

MAGLUMI® X3

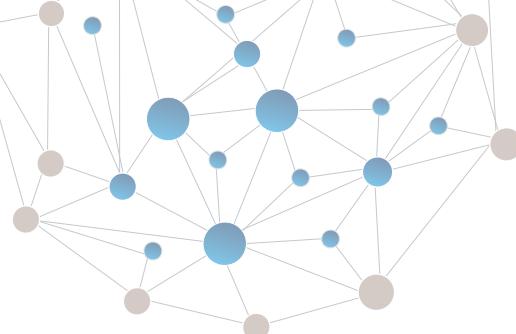
Fully-auto Chemiluminescence Immunoassay (CLIA) System



Save Your Space Without Compromise

Powerful Performance and Compact Design

Compatible with Small and Medium-sized Hospitals and Labs

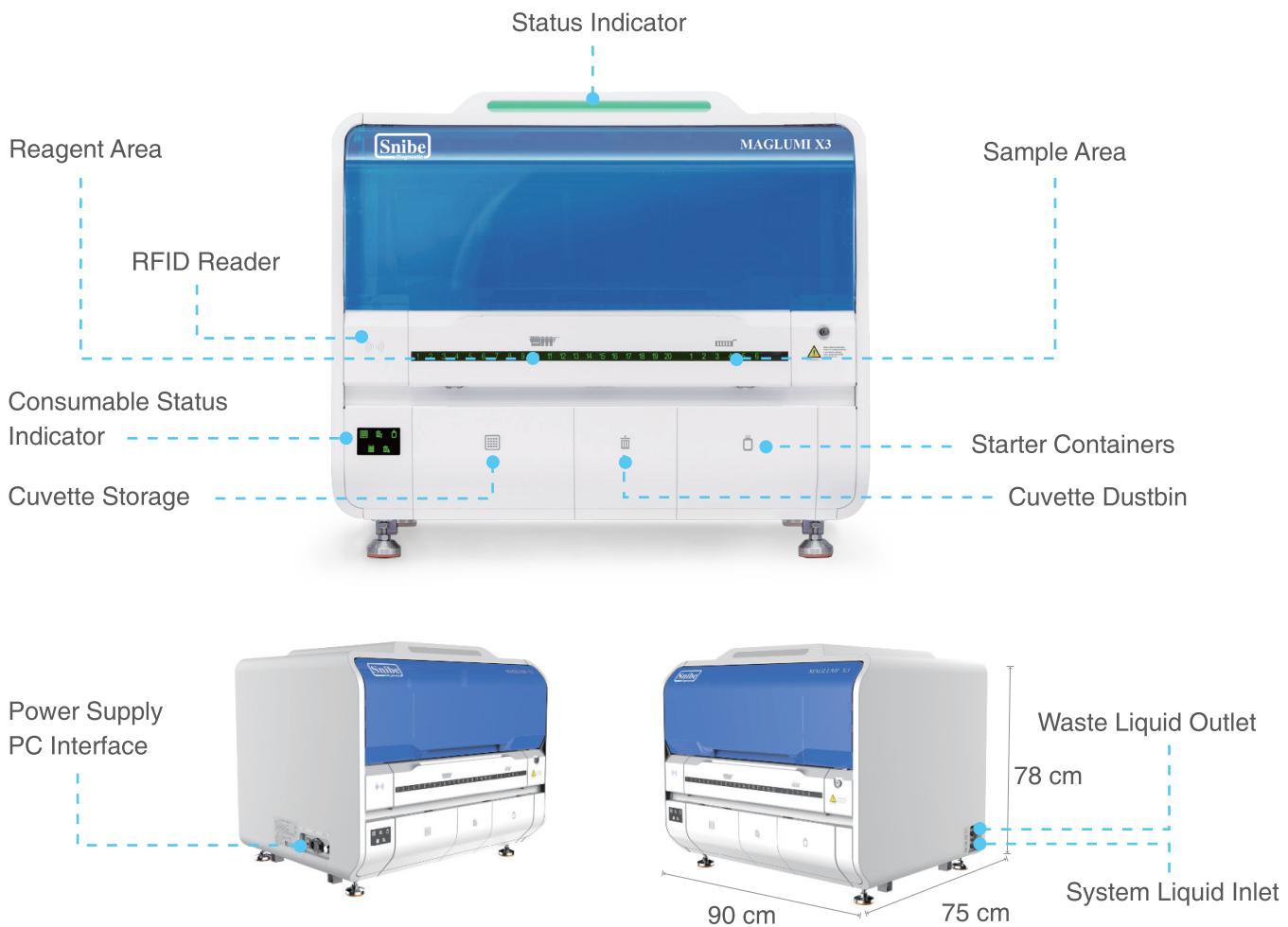


MAGLUMI® X3

Features & Benefits

- Small but powerful, the throughput is up to 200 tests/hour, and throughput per unit area is 294 T/h/m².
- Compatible with all MAGLUMI® reagents, one of the broadest automated CLIA test menus in the world (256 parameters).
- The latest intelligent washing technology and bidirectional temperature control measurement guarantee accurate and reliable results. The comprehensive advanced design of MAGLUMI® X3 ensures excellent performance.
- Single reaction cup can avoid light pollution and increase cuvette utilization, its integrated packaging can avoid the stuck of the cuvette and destroying the cuvette wall.
- No-pause loading/unloading of reagents/samples/reaction cups without waiting or interrupting tests.

Functional Modules



All Balanced and Strong



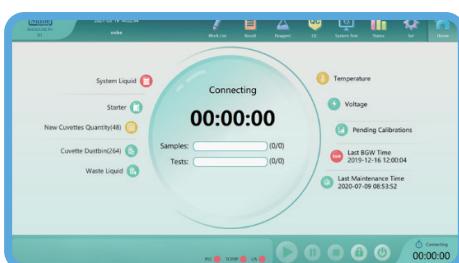
Reagent and Sample Loading

- 72 sample positions with barcode reader
- Sample in each position can be defined as STAT
- 20 reagent positions with RFID reader, 24h refrigerated at 10°C ($\pm 3^\circ\text{C}$)
- No-pause loading/unloading of reagents/samples/reaction cups without waiting or interrupting tests
- Reagent and sample indicator light available, real-time status monitoring, no need to check on the computer monitor



Single Reaction Cup with Integrated Packaging

- Single reaction cup can avoid light pollution and increase the cuvette utilization
- Single reaction cup with integrated packaging can avoid the stuck of the cuvette and destroying the cuvette wall



