

# Introducing cobas® pro integrated solutions

*Simplicity meets Excellence*





**01 Sample supply unit**

Up to **1,000** samples per hour processing capacity  
Up to **300** samples direct loading  
Up to **300** samples direct unloading  
or bi-directional connectivity to lab automation

**02 ISE analytical unit**

Up to **900** tests per hour

**03 cobas c 503 analytical unit**

Up to **1,000** tests per hour  
**60** reagent positions

**04 cobas e 801 analytical unit**

Up to **300** tests per hour  
**48** reagent positions

*Use your space intelligently  
with cobas® green packs*

#### **More tests per pack**

Up to 3 300 tests per **cobas c** pack green allow for long walk-away times and less loading, ordering and handling events for reagents.

#### **Our best reagent carriers ever in clinical chemistry and immunochemistry**

Closed onboard, more tests per pack. **Preparation-free.** From the fridge to the analyzer, without any preparation. This is as easy as it can get.



**Best-in-class onboard stability<sup>3</sup>**

With up to 6 months of onboard stability for the all-new **cobas® c pack green**, and up to 4 months of onboard stability for the **cobas e pack green**.

- Consolidate low- and high-throughput testing
- Bring low volume send out testing in-house
- Minimize reagent waste

*Maximize reagent utilization with industry's longest onboard stability<sup>2</sup>*





*Reduce tedious  
manual work with  
ready to use reagents*



*Enable error-free handling  
with RFID\*-tagged  
reagents and consumables*

\*Radio-frequency identification.

*Enhance sample  
integrity with  
cobas® SonicWash*

**Unprecedented cleanliness of the  
sample probe with cobas® SonicWash.**

SonicWash cleans the sample probe with ultrasound technology so thoroughly that only a few parts per billion are detectable<sup>4</sup>. In addition, SonicWash eliminates the daily maintenance of the sample probe and reduces clot events.

# HITACHI



*Partner with a company that has a proven track record of pioneering lab solutions and sustainable development*

## ISE analytical unit

<b>Applications</b>	Na+: Sodium K+: Potassium Cl-: Chloride
<b>Sample types</b>	Serum, urine Ion-selective electrodes: 3 (Na+, K+ and Cl-) Reference electrode 1
<b>Max. throughput</b>	900 tests/hour (300 samples/hour)
<b>Max. liquid waste volumes</b>	Concentrated liquid waste volume: < 2,8 L/h
<b>Sampling cycle time</b>	12 seconds
<b>Electrode handling</b>	2D barcode placed on the electrode package
<b>Sample Liquid level detection</b>	Available
<b>Sample clot detection</b>	Available
<b>Sample foam detection</b>	Available
<b>Number of applications</b>	ISE: max. 60 (20 sample types available)
<b>Sample pipetting volumes</b>	15 µl (Default) Selectable from 10 µl
<b>Reagent volumes per sample</b>	DIL: 450 µl (330 µL/sample: dilution vessel washing in case of discontinuous measurement, 600 µl DIL is used before IS measurement IS: Total 720 µl (220 µl Dilution vessel washing, 500 µl: IS measurement) REF: 130 µl
<b>Measuring range</b>	Na+: Sodium 10-250 mm/L (technical measuring range)   450 µl Diluent   15 µl Sample volume (default) 20-375 mm/L (technical measuring range)   450 µl Diluent   10 µl Sample volume K+: Potassium 1-100 mm/L (technical measuring range)   450 µl Diluent   15 µl Sample volume (default) 1-150 mm/L (technical measuring range)   450 µl Diluent   10 µl Sample volume Cl-: Chloride 10-250 mm/L (technical measuring range)   450 µl Diluent   15 µl Sample volume (default) 20-375 mm/L (technical measuring range)   450 µl Diluent   10 µl Sample volume

## *The all-new cobas® c 503 analytical unit*

Excellent performance, simple to use and beautifully designed. The all-new **cobas c 503 analytical unit** brings all that it takes to set new standards in reliability, maintenance and efficiency.

**1,000 tests per hour. 60 reagent channels onboard.**

<b>Reagent pack type</b>	<b>cobas c pack green</b>
<b>Reagent loading/unloading</b>	<b>Automatic</b>
<b>Reagent identification</b>	<b>RFID</b>
<b>Capacity of reagent manager</b>	5 reagent packs
<b>Capacity of reagent disk</b>	60 packets Inner ring: 24 (1-24 position) Outer ring: 36 (25-60 position)
<b>Reagent storage temperature</b>	<b>5-15 °C</b>
<b>Number of applications</b>	680
<b>Max. throughput</b>	<b>Photometric: 1,000 tests/h</b> <b>HbA1c: 500 samples/h</b>
<b>Number of reaction cells</b>	221
<b>No. of reaction cell segments</b>	13 (17 cells/segment)
<b>Reaction volume</b>	75-185 µl
<b>Incubation bath temperature</b>	<b>37 ± 0.1 °C (98.6 ± 0.1 °F)</b>
<b>Reaction time</b>	3-10 min
<b>Mixer</b>	Ultrasonic





#### References

1. Internal market research of immunoassay vendors (Roche, Siemens, Abbott). Data on file.
2. Roche cobas e 801 Immunoassay Method Sheets.
3. Method sheets cobas c 503, cobas e 801, Beckman Unicel Dxl/DxC, Abbott ARCHITECT c/i, Abbott Alinity c/i, Siemens Atellica CH/IM, Siemens Vista, Siemens Centaur.
4. Based on R&D report. Data on file.

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