

cobas p 612 pre-analytical system

Technical specifications



System description

Basic System

cobas p 612 pre-analytical system

07563116001

Basic Specifications

- Continuous loading of tubes
- Simultaneous loading of different tube types
- Prioritization of urgent samples
- Registration of samples
- Comprehensive inspection of sample quality
 - Tube type identification via tube dimensions & cap color
(used to cross-check the tube type with the test request and/or specimen)
 - Liquid level check and sample volume calculation through 3 barcode label
 - Spin status detection
 - Sample clot detection (during aliquoting)
- Decapping of tubes
- Simultaneous decapping of hemogard, screw and rubber stopper caps
- Removal of caps with a twist and pull motion to prevent buildup of aerosols
- Aliquoting according configurable criteria, including utilizing sample quality check information (up to 28 aliquots from one primary tube)
- Aliquot labelling
- Safety cross check of the aliquot barcode with the primary barcode
- Definable pipetting volume (disposable tip is not exchanged in case of multiple sample uptake)
- Sorting according configurable sorting criteria, including utilizing sample quality check information for error handling
- Flexible and freely definable input and output areas:
 - Into and out of racks
 - Out of centrifuge buckets
- Definable output areas for tubes with specific errors (e.g. BC not readable, no test requests)
- First pass and recursive workflow
- Automatic barcode alignment of tubes for reading and sorting
- Archiving of samples

System description

Options	Bulk loader module for cobas p 512/612	07135645001
	Bulk loader module for cobas p 471	07084285001
	cobas p 471 centrifuge unit	07563787001
	cobas p 671 centrifuge unit	07563795001
	QSI camera	07563132001
	Primary recapping module	07563701001
	Primary and secondary recapping module ▪ Sealing foil (9 x 500 foils)	07563710001 04453859001
Optional Specifications	<ul style="list-style-type: none"> ▪ Bulk loading of samples ▪ Centrifugation of samples (connection to single or double centrifuge) ▪ Recognition of sample quality into 5 different user-defined categories (serum ok, light hemolytic, hemolytic, lipemic, icteric) ▪ Capture of sample image 	

Specifications

Throughput	Up to 1400 tubes per hour (basic system without aliquoting)*	
Sample identification	<ul style="list-style-type: none"> ▪ Positive sample identification via barcode ▪ Barcode types supported: Codabar, 2 of 5 interleaved (ITF), Code 39, Code 128 (incl. ISBT 128), others** 	
Input / Output Capacity	<ul style="list-style-type: none"> ▪ Input: 600 samples, 4 drawers, up to 30 targets ▪ Output: 1200 samples; 8 drawers, up to 41 targets 	
Tube types	Supports established tubes for hematology, coagulation, serum, plasma and urine manufactured by BD, Sarstedt, Kabe, Greiner, Terumo and other tube vendors <ul style="list-style-type: none"> ▪ Accepts most 3, 5, 7 and 10 ml plastic tubes ▪ Tubes can be qualified on request 	
Sample carriers	Supports racks supplied from Roche and other vendors <ul style="list-style-type: none"> ▪ Standard racks ▪ Analyzer racks ▪ Archive racks ▪ Centrifuge buckets 	
Aliquot tips	<ul style="list-style-type: none"> ▪ Disposable tips for carry-over free ▪ 384 tips on board in 4 tip racks ▪ Standard pipetting tips, non-conductible 1000 µl (10 x 96) 04976274001 ▪ Dualfilter pipetting tips, non-conductible 1000 µl 	
Aliquot tubes	<ul style="list-style-type: none"> ▪ Round bottom tube 13 x 75 mm ▪ False bottom tube 13 x 75 mm 	
Dimensions	<ul style="list-style-type: none"> ▪ Width: approx. 3.14 m (123.6") ▪ Depth: approx. 1.41 m (55.5") ▪ Height: approx. 1.84 m (72.4") ▪ Weight: approx. 878 kg (1936 lbs) Control unit is incorporated on the system	
Operating conditions	<ul style="list-style-type: none"> ▪ Designed for indoor operation up to 2000 meters above sea level ▪ Ambient temperature +15 °C to +30 °C (+59 °F to +86 °F) ▪ Relative humidity 20 % to 80 % ▪ Power consumption: approx. 1000 W ▪ Voltage: 230 V, 50/60 Hz (fuse 6.3 AH) and 115 V, 50/60 Hz (fuse 10 AH) 	
Compressed air	<ul style="list-style-type: none"> ▪ Dry and oil free ▪ Air pressure: min. 6.5 bar (94 psi) to max. 8.0 bar (116 psi) ▪ Air consumption: approx. 94 l/min (24.8 gals/min), with recapper 	
Interface	<ul style="list-style-type: none"> ▪ ASTM protocol ▪ Network connection via RS 232 and Ethernet ▪ Remote access for diagnosis and service 	
Safety marks	CE, ETL	

* The final throughput depends on different parameters as for example the aliquot volume or the number of aliquots per primary tube
 ** Other barcode types can be checked on request

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