Intelligent UI Design

- New user-friendly UI design (Support multi-language)
- Real-time display for monitoring each test procedure, reagent, and consumable quantities, makes it convenient for the management
- Intelligent error recovery



Convenient Management of Analyzer Status

- Intuitive indicator light of reagent, sample, and consumable. No need to focus on the monitor, the status can be known by looking at the analyzer from a distance



All Balanced and Strong

Accurate Pipetting Technology

- Single needle coated with TEFLO to avoid carry-over
- Independent washing unit for the needle, with different washing modes depending on different assays
- Pipetting detection technologies include liquid level, clot, and crash detection to ensure accurate pipetting



Accurate Incubation Technology

- Single reaction cup with five-sided heating at 37.0°C ($\pm 0.3^\circ\text{C}$), ensuring accurate, quick and uniform incubation
- Incubating 80 cuvettes simultaneously
- Non-contact mixing with different modes before incubation, ensuring sufficient reaction



High-Efficiency Washing Technology

- Magnetic separation washing with 4-step independent units and non-contact vortex mixing can reduce non-specific binding
- Different mixing modes depending on different assays, ensuring a sufficient washing to improve sensitivity



Stable and Accurate Measuring Chamber

- ABEI-label exclusive proprietary technology
- PMT with heating and cooling function, ensuring the detection precision
- Independent measuring room, avoiding light cross-contamination

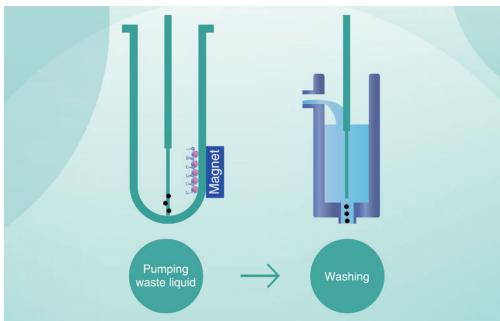


Outstanding Technologies



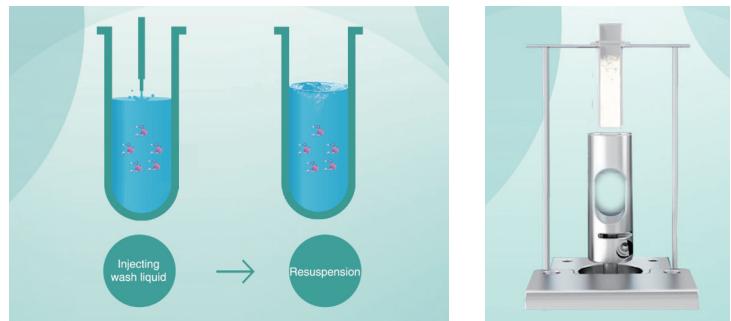
Exclusive Intelligent Washing Technology

