

Catalog numbers

Camera option:

• cobas p 471 centrifuge unit – automatic centrifuge	05088062001
• cobas p 612 pre-analytical system modification for cobas p 471 centrifuge unit connection	05083796001
• cobas p 512 pre-analytical system modification for cobas p 471 centrifuge unit connection	05083826001

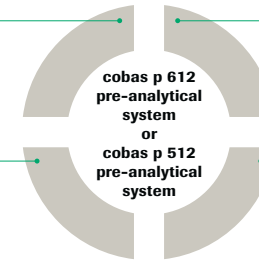
cobas p 612 pre-analytical system and cobas p 512 pre-analytical system *cobas p 471 centrifuge unit*

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** 471 centrifuge unit combined with our Task Targeted Automation (TTA) systems offers a comprehensive and flexible frontend automation solution. All important sample handling steps between centrifugation and archiving are automated. The **cobas p** 471 centrifuge unit offers state-of-the-art functions for the centrifugation process.

Overview

The **cobas p** 471 centrifuge unit is designed to be connected to our task targeted automation systems **cobas p** 612 pre-analytical system or **cobas p** 512 pre-analytical system.

After barcode reading evaluates the integrated camera system the cap color and tube dimensions to determine the tube type. Based on this information the **cobas p** 471 centrifuge unit can perform a tube type specific centrifugation by loading the tubes into buckets, assigned to an appropriate target.

Each centrifugation target can have specific centrifugation parameters, for example the spin time or the relative centrifugal force.

The **cobas p** 471 centrifuge unit automatically loads the buckets 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 tubes. After centrifugation the tubes are unloaded and transported to the pre-analytical unit for further processing.

Tube types that don't require centrifugation are automatically passed on to the connected TTA system for further processing.

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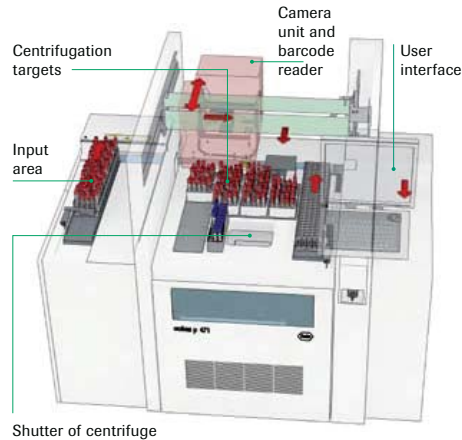
Life needs answers

Functions and features

cobas p 471 centrifuge unit – automatic centrifuge



Scheme

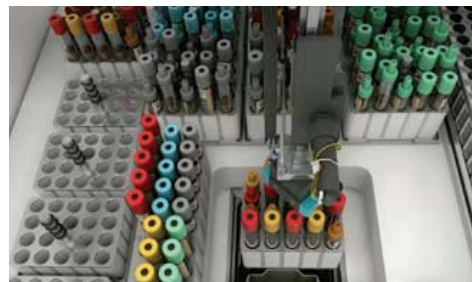


The following basic functions and features are provided by the **cobas p 471** centrifuge unit:

- Up to 150 tubes in Hitachi 5 position racks can be loaded into the input area
- Processing of different tube types and sizes in one run. Depending on the cap color, recognized by an integrated camera system, the tubes are sorted into appropriate centrifugation targets
- Specific centrifugation parameters configurable per target such 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 maximum time has elapsed
- Tubes are loaded into special centrifuge buckets according to user defined rules
- 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
- A maximum of 76 tubes can be centrifuged per load

Sorting area



Specifications

Configuration example: cobas p 471 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) 4.83 m (190.2") x 1.97 m (77.5") x 2.00 m (78.7")



Throughput	> 380 tubes per hour at 5 min spin time
Centrifuge	One centrifuge – 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
Sample carrier	RD Hitachi racks (5 positions) for input- and output buffer PVT centrifuge buckets with 19 positions
Dimensions	Width: approx. 1.65 m (64.9") Depth (with touch screen): approx. 1.65 m (64.9") Height: approx. 2.00 m (78.7") Weight: approx. 781 kg (1,722 lbs) including centrifuge
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) Consumption approx. 6.0 L (1.6 gals) per min
Maximal power consumption	230/115 V, 50-60 Hz, 2,650 VA
Safety marks	CE, UL

Technical details are subject to change.