CHEMIA 100

Auto Chemistry Analyzer

Technical Specifications

Operation system

Computer：Built-in operation system - Linux
Screen：10.4 inch color touch screen
Data storage：100,000 results
Printer：Built-in and external printer
Others：Soft keyboard
Compatible with keyboard and mouse
Interface：
Ethernet, USB, RS232, VGA, HDMI, audio, etc.

Working condition

Power supply：
AC 100~240V, 50/60Hz, ≤ 150VA
Temperature：10-30°C
Humidity：≤85%
Dimension：
384mm*640mm*410mm (L*W*H)
Weight：30 Kg
Water consumption：≤ 1 L/H

Reagent/Sample handling

Reagent/Sample tray：
40 reagent positions
20 sample positions
Reagent volume：10-300 μL, step by 0.1 μL
Sample volume：2-70 μL, step by 0.1 μL
Reagent/Sample probe：
Liquid level detection,
vertical & horizontal collision
detectionand reagent inventory detection
Probe cleaning：
Auto interior and exterior wash

Optical system

Light source：Halogen tungsten lamp
Photometer：Maintenance-free photometer,
Post spectrophotometry by filters
8 Wavelengths：340nm, 405nm, 450nm,510nm, 546nm, 578nm, 630nm, 660nm
Absorbance：0-4.5 Abs

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Hepatic Panel		Immune Panel	
ALB	Albumin	C3	Complement C3
TP	Total Protein	C4	Complement C4
AST	Aspatate aminotransferase	IgA	Immunoglobulin A
ALP	Alkaline phosphatase	IgG	Immunoglobulin G
ALT	Alanine aminotransferase	IgM	Immunoglobulin M
TBA	Total bile acids	RF	Rheumatoid Factor
PA	Prealbumin	ASO	Ascorbic Acid Oxidase
GGT	γ-Glutamyl transferase	Cardiac Panel	
D-BIL	Direct bilirubin	LDH	Lactate dehydrogenase
T-BIL	Total Bilirubin	α-HBDH	α-Hydroxybutyrate dehydrogenase
CHE	Cholinesterase	CK	Creatine Kinase
ADA	Adenosine deaminase	CK-MB	Creatine Kinase Isoenzyme
5'-NT	5'-nucleotidase	MYO	Myoglobin
AFU	α-L-fucosidase	HCY	Homocysteine
Inorganic Panel		Renal Panel	
Ca2+	Calcium	CREA(OX)	Creatinine
Na+	Natrium	UA	Uric Acid
K+	Kalium	UREA	Urea
Cl-	Chlorine	CO2	Carbon Dioxide
Mg2+	Magnesium	β2-MG	β2 microglobulin
Cu	Cuprum	CysC	Cystatin C
Zn	Zinc	MALB	Microalbuminuria
P	Phosphorus	RBP	Human Retinol Binding Protein
Anemia Panel		Inflammation Panel	
Fe	Iron	CRP	C Reactive Protein
UIBC	Unsaturated iron Binding Capacity	HS-CRP	Hypersensitive-c-reactive-protein
Ferritin	Ferri-albumin	D-Dimer	D-Dimer
TRF	Transferrinv	SAA	Serum amyloid A protein
Lipid Panel		Diabetes Panel	
TG	Triglyceride	GLU (OX)	Glucose
CHOL	Total Cholesterol	HBA1C	Glycated Hemoglobin
HDL-C	HDL-Cholesterol	G-6-PD	Glucose-6-Phosphate
LDL-C	LDL-Cholesterol	β-HB	β-Hydroxybutyrate
APOA1	Apolipoprotein A1	FUN	Fructosamine
APOB	Apolipoprotein B	Pancreatitis Panel	
Lpa	Lipoprotein (a)	α-AMY	α-Amylase

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CHEMIA 100

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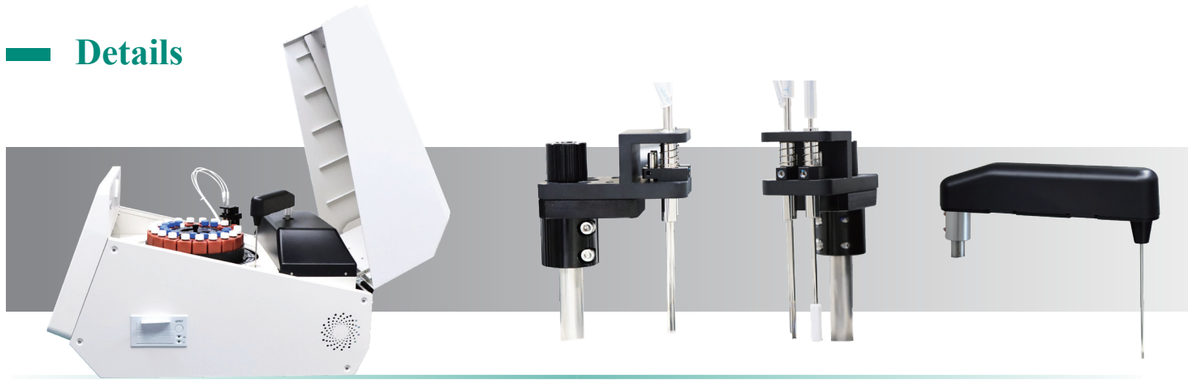
Details



Features

Convenient

- Built-in 10.4-inch color touch screen
- Built-in printer
- Solid heating, maintenance-free
- Removable reagent disk

Precision

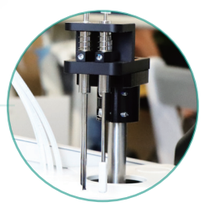
- Reagent inventory monitoring
- Auto reagent refrigeration
- Accurate probe pipetting technique
- Auto probe washing reduces carry-over
- Simultaneous dual-wavelength measuring...

Economical

- Reaction volume: only 150 μL
- Lower water consumption: ≤1L/H
- Halogen lamp up to 2000H
- Reusable cuvette
- Fewer consumable

Integrated

- Small footprint on the desk
- Large reagent and sample compartment
- Built-in computer with touch screen
- Complete solution with reagents
- Powerful data transmission with USB, Ethernet, RS232...



Introduction

CHEMIA 100 is a “Mini-size”, fully-auto bench-top chemistry analyzer, the throughput up to 120 tests per hour. It is perfect for low-volume laboratories or as a backup analyzer for mid-to-high volume laboratories.

» The low cost of ownership of CHEMIA 100 auto chemistry analyzers help laboratories achieve their goals and manage resources effectively without compromising quality.

» Standardize processes. CHEMIA 100 auto chemistry analyzers features standardized test menus, assay protocols, instrument processes and reference ranges that reduce operator variation and provide consistent quality results.

» System function

General	**Benchtop, automatic, random, access, STAT priority**
Throughput	**Up to 120 tests per hour**
Principle	**Colorimetry and turbidimetry**
Methodology	**End-point, fixed-time, kinetic, etc.**
Programming	**Open or closed system on demand**

» Reaction system

Reaction tray	**81 reusable cuvettes, auto cuvette washing station**
Reaction volume	**150 - 750 μL**
Reaction temperature	**37 ± 0.1°C**
Heating method	**Solid heating**

» Calibration and control

Calibration	**K-factor, Linear, Spline, Logit-Log 4P, Logit-Log 5P, Exponential,Polynomial**
Control	**Westgard multi-rule, Cumulative sum , check, Twin plot, L-J graph**