RAPIDLab 348EX Blood Gas System

Run critical care tests reliably and economically in low-volume settings

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Healthineers

Get trusted results for critical analytes with ease, efficiency, and economy

The RAPIDLab® 348EX Blood Gas System* from Siemens Healthineers is the cost-effective solution for smaller laboratories tasked with the challenge of performing fast-turnaround critical care tests for busy clinicians. The system operation supports low to medium throughput on an easy-to-use analyzer that's ready to generate accurate, on-demand results when clinicians need them, with a minimum of operator involvement.

System operation minimizes user interventions

- Simply lift the sample probe door to begin testing.

- Probe aspirates sample from syringes, capillaries, and QC ampules automatically, without the need for adapters.

- Automatic detection of short samples shifts analyzer into microsample mode, with no operator involvement required.

- Calibration routines and wash sequences are performed automatically.

Versatile connectivity options

- Connect seamlessly with Siemens Healthineers RAPIDComm® Data Management System.

- USB port simplifies data uploads/downloads.

- Capture patient results, QC, and calibration data with no manual handling of data.

Flexible data review, reporting, and storage

- Results can be viewed on-screen, output to the onboard printer, or electronically transmitted to LIS/HIS.

- Document QC performance with offline generation of Levey-Jennings reports.

- Print summary calibration and QC reports for inspection purposes.

- Conveniently store onboard up to 250 patient test records and up to 90 results for each level of QC.

Available for sale only in select countries.

Affordable, on-demand performance from a compact design

- Economically priced—low cost of acquisition.

- Low operating costs—cost of reagents and consumables will not vary significantly, even if patient workload increases.

- Small footprint saves valuable bench space in smaller labs and other testing locations.

Fast, accurate results support critical treatment decisions

- Actionable patient test results are available in approximately 60 seconds.

- Analyze whole blood and dialysate fluid.

- Small sample size (50–95 µL) suitable for most patients.

- Comprehensive quality control (QC) materials help verify system performance.

RAPIDLab 348EX Blood Gas System Test Menu

| pH | pO_2 | pCO_2 | Cl^- | Ca^{++} | K^+ | Na^+ | Hematocrit |

Whole blood

| pH | pCO_2 | Ca^{++} | $ctCO_2$ | HCO_3 | K^+ | Na^+ |

Dialysate

Maximizing productivity and operator efficiency in the low-volume laboratory

The RAPIDLab 348EX analyzer combines proven Siemens Healthineers blood gas technology with a range of next-generation system enhancements designed to streamline and simplify day-to-day operations and workflow.

Analyze patient samples easily via the READY screen

- Intuitive color touchscreen user interface features large, easy-to-read system icons that display analyzer status and application.

- One-touch icon selection of sampling mode (syringe, capillary, dialysate fluid, QC).

- Easy navigation to all routine functions.

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RAPIDLab 348EX

Ensure data integrity and increase workflow efficiency

- Safe, secure patient/operator ID entry via bar-code scanner.

- Optional setting for always-on, single-handed scanning.

- Scanner conveniently mounts on either side of the analyzer.

More system uptime to support on-demand test requests

- Time-tested Ready Sensor® electrodes have a proven track record of performance and long use-life.

- Minimal maintenance requirements extend system uptime.

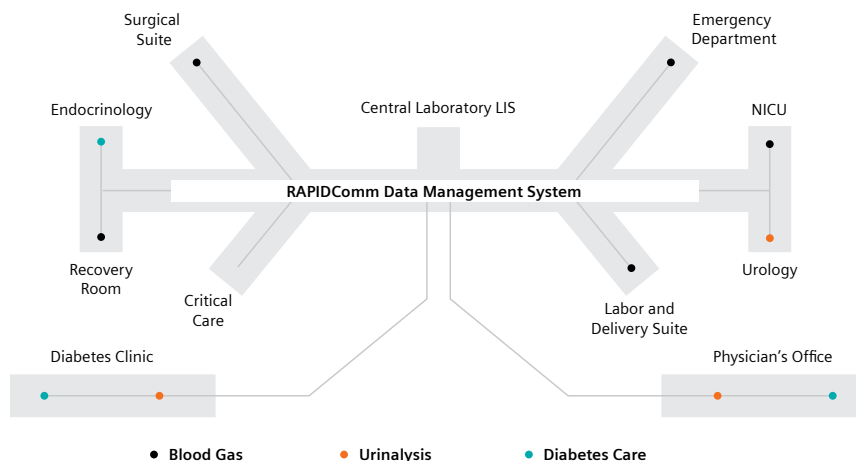- Test and report only those parameters ordered by the clinician.

Fast access to sensors, reagents, and waste

- Measurement chamber houses all sensors and is designed for easy access and replacement.

- All reagents are located on the front panel of the analyzer, enabling easy level monitoring and reagent replacement.

- Clear plastic bottles and blue-colored solutions allow at-a-glance checks of fill volumes.

5

Maximize efficiency with the RAPIDComm Data Management System

When analyzers in remote, decentralized settings are supported by the RAPIDComm Data Management System, point-of-care coordinators can oversee the entire testing process from a central location.

- Configure, monitor, and control multiple networked RAPIDLab 348EX analyzers.

- Troubleshoot analyzers, standardize test protocols, authorize and certify operators, and enforce QC checks.

