

cobas[®] 6800/8800 Systems

Systems Specifications



Performance specifications

| | cobas [®] 6800 System | cobas [®] 8800 System |
|---|--|--------------------------------|
| Time to first results (up to 96 tests)* | <3.5 hours | <3.5 hours |
| Subsequent batches (96 tests) | Every 90 minutes thereafter | 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 | 96 tests including controls | |
| Results released | Batches of 96 tests, with up to 3 assays per batch | |
| User interactions | <ol style="list-style-type: none"> 1. Load/unload samples, load reagents and consumables as needed 2. Remove waste (solid and liquid) 3. Review and release results | |
| cobas omni Utility Channel | <ul style="list-style-type: none"> • Perform fully automated standardized LDTs • Up to 6 targets per plate • Mixed batching of LDTs** | |

*May vary based on workflow demands

IVD and LDT samples are run on separate **cobas omni processing plates

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) |

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



Not available in all markets, including the U.S.



Life needs answers



Compatible tubes

| Tube size | Acceptable measurement (mm) |
|---|-----------------------------|
| Height | 75-100 |
| Outside diameter (includes barcode label) | 12.5-16 |

False bottom tubes

| Ordering information | Sarstedt FBT 62.612 |
|----------------------|---|
| Assays supported | HIV-1, HBV, HCV and CMV |
| Compatible software | cobas [®] 6800/8800 Systems Software 1.1 and higher |

Power supply

| | |
|---------------------------------------|--|
| Line voltage | 200-240 VAC +/- 10% |
| Line frequency | 50/60Hz +/- 5% |
| Maximum power | |
| cobas [®] 6800 System | 3500 VA |
| cobas [®] 8800 System | 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 | 1573 kg |
| Including instrument gateway server | 1624 kg |

cobas[®] 6800 System (Movable)

| | |
|-------------------------------------|-----------------------------------|
| Instrument dimensions | 292 x 222 x 129 cm (W x H x D) |
| Instrument weight | |
| Excluding instrument gateway server | 1701 kg |
| Including instrument gateway server | 1752 kg |

cobas[®] 8800 System

| | |
|-------------------------------------|--------------------------------|
| Instrument dimension | 429 x 216 x 129 cm (W x H x D) |
| Instrument weight | |
| Excluding instrument gateway server | 2354 kg |
| Including instrument gateway server | 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 6* **cobas p** 680 instruments managed by a single instrument gateway server
- 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

*Up to 4 **cobas p** 680 Instruments when using **cobas**[®] 6800/8800 System Software 1.0
Up to 6 **cobas p** 680 Instruments when using **cobas**[®] 6800/8800 System Software 1.1