Independent washing units for waste liquid needles



In the wash station, four waste liquid needles are equipped with four independent washing units to avoid the carry-over.

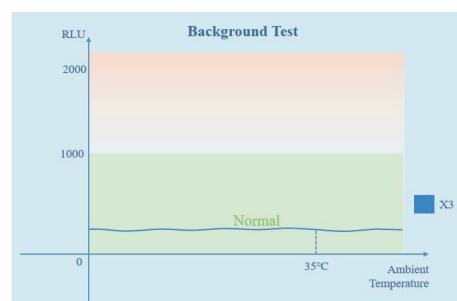
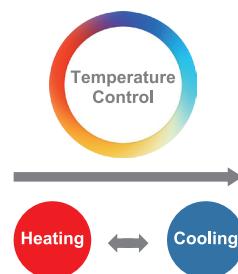
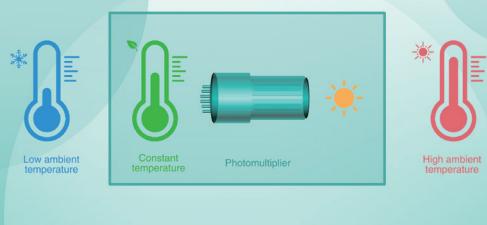
Magnetic separation washing and non-contact vortex mixing



Magnetic separation washing and non-contact vortex mixing units, with different mixing modes depending on different assays, ensure a sufficient washing to reduce the non-specific binding.

Stable and Accurate Measuring Chamber

Bidirectional temperature control technology of photomultiplier tube



Automatic temperature control in the measuring chamber can keep a stable background value, not affected by the ambient temperature, ensuring the accuracy of measurement results.



Top 10 Highlights of MAGLUMI® X3

- ① One of the highest space efficiency CLIA analyzers combines one of the broadest automated CLIA test menus.
- ② The throughput is up to 200 tests/hour (Throughput per unit area is 294 T/h/m²). No worry about the lack of laboratory space.
- ③ MAGLUMI® reagent kits (256 parameters) and consumables are compatible with MAGLUMI® X3.
- ④ The comprehensive advanced design of MAGLUMI® X3 ensures excellent performance.
- ⑤ Single reaction cup can avoid light pollution and increase cuvette utilization, its integrated packaging can avoid the stuck of the cuvette and destroying the cuvette wall.
- ⑥ No-pause loading/unloading of reagents/samples/reaction cups without waiting or interrupting tests.
- ⑦ Pipetting detection technologies include liquid level, clot, and crash detection to ensure accurate pipetting.
- ⑧ The latest intelligent washing technology and bidirectional temperature control measurement guarantee accurate and reliable results.
- ⑨ Intelligent UI design, user-friendly, easy, and convenient operation.
- ⑩ Intuitive indicator lights make users no need to check reagents and consumables frequently.

