

cobas® pro integrated solutions

Simplicity meets Excellence

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Analytical units can be flexibly combined to fulfill your individual needs.

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 neo analytical unit

Up to **1,800** tests per hour

03 cobas c 703 analytical unit

Up to **2,000** tests per hour
70 reagent positions

04 cobas c 503 analytical unit

Up to **1000** tests per hour
60 reagent channels

05 cobas e 801 analytical unit

Up to 300 tests per hour
48 reagent positions

cobas® pro integrated solutions[1]

Simplicity meets Excellence

Today more than ever, the importance of accurate and timely diagnostics is clearly understood. The journey from blood collection to the final test result, however, requires the highest level of dedication, expertise and diligence of the laboratory staff.

To support you in this, Roche has developed innovative integrated solutions renowned for quality and excellence.

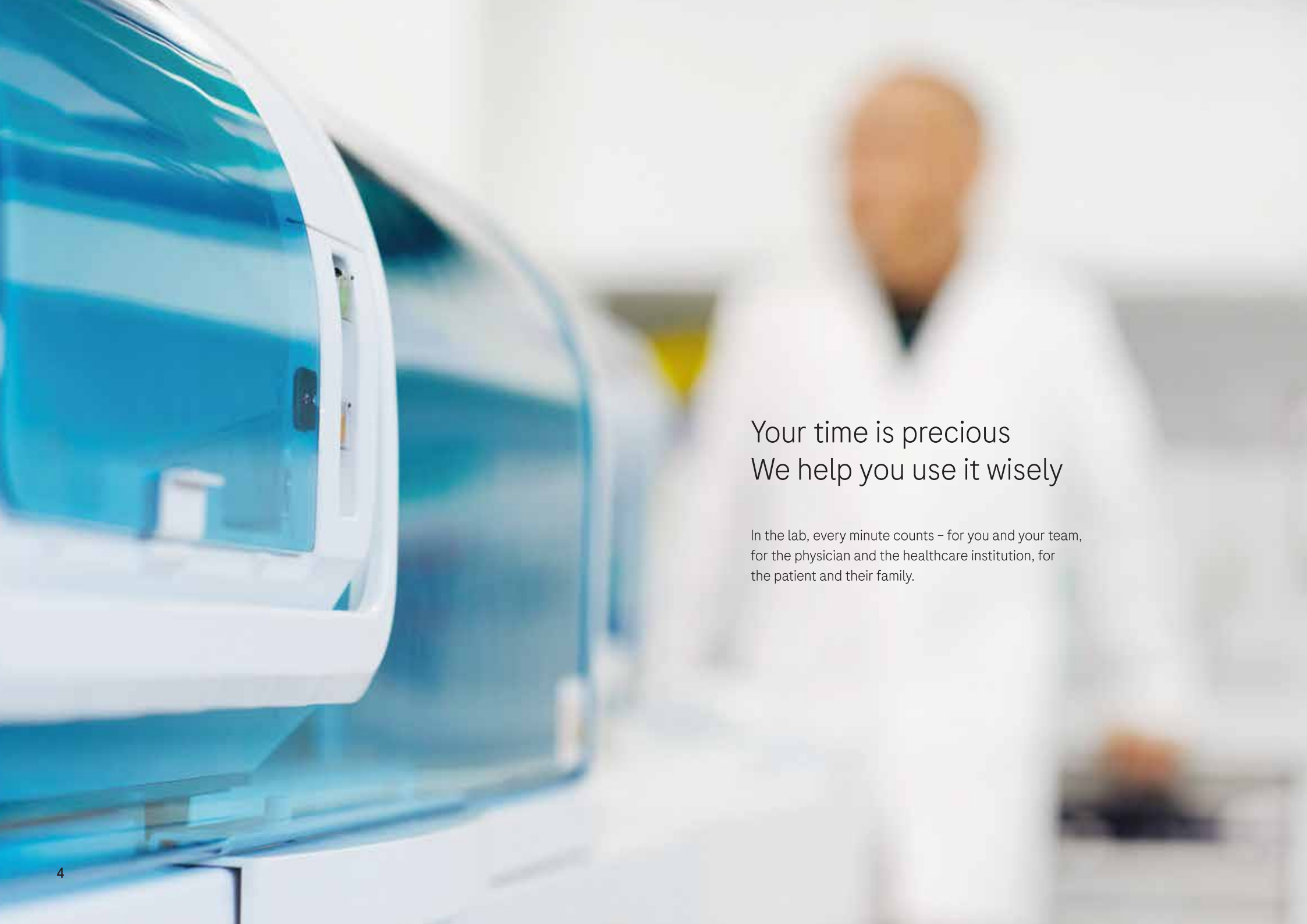
cobas pro integrated solutions is designed to meet your mid- to high-volume clinical chemistry and immunochemistry testing needs. The state-of-the art solution enables your lab to simplify operations while ensuring excellence in delivering results to support patient care.

