

TECHNICAL SPECIFICATIONS

Test Principle	Latex immunoturbidimetry, immunoturbidimetry, colorimetry
Test Methods	Rate method, end point method, fixed-time method
Test Throughput	Constant speed: 400 T/H Optional ISE module: 400 T/H
Test Items	Up to 78 items at the same time
Sample Tray	90 positions (including sample, calibrator and control)
Reagent Tray	40 reagent positions for outer tray 40 reagent positions for inner tray Refrigeration: Peltier system
Sample Volume	1.50-50.0μL (0.1 μL increment)
Reagent Volume	R1: 10.0-450.0 μL R2/R3/R4: 0 or 10.0-450.0 μL (1 μL increment)
Minimum Reaction Volume	100.0 μL
Reagent Probe	Liquid level detection, reagent volume monitoring, and anti-collision
Stirring	Helical mixing
Reaction Temperature	Constant temperature: (37.0±0.2)°C
Cuvette	90 plastic cuvettes (5*5 mm)
Water Consumption	No more than 15 L purified water per hour
Maximum operating noise level	58 dB
Dimensions	1160 mm (L)*790 mm (W)*1140 mm (H)
Gross Weight	280 kg

CM-430
Clinical Chemistry Analyzer



TEST MENU

Liver Function		
TBA	GPDA	CHE
ALT	GLDH	ADA
AST	CG	5' -NT
ALP	ALB	LAP
GGT	TB	MAO
TP	DB	GR
AMM	PA	
Specific Protein and Rheumatism		
C3	IgM	ASO
C4	IgG	RF
CRP	IgA	CCP
hs-CRP	TRF	CSF
hs-CRP+CRP	Fer	

Blood Lipids and Cardiovascular		
TG	ApoA1	ACE
TCH	ApoB	Myo
HDL-C	ApoE	Lp(a)
LDL-C	HCY	Lp-PLA2
NEFA	IMA	

Trace Elements and Electrolytes		
Ca	CO ₂	Na
Mg	Fe	Cl
P	UIBC	K

Pancreatitis		
LPS		
AMY		

Venous Thromboembolism and Coagulation		
D-Dimer		

Renal Function	
CRE-E	CysC
Urea	mAlb
UA	NAG
β ₂ -MG	RBP

Myocardial Enzyme	
CK	LDH
CK-MB	HBDH
CK-MB mass	LDH1

Glycometabolism	
GLU-HK	HbA1c
GLU-OX	GA
FMN	LAC
D3-H	

Gastric Function	
PG I	
PG II	

Tumor	
SA	
AFU	

CM-430
Clinical Chemistry Analyzer

Your Reliable Laboratory Choice, Smart and Compact



Reliable, Powerful and Less Cost.

Upgraded version, reliable performance, and superior cost-effectiveness

Optimized temperature control and cleaning processes

Faster installation



1160 mm(L) × 790 mm(W) × 1140 mm(H)

Powerful technical specifications

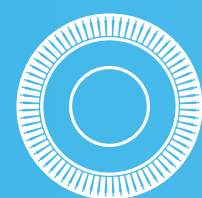
Consistent and reliable results

Simplified maintenance

Applicable to a full range of primary and routine testing scenarios

CM-430

Clinical Chemistry Analyzer



High-Efficiency Sample Processing

400 T/H

90 Sample positions

80 Reagent positions

- Optional ISE module: 400 T/H
- 90 plastic cuvettes

Accurate Sampling System

Minimum Reaction Volume **100** μ L

Highly-precise injector, internally and externally polished sampling probes, liquid level detection and bubble detection



Whole Blood Testing-HbA1c

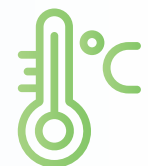


Direct testing with whole blood samples
Automatic on-board hemolysis and analysis
No manual pre-treatment required, ensuring higher accuracy
Simplified operation and improved testing efficiency

Air Bath Heating System

Constant-temperature air bath with fast heating shortens instrument warm-up time and is maintenance-free

The temperature control system utilizes dry heating to keep the reaction solution in the cuvette at a stable 37°C



6-Step Warm Liquid Washing



4-step washing + 2-step wiping for enhanced cleaning efficiency
Overflow prevention design avoids sample spillage and carryover issues
Intelligent 3D full-needle washing technology and automatic wash solution dilution
Cross-contamination rate < 0.01%

Intelligent Online Loading System

Support on-board reagent loading, convenient for reagent adding during tests without pause, improving work efficiency
Utilizes peltier cooling with a maintenance interval exceeding 3 years