MAGLUMI® X3 Reagent and Consumables



Reagent Kit



Reaction Cup



Starter 1+2



Light Check



Wash Concentrate



System Tubing Cleaning Solution

Broad CLIA Test Menu with 260 Assays



Thyroid	Infectious Disease	Autoimmune	Tumor Markers	Glyco Metabolism					
TSH (3rd Generation) <small>FDA</small>	Hepatitis	Connective Tissue Disease	AFP	C-Peptide					
Total T4 <small>FDA</small>	HBsAg	ANA Screen	CEA	Insulin					
Total T3 <small>FDA</small>	Anti-HBs	ENA Screen	Total PSA	Proinsulin					
Free T4 <small>FDA</small>	HBeAg	Anti-dsDNA IgG	free PSA	Anti-IA2					
Free T3 <small>FDA</small>	Anti-HBe	Anti-Sm IgG	CA 125	ICA					
Tg (Thyroglobulin)	Anti-HBc	Anti-Rib-P IgG	CA 15-3	IAA (Anti Insulin)					
TGA (Anti-Tg)	Anti-HBc IgM	Anti-SS-B IgG	CA 19-9	Anti-GAD (GAD65)					
Anti-TPO	Anti-HCV	Anti-SS-A/Ro IgG (Ro60)	PAP	Anti-ZnT8					
TRAb	Anti-HAV	Anti-Jo-1 IgG	CA 50	*Glucagon					
TMA	HAV IgM	Anti-Scl-70 IgG	CA 242	*Adiponectin (ADPN)					
Rev T3	HEV IgG	Anti-Centromeres IgG	CYFRA 21-1	Gastrin-17					
T-Uptake	HEV IgM	Anti-Histones IgG	CA 72-4	*AFP-L3%					
Fertility									
FSH	Respiratory								
LH	2019-nCoV IgG	Anti-CCP	CK-MB	Digoxin					
Total β-HCG <small>FDA</small>	2019-nCoV IgM	*RF IgM	Troponin I	CSA (Cyclosporine A)					
PRL (Prolactin)	SARS-CoV-2 S-RBD IgG	*RF IgG	Myoglobin	FK 506 (Tacrolimus)					
Estradiol	SARS-CoV-2 Neutralizing Antibody	*RF IgA	hs-cTnI	*Sirolimus					
Testosterone	SARS-CoV-2 Ag	*RF Screen	hs-CRP	*Everolimus					
free Testosterone	<i>Mycoplasma pneumoniae</i> IgG	Celiac Disease							
DHEA-S	<i>Mycoplasma pneumoniae</i> IgM	tTG IgA	CK-MB	Hypertension					
Progesterone	<i>Chlamydia pneumoniae</i> IgG	tTG IgG	Troponin I	Direct Renin					
Unconjugated Estriol	<i>Chlamydia pneumoniae</i> IgM	DGP IgA	Myoglobin	Aldosterone					
17α-OH Progesterone	*Respiratory Syncytial Virus IgM	DGP IgG	hs-cTnI	Angiotensin I					
AMH	*Coxsackievirus B IgM	Autoimmune Liver Disease							
SHBG	*Adenovirus IgM	AMA-M2 IgG	NT-proBNP	Angiotensin II					
Androstenedione	*Influenza A Virus IgM	Endocrinology							
PIGF	*Influenza B Virus IgM	Anti-TPO	BNP	Cortisol					
sFlt-1	*Legionella pneumophila IgM	TGA (Anti-Tg)	D-Dimer	ACTH					
*Inhibin A	*Human Parainfluenza Virus IgM	TRAb	Lp-PLA2	Coagulation Markers					
*Inhibin B	Others				TAT				
Prenatal Screening					TM				
AFP (Prenatal Screening)	HIV Ab/Ag Combi	Anti-GAD (GAD65)	PIC						
free β-HCG	Syphilis	Anti-IA2	tPAIC						
PAPP-A	Chagas	ICA	*FDP						
Unconjugated Estriol	HTLV I+II	IAA (Anti Insulin)	Inflammation Monitoring						
*Inhibin A	<i>H. pylori</i> IgG	Anti-ZnT8	CRP						
TORCH			PCT (Procalcitonin)						
Toxo IgG	<i>H. pylori</i> IgA	Vasculitis							
Toxo IgM	<i>H. pylori</i> IgM	Anti-MPO IgG	IL-6 (Interleukin 6)						
Rubella IgG	*H. pylori Ag	Anti-PR3 IgG	SAA (Serum Amyloid A)						
Rubella IgM	Dengue Virus IgG	Anti-GBM IgG	TNF-α						
CMV IgG	Dengue Virus NS1	Antiphospholipid Syndrome							
CMV IgM	Dengue Virus IgM	Anti-Cardiolipin IgG	IgE	Hepatic Fibrosis					
HSV-1/2 IgG	Monkeypox Virus Ag	Anti-Cardiolipin IgM	CRP	Hyaluronic Acid (HA)					
HSV-1/2 IgM	*TB-IGRAs	*Anti-Cardiolipin IgA	PCT (Procalcitonin)	PIIIP N-P					
HSV-1 IgG	*Zika Virus IgG	*Anti-Cardiolipin	IL-6	C IV					
HSV-2 IgG	*Zika Virus IgM	Anti-β2-Glycoprotein I IgG	SAA	Laminin					
HSV-1 IgM	*Zika Virus NS1	Anti-β2-Glycoprotein I IgM	TNF-α	Cholylglycine					
HSV-2 IgM	*Chlamydia trachomatis IgA	Anti-β2-Glycoprotein I IgA	IgE	GP73					
*Toxo IgG Avidity	*Chlamydia trachomatis IgG	Anti-β2-Glycoprotein I	*VEGF	Neurology					
*CMV IgG Avidity	Bone Metabolism				NSE				
*Parvovirus B19 IgG	Calcitonin	β-CTx	S-100						