To simplify daily operation, **cobas pro** comes with new features that minimize the hands on work for the operators, thus saving precious time.

To ensure simple and effective work for network organizations, cobas pro provides fully standardized results and operation to **cobas® pure** integrated solutions – Roche's latest analyzer designed for small- to mid- volume laboratories.

Because simplifying any step of the journey, while ensuring excellent quality, can help deliver faster and more accurate diagnosis.





Your time is precious
We help you use it wisely

In the lab, every minute counts – for you and your team, for the physician and the healthcare institution, for the patient and their family.

Get answers fast with short and predictable turnaround times

Boost your efficiency with fast analytical units, intelligent sample routing, and short assay incubation times. Empower your physicians to take action faster, with best-in-class 9 minutes STAT and 18 minutes routine immunochemistry assays.[2]

Roche Immunochemistry reaction times[2]

9 minutes

18 minutes

27 minutes





Simplify your routine with minimal operator intervention

Free up staff time with reduced hands-on maintenance efforts

With **cobas pro** integrated solutions, every effort has been made to reduce hands-on maintenance tasks to a minimum. This has resulted in up to 70% less hands-on maintenance time yearly, compared to Roche previous generation systems.*[3] The new and smart concept of self-operating maintenance executes these tasks automatically in the background and reduces the manual burden of daily maintenance to less than 5 minutes.**[1]

Save time and costs with cobas® AutoCal

The clinical chemistry module of **cobas pro** comes with a significantly simplified calibration concept – automated calibration. With **cobas** AutoCal, new reagent lots for many of the clinical chemistry tests are calibrated automatically, without the need for manual calibration.

* Compared to cobas® 6000 analyzer series and cobas® 8000 analyzer series. Internal comparative analysis. Data on File.
**Internal Roche data based on optimizing wash rack stability; not intended to supersede User Guide claims.



Ensure non-stop operation with continuous loading of reagents and consumables



Your space is limited
We help you make the best of it

cobas® pro integrated solutions is designed to deliver true productivity for your lab offering flexible configurations to meet your individual needs and full access to our broad Serum Work Area assay menu.

Use your space intelligently with flexible and scalable configurations to meet your individual needs

Labs of all sizes are working to grow by expanding their test offering or bringing more testing in-house. However, this means they need to be ready to handle higher volumes, often within their same space. To support you in this, **cobas pro** integrated solutions offers 33 flexible configurations to meet you individual needs as well as the ability to scale in incremental ways.

Additionally, you will have access to a broad and growing test menu, which can help your lab to remain at the forefront of clinical utility and patient care.



cobas pro configuration <ISE neo | c 703 | e 801>



cobas pro configuration <ISE neo | c 703 | c 503 | e 801>



cobas pro configuration <ISE neo | c 703 | c 703 | e 801 | e 801>

Increase productivity with our latest generation reagent carriers

More tests per pack
Up to 3,300 tests per **cobas**® c pack green and up to 300 tests for **cobas**® e pack green allow for long walk-away times and less loading, ordering and handling events for reagents.[4]

Ready to use reagents
Additionally, these reagents do not require any preparation, mixing, waiting or pre-opening. The operator can simply take them out of the fridge and load them directly onto the analyzer.

