





# cobas® 5800 Systems

Specification sheet

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# Performance specifications

Time to first results (up to 24 tests)* Subsequent runs (24 tests)	2 hours 30 minutes Every 60 minutes thereafter	
Maximum throughput (8 hrs   24hrs)*	144   528 tests	
Walk-away time*	8 hours	
Test format	Plates of up to 24 tests with up to 6 assays per plate Two 24 well thermal cyclers	
User interactions	<ol> <li>Load/unload samples, load reagents and consumables as needed</li> <li>Remove waste (solid and liquid)</li> <li>Review or auto-release results</li> </ol>	
Support for lab developed tests with the cobas omni utility channel	Develop and automate your own lab developed tests (LDTs) with up to 24 targets per plate Mixed processing of open channel assays** and Roche IVD assays	

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

# Onboard inventory

Sample Capacity	Up to 128 primary or secondary specimen tubes Up to 28 liquid based cytology vials (ThinPrep® PreservCyt Solution) Up to 80 samples loaded in 5-position racks
Reagent capacity	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)

\* Calculated for the addition of 350ul \* For 3-4 assays per run \* 2 processing tips are needed per sample

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#### Compatible tubes

Tube dimensions acceptable for use on the **cobas**® 5800 System

Tube Size	Acceptable Measurement (mm)
Height (without cap)	65-103
Outside diameter (includes barcode label)	12.0 - 16.2

#### Barcode types supported

1D barcodes	2D barcodes
<ul> <li>Code 128</li> <li>Code 39</li> <li>Codabar</li> <li>Interleaved 2 of 5</li> <li>EAN-8</li> <li>EAN-13</li> <li>Code 93</li> </ul>	<ul> <li>Data matrix ECC 200</li> <li>Aztec code</li> </ul>

### Dimensions & weight

Instrument dimensions	53 x 73 x 3 <b>2</b> inches (W x H x D)
Instrument weight	1374 lbs.

# Environmental requirements (operating)

Ambient room temperature	15°C to 32°C
Relative humidity	30% to 80% (no condensation)
Altitude	up to 2000 m
Pollution degree	2 (IEC 61010-1)

#### Power supply

Line voltage	100-240 VAC +/- 10%
Line frequency	50/60Hz +/- 5%
Maximum power consumption	1600 VA



## 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
- Order/ Result Handling
- User Management
- Configurations for user, assay priority, etc



## **Contamination Prevention**

- Reagent and control covers & smart pipetting pathway
- Pipette tips with CO-RE filter technology
- Single use consumables
- Dedicated pipette tips for each sample transfer and for transfer of extracted nucleic acid
- Automatic heat-sealing of cobas omni Amplification Plate
- Stainless steel pipetting transfers assay specific reagents, controls, and other bulk reagents required for sample preparation and amplification: washed after each use

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