cobas p 501/701 post-analytical units
Automated storage and retrieval for maximum efficiency and safety
Personalized Lab Automation
Maximizing Testing Efficiency and Medical Value

At Roche, laboratory automated solutions deliver the quality and reliability you expect, with the personalization required by low-, mid- and high-volume laboratories.

1. Virtual Automation
To have the control you need, ensuring quality and efficiency across your lab, Virtual Automation gives you the capability to track your samples and reduce manual tasks through the cobas IT solutions.

2. Standalone Automation
Pre- and post-analytical tasks are automated, offering maximum efficiency through flexible standalone solutions. It significantly reduces manual steps in the lab, enhancing error handling, safety and process quality.

3. Connected Automation
In addition to having all the benefits of Standalone Automation, Connected Automation offers transportation. Physically connecting different instruments allows maximum predictability of time to test results.
**Automated post-analytical sample management**

**Seamless integration from sample entry to archive**

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**01 Input/output area**
Tubes can be loaded into the input area in a Hitachi 5 position rack. A single rack can be loaded into a dedicated line or using trays of 30 or 15 racks. Tubes for add-on testing are provided in HHT 5 position racks in the output area. The empty racks are sorted according to rack range in the rack output.
- Max sample input capacity: 300 tubes
- Configurable input drawers: Tray 30 racks; Tray 15 racks
- Max sample output capacity: 50 tubes
- Exception output capacity: 150 tubes

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**02 Connected input/output area**
The cobas p 501/701 post-analytical units can be connected to the cobas® connection modules and cobas® 8100 automated workflow series. The connection offers a total laboratory automation solution including all pre-analytical, analytical and post-analytical steps with-out any direct interaction of the operator with the sample.

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**03 Rack and tube type identification**
- Tube diameter
- Tube height
- Presence of a cap
- Rack range

The open tubes are sorted into the restopping area for closing. The rack range can also be used to determine the storage duration of tubes.

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**04 Re-stopper/de-stopping**
Open tubes are closed using a flexible archiving cap. The cobas p 501/701 post-analytical units can be equipped with a de-stopping unit. During the retrieval process and according to the customer request tubes can be opened.

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**05 Storage area**
The storage area is continuous monitored for keeping a stable temperature around 4 - 8 ºC to guarantee optimal sample storage conditions. Tubes are stored in barcoded high density storage racks with 41 positions. Two different storage durations can be defined by the users.
- cobas p 701 post-analytical unit capacity: 27,000 tubes
- cobas p 501 post-analytical unit capacity: 13,500 tubes

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**06 Automated wasting area**
Integrated, smart and safe disposal concept. After the expiration of the storage duration tubes will be wasted automatically. The filling height of the waste containers is monitored.

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**Efficiency**
Efficient handling of archiving processes and retrieval for add-on testing. Easy access to samples when needed

**Safety**
Eliminates exposure to biohazard materials. Automated and integrated sample disposal with no manual intervention

**Control and traceability**
Continuous sample quality monitoring of storage conditions. Full traceability of stored samples

**Connectivity**
By connecting cobas p 501/701 to the automation solution, it enables seamless integration from sample entry to archive
In case the re-stopping unit is not selected all tubes send to instrument for archiving have to be closed.

### Technical details

<table>
<thead>
<tr>
<th>Parameter</th>
<th>cobas p 501 post-analytical unit</th>
<th>cobas p 701 post-analytical unit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tube storage capacity</td>
<td>13,500</td>
<td>27,000</td>
</tr>
<tr>
<td>Storage throughput</td>
<td>400 tubes per hour</td>
<td></td>
</tr>
<tr>
<td>Dimensions</td>
<td>cobas p 501 post-analytical unit: 4.34 m (w) x 1.78 m (d) x 2.31 m (h)</td>
<td>cobas p 701 post-analytical unit: 5.45 m (w) x 1.70 m (d) x 2.31 m (h)</td>
</tr>
<tr>
<td>Weight</td>
<td>cobas p 501 post-analytical unit: 2.005 kg</td>
<td>cobas p 701 post-analytical unit: 2.300 kg</td>
</tr>
<tr>
<td>Tube dimensions</td>
<td>13 - 16 mm (d), 75 - 100 mm (h)</td>
<td></td>
</tr>
<tr>
<td>Storage</td>
<td>In 41-position high-density racks</td>
<td></td>
</tr>
<tr>
<td>Monitored storage temperature</td>
<td>4 – 8 °C</td>
<td></td>
</tr>
<tr>
<td>Power consumption</td>
<td>&lt; 3 kW</td>
<td></td>
</tr>
<tr>
<td>Heat emission</td>
<td>At about 1.5 kW</td>
<td></td>
</tr>
<tr>
<td>Noise level</td>
<td>&lt; 65 dBA</td>
<td></td>
</tr>
<tr>
<td>Certification</td>
<td>CE and UL</td>
<td></td>
</tr>
</tbody>
</table>

### Catalogue numbers

<table>
<thead>
<tr>
<th>Basic systems</th>
<th>cobas p 501 post-analytical unit: RD cat # 05198444001</th>
<th>cobas p 701 post-analytical unit: RD cat # 053499760001</th>
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</thead>
<tbody>
<tr>
<td>Options</td>
<td>Connection kit to MODULAR PRE-ANALYTICS: RD cat # 05439795001</td>
<td>Re-stopping unit*: RD cat # 05700922001</td>
</tr>
<tr>
<td>Consumables</td>
<td>Archiving cap: RD cat # 05421349001</td>
<td>(5,000 pcs/box)</td>
</tr>
</tbody>
</table>

* In case the re-stopping unit is not selected all tubes send to instrument for archiving have to be closed.