Industry's leading onboard stability
Using space intelligently is about achieving the highest output within the existing space. Our reagent cassette concept supports this by offering industry leading onboard stability - up to 4 months for the immunochemistry assays and up to 6 months for the clinical chemistry assays.[2,4] This facilitates the consolidation of low and high volume parameters on the system and minimizes the reagent waste.




A1CX3
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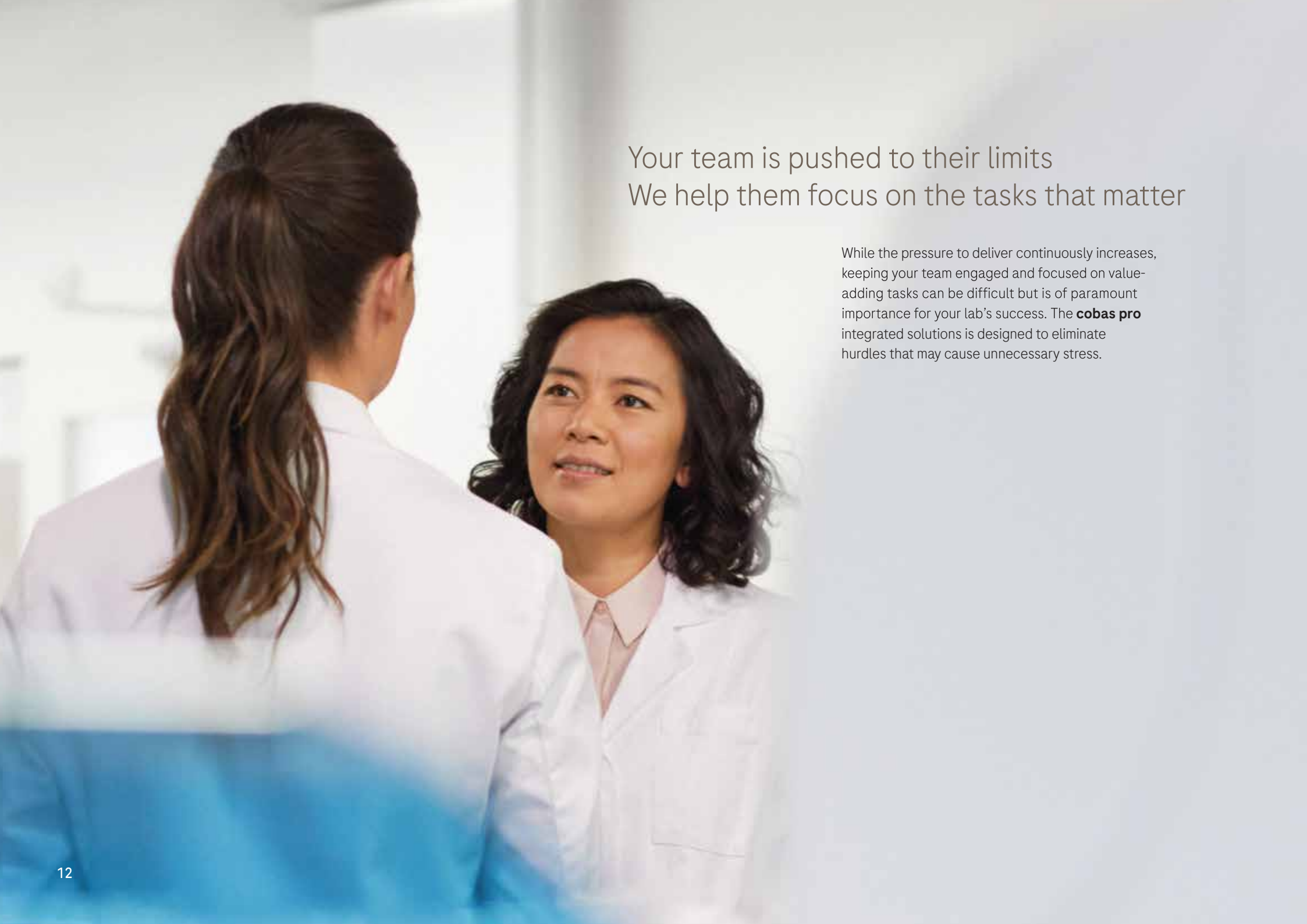
For performance evaluation only.
Nur für Leistungsbewertungszwecke.
Réservé à l'évaluation des performances.
Sólo para la evaluación del funcionamiento.
Destinato esclusivamente alla valutazione delle prestazioni.
Apenas para avaliação do comportamento funcional.
For USA:
For investigational use only. The performance characteristics of this product have not been established.
Roche