*Parvovirus B19 IgM	Osteocalcin	total P1NP	*β-Amyloid (1-40) CSF						
EBV	25-OH Vitamin D <small>FDA</small>	PTH (1-84)	*β-Amyloid (1-42) CSF						
Metabolism	Intact PTH	*BAP	*Phospho-Tau (181P) CSF						
GH (hGH)	Anemia		*Total-Tau CSF						
IGF-I	EBV EA IgG	Vitamin B12	*β-Amyloid (1-40) Plasma						
IGFBP-3	EBV EA IgA	Ferritin	*β-Amyloid (1-42) Plasma						
Kidney Function	EBV NA IgG	Folate (FA)	*Phospho-Tau (181P) Plasma						
Veterinary Testing	EBV NA IgM	EPO	*Phospho-Tau (217P) Plasma						
Neurology	EBV								
Autoimmune	EBV EA IgG	RBC Folate	*NfL Plasma						
Autoimmune	EBV EA IgA	*Anti-Intrinsic Factor	β ₂ -Microglobulin						
Autoimmune	EBV NA IgG	*Active B12	Albumin						
Autoimmune	EBV NA IgM	Drug Monitoring							
Autoimmune	Autoimmune				Digoxin				
Autoimmune	Autoimmune				CSA (Cyclosporine A)				
Autoimmune	Autoimmune				FK 506 (Tacrolimus)				
Autoimmune	Autoimmune				*Sirolimus				
Autoimmune	Autoimmune				*Everolimus				
Autoimmune	Autoimmune				*Mycophenolic Acid				
Autoimmune	Autoimmune				Coagulation Markers				
Autoimmune	Autoimmune				D-Dimer				
Autoimmune	Autoimmune				TAT				
Autoimmune	Autoimmune				TM				
Autoimmune	Autoimmune				PIC				
Autoimmune	Autoimmune				tPAIC				
Autoimmune	Autoimmune				*FDP				
Autoimmune	Autoimmune				Hypertension				
Autoimmune	Autoimmune				Direct Renin				
Autoimmune	Autoimmune				Aldosterone				
Autoimmune	Autoimmune				Angiotensin I				
Autoimmune	Autoimmune				Angiotensin II				
Autoimmune	Autoimmune				Cortisol				
Autoimmune	Autoimmune				ACTH				
Autoimmune	Autoimmune				Coagulation Markers				
Autoimmune	Autoimmune				D-Dimer				
Autoimmune	Autoimmune				TAT				
Autoimmune	Autoimmune				TM				
Autoimmune	Autoimmune				PIC				
Autoimmune	Autoimmune				tPAIC				
Autoimmune	Autoimmune				*FDP				
Autoimmune	Autoimmune				Inflammation Monitoring				
Autoimmune	Autoimmune				CRP				
Autoimmune	Autoimmune				PCT (Procalcitonin)				
Autoimmune	Autoimmune				IL-6 (Interleukin 6)				
Autoimmune	Autoimmune				SAA (Serum Amyloid A)				
Autoimmune	Autoimmune				TNF-α				
Autoimmune	Autoimmune				IgE				
Autoimmune	Autoimmune				*VEGF				
Autoimmune	Autoimmune				*PCT STAT-X™				
Autoimmune	Autoimmune				*CRP STAT-X™				
Autoimmune	Autoimmune				Hepatic Fibrosis				
Autoimmune	Autoimmune				Hyaluronic Acid (HA)				
Autoimmune	Autoimmune				PIIIP N-P				
Autoimmune	Autoimmune				C IV				
Autoimmune	Autoimmune				Laminin				
Autoimmune	Autoimmune				Cholylglycine				
Autoimmune	Autoimmune				GP73				
Autoimmune	Autoimmune				Neurology				
Autoimmune	Autoimmune				NSE				
Autoimmune	Autoimmune				S-100				
Autoimmune	Autoimmune				*β-Amyloid (1-40) CSF				
Autoimmune	Autoimmune				*β-Amyloid (1-42) CSF				
Autoimmune	Autoimmune				*Phospho-Tau (181P) CSF				
Autoimmune	Autoimmune				*Total-Tau CSF				
Autoimmune	Autoimmune				*β-Amyloid (1-40) Plasma				
Autoimmune	Autoimmune				*β-Amyloid (1-42) Plasma				
Autoimmune	Autoimmune				*Phospho-Tau (181P) Plasma				
Autoimmune	Autoimmune				*Phospho-Tau (217P) Plasma				
Autoimmune	Autoimmune				*NfL Plasma				
Autoimmune	Autoimmune				Drug Monitoring				
Autoimmune	Autoimmune				hs-cTnI STAT-X™				
Autoimmune	Autoimmune				*NT-proBNP STAT-X™				
Autoimmune	Autoimmune				*Myoglobin STAT-X™				
Autoimmune	Autoimmune				*D-Dimer STAT-X™				
Autoimmune	Autoimmune				*PCT STAT-X™				
Autoimmune	Autoimmune				*CRP STAT-X™				
Autoimmune	Autoimmune				Veterinary Testing				
Autoimmune	Autoimmune				cTSH				
Autoimmune	Autoimmune				cTT4				
Autoimmune	Autoimmune				cFT4				
Autoimmune	Autoimmune				*cCortisol				
Autoimmune	Autoimmune				*cACTH				
Autoimmune	Autoimmune								

