



01 cobas e 402 analytical unit¹

Up to **120 Immunochemistry** tests per hour

28 reagent positions

02 Sample Supply unit¹

Up to **50** samples direct loading

Up to **50** samples direct unloading

STAT port

03 cobas c 303 analytical unit¹

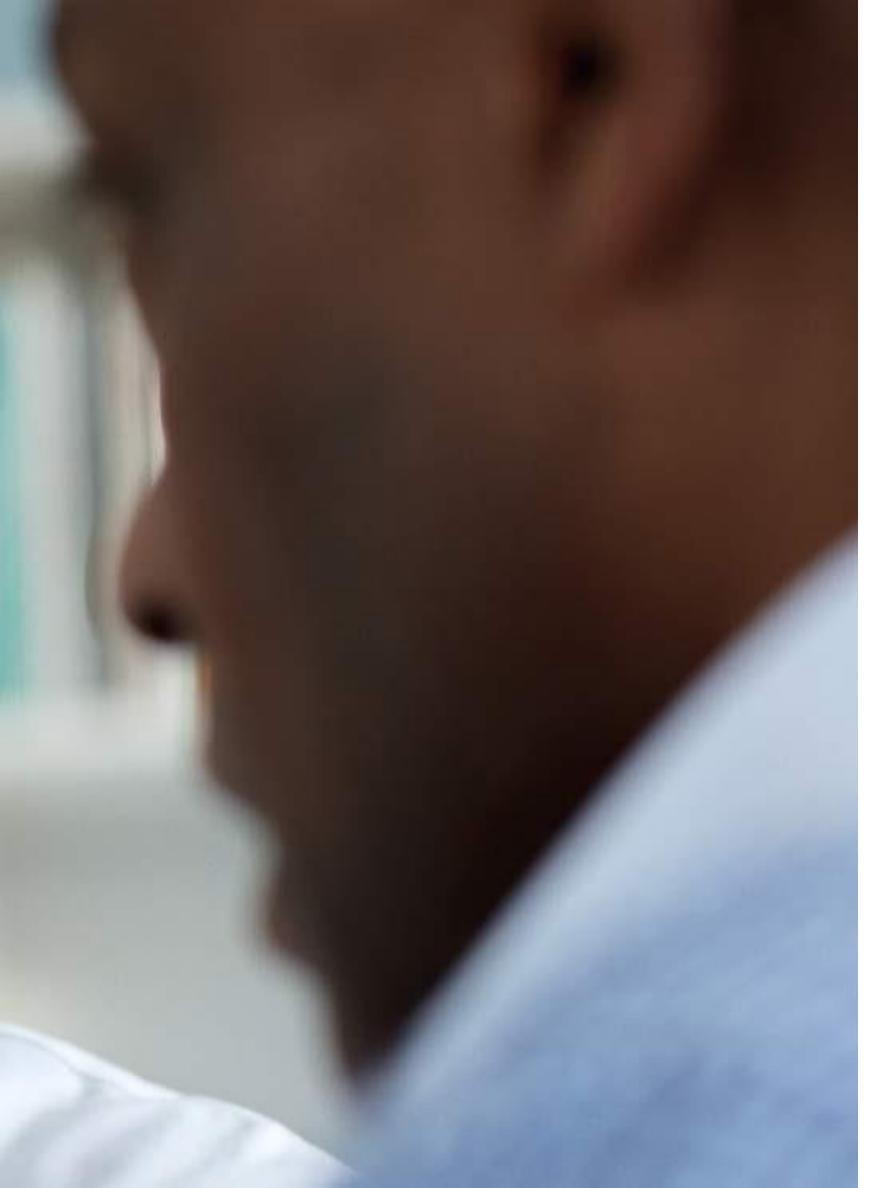
Up to **450 photometric** tests per hour

Up to **450 ISE** tests per hour

Up to **750 tests** per hour

(mixed mode photometric and ISE)

42 reagent positions



Get answers fast with short and predictable turnaround times

cobas® pure integrated solutions is designed to support fast and predictable turnaround times across all assays.

93% of Roche immunoassays have reaction time of 18 minutes or less, with STAT assays having just 9 min reaction time.²

To offer full transparency, **cobas**® **pure integrated solutions** allows the operator to see the time to result per sample and per test as well as the time to last result on all ordered tests.