Your team is pushed to their limits
We help them focus on the tasks that matter

While the pressure to deliver continuously increases, keeping your team engaged and focused on value-adding tasks can be difficult but is of paramount importance for your lab's success. The **cobas pro** integrated solutions is designed to eliminate hurdles that may cause unnecessary stress.



Bring more confidence to your team with reliable and safe solutions

Unplanned downtime and lack of confidence in results are some of the most stressful things that can happen in the lab. They shift attention to time-consuming, hands-on workarounds or sample reruns which can affect staff morale and motivation.

Additionally, they pose risks to the quality of results and the lab's reputation. **cobas pro** integrated solutions is designed to deliver excellent reliability through sound system architecture and confidence in the results through various safety features.



Safety of results [1]

Immunochemistry - Disposable AssayTips/AssayCups

cobas pro integrated solutions immunochemistry analytical unit utilizes single-use disposable AssayTips and AssayCups to completely eliminate the risk of sample carry over.

Clinical chemistry - 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.[5] In addition, SonicWash eliminates the daily maintenance of the sample probe and reduces clot events.

Clinical chemistry - Ultrasonic Mixing

The **cobas pro** clinical chemistry analytical unit features ultrasonic mixing for non-contact mixing of sample and reagent to eliminate the risk of carryover during this event.

Reliability

cobas pro is designed to deliver the reliability that Roche is known for.

With more than 10,000* analytical units globally, **cobas pro** demonstrates a distinctive uptime of more than 99 %.**[6]

Having a reliable analyzer means less interruption of services and less time spent on troubleshooting, thus higher productivity with more predictable turnaround times.

* Including cobas pro ISE, cobas c 503 and cobas e 801 (counting all cobas e 801 analytical units, including those installed with cobas® 8000 modular analyzer series),

** Uptime: Percentage of the time when the system is up and running vs. the time the system is not running due to unplanned incidents. Calculation: (365 days / Mean time between repair visit) × (Mean time for repair visit + Travel Time)

Sample



Liquid level detection



Foam detection



Clot detection

Reagent



Liquid Level Detection



Foam detection

Clinical Chemistry



SonicWash



Ultrasonic Mixing of sample and reagent

Immunochemistry



Single-use AssayTip



Single-use AssayCup

Enable your team to work more efficiently through standardized solutions

Lab standardization enables you to do more work on fewer instruments, through consolidation of workflow, systems and reagents. Standardization also provides efficient and compatible solutions for network cooperation.