Note: Product availability may vary by country and is subject to required regulatory approval

* Available soon

Technical Specifications

Chemiluminescence Principle

- Direct chemiluminescence
- Magnetic microbeads separation, fast and efficient
- Key technology of ABEI-label and magnetic microbead separating enhances stability and sensitivity of MAGLUMI® reagents

Main Features

- Throughput: up to 200 tests/hour
- Space occupied < 0.68 m², throughput of per unit area > 294 T/h/m²
- 24 hours ready to use

Reagent Loading

- 20 reagent positions on board with no-pause loading/unloading
- 24-hour refrigerated, constant at 10°C (±3°C) in reagent area
- RFID reading all information of reagent
- Indicator light available, real-time status monitoring

Sample Loading

- Up to 72 sample positions
- No-pause loading/unloading, STAT available
- Indicator light available, real-time status monitoring
- Barcode recognition: barcode reader available
- Types of sample tube: micro sample cup, blood collection tube, plastic test tube
- Sample editing mode: LIS connection, barcode recognition, manual editing

Reagent Features

- MAGLUMI® reagent kits are compatible with all MAGLUMI® analyzers
- Calibrators and internal controls included
- 10 points master curve, 2-points re-calibration
- RFID tag storing all informations of reagents
- Storage temperature: 2°C-8°C

Reaction System

- Single reaction cup with five-sided heating at 37.0°C (±0.3°C) incubation, ensuring accurate, quick and uniform incubation
- Incubating 80 cuvettes simultaneously
- Non-contact mixing with different modes before incubation, ensuring sufficient reaction

Sampling System

- Titanium needle for crushproof
- Teflon coated for carry-over prevention
- Liquid level detection, clot detection, prevent bubble interference, collision detection, wash automatically

Consumable System

- Single cup design, no-pause loading/unloading
- Starters: 230 mL of Starter 1 and Starter 2
- System liquid: Up to load 10 L at one time
- Indicator light monitors real-time consumable quantity

Washer

- 4-step washing technology
- Intelligent magnetic field design ensures excellent separation
- Three independent non-contact magnetic microbeads vortex cleaning technology
- Resuspension washing mode efficiently reduces non-specific binding and improves sensitivity
- Independent washing unit for waste liquid needle can completely wash without residue

Measuring Chamber

- High-sensitivity and low-noise photomultiplier tube (PMT)
- Heating and cooling bidirectional temperature control function included
- Original light pollution isolation technology prevents light pollution and ensures accurate and reliable results

Software System

- Friendly software UI design, humanized instrument operation procedure
- Real-time status display for each test procedure
- Self-recovery function makes sure the analyzer running smoothly without unnecessary manual intervention
- Bidirectional SnibeLis™ connection by TCP/IP and COM Port
- Supporting SnibeLinker™ remote diagnosis system

Dimensions & Weight

- Dimensions: 78 (h) × 90 (w) × 75 (d) cm
- Weight: 127 kg

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