

The cobas b 221 blood gas system provides virtually uninterrupted performance

Product specifications

Measured parameters

Blood gas module	Total specified range
ph	6.0 - 8.0
PCO ₂	4.0 - 200 mmHg
PO ₂	0 - 800 mmHg
Electrolyte module	
Na ⁺	20.0 - 250 mmol/L
K ⁺	0.2 - 20 mmol/L
Ca ²⁺	0.1 - 4.0 mmol/L
Cl ⁻	20.0 - 250 mmol/L
Hct	10% - 80%
Hemoglobin module	
tHb	3 - 25 g/dL
SO ₂	50% - 100%
Metabolite module	
Glu	0.5 - 40 mmol/L
Lactic acid	0.2 - 20 mmol/L
Urea (BUN)	0.5 - 30 mmol/L
CO-oximetry module	
tHb-COOX	3 - 25 g/dL
O ₂ Hb	0% - 100%
HHb	0% - 100%
COHb	0% - 100%
MetHb	0% - 100%
SO ₂ COOX	0% - 100%
Bilirubin (neonatal)	3 - 50 mg/dL
Barometric pressure (Baro)	450 - 800 mmHg

Calculated parameters

H⁺, cHCO₃⁻, ctCO₂(P), FO₂Hb, BE, BE_{ectf}, BB, SO₂, P₅₀, ctO₂, ctCO₂(B), pH_{st}, cHCO₃^{-st}, PAO₂, AaDO₂, a/AO₂, avDO₂, RI, shunt, nCa²⁺, AG, pHⁱ, H⁺, PCO₂^t, PO₂^t, PO₂ⁱ, AaDO₂ⁱ, a/AO₂ⁱ, RIⁱ, Hct(c), MCHC, BO₂, BE_{act}, osmolality, OER, heart minute volume (Q_t), P/F index

Sample types

Whole blood, serum, plasma, dialysate, QC material

Data processing

Industrial standard PC

Monitor

Built-in flat color TFT-LCD 10.4-inch screen (touchscreen)

Thermal printer

Built-in 111 mm, graphical capability

Bar code scanner

Standard accessory

To find out more, contact your Roche Diagnostics representative or call 1-800-428-5076.



Depend on the cobas b 221 blood gas system to minimize delays and provide reliable results

Product specifications (cont.)

Electrical requirements

Power rating	100 - 240V (+6% - 10% permission to tolerance), 200W, 50/60 Hz autoselecting
Ambient temperature	+15 to +31 C (59 to 89.6 F)
Relative humidity, not condensed	15 < T < 31 C: 20% - 85%

Options

Built-in AQC	Automatic quality control system, with room for up to 120 QC ampoules
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Test certificate

FDA	510 (k)
UL	UL3101-1
CE-conformity	IVD-Directive 98/79/EC (IEC 1010-1 / EN 61010-1 / EN 61010-2-101)

Dimension/Weight

Width	<51 cm
Height	<59 cm (in operating situation)
Depth	<60 cm (with power supply)
Weight (without solutions, without AutoQC)	45 kg

Minimal maintenance lets you focus on the job at hand

Maintenance frequency	Time required	Required maintenance
Daily	1 minute	<ul style="list-style-type: none"> Check fill levels Check printer paper
Weekly	3 - 5 minutes	<ul style="list-style-type: none"> Clean fill port and sample drip tray Clean screen
Quarterly	5 - 10 minutes	<ul style="list-style-type: none"> Clean T&D disk Perform COOX calibration
Biannually	1 minute	<ul style="list-style-type: none"> Change peristaltic pump tubing Change air filter
As needed		<ul style="list-style-type: none"> Change bottle or pack Change printer paper Clean modules and sample paths Change fill port Clean bottle compartment Decontaminate surfaces Change AutoQC mats

Calibration

Calibration	Intervals, Duration
System calibration	Every 24 hours (programmable 8, 12, or 24 hours)
1-point calibration	Every 60 minutes (programmable 30 to 60 minutes)
2-point calibration	Every 12 hours (programmable 4, 8, or 12 hours)
Warm-up	Power on with calibration <43 minutes
Warm-up	Power fail <1 minute <2.5 minutes

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Roche Diagnostics
9115 Hague Road
Indianapolis, IN 46250
www.poc.roche.com