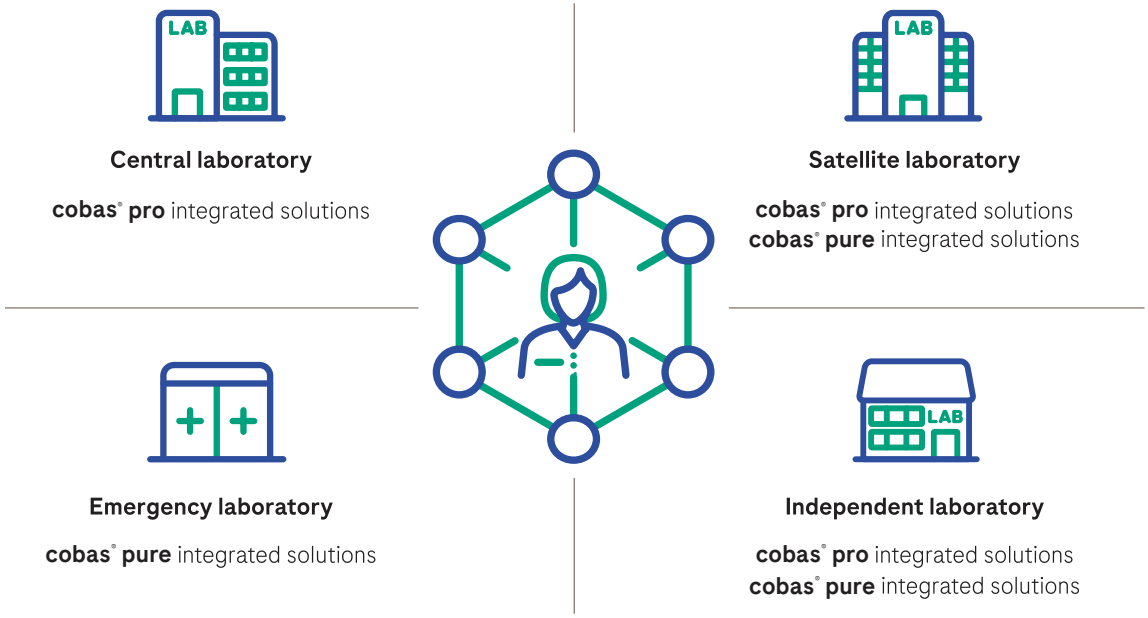
Essential benefits of standardization

Improved speed and accuracy of care
Same reagents and detection technology mean standardized reference ranges which improve the speed and accuracy of care.

Simplified training and staff allocation
Common user interfaces between our **cobas** systems simplify training and allow for flexible staff allocation as healthcare centers are consolidating into larger integrated health networks.

Optimized patient management
Consistent results over time and across different locations enable optimized patient management.

Same reagents | Same detection technology | Same reference ranges | Common user interfaces





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





Your future is unpredictable We help you succeed through continuous access to innovations

Choosing the right solution and vendor to partner with is not a small undertaking – it is a choice that impacts your lab's ability to fulfill performance and quality standards but also your ability to remain competitive.

At Roche we believe in the power of innovation to advance and improve diagnostics – for a better future of the patients and your lab.


Support better outcomes by
delivering greater medical value



Focused innovation of our assay portfolio

Extending evidence base
Extending the evidence base for existing assays through clinical studies to generate higher awareness and broader access to innovation.

New claims for existing assays
Generating new claims for existing assays for a wider range of application.

Discovery of new assays
Menu expansion in the areas of unmet medical needs to help clinicians improve outcomes for their patients.

Bring Personalized Healthcare to clinical practice
Supporting better patient care, contributing to health economics and empowering labs to play a greater role in medical decision making.

Commitment to exceptional assay quality

Advanced assay design
- Outstanding precision across measuring range
- High sensitivity in areas where it matters
- Wider measuring ranges, fewer dilutions and repeats

Consistent, standardized results
- Consistent patient results across all platforms
- Excellent lot-to-lot consistency
- Assays standardized against reference method or reference material

Designed for convenience
- Short and predictable assay Turn Around Times
- Low sample volume
- No reagent preparation required



Introducing the new generation of solutions from Roche – cobas® integrated solutions



cobas® pure integrated solutions



cobas® pro integrated solutions

Delivering seamless design today and into the future

Shared reagents packs

Consistent results

Consistent operation

Same technologies

Same assay menu

cobas® pro integrated solutions

General technical specifications[1]

