

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_{ecf}, 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_i), 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
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	- Check fill levels - Check printer paper
Weekly	3 - 5 minutes	- Clean fill port and sample drip tray - Clean screen
Quarterly	5 - 10 minutes	- Clean T&D disk - Perform COOX calibration
Biannually	1 minute	- Change peristaltic pump tubing - Change air filter
As needed		- Change bottle or pack - Change printer paper - Clean modules and sample paths - Change fill port - Clean bottle compartment - Decontaminate surfaces - Change AutoQC mats
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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