NP-BG50

Blood Gas Analyzer

Fast multi-sample blood gas analysis with automated printing and all-in-one cartridge workflow.

Multiple Samples

Arterial, venous, capillary, and cord whole blood.

Fast

60s/test with automatic results printing.

Maintenance Free

All-in-one cartridge; no fluid system in analyzer collection.

Easy to Use

Automatic inhalation, calibration, and waste collection.



60 s
Result time

150 µL
Sample volume

10.4 in
Color LCD

NP-BG50

Applications & Core Specifications

Application scenario

- Emergency room, ICU
- Anesthesia Department
- Pneumology Department
- Cardiology Department
- Clinical Laboratory

Blood Gas Analyzer

Category	Specification	Category	Specification
Throughput	Results in 60 seconds after sample aspiration	Display	10.4-inch color LCD display, resolution 768×1024
Sample Volume	150 µL	Battery	Lithium-ion battery 14.8V/6500mAh
Operation Environmen	10°C-31°C	Input Device	Touch screen and barcode scanner
Power Supply	AC 100-240V, 50Hz/60Hz	Interface	4×USB 2.0 Host, WLAN
Dimensions	260×270×410 mm	Fan	12V
Net Weight	9.5 kg without cartridge	Storage Capacity	+100000 tests



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Cartridges & Calculation Parameters

Cartridges

Parameter	Unit	Reportable Range	Precision (CV)
pH	mmHg	6.8-8.0	SD≤0.02
pO2	mmHg	20-600	CV≤7.5%
pCO2	mmol/L	15-130	SD≤2.5 mmHg
Na+	mmol/L	100-180	CV≤1.5%
K+	mmol/L	2.0-9.0	SD≤0.25 mmol/L
Ca++	mmol/L	0.25-2.5	SD≤0.15 mmol/L
Cl-	mmol/L	70-150	CV≤5%
Glu	mmol/L	1.1-27	CV≤5%
Lac	mmol/L	0.3-17	CV≤7.5%
Hematocrit	%PCV	20%-70%	CV≤3%

Calculation Parameters (23 items)

CH+, cH(T), pH(T), pCO2(T), pO2(T), HCO3-act, HCO3-std, BB(B), BE(B), BE(ecf), CtCO2, Ca+(7.4), sO2(est), AnGap, tHb(est), pO2(A-a), pO2(A-a)(T), pO2(a/A), pO2(a/A)(T), RI, RI(T), pO2/FiO2, pO2(T)/FiO2

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Cartridge Configuration

Cartridge configuration list

Model	Test Items
NP3	pH, pCO2, pO2
NP4L	pH, pCO2, pO2, Lac
NP4H	pH, pCO2, pO2, Hct
NP5	pH, pCO2, pO2, Lac, Hct
NP6E	pH, Na+, K+, Ca2+, Cl, Hct
NP6	pH, pCO2, pO2, Glu, Lac, Hct
NP8	pH, pCO2, pO2, Na+, K+, Ca+2, Cl, Hct
NP9L	pH, pCO2, pO2, Na+, K+, Ca+2, Cl, Lac, Hct
NP9G	pH, pCO2, pO2, Na+, K+, Ca+2, Cl, Glu, Hct
NP10	pH, pCO2, pO2, Na+, K+, Ca+2, Cl, Glu, Lac, Hct

Storage Temperature

15°C-25°C

Shelf Life

24 months

Onboard Life

Validity 21 days

Sample Type

Arterial blood, venous blood, capillary blood, quality control

Dimensions

194×92×207 mm

Weight

2 kg

Calibration

One point calibration, two point calibration

Components

Aspiration needle, electrode, calibrator and waste bag

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Quality Control

Quality Control

Type	Contents	Volume
A-1	Level 1, 30 ampuls	2.5 ml per ampul
A-2	Level 2, 30 ampuls	
A-3	Level 3, 30 ampuls	
A-123	Level 1, 10 ampuls Level 2, 10 ampuls Level 3, 10 ampuls	
B-1	Level 1, 5 ampuls	
B-2	Level 2, 5 ampuls	
B-3	Level 3, 5 ampuls	
C-123	Level 1, 1 ampuls Level 2, 1 ampuls Level 3, 1 ampuls	

Quality-control configurations and volumes are preserved as listed in the supplied manufacturer brochure.

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Packaging

Packaging

Item	Source value
Analyzer unit	1
Analyzer transportation temperature	20-55
Analyzer package size	395×345×660 mm
Analyzer package weight	13.7 kg
Cartridge transportation temperature	5-30
Cartridge package sizes	425×310×440 mm 700×420×320 mm 395×345×660 mm
Cartridge package weight	9.8 kg

Packaging values are carried forward from the source brochure, including transportation ranges, package dimensions and weights.

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Supplied Configuration

Configuration List

Name	Quantity
Blood Gas Analyzer (NP-BG50)	1
Blood Gas Analyzer (NP-BG50) User Manual	1
Adapter	1
Guarantee card	1
Three-hole power cord	1
Packing list	1
Barcode scanner	1
Simple Operating instructions - NP-BG50	1
Lithium battery	1
Factory inspection report	1
Thermal printer paper	1
Equipment acceptance certificate	1

Source package list preserved as supplied.
Quantities are shown exactly as listed in the original brochure.