Dimensions and Weights	Width	Depth	Height	Weight
Sample Supply Unit (SSU)	52 inch	38 inch	56 inch	551 lb
ISE neo analytical unit	24 inch	45 inch	51 inch	551 lb
cobas c 703 analytical unit	60 inch	50 inch	54 inch	1,323 lb
cobas c 503 analytical unit	59 inch	46 inch	53 inch	1,742 lb
cobas e 801 analytical unit	59 inch	47 inch	53 inch	1,720 lb

Specifications of the electrical power supply	cobas pro integrated solutions	
Distance to the instrument	≤ 16 feet (5 m)	
Electrical supply	Single phase AC using an uninterruptable power supply (UPS)	
	200 / 208 / 220 / 230 / 240 V, 50 / 60 Hz	
Max. power fluctuation	≤ 10 %	
Decentralized power supply	Sample Supply Unit	Sample buffer
Power consumption rating	1 kVA	3 kVA
Actual maximum power consumption (Typical)	0.4 kVA	ISE + c 503: 2.7 kVA
	–	e 801: 2.5 kVA

Maximum concentrated liquid waste flow rates	Concentrated liquid waste flow rate	Normal liquid waste flow rate
Max. liquid waste volumes	cobas ISE neo analytical unit < 5.6 L/h	cobas ISE neo analytical unit < 5.6 L/h
	cobas c 703 analytical unit < 3 L/h	cobas c 703 analytical unit < 36 L/h
	cobas c 503 analytical unit < 2 L/h	cobas c 503 analytical unit < 30 L/h
	cobas e 801 analytical unit < 7 L/h	cobas e 801 analytical unit < 24 L/h

Deionized water supply and consumption	cobas pro integrated solutions
Conductivity	≤ 1.0 µS/cm
Water pressure	50 to 340 kPa 0.5 to 3.4 bar
Water temperature	> 53.6 °F > 12°C
Deionized water consumption (average)	cobas ISE neo analytical unit < 5 L/H cobas c 703 analytical unit ≤ 38.5 L/H cobas c 503 analytical unit ≤ 32 L/H cobas e 801 analytical unit < 30 L/H

