

INNOVIQURE

Chemiluminescence Immunoassay Systems

MOMENTUM

Consolidated throughput. Bench-top footprint.

BENCH-TOP · 300 TESTS / HOUR



300

tests per hour
on a single bench

125

incubation positions
37 ± 0.2 °C, direct solid heating

448

tests / h·m²
area efficiency

INNOVIQURE MOMENTUM

Chemiluminescence Immunoassay Analyzer

A consolidated bench-top analyzer for the laboratory that has outgrown a small system but still works on a bench. Sixty sample positions, a twenty-five position refrigerated reagent disk and three hundred tests an hour, in one metre of bench.


300
tests / hour

maximum throughput

≤ 10
minutes

time to first result

60
positions

samples, calibrators, controls

25
positions

refrigerated reagent disk

● Sixty samples, twenty-five reagents

Sixty sample positions and a twenty-five position reagent disk refrigerated at 2–8 °C, sealed automatically against evaporation. Batch, follow-up and STAT modes run without interrupting the session in progress.

● Solid direct heat incubation

One hundred and twenty-five incubation positions held at 37 ± 0.2 °C. Direct solid heating keeps the reaction within a fraction of a degree for the length of the run.

● Consumables loaded on line

Five hundred assay cups in bulk, two substrate bottles and a ten-litre external wash container. Reagents and consumables are replenished during a run, not between runs.

● Dilution without losing speed

An independent dilution position lets the analyzer dilute without dropping throughput. Ratios from 1:2 to 1:6400 are set per assay, and the dilution hole is shared, which keeps the cycle short.

● Probe and sample integrity

Liquid-level detection, empty-aspiration detection, anti-collision protection and clot detection on the probe. Surround vacuum cleaning with positive and negative pressure washes the probe inside and out.

● Open detection chemistry

Acridinium ester, alkaline phosphatase, HRP and ABEI detection systems are supported, so one instrument covers both direct and enzymatic chemiluminescence.

248 assays across 19 clinical areas

the same menu on every INNOVIQURE analyzer

Thyroid

Fertility & reproductive

Adrenal · pituitary · growth

Prenatal screening

Diabetes

Anaemia & nutrition

Bone metabolism

Cardiac markers

Thrombosis & coagulation

Inflammation & sepsis

Cytokines & interleukins

Tumour markers

Gastric function

Hepatitis · HIV · syphilis

TORCH

Kidney function

Hepatic fibrosis

Interstitial lung disease

Autoimmunity

Footprint 1000 × 680 × 740 mm (L × W × H) · net weight ≤ 150 kg · input power ≤ 1000 VA · 100–240 V, 50/60 Hz

Technical specifications

SPECIFICATION	
SYSTEM	
System	Fully automated, random-access chemiluminescence immunoassay analyzer
Format	Bench-top
Measuring principle	Direct chemiluminescence of an acridinium ester, with paramagnetic particles as the solid phase
Detection systems supported	AE · AP · HRP · ABEI
Result calculation	Quantitative: four-parameter logistic curve fitting (4PLC). Qualitative: cut-off index (COI)
THROUGHPUT AND CAPACITY	
Throughput	300 tests / hour (max)
Time to first result	≤ 10 minutes
Walk-away time	> 3 hours
Sample positions	60
Reagent positions	25
Incubation positions	125
Area efficiency	Up to 448 tests / (h·m²)
SAMPLE AND REAGENT	
Sample types	Human serum, plasma, whole blood and urine
Sample volume	5–150 µL
Sample tubes	Mixed placement of various primary tube types
Probe detection	Liquid level, empty aspiration, anti-collision, clot detection
Probe cleaning	Surround vacuum cleaning, positive and negative pressure
Dilution	Independent dilution position, ratio 1:2 to 1:6400, no speed reduction
Reagent volume	10–200 µL
Reagent refrigeration	2–8 °C, automatic sealing against evaporation
Reagent mixing	On-board magnetic bead mixing
Reagent identification	Fixed barcode scanning or RFID

SPECIFICATION	
REACTION	
Reaction volume	≤ 400 µL
Incubation method	Direct solid heating
Incubation temperature	37 ± 0.2 °C
Reaction mixing	Vortex shaking, non-contact
Precision	CV ≤ 3 %
CONSUMABLES	
Assay cups	Bulk loading, 500 cups
Substrate	Up to 2 bottles
Wash buffer	10 L, external container
Solid waste	500 cups per container
Liquid waste	Container
Continuity	Reagents and substrates loaded during the run
PHYSICAL, ELECTRICAL AND ENVIRONMENT	
Dimensions L × W × H	1000 × 680 × 740 mm
Net weight	≤ 150 kg
Power supply	100–240 V, 50/60 Hz
Input power	≤ 1000 VA
Operating temperature	10 °C to 30 °C
Operating humidity	≤ 85 % RH, no condensation
Altitude	≤ 4000 m

Specifications are subject to change without notice.

One platform

Every analyzer in the INNOVIQURE series runs the same reagent kits, the same calibrators and controls and the same system consumables. A laboratory can move from 120 to 900 tests per hour, or run several instruments side by side, without changing methods, retraining staff or revalidating its menu.

The series

Analyzer	Tests / hour	Sample positions	Reagent positions	Format
INNOVIQURE NEXUS	120	30	10	Bench-top
INNOVIQURE SPECTRUM	200	60	25	Bench-top
INNOVIQURE MOMENTUM	300	60	25	Bench-top
INNOVIQURE CASCADE	600	410	40–60	Modular
INNOVIQURE ATLAS	900	410	60	High volume

System consumables

700101	INNOVIQURE Pre-Trigger Solution	100 mL · 1,000 tests
700156	INNOVIQURE Trigger Solution	100 mL · 1,000 tests
700200	INNOVIQURE Wash Buffer	10 L · 300 tests
700255	INNOVIQURE Enhanced Cleanser	2 × 11 mL
700309	INNOVIQURE Assay Cup	1,000 pcs
700316	INNOVIQURE Assay Cup	1,000 pcs

Quality controls

710018 · 710025 · 710032	INNOVIQURE Liquid Cardiac Markers Plus Control	Levels 1, 2, 3
730016 · 730023 · 730030	INNOVIQURE Lyophilized Immunoassay Plus Control	Levels 1, 2, 3
720017 · 720024 · 720031	INNOVIQURE Lyophilized Tumor Marker Control	Levels 1, 2, 3
740015 · 740022 · 740039	INNOVIQURE Lyophilized Special Immunoassay Control	Levels 1, 2, 3

Reagent kits are supplied in 100 T, 200 T and 400 T pack sizes.

Quality management

EN ISO 13485:2016	MMS-389-1012	ISO/IEC 27001:2022	ISMS-389-1012
EN ISO 9001:2015	QMS-389-1012	EN ISO 45001:2018	OHS-389-1012
EN ISO 14001:2015	EMS-389-1012	GMP	GMP-25.11.322