



Technical Specifications

Atellica CH 930 Analyzer



The Atellica® CH 930 Analyzer uses proven micro-volume technology for photometric testing and highly reliable integrated multisensor technology (IMT) for electrolyte testing. The Atellica CH 930 Analyzer uses the same reagents and consumables in every configuration for streamlined inventory management and consistent patient results, no matter where the samples are tested.

Up to six Atellica CH 930 Analyzers can be connected in the Atellica Solution to accommodate chemistry testing volume.

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Atellica Solution

Flexible, scalable, automation-ready immunoassay and clinical chemistry analyzers engineered to deliver control and simplicity so you can drive better outcomes

Experience the power of the Atellica® Solution, featuring patented bidirectional magnetic sample transport technology, the flexibility to create over 300 customizable configurations, and a broad assay menu with proven detection technologies.



Technical Specifications

Product Specifications

Description	Chemistry analyzer with electrolyte (IMT) and photometric testing capabilities
Test Throughput	Up to 1800 tests/hour: 1200 tests/hour photometric, 600 tests/hour IMT
Walkaway Time	Up to 5 hours

Sample Handling

Validated Sample Types	Serum, plasma, CSF, urine, whole blood (assay-specific)
Sample Integrity Control	Liquid-level sensing, clot detection, bubble detection, short-sample detection; hemolysis, icterus, and lipemia checks
Auto-repeat	Automatic repeat testing from the retained prediluted sample or original sample
Sample Dilution	For most photometric tests, samples diluted 1:5 (50 µL sample + 200 µL CH diluent generates up to 15 test results)
Auto-reflex Testing	Will perform additional tests based on results of first test or test combination
Sample Carryover Prevention	Extensive washing protocols help minimize carryover
Predilution Tray	115 dilution cuvettes: five segments of 23 cuvettes
Sample Volume per Test	Photometric: 4.0 µL to 50.0 µL (varies by assay) IMT: 25 µL produces results for sodium (Na ⁺), potassium (K ⁺), and chloride (Cl ⁻)

Reaction Area

Reaction Cuvettes	221 reusable plastic cuvettes: 13 segments with 17 cuvettes each for reaction
Reaction Temperature	37°C ±0.3°C
Reaction Detection	Photometer: 11 fixed wavelengths (340, 410, 451, 478, 505, 545, 571, 596, 658, 694, 805 nm) Linearity: 0–3.0 AU, Resolution: 0.0001 AU
Light Source	12 V, 50 W halogen lamp supplemented by LED at 340 nm
Assay Result Calculations	Endpoint (EPA), rate reaction (RRA), 2-point rate (2PA), sample blank correction
Assay Times	3–10 minutes, assay-dependent
Assay Technology	Integrated Multisensor Technology, photometric, turbidimetric

Reagent Handling

Reagent Compartments	Two trays (70 positions each), refrigerated
Assays Onboard	Each reagent compartment holds a total of 70 packs for photometric, Reagent Probe Cleaner (RPC), and Water Bath Additive (WBA). Both compartments combined hold a total of 140 packs.
Reagent Packs	50 mL dual-well reagent containers (2 x 25 mL each); 95–2100 tests per pack
Reagent Integrity Control	Reagent pack bar-code identification; automatic tracking and notification of inventory, calibration and control validity, onboard stability, low and expired reagents, detection of reagent bubbles
Onboard Stability	Up to 60 days, assay-dependent
Reagent Inventory Management	Automatic tracking and notification of remaining tests, onboard stability and expiration, calibration, and storage conditions for each pack and well
Dispensing System	Two probes with liquid-level sensing
Bar-code-labeled Packs	Yes
Average Reagent Volume	10–100 µL per test, assay-dependent
Open Channels	Available; configurable to assay specifications

Integrated Multisensor Technology (IMT) for Na⁺, K⁺, Cl⁻

Assay Time	18 seconds
Sample Volume	25 µL produces three results
Sample Dilution	Automatic 1:10
Calibration	Automatic calibration
Priming	Automatic priming cycle
A-LYTE™ Integrated Multisensor Technology Cartridge Use Life	Up to 5000 samples or 14 days