Roche reaction times²

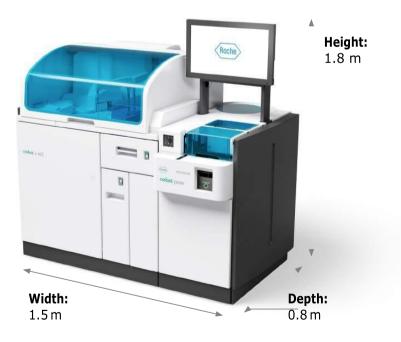








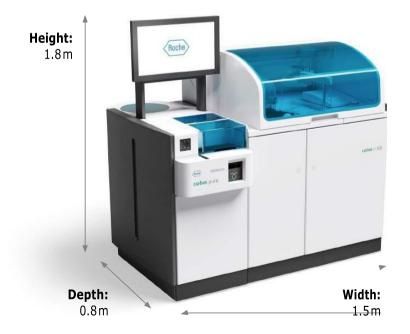




Immunochemistry ConfigurationFootprint ≈1.2 m²



Serum Work Area Configuration Footprint ≈ 2.0 m²



Clinical Chemistry Configuration Footprint ≈1.2 m²



Consolidate clinical chemistry & immunochemistry on a single platform



One

sample tube for all CC & IM tests to handle



One set of results to track



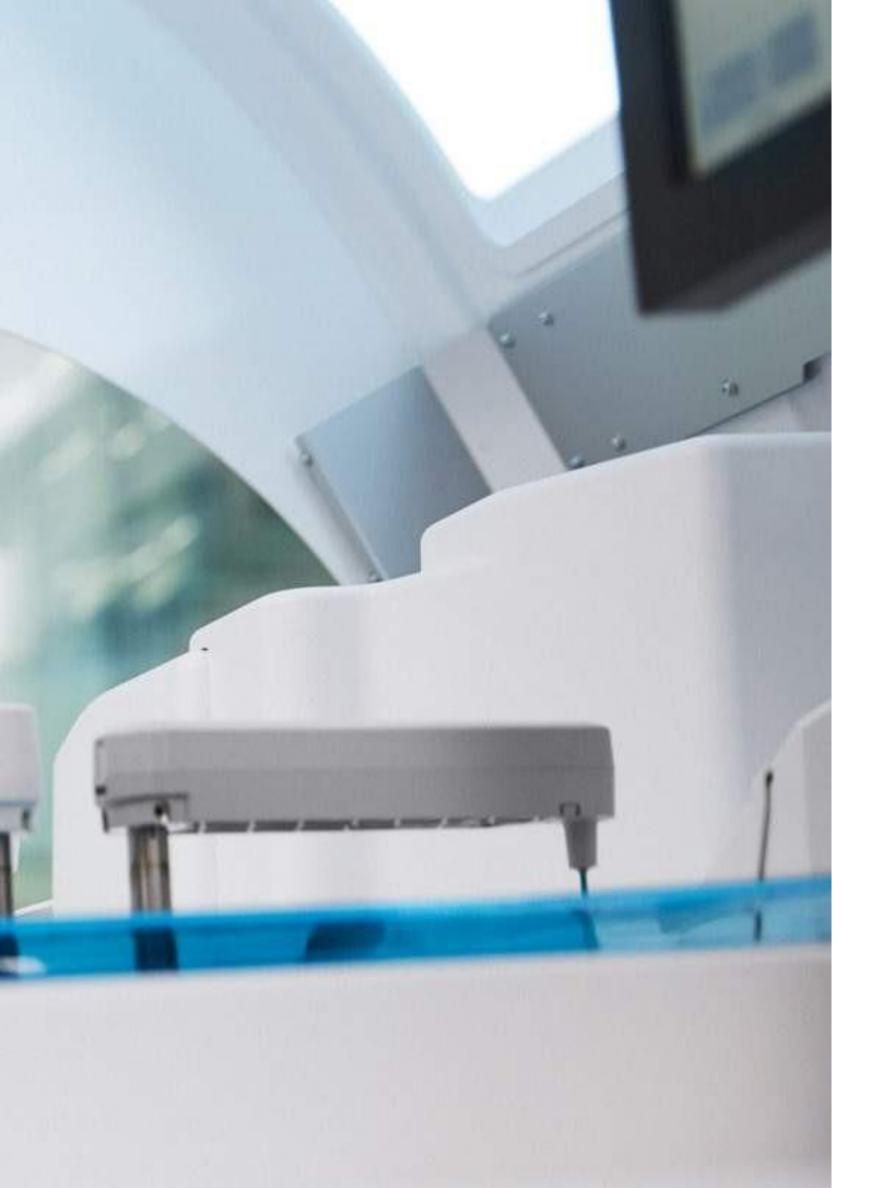
Oneplatform to manage
and to be trained on



