

Catalog numbers

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• cobas p 671 centrifuge unit – automatic centrifuge	05087996001
• cobas p 612 pre-analytical system modification for cobas p 671 centrifuge unit connection	05083818001
• cobas p 512 pre-analytical system modification for cobas p 671 centrifuge unit connection	05083834001

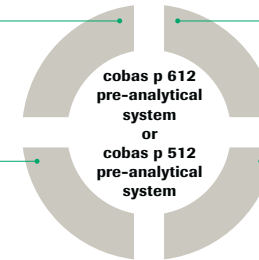
cobas p 612 pre-analytical system and cobas p 512 pre-analytical system *cobas p 671 centrifuge unit*

Option: On-line centrifuge

- Single centrifuge
(**cobas p** 471 centrifuge unit) or
- Double centrifuge
(**cobas p** 671 centrifuge unit)

Option: Infrared liquid level detection

- Sample volume recognition through barcode label



Option: Recap unit

- For primary tubes or
- For secondary tubes or
- For primary and secondary tubes

Option: Camera extension

- Tube type identification
- Sample quantity detection
- Sample imaging recording
- Sample quality recognition

Concept / summary

The **cobas p** 671 centrifuge unit combined with our Task Targeted Automation (TTA) systems offers a comprehensive, flexible and high-throughput front-end automation solution. All important sample handling steps between centrifugation and archiving are automated. **cobas p** 671 centrifuge unit offers state-of-the-art functions for the centrifugation process.

Overview

The **cobas p** 671 centrifuge unit centrifuge is designed to be connected to our task targeted automation systems **cobas p** 612 pre-analytical system or **cobas p** 512 pre-analytical system.

Tubes must be pre-sorted into racks according to their centrifugation parameters. The racks itself are placed in any order into the input area of the centrifuge. After barcode reading and tube type identification via camera the **cobas p** 671 centrifuge unit sorts each rack to the appropriate centrifugation target. Each centrifugation target can have specific centrifugation parameters, for example the spin time or the relative centrifugal force.

The **cobas p** 671 centrifuge unit automatically loads the racks into the centrifuge. The centrifugation either starts with a full batch or after a programmable time has elapsed. Empty positions are balanced automatically with dummy racks. After centrifugation the tubes are unloaded and transported to the pre-analytical unit for further processing.

A separate input channel supports the immediate handling of emergency (STAT) tubes.

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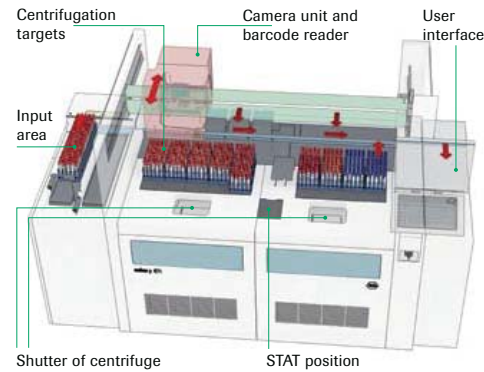
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Functions and features

cobas p 671 centrifuge unit – automatic centrifuge



Scheme

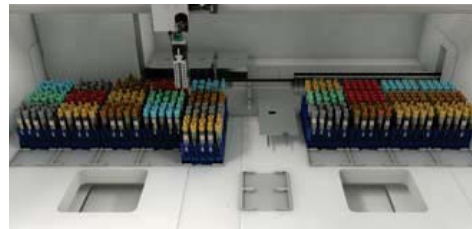


The following basic functions and features are provided by the **cobas p 671** centrifuge unit:

- Up to 300 tubes in Hitachi MPA racks (racks without spring inserts) can be loaded into the input area
- Tubes placed into the input buffer are already pre-sorted in racks according to their centrifugation parameters (this can be done manually or via the connected TTA)
- Specific centrifugation parameters are configurable per target as for example the spin time or the relative centrifugal force (RCF)
- Configurable trigger for centrifugation starts either when the target is full or a certain time has elapsed
- Racks are loaded into centrifugation targets according to user defined rules
- Separate input position for STAT samples
- Automatic lid locking
- Refrigerated centrifugation
- Auto balancing

- Automatic tube transportation of centrifuged tubes into **cobas p 612** pre-analytical system / **cobas p 512** pre-analytical system for further processing
- Two centrifuges work in parallel
- A maximum of 60 tubes can be centrifuged per load and centrifuge

Sorting area



Specifications

Configuration example: cobas p 671 centrifuge unit connected to cobas p 612 pre-analytical system, as well available connected to cobas p 512 pre-analytical system

Dimensions of example (WxDxH) 5.48 m (215.7") x 1.97 m (77.5") x 2.00 m (78.7")



Throughput	> 800 tubes per hour at 5 min spin time
Centrifuge	Two centrifuges – Hettich Rotanta 46 RSC Robotic
Sample tube	Accepts most 3, 5, 7 or 10 mL plastic tubes with an external tube diameter between 11.5 and 15.5 mm and a total height between 65.5 and 108 mm RD Hitachi MPA racks (5 positions) for input and output buffer
Sample carrier	
Dimensions	Width: approx. 2.30 (90.5") Depth (with touch screen): approx. 1.65 (64.9") Height: approx. 2.00 m (78.7") Weight: approx. 1,106 kg (2,438 lbs) including centrifuges
Operating temperature	+ 15°C to + 30°C (+ 59°F to + 86°F)
Air conditions	80% max. relative humidity
Compressed air	Dry and oil free, min. 6.0 bar (87.02 psi), max 8.0 bar (116.03 psi)
Maximal power consumption	Consumption approx. 6.0 L (1.6 gals) per min 230/115 V, 50-60 Hz, 4,650 VA
Safety marks	CE, UL

Technical details are subject to change.