Calibration/QC

Auto-calibration	Automatic assay-specific lot and pack calibration (when connected to Atellica® Sample Handler)
Calibration Review	Graphical display of calibration curves from a minimum of 20 different reagent lots and 20 reagent packs for each assay
Auto-QC	Automatic, user-defined, assay-specific quality control (when connected to Atellica Sample Handler)
Quality Control Review	Advanced QC package with graphical display of QC in real time, including patient moving averages, Levey-Jennings plots, Westgard rules, RilibAK rules; up to 125,000 control results can be stored; archivable to removable media
QC/Calibration Material	QC and calibration material is auto-loaded, tracked, and stored in a 60-position covered and refrigerated compartment and automatically deployed to analyzers when QC or calibration is scheduled (when connected to Atellica Sample Handler)

Maintenance

Daily	Automated: ≤17–45 minutes; *† hands-on: <5 minutes
Weekly	Automated: 70 minutes; hands-on: 5 minutes
Monthly	Hands-on: 15 minutes
As Needed	Refer to Online Help for additional periodic maintenance.
Maintenance Logs	Automated onboard scheduling, notification, and reporting

General Specifications

Power Requirements	Requires a 4.4 kVA (U.S.)/3.7 kVA (EU) power source; single-phase, 2-pole, 3-wire configuration; with Class III grounding. Will support incoming AC voltage from a nominal line voltage range of 200 to 240 VAC, 50/60 Hz. Main supply voltage fluctuations are not to exceed ±10 percent of the nominal voltage.
Power Consumption	1.9 kilowatts/hour (maximum)
Water Input Requirements	Incoming pressure of 5–30 psi at a temperature of 10–30°C
Water Quality Requirements	Special reagent grade water Resistivity (≥10 MΩ-cm) Bacteria (≤50 CFU/mL) TOC – Total Organic Carbon (≤500 ppb) A 0.22 micron filter is required at the output stage of the laboratory water purification system and an additional 0.22 micron filter is required before the input to the water supply for each analyzer
Maximum Water Consumption	33 liters (8.7 gallons) per hour
Drain Requirements	Minimum of 40 liters (10.6 gallons) per hour per analyzer
Dimensions	136.4 (h) x 149.1 (w) x 115.6 (d) cm; 53.7 (h) x 58.7 (w) x 45.5 (d) inches
Weight	470 kg (1036 lb)
Compliance	Complies with international environmental, health, and safety standards, including CE and RoHS
Noise Emission	Average sound pressure level: 50 dBA
Processing Heat Output	5210 BTU/hour
Ambient Temperature	18–30°C (64–86°F)
Ambient Humidity	20–80% noncondensing
Altitude	0–4000 m (13,122 ft)
Floor Load-bearing Requirement	274 kg/m ²
Overvoltage Classification	Category II
Pollution Classification	Degree 2
Removable Media	USB

*Depending on test mix and volume.

†Daily maintenance is not required on the same scheduled day the analyzer performs the weekly maintenance.

Atellica Portfolio of Laboratory Products

Engineered by Siemens Healthineers to deliver control and simplicity so you can drive better outcomes.

Tighter control of your lab, simplified workflow, and more time to focus on driving better business and clinical outcomes—that's the promise of our Atellica® portfolio of laboratory products.

Control. Simplicity. Better Outcomes.

At Siemens Healthineers, we pioneer breakthroughs in healthcare. For everyone. Everywhere. By constantly bringing breakthrough innovations to market, we enable healthcare professionals to deliver high-quality care, leading to the best possible outcome for patients.

Our portfolio, spanning from in-vitro and in-vivo diagnostics to image-guided therapy and innovative cancer care, is crucial for clinical decision-making and treatment pathways. With our strengths in patient twinning, precision therapy, as well as digital, data, and artificial intelligence (AI), we are well positioned to take on the biggest challenges in healthcare. We will continue to build on these strengths to help fight the world's most threatening diseases, improving the quality of outcomes, and enabling access to care.

We are a team of 66,000 highly dedicated employees across more than 70 countries passionately pushing the boundaries of what's possible in healthcare to help improve people's lives around the world.

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Siemens Healthineers Headquarters

Siemens Healthcare GmbH
Henkestr. 127
91052 Erlangen, Germany
Phone: +49 9131 84-0
siemens-healthineers.com

Legal Manufacturer

Siemens Healthcare Diagnostics Inc.
Laboratory Diagnostics
511 Benedict Avenue
Tarrytown, NY 10591-5005
USA
Phone: +1 914-631-8000