One user interface to interact with

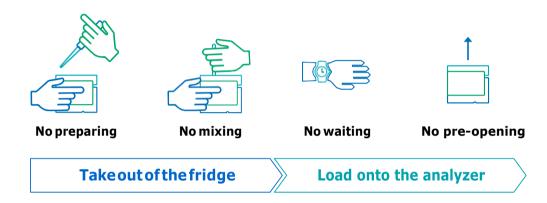


Onemanufacturer to
partner with



Ready to use reagents

cobas® pure uses the latest reagent generation from Roche – **cobas e** pack green and **cobas c** pack green. 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. The average onboard stability for the immunochemistry reagents is 110 days, with 98% of the assays having an onboard stability of 4 months. The average on board stability for clinical chemistry is 137 days, with 57% of the reagents having an onboard stability of 6 months.^{5,6}

Immunochemistry⁵



cobas e packgreen

- Up to 4 months onboard stability
- ≈ 3 times longer average onboard stability compared to previous generation systems

Clinical chemistry⁶



cobas c pack green

- Up to 6 months onboard stability
- ≈ 2 times longer average onboard stability compared to previous generation systems



Safety of results¹

Disposable AssayTips/AssayCups

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

Carryover evasion program

The sample probes on the **cobas pure** clinical chemistry analytical unit are rinsed

inside and outside with deionized water each time after dispensing a sample. Additionally, for applications that are sensitive to sample carryover, special wash can be programmed for an extra wash of reagent probes, sample probes and reaction cells with basic and acidic wash solutions.

Ultrasonic Mixing

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

Sample











Reagent

Immunochemistry







Clinical Chemistry

evasion



Mixing of sample

and reagent





Reliability

cobas® pure integrated solutions is designed to deliver the reliability that Roche is known for. With more than 75,000 analytical units globally, the **cobas** family of solutions demonstrates a distinctive uptime* of more than 99%. Having a reliable analyzer means less interruption of services and less time spent on troubleshooting, thus higher productivity with more predictable turnaround times.

Calculation: (365 days/Mean time between repair visit) × (Mean time for repair visit + Travel Time)⁷





^{*}Uptime: Percentage of the time when system is up and running vs. the time the system is not running



cobas® pure integrated solutions

General technical specifications

Power consumption

Width	Depth	Height	Weight
450	800	1,750 mm	200 kg
17.7	31.5	70.0 inch	441 lb
1,000	800	1,375 mm	400 kg
39.4	31.5	54.1 inch	882 lb
1,000	800	1,375 mm	400 kg
39.4	31.5	54.1 inch	882 lb
2,450	800	1,750 mm	1,000 kg
96.5	31.5	70.0 inch	1,764 lb
cobas® ρι	ure integrated	Isolutions	
≤5 m (16 feet)			
Single Phase AC			
200 / 208 / 220 / 230 / 240 V			
50 / 60 Hz			
≤ 10%			
	450 17.7 1,000 39.4 1,000 39.4 2,450 96.5 cobas® pt ≤ 5 m (16 fe Single Phase 200 / 208 / 2	450 800 17.7 31.5 1,000 800 39.4 31.5 1,000 800 39.4 31.5 2,450 800 96.5 31.5 cobas® pure integrated ≤ 5 m (16 feet) Single Phase AC 200 / 208 / 220 / 230 / 240 V	450 800 1,750 mm 17.7 31.5 70.0 inch 1,000 800 1,375 mm 39.4 31.5 54.1 inch 1,000 800 1,375 mm 39.4 31.5 54.1 inch 2,450 800 1,750 mm 96.5 31.5 70.0 inch cobas® pure integrated solutions ≤ 5 m (16 feet) Single Phase AC 200 / 208 / 220 / 230 / 240 V

