## cobas





# cobas® 5800 System System specifications

2 hours 45 minutes
Every 60 minutes thereafter
144   528 tests
up to 4 hours
24 tests including controls; with up to 6 different assays per run
Load/unload samples, load reagents and consumables as needed
2. Remove waste (solid and liquid)
3. Review and auto-release results
Consolidate open channel assays** with Roche IVD assays on a single platform
<ul> <li>Develop and automate your own LDTs with up to 24 targets per plate</li> </ul>
<ul> <li>Mixed processing of open channel assays and Roche IVD assays</li> </ul>

<sup>\*</sup>May vary based on workflow demands.
\*\*Open channel assays may include third-party IVD assays, as well as routine lab-developed tests (LDTs).

Onboard inventory	cobas® 5800 System
Samples (Standard tubes   RD-5/MPA Racks   Collection medium containers)	128   80   28
Assay reagent cassettes	Up to 15 (up to 7,200 tests)
Control mini racks	Up to 16
cobas omni MGP reagent	1 (480 tests)
cobas omni specimen diluent reagent (1 L bottle)***	1 (240 tests)
cobas omni lysis reagent (1 L bottle)	2 (432 tests)
cobas omni wash reagent (4 L Bottle)†	1 (240 tests)
cobas omni processing plates 24	4 (96 tests)
cobas omni liquid waste plates 24	4 (96 tests)
cobas omni amplification plates 24	8 (192 tests)
Processing tips <sup>‡</sup>	3 x 96 (144 tests)
Eluate tips	2 x 96 (192 tests)

<sup>\*\*\*</sup> Calculated for the addition of 350ul

<sup>†</sup> For 3-4 assays per run

<sup>\* 2</sup> processing tips are needed per sample





Compatible tubes		Tube dimensions acceptable for use on the <b>cobas</b> ® 5800 System	
Tube size		Acceptable measurement (mm)	
Height (without cap)		65 - 103	
Outside diamete	r (includes barcode label)	12 - 16.2	
1D Barcodes • Code 128	2D Barcodes  • Data matrix ECC 200	Power supply	
• Code 39	Aztec code	Line voltage	100-240 VAC +/- 10%
• Codabar		Line frequency	50/60Hz +/- 10%
<ul><li>Interleaved 2 of 5</li><li>EAN-8</li><li>EAN-13</li></ul>		Maximum power consumption	1600 VA
• Code 93		Environmental requirement	s (Operating)
		Ambient room temperature	15°C to 32°C
		Relative humidity	20% to 80% (no condensation)
		Altitude	up to 2000 m
		Pollution degree	2

## Dimensions & weight

Power supply	
Instrument dimensions	134 x 175 x 79 cm (W x H x D)
Instrument weight	623 kg

#### X800 Data Manager

- Functions as a central server when interconnecting and operating multiple Systems
- System connectivity: up to 3 analytic systems managed by a single x800 Data Manager
- LIS Connectivity: uni- and bi-directional communication using HL7 standard protocol

#### **Contamination prevention**

- Controlled air flow in the deck area
- Pipette tips with filter technology
- Dedicated pipette tips for each sample transfer and for transfer of extracted nucleic acid
- Stainless steel 2-fold needle transfers assay-specific reagents and other bulk reagents required for sample preparation and amplification; washed after each use
- Controls (RMCs) are transferred using pipette tips
- Automatic heat sealing of **cobas omni** Amplification Plate

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