7. Specifications

CLIA Classification: Moderate complexity

Sample Type: Whole blood

Sample Size: 120 µL Syringe mode/95 µL Capillary mode

Measured Parameters and Limits*

PO_2	5 - 700 mmHg	PCO_2	5.0 - 150.0 mmHg	pH	6.500 - 8.000 pH units	Hct	10-70%
Na^+	80-200 mmol/L	K^+	1.0-20.0 mmol/L	Ca^{++}	0.25-5.00 mmol/L (Ca^{++} mode)	Cl^-	50.0-150.0 (Cl^- mode) mmol/L

Calculated Parameters

THb (Total Hemoglobin)	3.3-23.3 g/dL
pH (T) (pH temperature corrected)	
PCO_2 (T) (PCO_2 temperature corrected)	
PO_2 (T) (PO_2 temperature corrected)	
TCO_2 (Total Carbon dioxide)	0-50 mmol/L
HCO_3^- (Bicarbonate)	0-50 mmol/L
BE_b (Base Excess in blood)	-25.0 to 25.0 mmol/L
BE_{ecf} (Base Excess in extra cellular fluid)	-25.0 to 25.0 mmol/L
SBC (Standard Bicarbonate)	0-50 mmol/L
$\%SO_{2c}$ (Oxygen Saturation)	40.0 - 100.0% (calculated at normal P50)
CtO_2 (Oxygen Content)	3.0 - 30.0 mL/dL
A-aDO_2 (Alveolar arterial oxygen gradient)	0-700 mmHg
RI (Respiratory Index)	0.0 - 70.0
Ca^{++} (7.4) (for $7.2 \leq pH \leq 7.6$) (Ca^{++} mode)	0.22 - 5.58 mmol/L
Anion Gap (Cl^- mode)	10-75 mEq/L

Input Parameters

Patient Temperature	(20 - 45°C)	Time Drawn	(00:00)
Hemoglobin	(3.0 - 30.0 g/dL)	Sample Source	(arterial, mixed venous, venous)
FIO_2 (Fraction Inspired Oxygen)	(10 - 100%)	Sample Type	(radial, brachial, femoral, arterial line, cord)
Patient ID	(14 digits)		
Operator ID	(14 digits)		

Sample Temperature Control: 37.0°C ± 0.2°C

Environmental Conditions: Indoor Use
15–30°C (59-86°F), 500–800 mmHg (max 15 PSI)
Altitude up to 2000m
5–85% relative humidity, non-condensing
atmospheric air environment (21% O_2)
Overvoltage category II, Pollution Degree 2

Analysis Time: <120 seconds

Data Storage: 64 Patient results with Operator ID, Patient ID, Date and Time
QC—up to 93 results for each Level (Blood Gas/Electrolytes 1, 2, 3, Hct 1, 2)

Calibration: Automatic or On-Demand

Input/Output: Numeric keypad, graphic display, 27 column thermal line printer, barcode reader port, RS-232 computer interface port

Power: 100/115~VAC, 50-60 Hz, 0.8 A or 220~VAC, 50-60 Hz, 0.4 A
Refer to the chassis serial number label for the voltage that has been factory set on your analyzer, and for proper fuse replacement.

Size & Weight: 14.5"W x 12.5"H x 7.0"D (37cmW x 32cmH x 18cmD), 17lbs (7.7kg) with reagent module

*Limits are using default correlations. Refer to CORRELATION for more information.