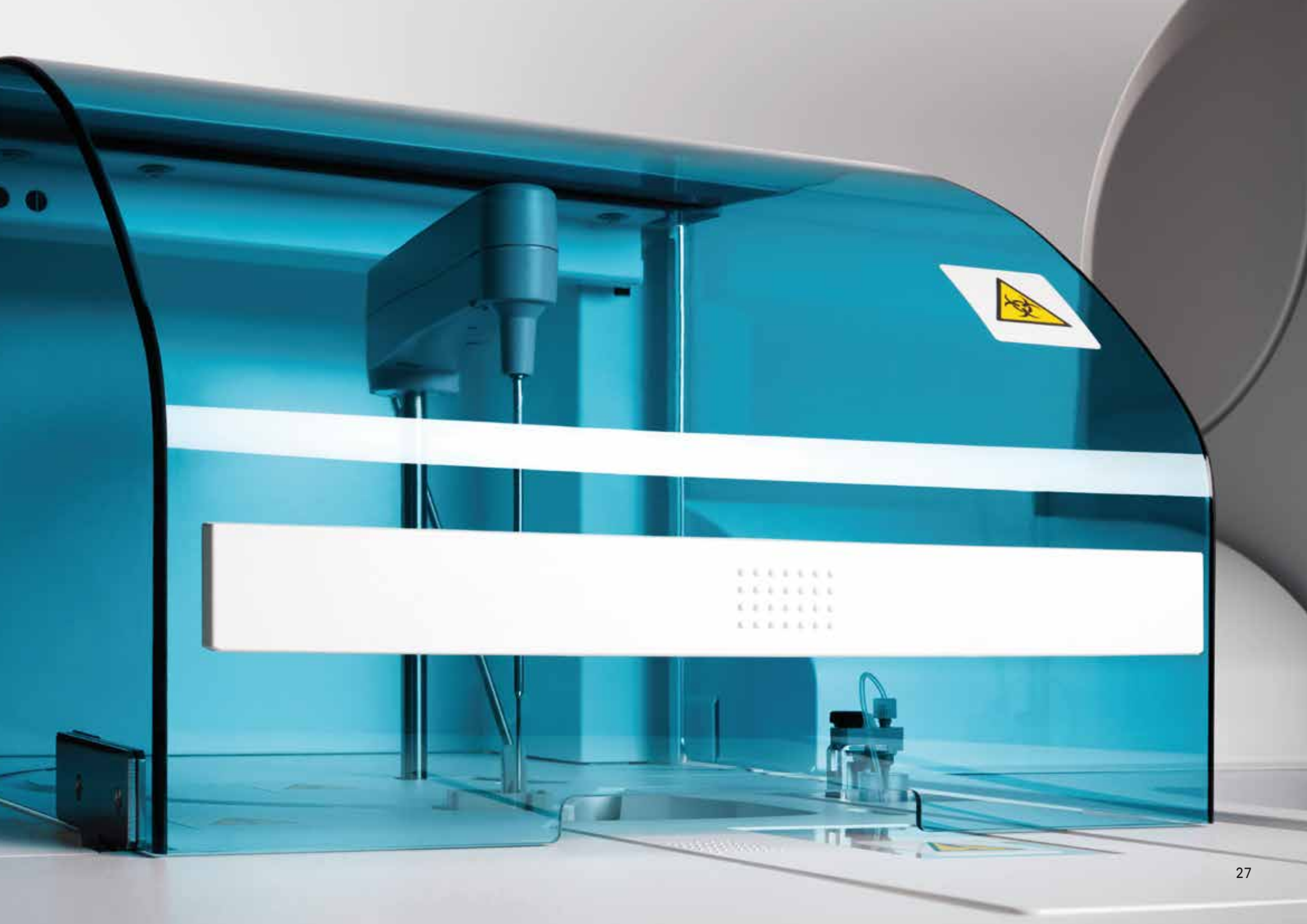
List of environmental conditions during operation	cobas pro integrated solutions			
Max. altitude above sea level	6561 ft (2000 m) (6561-9842 ft upon request for cobas ISE neo, cobas c 703, cobas c 503 and cobas e 801 analytical units)			
Floor conditions	*≤ 0.5 % inclination* *Strong enough to hold the weight*			
Ambient temperature	Altitude ≤ 6561 ft (2000 m) above sea level: 64.4–89.6 °F (18–32 °C) Altitude 6561-9842 ft (2000-3000 m) above sea level: 64.4–86 °F (18–30 °C)			
Ambient temperature fluctuation	≤3.6 °F/h (≤2 °C/h)			
Ambient humidity	20–85%			
Noise emission to environment	cobas ISE neo analytical unit < 60 dB during Operation < 50 dB during Standby	cobas c 703 analytical unit < 60 dB during Operation < 50 dB during Standby	cobas c 503 analytical unit < 60 dB during Operation	cobas e 801 analytical unit < 60 dB during Operation

ISE neo analytical unit

The new **cobas** ISE neo analytical unit offers 1,800 tests/hour, with identical footprint. In order to simplify operation, reduce system downtime, and improve overall system workflow, cobas ISE neo is completely independent of the clinical chemistry unit.

ISE neo	Specifications[1]
Applications	Na+: Sodium K+: Potassium Cl-: Chloride
Sample types	Serum/Plasma Urine
Number of electrodes	Ion-selective electrodes: 3 (Na+, K+ and Cl-) Reference electrode: 1 Measuring Unit Lines: 2 (up to 1800 tests/hour)
Max. throughput	1800 tests/hour (600 samples/hour)
Max. liquid waste volumes	Concentrated liquid waste volume: < 5.6 L/h
Sampling cycle time	12 seconds
Electrode handling	2D barcode placed on the electrode package
Sample liquid level detection	Available
Sample clot detection	Available
Sample foam detection	Available
Number of applications	ISE: max. 60 (20 sample types available)
Sample pipetting volums	15 µl (Default) 10 µL (decreased volume for urine only)





The all-new cobas® c 703 analytical unit[1]

The new **cobas** c 703 achieves a throughput of up to 2,000 tests per hour and offers 70 reagent positions. Innovative features include automated maintenance, intelligent and continuous reagent loading, and reduced calibration efforts, intended to simplify operations, minimize hands-on work, and help manage a high sample workload in the lab.

