is designed to deliver accurate results on account of proven Electrochemiluminescence (ECL) technology
- It consolidates routine endocrinology with cardiac, cancer, bone and infectious disease markers

Serum work area integration

- Combined with the **cobas c 311** analyzer, the system processes up to 95% of your serum work area workload
- Work area management solutions integrate sample and data management across systems

Seamless laboratory networking

- As part of the **cobas**[®] modular platform, the **cobas e 411** analyzer offers consistent results with other **cobas e** systems
- Universal reagent carriers and analytical components enable flexible network solutions

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Technical specifications

System	Fully automated, continuous loading and random access system for immunoassay analysis based on Electrochemiluminescence (ECL) technology. Available as a disk and rack system. System components: Analytical module including touchscreen PC
Test Throughput	Up to 86 tests/hr
Reagent concept	cobas e reagent pack: Ready-to-use reagents Onboard reagent capacity: 18 channels/reagent slots for up to 18 different assays Evaporation protection: Automatic closure of reagent lids
Programmable parameters	Max 60 assays definable via 2D-barcode including all necessary information (programming by loading)
Sample types	Serum, Plasma, Urine and others
Onboard sample capacity	Load/unload capacity: Disk: 30 samples Rack: 75 samples on 15 RD standard 5 position rack Rack types: Routine, STAT, Control, Calibrator STAT handling: Disk: Any unoccupied position on the sample disk Rack: Dedicated STAT port on rack feeder
Sample container types	Primary tubes: 5–10 mL; 16x100, 16x75, 13x100, 13x75 mm Sample cup: 2.5 mL Cups on tube
Sample volume	10 to 50 µL per test, depending on assay protocol
Sample probe	Disposable tips for individual sample to avoid carry over; Sample clot detection; Liquid level detection
Sample barcode types	PDF417, Code 128, Codabar (NW 7), Interleaved 2 of 5, Code 39

System interfaces	Touchscreen PC, RS 232 serial interface, bi-directional Standard PC ports (USB, ethernet, serial etc) for other communication devices
Sample database	2,000 results for routine, STAT and controls
Test methods	Pre-defined assay protocols (sandwich, competitive, titration)
Calibration methods	2-point calibration per lot or per cobas e reagent pack
QC methods	Individual QC; Cumulative QC; Preventive QC after calibration
Rerun / repeat / reflex	Rerun, repeat and reflex supported
Electrical requirements	Power requirements: 100–120 VAC 50/60 Hz single phase or 200–240 VAC 50/60 Hz single phase Power consumption: 1,000 VA
Water / waste requirements	Water supply: 3l container Water quality: $\leq 10\mu\text{S}/\text{cm}$ or ≥ 0.1 mega Ohm, bacteria-free Liquid waste: 4l container with overflow detection or direct drain Water consumption: Approx. 3l for 250 tests/approx. 12 mL/cycle
Regulatory compliance	GS, CE, UL, C-UL, CB-report and certificate
Operating conditions	Ambient temperature: 8 to 32°C (64.4°F to 89.6°F) Ambient humidity: 20% to 80% Noise output: 60 dbA (stand-by mode), 63 dbA (avg. during operation)
Physical dimensions	Width: 120 to 170 cm (disk/rack) Depth: 73 to 95 cm (disk/rack) Height: 56 cm (w/o PC unit) Weight: Approx. 170 kg (disk) and 210 kg (rack)



*Reference: cobas e 411 Operator Manual
Elecsys Reagent method sheets*

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