cobas® 8100 automated workflow series

Input station

Mandatory, maximum 1 station

Input Buffer (IPB)

Basic specs	• 50, 100 position generic trays • Either 13 mm or 13 & 16 mm flex-trays • Optional sample loading with 5 pos. racks and 100 pos. trays • Loading area for up to 400 samples • Tube type identification (tube dimensions & cap color) – used to cross-check the tube type with the tests/ specimen type • Throughput 800 samples/hour • Up to 2 modules per **cobas** 8100 to increase throughput to 1,100 samples/hour
Dimension (W x D x H)	1,050 x 1,100 x 1,500 mm
Weight	330 kg
Heat emission	482 kcal/h 0,56 kW
Power rating	1,0 kVA

Automatic Centrifuge Unit (ACU)

Basic specs	• 36 tubes per run (9 tubes per bucket) • Prioritization of STAT samples • Individual parameter setting per ACU • Prioritized unloading of STAT samples • Up to 3,000 g centrifugation force • Throughput of 300 samples/hour @ 5 min. spin time • Up to 3 modules per **cobas** 8100
Dimension (W x D x H)	900 x 1,100 x 1,500 mm
Weight	250 kg
Heat emission	1496 kcal/h 1,74 kW
Power rating	2,0 kVA

Sample Check Module (SCM)

Basic specs	• **Sample volume detection / LLD** • Accurate determination after separation • Detectable through labels • Compares the volume in the tube to the required volume • **Sample quality assessment functionality** • Qualitative measurement of Serum Indices without direct access to the sample • Window of 6.5mm to see the sample required • Up to 1 module per **cobas** 8100
Dimension (W x D x H)	300 x 1,100 x 1,500 mm
Weight	160 kg
Heat emission	260 kcal/h 0,32 kW
Power rating	0,5 kVA

Destopper (DSP)

Basic specs	• Decapping of rubber, hemogard, Sarstedt screw caps (including new FBT) and flex caps in any combination • Throughput: 800 samples/hour • Up to 1 module per **cobas** 8100
Dimension (W x D x H)	300 x 1,100 x 1,500 mm
Weight	150 kg
Heat emission	241 kcal/h 0,28 kW
Power rating	0,5 kVA

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Aliquot station

Optional, maximum 1 station

Barcode Labeler / Tube Feeder (BCL)

Basic specs	• Thermal transfer printer • Compatible with all standard bar codes (Codabar (NW7), interleaved 2 of 5 (ITF), Code 39, Code 128) • 3,000 aliquot tubes onboard • Bulk loading of aliquot tubes – Optical sensor • Throughput: 800 samples/hour • Up to 2 modules per **cobas** 8100 allowing for feeding of two different aliquot tubes (e.g. standard and false bottom tube)
Dimension (W x D x H)	600 x 1,100 x 1,500 mm
Weight	250 kg
Heat emission	464 kcal/h 0,54 kW
Power rating	1,0 kVA

Aliquot Module (AQM)

Basic specs	• Aliquoting into labeled aliquot tubes • LLD, clot detection • Aliquot tip volume: 2,000 µL • Automatic tip feeding (1,000 tips onboard) • Waste capacity: up to 1,200 tips • Up to 10 aliquots per sample • Throughput: 800 samples/hour (max. 1,600 aliquots/hour) • Up to 1 module per cobas 8100
Dimension (W x D x H)	900 x 1,100 x 1,500 mm
Weight	250 kg
Heat emission	585 kcal/h 0,68 kW
Power rating	1,0 kVA

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Output station

Mandatory station, maximum 2 stations

Restopper Flex-cap (RSF) / Restopper Screw Cap (RSS)

Basic specs	• Storage capacity at least 2,500 caps – Optical sensor • RSF: flex caps (Sarstedt) for 13 and 16 mm tubes • RSS: screw caps • Throughput: 600 samples/hour • Up to 2 modules per output station
Dimension (W x D x H)	300 x 1,100 x 1,500 mm
Weight	150 kg
Heat emission	378 kcal/h 0,44 kW
Power rating	0,5 kVA

Add-on / Output Buffer (AOB)

Basic specs	• Generic trays with 100 pos. • Samples can be retrieved automatically for add-on, rerun, reflex/repeat tests as requested • Storage area for up to 1000 samples (10 trays) • Manual retrieval of samples possible • Multiple buffering targets available per module • Throughput: 800 samples/hour • Up to 3 modules per output station
Dimension (W x D x H)	900 x 1,100 x 1,500 mm
Weight	320 kg
Heat emission	568 kcal/h 0,66 kW
Power rating	1,0 kVA

Output Buffer / Sorter (OBS)

Basic specs	• Sample sorting into 25, 50, 100 position generic trays • Either 13 mm or 13 & 16 mm flex-trays – Group multiple targets into logical targets – Split sorting targets into smaller logical targets – Sysmex racks, Hitachi 5 pos. racks • Sorting area for up to 400 samples • Default sorting area for tubes with problems e.g. BC not readable, no test requests, aliquot error • Throughput: 800 samples/hour • Up to 2 modules per output station
Dimension (W x D x H)	600 x 1,100 x 1,500 mm
Weight	230 kg
Heat emission	292 kcal/h 0,34 kW
Power rating	0,5 kVA

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Installation specifications

Environmental conditions

The following environmental specifications should be followed in order to ensure correct operation of the system.	
1	Indoor use only
2	Avoid exposure to dusts and provide adequate ventilation
3	No direct sunlight
4	The floor is level (angle: less than 1/200)
5	The floor is strong enough to hold the weight of the instrument (at least 500 kg/m^2)
6	Room temperature: 15 to 32°C
7	Any temperature changes should be not greater than ±2°C when using the system
8	Room humidity: 30 to 80 % (non condensing)
9	Ambient air pressure: 106 kPa to 80 kPa
10	No perceptible vibration
11	No significant power supply fluctuation (see table power source requirements for details)
12	No machines discharging ultrahigh frequencies (e.g. electric discharger)
13	No equipment generating electromagnetic waves in near vicinity (e.g. cell phones, transceivers, cordless phones, etc.)
14	A three-wire power supply cord with a safety ground (ground resistance of less than 10Ω)
15	Maximum installation site altitude is 2,000 m

Noise level	Operation: <65 dB (A) Stand-by: <55 dB (A)
Waste	Solid waste in DSP and AQM
Interface	USB-printer, standard Ethernet

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