Reagent pack type	**cobas** c pack green
Reagent loading/unloading	Automatic
Reagent identification	RFID
Capacity of reagent manager	5 reagent packs
Capacity of reagent disk	70 packs (Reagent disks A&B) Inner ring: 10 Outer ring: 25
Reagent storage temperature	41-59 °F (5-15 °C)
Number of applications	680
Max. throughput	2,000 tests/h
Number of reaction cells	406
No. of reaction cell segments	14 (29 cells/segment)
Reaction volume	75-185 µl
Incubation bath temperature	98.6 ± 0.1 °F (37 ± 0.1 °C)
Reaction time	3-10 min
Mixer	Ultrasonic



cobas® c 503 analytical unit[1]

Excellent performance, simple to use and beautifully designed. **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.

Reagent pack type	**cobas** c pack green
Reagent loading/unloading	Automatic
Reagent identification	RFID
Capacity of reagent manager	5 reagent packs
Capacity of reagent disk	60 packs Inner ring: 24 (1-24 position) Outer ring: 36 (25-60 position)
Reagent storage temperature	41-59 °F (5-15 °C)
Number of applications	680
Max. throughput	Photometric: 1,000 tests/h HbA1c: 500 samples/h
Number of reaction cells	221
No. of reaction cell segments	13 (17 cells/segment)
Reaction volume	75-185 µl
Incubation bath temperature	98.6 ± 0.1 °F (37 ± 0.1 °C)
Reaction time	3-10 min
Mixer	Ultrasonic



cobas® e 801 analytical unit[1]

The **cobas** e 801 analytical unit combines excellence in results with the speed and efficiency that is required to fulfil the highest expectations, especially during peak hours. 300 tests per hour. 48 reagent channels onboard.

Reagent pack type(s)	**cobas** e pack green
Reagent loading/unloading	Automatic
Cap pre-opener	Yes
Reagent identification	RFID
Capacity of reagent disk	48 reagent packs
Reagent storage temperature	40-50 °F (5-10 °C)
Number of applications	200
Incubator temperature	98.6 °F ± 0.5 °F 37 °C ± 0.3 °C
Reaction times for tests	9/18/27 min
Measuring cell	ECL measuring cell
Number of measuring cells	2
Cycle time per channel	24 seconds
Overall cycle time (2 channels)	12 seconds
Max. throughput	300 tests/h



References

[1]cobas® pro intergrated solutions user guide. Roche Diagnostics GmbH, Germany.
[2]REF-37217 - Immunochemistry assay menu and reagent specifications analysis | Data on file | Source: Reagent method sheets Roche Diagnostics cobas e pack green, Siemens Atellica® IM, Abbott Alinity ci-series, Beckman Coulter UniCel Dxl Access | Status September 2023.
[3]REF-39738 - Maintenance times comparison | Internal analysis | Sources: Roche Diagnostics Systems' User Guides.
[4]REF-36924 - Clinical chemistry assay menu and reagent specifications analysis | Data on file | Source: Reagent method sheets Roche Diagnostics cobas c pack green, Siemens Atellica° CH 930 analyzer, Abbott Alinity ci-series, Beckman Coulter AU680 Clinical Chemistry Analyzer | Status August 2023.
[5]REF-34063 - cobas® pro integrated solutions Sample Carry Over Report_Sonic Wash Station. Data on file.
[6]REF-33444 - Roche Diagnostics Internal Reporting | Data On File | Global Customer Support || Product reports Q3-2023.
[7]Pre-Installation Site Checklist Version 2.1.

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