- Generate customized reports for accreditation inspections.

- Ensure testing and regulatory compliance, and significantly improve risk management.

- Connect multiple Siemens Healthineers point-of-care analyzers—including blood gas, urine chemistry, and diabetes care systems—through a single interface to the LIS/HIS.

Surgical Suite

Emergency Department

Endocrinology

Central Laboratory LIS

NICU

RAPIDComm Data Management System

Recovery Room

Urology

Critical Care

Labor and Delivery Suite

Diabetes Clinic

Physician's Office

● **Blood Gas** ● **Urinalysis** ● **Diabetes Care**

An integrated portfolio of critical care solutions

Critical care solutions from Siemens Healthineers can streamline the monitoring and analysis of critical blood gas results throughout all areas of your institution, saving vital time when every minute counts.

They provide rapid, reliable blood gas information across the entire spectrum of critical care settings, from central locations to multiple remote labs and point-of-care sites.

Superior customer support coupled with decades of innovative products and services that address your critical care challenges completes our offering. That's why healthcare providers have installed more than 20,000 of our blood gas analyzers worldwide.

The reliable choice for cost-effective critical care testing in low-volume settings

Overview		
System Description	Critical care blood gas analyzer	
Analytes	**Unit**	**Range of Operation**
pH	pH	6.001–8.000
pCO_2	mmHg	5.0–250.0
pO_2	mmHg	0.0–749.0
Na+	mmol/L	80–200
K+	mmol/L	0.50–9.99
Ca++	mmol/L	0.20–5.00
Cl	mmol/L	40–160
Hct	%	12–75
Calculated Parameters	**Unit**	**Reporting Range**
O_2 SAT	%	0.0–100.0
O_2 CT	mL/dL	0.0–40.0
$HCO_3^{-\,act}$	mmol/L	0.0–60.0
$HCO_3^{-\,std}$	mmol/L	0.0–60.0
$ctCO_2$	mmol/L	0.0–60.0
BE_b	mmol/L	−29.9 to 29.9
BE_{ecf}	mmol/L	−29.9 to 29.9
pO_2(A-a)	mmHg	0.0–749.0
pO_2(a/A)	mmHg	0.00–1.00
pO_2/F_IO_2	mmHg	0.00–5.00
Ca++ (7.4)	mmol/L	0.20–5.00
Anion gap	mmol/L	−60.0 to 60.0
pH(T)	pH	6.001–8.000
H^+(T)	nmol/L	10.0–997.0
pCO_2(T)	mmHg	5.0–250.0
pO_2(T)	mmHg	0.0–749.0
pO_2(A-a)(T)	mmHg	0.0–749.0
pO_2(a/A)(T)	mmHg	0.00–1.00
ctHb (est)	g/dL	2.0–25.0
Sample Volume	Syringe: Capillary: Microsample:	95 µL 95 µL 50 µL
Sample Type	Whole blood Dialysate fluid	
Analysis Time	Approximately 60 seconds to result	
Calibration	Automatic or on demand	

Input Parameters	
Temperature	10.0–43.9°C
Hemoglobin	2.0–25.0 g/dL
F_IO_2	15.0–100.0%
Patient/ Operator IDs	Approximately 60
Sample Location	Radial, brachial, femoral, cord, arterial line (with RAPIDComm Data Management System)

Display	
Interface	Intuitive, icon-based color touchscreen

Onboard Computer	
Storage Capacity/ Memory	Up to 250 patient test records Up to 90 results for each level of QC
Data Export	Via integrated USB port/flash drive to PC, or direct to LIS/HIS or RAPIDComm Data Management System

Connectivity Options/Peripheral Interfaces	
Serial	RS232, LIS1, LIS2, LIS3 protocol
Bidirectional	Can be set up for monitoring/control and connectivity with the RAPIDComm Data Management System
USB Port	Standard USB 2.0
Bar-code Reader	Standard USB 2.0

General		
Dimensions (without bar-code scanner) Memory	38.2 (h) x 38.5 (w) x 35.3 (d) cm 15.0 (h) x 15.2 (w) x 13.9 (d) inches	
Weight	9.4 kg (20.7 lb)	
Power Requirements	Voltage:	100 V (85–110 V) 120 V (102–132 V) 220 V (187–242 V) 240 V (204–264 V)
	Power: Frequency:	80 VA 50/60 Hz
Environmental	Temperature: Humidity: Barometric pressure:	15–32°C 5%–85%, noncondensing 400–825 mmHg
Approvals	UL, CSA, IEC, EN-61010, CE-marked with full CB Scheme and all National Deviations. Complies with the IVD directive.	

For more information visit
siemens-healthineers.com

At Siemens Healthineers, our purpose is to enable healthcare providers to increase value by empowering them on their journey toward expanding precision medicine, transforming care delivery, and improving patient experience, all made possible by digitalizing healthcare.

An estimated 5 million patients globally benefit every day from our innovative technologies and services in the areas of diagnostic and therapeutic imaging, laboratory diagnostics, and molecular medicine, as well as digital health and enterprise services.

We are a leading medical technology company with over 120 years of experience and 18,000 patents globally. Through the dedication of more than 50,000 colleagues in 75 countries, we will continue to innovate and shape the future of healthcare.

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