

cobas[®] 8000 modular analyzer series

Technical specifications

System	Modular, analytical system platform, consolidated work area for Clinical Chemistry and Immunochemistry, expandable and re-configurable on site
Types of modules	cobas ISE module: Electrolyte measuring unit cobas c 701 module: Photometric measuring unit cobas c 502 module: Photometric measuring unit cobas e 602 module: Electrochemiluminescence (ECL) technology measuring unit
Number of configurations	24 unique configurations (up to 4 modules per core unit) 10 configurations with photometric modules 10 configurations with photometric and HetIA modules 4 configurations with HetIA modules
Sample throughput	Up to 200 racks/hour or 1,000 samples/hour
Test throughput (theoretical max)	170 up to 9,800 tests/hour 3,800 up to 9,800 tests/hour: photometric modules (with ISE) 3,670 up to 7,970 tests/hour: photometric (with ISE) and HetIA modules 170 up to 680 tests/hour: HetIA modules
Number of reagent channels (reagent slots)	25 up to 280 reagent channels: cobas ISE module: 3 reagent channels cobas c 701 module: 70 reagent channels cobas c 502 module: 60 reagent channels cobas e 602 module: 25 reagent channels
Sample material	Serum, plasma, urine, CSF, supernatant
Core unit analytics	Load/unload capacity: 300 samples for each 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 priority
Sample container types	Primary tubes: 5 to 10 ml; 16 x 100, 16 x 75, 13 x 100, 13 x 75 mm Hitachi Sample cup: 2.5 ml Hitachi Micro cup: 1.5 ml, (exception: cobas e 602 module) Cups on tube: Cup/Micro cup on top of a 16 x 75/100 mm tube Non standard tube: False bottom tube or ø 11 – 13 tubes, with lengths of 63 – 102 mm (ø 11 – 13 tubes are available only for cobas c 502 module) Cups on non standard tube: Cup/Micro cup on top of a non standard tube
Sample volume	1.5 – 35 µl
Sample dilution	3 – 121 times
Sample clot detection	Available for cobas ISE, cobas c 701, cobas c 502, cobas e 602 modules
Sample air bubble detection	Available for cobas e 602 module
Sample storage capacity	12,000 sample data sets (as a total for routine, STAT and control samples)



Life needs answers

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Rerun/reflex function	Automatic rerun Automatic rerun is supported by the system, automatic reflex request to be provided by cobas 8000 data manager
Electrical requirements	Main AC voltage: 1-2 module system: (1) 50A, 208V 3-4 module system: (2) 50A, 208V
Water consumption	Max Flow Rate: cobas c 701 module: approx. 50 L/h (including ISE module) cobas c 502 module: approx. 40 L/h cobas e 602 module: approx. 30 L/h Average Consumption: cobas c 701 module: approx. 36 L/h (including ISE module) cobas c 502 module: approx. 10 L/h cobas e 602 module: approx. 12 L/h
Operating conditions	Ambient temperature: 64.4 – 89.6 °F (18 – 32 °C) Ambient humidity: 30 – 85 % Heat output core: 3410 BTU/hr cobas ISE module: 1705 BTU/hr cobas c 701 module (including Module Sample Buffer): 10235 BTU/hr cobas c 502 module (including Module Sample Buffer): 7845 BTU/hr cobas e 602 module (including Module Sample Buffer): 6825 BTU/hr
Physical dimensions	Core Unit: 3.0 ft (width) x 3.5 ft (height) x 3.1 ft (depth) cobas ISE module 1.5 ft (width) x 3.8 ft (height) x 3.7 ft (depth) cobas c 701 module (including Module Sample Buffer): 4.9 ft (width) x 4.4 ft (height) x 3.8 ft (depth) cobas c 502 module (including Module Sample Buffer): 4.9 ft (width) x 4.4 ft (height) x 3.8 ft (depth) cobas e 602 module (including Module Sample Buffer): 4.9 ft (width) x 3.8 ft (height) x 3.8 ft (depth) 1 module system w/ISE (max) 9.4 ft (width) x 4.4 ft (height) x 3.8 ft (depth) 2 module system w/ISE (max) 14.3 ft (width) x 4.4 ft (height) x 3.8 ft (depth) 3 module system w/ISE (max) 19.2 ft (width) x 4.4 ft (height) x 3.8 ft (depth) 4 module system w/ISE (max) 24.1 ft (width) x 4.4 ft (height) x 3.8 ft (depth)
Weight	Core Unit: approx. 400 lbs cobas ISE module: approx. 386 lbs cobas c 701 module (incl. Module Sample Buffer): approx. 1444 lbs cobas c 502 module (incl. Module Sample Buffer): approx. 1124 lbs cobas e 602 module (incl. Module Sample Buffer): approx. 1202 lbs Control Unit: approx. 165 lbs

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