



epoc

Blood Analysis System

Product Specifications

Improve outcomes and workflow, while transforming care delivery across clinical pathways. The epoc® Blood Analysis System gives you lab-quality results here and now.

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System Specifications		
System Description	Point of care blood gas, electrolytes, metabolites and hematocrit analyzer	
Sample Types	Whole blood: arterial, venous, mixed venous, capillary	
Sample Size	At least 92 µL	
Time to Result	Less than 1 minute	
Calibration	Automatically performed prior to every test	
Quality Control	Eurotrol GAS-ISE Metabolite control; Eurotrol Hematocrit control	
Integrated Bar-code Scanner	Patient ID and Operator ID; 1D and 2D bar-code format	
External Interfaces	HL7	
Power Requirements	100–240 VAC; 50–60 Hz (Reader)	
Battery	Yes, at least 50 test cards	
Safety	IEC 61010-1, IEC 61010-2-81, IEC 61010-2-101, CSA/UL 601 (Reader)	
EMC	IEC60601-1-2 (Reader with AC adapter); IEC 61326-1, IEC 61326-2-6	
Operating System	MICROSOFT Windows Mobile 6.5 Classic	
Communication	Real Time Wireless, LIS/HIS via data management system, POC Informatics Solutions	
Test Card		
Storage	15–30°C	
Shelf Life	Up to 5 months	
Size	3.39 in (L) × 2.13 in (W) × 0.06 in (H) 86 mm (L) × 54 mm (W) × 1.4 mm (H)	
System Dimensions		
	Host	Reader
Length	5.78 in 147 mm	8.46 in 215 mm
Width	3.03 in 77 mm	3.35 in 85 mm
Height	1.06 in 27 mm	2 in 50 mm
Weight	12.5 oz 359 g	<1.1 lb <500g
Display	PENTILE 3.5 in. VGA	—

Environmental Requirements		
Operating Temperature	-10°C–50°C (Host)	15°C–30°C (Reader and Test Card)
Humidity	Up to 85% relative humidity, non-condensing (Host)	Up to 85% relative humidity, non-condensing (Reader and Test Card)
Barometric Pressure	400–825 mmHg (53.33–110 kPa)	
Measured Parameters		
Parameter	Unit of Measure	Measurement Range
pH	pH units	6.5–8.0
pCO ₂	mmHg kPa	5–250 0.7–33.3
pO ₂	mmHg kPa	5–750 0.7–100
TCO₂	mmol/L mEq/L	5–50 5–50
Na ⁺	mmol/L mEq/L	85–180
K ⁺	mmol/L mEq/L	1.5–12.0
Ca ⁺⁺	mmol/L mg/dL mEq/L	0.25–4.00 1.0–16.0 0.5–8.0
Cl ⁻	mmol/L mEq/L	65–140
Hct	% PCV L/L	10–75 0.10–0.75
Glu	mmol/L mg/dL g/L	1.1–38.5 20–700 0.20–7.00
Lac	mmol/L mg/dL g/L	0.30–20.00 2.7–180.2 0.03–1.80
Crea	mg/dL µmol/L	0.30–15.00 27–1326
BUN	mg/dL	3–120
Urea	mmol/L mg/dL g/L	1.1–42.8 7–257 0.07–2.57
Institutions should establish and set their own normal range values.		
Calculated Parameters		
Parameter	Unit of Measure	Measurement Range
cHgb	g/dL mmol/L g/L	3.3–25 2.0–15.5 33–250
cHCO ₃ ⁻	mmol/L mEq/L	1–85
cTCO₂	mmol/L mEq/L	5–50
BE(ecf)	mmol/L mEq/L	-30–+30
BE(b)	mmol/L mEq/L	-30–+30
cSO ₂	%	0–100
GFRmdr ^{*†}	mL/min/ 1.73m ²	2–60 or >60
GFRmdr-a ^{†‡}	mL/min/ 1.73m ²	2–60 or >60
GFRckd [§]	mL/min/ 1.73m ²	1–225
GFRckd-a [§]	mL/min/ 1.73m ²	1–225
GFRswz [§]	mL/min/ 1.73m ²	1–275
AGap	mmol/L mEq/L	-14–+95
AGapK	mmol/L mEq/L	-10–+99
BUN/Crea	mg/mg	0.2–400.0
Urea/Crea	mmol/ mmol mg/mg	0.8–1615.4 0.4–856.8
A	mmHg kPa	5–800 0.67–106.64
A-a	mmHg kPa	1–800 0.13–106.64
a/A	% fraction	0–100 0–1

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Product availability may vary from country to country and is subject to varying regulatory requirements. Please contact your local representative for availability.

*Values >60 will be reported as >60 mL/min/1.73 m²
[†]IDMS-traceable MDRD type
[‡]CKD-EPI equation
[§]Bedside Schwartz equation

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