

INNOVIQURE

Chemiluminescence Immunoassay Systems

ATLAS

High volume. Duplicated modules. Four systems on one line.

HIGH VOLUME · 900 TESTS / HOUR



3,600

tests per hour

four systems connected on line

5,000

assay cups

large-capacity hopper

377

tests / h·m²

area efficiency

INNOVIQURE ATLAS

Chemiluminescence Immunoassay Analyzer

The high-volume member of the series. Nine hundred tests an hour from a single system, and up to four systems connected on one line for three thousand six hundred tests an hour, with key modules duplicated inside each system so that testing does not stop.


900
tests / hour

single system, maximum

≤ 9
minutes

time to first result

410
positions

incl. emergency and cache

60
positions

two refrigerated reagent disks

Up to four systems on one line

One to four analyzers connect on a single line, taking it to 3,600 tests an hour. Key modules are duplicated inside each system, so a single module does not take the line down.

Four hundred and ten sample positions

Basket-type sampling with three hundred rack positions, plus emergency and cache positions, four hundred and ten in total. Two independent emergency positions accept a sample at any time, for priority testing.

Twin grippers, multi-stage washing

A two-way linear gripper platform transfers cups with coordinated double grippers. Multi-stage magnetic separation and multi-stage aspiration wash the particles, with resuspension shock mixing between stages.

Sixty refrigerated reagent positions

Two reagent disks of thirty positions each, refrigerated at 2–8 °C twenty-four hours a day, with timed mixing, timed condensate drainage and multiple barcode identification.

Five thousand cups in the hopper

A large-capacity hopper holds five thousand assay cups and feeds them through a high-stability cup-adding device. Substrates are backed by a second bottle and replaced on line.

Cerebrospinal fluid and more

Serum, plasma, whole blood, urine and cerebrospinal fluid are all accepted. A single steel probe serves both sample and reagent, with no disposable tips to purchase.

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 2364 × 1070 × 1500 mm (L × W × H) · net weight 424 kg host, 152 kg sample delivery module · ≤ 3 kW

Technical specifications

SPECIFICATION	
SYSTEM	
System	Fully automated, random-access chemiluminescence immunoassay analyzer
Format	High volume, 1 to 4 systems connected on line
Measuring principle	AE, AP, ABEI or HRP magnetic particle based chemiluminescence
Result calculation	Quantitative: four-parameter logistic curve fitting (4PLC). Qualitative: cut-off index (COI)
THROUGHPUT AND CAPACITY	
Throughput	Up to 900 tests / hour
Throughput, four systems on line	Up to 3,600 tests / hour
Time to first result	≤ 9 minutes
Walk-away capacity	6 hours
Sample positions	Up to 410, including emergency and cache positions
Rack sampling positions	300, basket type
Reagent positions	60, two disks of 30
Transport tracks	Three: independent emergency track, routine track, return track
Emergency positions	2 independent, priority testing
Area efficiency	Up to 377 tests / (h·m²)
SAMPLE AND REAGENT	
Sample types	Human serum, plasma, whole blood, urine and cerebrospinal fluid
Sample volume	5–150 µL, sampling accuracy ≤ 5 %, CV ≤ 2 %
Sample tubes	Mixed placement of various primary tube types
Probe	Single steel probe for sample and reagent, no disposable tips
Probe detection	Liquid level, empty aspiration, anti-collision, clot detection
Probe cleaning	Surround vacuum cleaning, positive and negative pressure
Dilution	Automatic and fixed multiple dilution, no speed reduction
Reagent volume	10–200 µL
Reagent refrigeration	2–8 °C, 24 h uninterrupted
Reagent mixing	Non-contact rotary mixing for magnetic particles
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 time	Configurable
Reaction mixing	Non-contact vortex mixing
Washing	Multi-stage magnetic separation and aspiration, resuspension shock mixing
Precision	Batch CV ≤ 3 %
CONSUMABLES	
Assay cups	Hopper, 5000 cups, one-click bulk loading
Substrate	Double bottle, online replacement, capacity configurable
Wash buffer	Double barrel switching, concentrated liquid supported
Liquid waste	Single container for the whole system
Continuity	Reagents loaded during the run; two sets of substrate loaded at the same time
PHYSICAL, ELECTRICAL AND ENVIRONMENT	
Dimensions L × W × H	2364 × 1070 × 1500 mm
Net weight host	424 kg
Net weight sample delivery module	152 kg
Power supply	220 V ± 10 %, 50 Hz ± 1 Hz
Input power	≤ 3 kW
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