≤ 4.0 kVA

SSU: < 0.5 kVA

Whole System: < 4.0 kVA

cobas c 303 AU: < 1.5 kVA

cobas e 402 AU: < 2.0 kVA

cobas® pure integrated solutions

General technical specifications continued

cobas c 303 (incl. ISE)	cobas e 402
≤ 5 m	≤ 5 m
≤ 16feet	≤ 16 feet
≤ 1.0 µS/cm	≤ 1.0 μS/cm
50 to 340 kPa	50 to 340 kPa
0.5 to 3.4 bar	0.5 to 3.4 bar
> 12 °C	≥ 12 °C
> 53.6 °F	≥ 53.6 °F
max. 16 L/h	max. 12 L/h
< 1.2 L/h	≤ 3 L/h
< 1.2 /h	
< 14.8 L/h	≤ 10 L/h
3,000 m	3,000 m
≤1/200 or ≤0.5% inclination	≤1/200 or ≤0.5% inclination
Bearing load ≥ 5 kN/m²	Bearing load $\geq 5 \text{ kN/m}^2$
0-2,000 m above sea level 18-32°C (64.4-89.6°F)	0-2,000 m above sea level 18-32°C (64.4-89.6°F)
>2,000 m above sea level 18-30°C (64.4-86°F)	>2,000 m above sea level 18-30°C (64.4-86°F)
≤ 2 °C/hour (≤ 3.6 °F/h)	≤ 2 °C/hour (≤ 3.6 °F/h)
30 - 85⁄0	30 - 85/0
	≤ 5m ≤ 16 feet ≤ 1.0 μS/cm 50 to 340 kPa 0.5 to 3.4 bar > 12 °C > 53.6 °F max. 16 L/h < 1.2 L/h < 14.8 L/h 3,000 m ≤1/200 or ≤0.5% inclination Bearing load ≥ 5 kN/m² 0-2,000 m above sea level 18-32 °C (64.4-89.6 °F) > 2,000 m above sea level 18-30 °C (64.4-86 °F) ≤ 2 °C/hour (≤ 3.6 °F/h)

cobas e 402 analytical unit **Specifications Specifications of the reagentsystem cobas e** pack green Reagent pack types Reagent loading/unloading Manual Reagent Identification RFID Capacity of reagent disk 28 reagent packs 5-10°C (41-50°F) Reagent storage temperature Specifications of the sampling system Sampling cycle time 30 seconds Sample pipetting volume $4-60 \mu L (1 \mu L steps)$ Sample Liquidlevel detection Available Sample clot detection Available Sample air aspiration detection Available Specifications of the reaction system Number of incubator disk positions 38 Reaction volume 120 µL $37^{\circ}C \pm 0.3^{\circ}C(98.6^{\circ}F \pm 0.5^{\circ}F)$ Incubator temperature Reaction times for tests 9/18/27 min Mixer Vortex **Specifications of the ECL measuring system** Measuring Cell ECL measuring cell Number of measuring cells Maximum throughput* 120 tests/hour

Excellent performance, simple to use and beautifully designed. The new Immunochemistry analyzer – cobas e 402 analytical unit.



^{*}Throughput may differ based on the mix of test orders per sample



References

- 1 cobas® pure integrated solutions User Guide Publication Ver 1.0 · Draft Ver 3.
- 2 Elecsys assay menu cobas pure Analysis (source method sheets cobas e pack green).
- 3 cobas pure AutoCal Estimated Time Savings Internal Calculation.
- 4 cobas pure footprint dimensions Internal Document.
- 5 Elecsys assay menu cobas pure Analysis (source method sheets cobas e pack green, CMP Database).
- 6 Clinical Chemistry assay menu cobas pure Analysis (source method sheets cobas c pack green).
- 7 Roche Diagnostics Internal Reporting Data On File GCS reporting / Product reports Q1/2020, CPS Finance Report from Tableau, ICB Q1 2020.

COBAS, COBAS C, COBAS E and ELECSYS are trademarks of Roche.

© 2021 Roche Diagnostics

Published by:

Roche Diagnostics India Pvt. Ltd. 501 B, Silver Utopia Cardinal Gracious Road Chakala, Andheri East Mumbai, 400067 India

go.roche.com/rdin

