

cobas p 612 pre-analytical system

Technical specifications



System Specifications

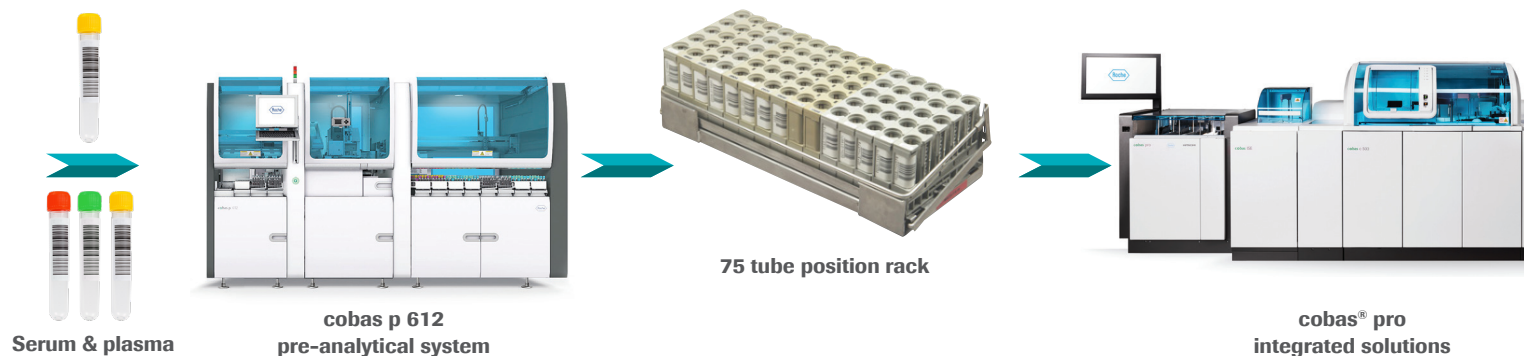
- Continuous and simultaneous loading of different tube types
- Prioritization of urgent samples
- Registration of samples
- Comprehensive inspection of sample quality
 - Tube type identification via tube dimensions and cap color (used to cross-check the tube type with the test request and/or specimen)
 - Liquid Level check and sample volume calculation via laser through up to 3 barcode labels
 - Spin status via laser through up to 3 barcode labels
 - Sample clot detection (during aliquoting)
 - Qualitative HIL check via camera (optional)
- Decapping of tubes
- Simultaneous decapping of hemogard, screw and rubber stopper caps
- Removal of caps with a twist and pull motion to prevent build-up 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 third party 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
- Validated for Cross Contamination Compliance and Nucleic Acid Testing



Validated for multiple tube types and sizes

Pre-analytical processing of multiple tube types

Example workflow: Tubes are sorted into the Hitachi 5-position rack tray (75 tube positions) which allows direct loading onto the **cobas®** family of analyzers



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	<p>Supports established tubes for hematology, coagulation, serum, plasma and urine manufactured by BD, Sarstedt, Kabe, Greiner, Terumo and other tube vendors</p> <ul style="list-style-type: none"> Accepts most 3, 5, 7 and 10 ml plastic tubes Tubes can be qualified on request
Sample carriers	<p>Supports racks supplied from Roche and other vendors</p> <ul style="list-style-type: none"> Standard racks Archive racks Analyzer 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 Dual filter pipetting tips, non-conductible 1000 µl, supplied by Eppendorf - Order No. 022 491 253 (US)
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") Height: approx. 1.84 m (72.4") Depth: approx. 1.41 m (55.5") Weight: approx. 878 kg (1936 lbs) <p>Control unit is incorporated on the system</p>
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

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* 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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Roche Diagnostics Corporation
9115 Hague Road
Indianapolis, Indiana 46256

diagnostics.roche.com