cobas® 6800/8800 Systems
Systems Specifications
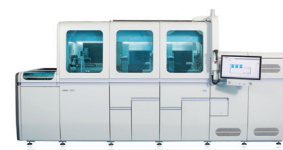
Performance Specifications

	cobas® 6800 System	cobas® 8800 System
Time to First Results (up to 96 tests) Subsequent batches (96 tests)	<3.5 hours Every 90 minutes thereafter	<3.5 hours Every 30 minutes thereafter
Maximum Throughput (8 hrs | 24 hrs)*	384 | 1,344 tests	960 | 3,072 tests
Walk-away Time*	8 hours	4 hours
Maximum Number of Tests per Run Results Released	96 tests including controls Batches of 96 tests, with up to 3 assays per batch	
User interactions	1. Load/unload samples, load reagents and consumables as needed 2. Remove waste (solid and liquid) 3. Review and release results	

Onboard Inventory

	cobas® 6800 System	cobas® 8800 System
Samples (RD-5/MPA Racks)	350	350
Assay Reagent Cassettes	Up to 12 (up to 5,760 tests)	Up to 12
Control Cassettes	Up to 8	Up to 8
cobas omni MGP Reagent	2 (960 tests)	4 (1,920 tests)
cobas omni Specimen Diluent Reagent (1 L bottle)	2 (1,152 tests)	4 (2,304 tests)
cobas omni Lysis Reagent (1 L bottle)	2 (576 tests)	4 (1,152 tests)
cobas omni Wash Reagent (5 L bottle)	3 (864 tests)	6 (1,728 tests)
cobas omni Processing Plates	8 (384 tests)	16 (768 tests)
cobas omni Amplification Plates	8 (768 tests)	16 (1,536 tests)
cobas omni Pipette Tips	8 (384 tests)	16 (768 tests)

Compatible Tubes

Tube dimensions acceptable for use on the **cobas**® 6800/8800 Systems:

Tube Size	Acceptable Measurement (mm)
Height	65-103
Outside Diameter (includes barcode label)	12-16.2

*May vary based on workflow demands

Roche

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Barcode Types Supported

(1-23 characters)

- Codabar
- Code 128
- Code 39
- Code Interleaved 2 of 5
- Code 93
- Code EAN-8
- Code EAN-13 (including JAN code)

The **cobas**® 6800/8800 Systems only support ASCII Codes 32-126 in the barcode

Power Supply

Line Voltage	200-240 VAC +/- 10%
Line Frequency	50/60Hz +/- 5%
Maximum Power cobas® 6800 System cobas® 8800 System	3500 VA 8200VA
Insulation Coordination	Installation category II (IEC 61010-1)

Environmental requirements (operating)

Ambient room temperature	15°C to 28°C
Relative humidity	30% to 80% (no condensation)
Air pressure	80-106 kPa
Altitude	<2000m

Dimensions & Weight

cobas® 6800 System (Fixed)

Instrument Dimensions	292 x 216 x 129 cm (W x H x D)
Instrument Weight Excluding Instrument Gateway Server Including Instrument Gateway Server	1573 kg 1624 kg

cobas® 6800 (Movable)

Instrument Dimensions	292 x 222 x 129 cm (W x H x D)
Instrument Weight Excluding Instrument Gateway Server Including Instrument Gateway Server	1701 kg 1752 kg

cobas® 8800 System

Instrument Dimension	429 x 216 x 129 cm (W x H x D)
Instrument Weight Excluding Instrument Gateway Server Including Instrument Gateway Server	2354 kg 2405 kg

Instrument Gateway (IG) Server

- Functions as a central server when interconnecting and operating multiple Systems
- System connectivity: up to 5 analytic systems and 4 **cobas p** 680 instruments managed by a single instrument gateway
- LIS Connectivity: uni- and bi-directional communication using HL7 standard protocol

Contamination Prevention

- Airlock doors
- Pipette tips with filter technology
- Dedicated pipette tips for each sample transfer and for transfer of extracted nucleic acid
- Stainless steel 8-fold needle pipetting transfers assay-specific reagents, controls and other bulk reagents required for sample preparation and amplification; washed after each use
- Automatic heat sealing of **cobas omni** Amplification Plate