

cobas[®] 6000 analyzer series

Technical specifications

System	2nd Generation SWA: modular, analytical system platform, consolidated work area for Clinical Chemistry and Immunology, expandable and re-configurable on site
Type of modules	cobas c 501 module: Photometric measuring unit (incl. ISE) cobas e 601 module: Electrochemiluminescence (ECL) technology measuring unit
Number of module combinations	7 module combinations Up to 3 modules in one core unit cobas c 501 modules: 1 to 2 modules cobas e 601 modules: 1 to 2 modules cobas c 501 e 601 modules: 2 to 3 modules (only 2 units of one module type for SWA combinations possible)
Sample throughput	Up to 120 racks/hr or 600 samples/hr
Test throughput (theoretical max)	170 up to 2,170 tests/hr - overall 1,000 up to 2,000 tests/hr - with cobas c 501 modules 170 up to 340 tests/hr - with cobas e 601 modules 1,170 up to 2,170 tests/hr - with cobas c 501 and cobas e 601 modules
Number of channels (reagent slots)	Up to 151 channels, in total 63 channels (including ISE, automatic setting) on cobas c 501 module 25 channels on cobas e 601 module
Sample material	Serum, Plasma, Urine, CSF
Core unit analytics	Rack: 5 position rack, RD standard rack Rack types: Routine, STAT, Control, Calibrator, Rerun (manual), Wash Tray: Tray with 15 racks/75 samples, RD standard tray STAT port: STAT samples are processed with true STAT interrupt
Sample container types	Primary tubes: 5 to 10 mL; 16 x 100, 16 x 75, 13 x 100, 13 x 75 mm Sample cup: 2.5 mL Micro cup: 1.5 mL, (exception: cobas e 601 module) Cups on tube: Cup on top of a 16 x 75/100 mm tube; Cup on top of one non standard tube False bottom tube (FBT): One type is definable
Sample volume	1 - 35 µL
Sample dilution	3 - 121 times
Sample clot detection	Available for cobas c 501 and cobas e 601 module
Minimum sample volume	Primary tubes: 700 µL Sample cup: 100 µL Micro cup (FBT): 50 µL
Sample barcode types	Code 128; Codabar (NW 7); Interleaved 2 of 5; Code 39
System interfaces	RS 232 serial interface, bi-directional Interface to cobas link data station for cobas teleservice functionalities and automatic download
Sample data base	10.000 routine/STAT samples



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Test methods	For photometric modules: 1 point, 1 point + prozone check, 2 point, 2 point kinetic, 2 point + prozone check, 3 point, 1 point + kinetics Rate A, Rate A + serum index, Rate A with blank, Rate B
Calibrator/QC input	Via specified racks through the input buffer or STAT port
Calibration methods	Start-up, Re-calibration For photometric modules: Linear, non-linear multi-points, 2 point calibration, K-factor up to 100 different calibrators pre-programmable Storage of up to 180 curves Preventive calibration of the stand-by cobas c and cobas e packs on cobas c 501: Two k-factor can be defined for different sample types
QC methods	For e- and photometric modules: Real-time QC, individual QC, cumulative QC Up to 100 controls pre-programmable Preventive QC after calibration of the stand-by cassettes/rack packs Auto QC: QC without operator intervention (timer triggered)
Rerun/reflex function	Automatic rerun and manual rerun Automatic reflex is supported by the system, reflex request to be provided by Roche Middleware Solutions
Electrical requirements	Power requirements: 230 Volts AC; 110 Volts AC 2.4 kVA (for cobas c 501 e 601) Frequency: 50 Hz or 60 Hz +/- 0.5 %
Water/waste requirements	Water: Bacteria free, deionised water supply: resistance of < 1,0 µS/cm Water pressure: 0.5 – 3.5 kg/cm ³ , (49 - 343 Kpa) Biohazards waste: Separate container behind the system L. concentrated: Central drain port, diameter: ≥ 50 mm / 2 inches Wall drain < waste: 100 mm above the floor / 4 inches
Water consumption	Max flow rate: cobas c 501 module: approx. 40 L/hr cobas e 601 module: approx. 30 L/hr Typical consumption: cobas c 501 module: approx. 10 L/hr cobas e 601 module: approx. 12 L/hr <ce> system: approx. 22 L/hr
Operating conditions	Ambient temperature: 15 to 32 °C / 59 to 90 °F Ambient humidity: 30 to 85 % (RH, without condensation) Heat output: 1.5 kW (5400 kJ/hr for cobas c 501, 4320 kJ/hr for cobas e 601) Noise output: < 65 dB
Physical dimensions	Width: 188 to 498 cm / 74 to 196 inches Core unit: 69 cm / 27.2 inches cobas c or cobas e module: 120 cm / 47.2 inches Depth: cobas c or cobas e module: 98 cm / 38.6 inches Core unit: 104 cm / 41 inches Height: 130 cm / 51 inches Control unit: Width: 80 cm / 31.5 inches, depth: 80 cm / 31.5 inches
Weight	cobas c 501 module: 330 kg / 730 lb cobas e 601 module: 360 kg / 795 lb Core unit (sample loader, control unit, rack rotor): 180 kg / 400 lb

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