

SIEMENS



www.siemens.com/diagnostics

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

RAPIDLab 348EX Blood Gas System

Answers for life.

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

The RAPIDLab® 348EX Blood Gas System* from Siemens Healthcare Diagnostics 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.

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 µL–95 µL) suitable for most patients
- Comprehensive Quality Control (QC) materials help verify system performance



System operation minimizes user interventions

- Simply lift the sample probe door to begin testing
- Probe aspirates sample from syringes, capillaries, and QC ampoules automatically, without the need for adapters
- Automatic detection of short samples shifts analyzer into microsample mode, with no operator involvement required
- Automatic calibration routines and wash sequences



*Available for sale only in select countries.



RAPIDLab 348EX Blood Gas System Test Menu

Whole Blood

- pH, pCO₂, pO₂
- Na⁺, K⁺, Ca⁺⁺/Cl⁻
- Hematocrit

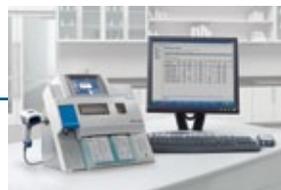
Dialysate

- pH, pCO₂
- Na⁺, K⁺, Ca⁺⁺
- HCO₃⁻, ctCO₂



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
- Convenient onboard storage of up to 250 patient test records, and up to 90 results for each level of QC



Versatile connectivity options

- Connect seamlessly with Siemens RAPIDComm[®] Data Management System
- USB port simplifies data uploads/downloads
- Capture patient results, QC, and calibration data with no manual data handling



Affordable, on-demand performance from a compact design

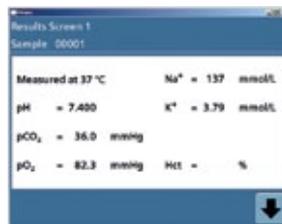
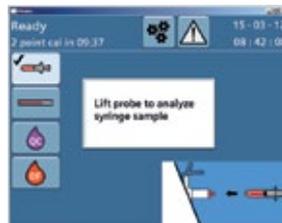
- Economically priced—low cost of acquisition
- Low operating costs—cost of reagents and consumables will not vary significantly, even if patient workload increases
- Small footprint saves valuable bench space in smaller labs and other testing locations

Maximizing productivity and operator efficiency in the low-volume laboratory

The RAPIDLab 348EX analyzer combines proven Siemens 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 touch screen 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) from the main READY screen
- Easy navigation to all routine functions from the READY screen



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 further extend system uptime
- Test and report only those parameters ordered by the clinician



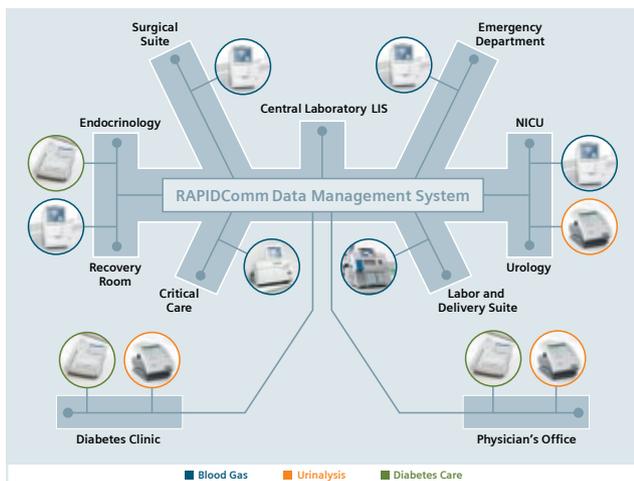
Fast access to sensors, reagents, and waste

- 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



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

An integrated portfolio of critical care solutions

Critical care solutions from Siemens 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.



For more information visit www.siemens.com/diagnostics

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	-29.9–29.9
BE _{ecf}	mmol/L	-29.9–29.9
pO ₂ (A-a)	mmHg	0.0–749.0
pO ₂ (a/A)	mmHg	0.00–1.00
pO ₂ /F _i O ₂	mmHg	0.00–5.00
Ca ⁺⁺ (7.4)	mmol/L	0.20–5.00
Anion gap	mmol/L	-60.0–60.0
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:	95 µL
	Capillary:	95 µL
	Microsample:	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°C–43.9°C
Hemoglobin	2.0–25.0 g/dL
F_iO₂	15.0%–100.0%
Patient/Operator IDs	Up to 16 characters (alphanumeric)
Sample Location	Radial, brachial, femoral, cord, arterial line (with RAPIDComm Data Management System)

Display

Interface	Intuitive, icon-based color touch screen
------------------	--

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
Bi-Directional	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)	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: 100V (85–110V) 120V (102–132V) 220V (187–242V) 240V (204–264V) Power: 80 VA Frequency: 50/60 Hz
Environmental	Temperature: 15°C to 32°C Humidity: 5%–85%, non-condensing Barometric pressure: 400–825 mmHg

Approvals

	UL, CSA, IEC, EN-61010, CE Marked with full CB Scheme and all National Deviations. Complies with the IVD directive
--	--

Siemens Healthcare Diagnostics, a global leader in clinical diagnostics, provides healthcare professionals in hospital, reference, and physician office laboratories and point-of-care settings with the vital information required to accurately diagnose, treat, and monitor patients. Our innovative portfolio of performance-driven solutions and personalized customer care combine to streamline workflow, enhance operational efficiency, and support improved patient outcomes.

RAPIDComm, RAPIDLab, Ready Sensor, and all associated marks are trademarks of Siemens Healthcare Diagnostics Inc. All other trademarks and brands are the property of their respective owners.

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

Order No. A91DX-POC-120367-GC1-4A00
06-2012 | All rights reserved
© 2012 Siemens Healthcare Diagnostics Inc.

Global Siemens Headquarters
Siemens AG
Wittelsbacherplatz 2
80333 Muenchen
Germany

Global Siemens Healthcare Headquarters
Siemens AG
Healthcare Sector
Henkestrasse 127
91052 Erlangen
Telephone: +49 9131 84-0
Germany
www.siemens.com/healthcare

Global Division
Siemens Healthcare Diagnostics Inc.
511 Benedict Avenue
Tarrytown, NY 10591-5005
USA
www.siemens.com/diagnostics