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Brand positioning:

Analytical instrument manufacturer, laboratory solution provider!

Company introduction:

Shanghai Yuke Industry Co., Ltd. was established in 1999. It is a leading manufacturer of analytical instruments and laboratory equipment in China, and is known as a high-quality instrument manufacturer and perfect service provider. Committed to the research and innovation of scientific instruments and analytical methods in the food and pharmaceutical industries, in order to promote green food and health drugs, develop and produce analytical measuring instruments, and provide technical workers with application methods and comprehensive solutions.

Yuke professional R&D laboratory instruments include: Thermal Analyzer (DSC/TGA/STA), Microwave Digester, Dissolution system, Melting point meter, Polarimeter, Refractometer, Density meter, Turbidity meter, Dropping point & Softening point tester, Micro heating table, Potentiometric Titration, Moisture meter, Osmometer, Viscosity meter, Hardness tester, Flash point tester. They are widely used in pharmaceutical and food quality control, education and research, environmental science, chemical engineering and other fields.

Yuke has established strict working standards and technical standards in R&D, parts procurement, standardized manufacturing, and production inspection. Yuke has obtained CE certification, TART certification, ISO quality management system certification, more than 10 software copyrights and multiple patents to ensure that each instrument has stable performance and excellent quality. Yuke headquarters was established in Shanghai, China, with 15 sales branches in China, sales agents in more than 10 overseas countries, and 2 production plants. At the same time, we have a top R&D team returned from Europe and America, cooperate with our superb manufacturing team, professional sales team and dedicated service team, working together to provide customers with high-tech, high-quality products and efficient, convenient, Comprehensive pre-sales and after-sales professional services.

At present, Yuke's products have been exported to more than 50 countries including the United States, Germany, France, Malaysia, Vietnam, India, Italy, etc. We are committed to participating in Arablab, PICCTON, Analytica Russia, Lab Africa, Analytica Germany, Analytica Latin America and other exhibitions. Open up different markets, and enjoy a good reputation with reliable quality, reasonable prices and good service to win a large market share.

Yuke is committed to providing customers with a better user experience and hopes to become a world-class scientific instrument manufacturer and laboratory solution provider!











CATALOG

1. Melting point Apparatus	3- 7
2. Automatic Polarimeter	8- 11
3. Automatic Refractometer	12- 14
4. Density Meter	15- 16
5. Turbidty Meter	17
6. Dropping Point and Softening Point Tester	18- 19
7. Micro-heating Stage	20- 21
8. Polarizing microscope (specially equipped with micro-hot stage)	22- 23
9. Fully Automatic Potentiometric Titrator	24 - 25
10. Multi-channel Automatic Potentiometric Titrator	26 - 28
11. Moisture Analyzer	29 - 31
12. Thermal Analyzer (DSC/TGA/STA)	32 - 33
13. Spectrophotometer	34 - 36
14. Microwave Digestion Instrument	37 - 39
15. Dissolution Tester	40 - 41
16. Dissolution Sampling System	42 - 45
17. Freezing Point Osmometer	46 - 47
18. Viscosity Meter	48 - 53
19. Rotational Viscometer	54 - 58
20. Fully Automatic Dry Laser Particle Size analyzer	59 - 61
21. Intelligent Hardness Tester	62
22. Open flash point tester	63 - 67
23. Closed Flash Point Test Device	68 - 72



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1. Melting point Apparatus

1.1 Smart Series - Automatic melting point Apparatus





Brief Introduction

Melting point meter is an instrument for measuring the melting point of a substance. The melting point of a substance refers to the temperature at which the substance changes from solid to liquid. In the field of organic chemistry, the determination of the melting point is the basic means to identify the nature of a substance, and also one of the important methods for the determination of purity.

Shanghai Yuke automatic melting point instrument series perfectly combine high-precision temperature control technology and high-definition video camera technology, not only to provide users with accurate, stable and reliable test results, but also to bring users efficient and convenient test experience. High-definition video can easily and clearly see the whole process of sample melting, automatic detection real-time Tupu display, convenient for users to accurately measure the sample melting point and melt distance.

Fields of use

- 1.Melting point meter plays an important role in chemical industry and medical research. It is a necessary instrument for the production of drugs, spices, dyes and other organic crystal substances. Corresponding enterprises (pharmaceutical related enterprises, chemical enterprises)
- 2.Universities and Research Institutes (chemical and pharmaceutical related schools and research institutes)
 3.Government supervision departments (Entry-Exit Inspection and Quarantine Food and Drug Administration,
 Grain Administration, etc.)

The main features

- 1. HD recording function, easy to observe and look back.
- 2. Large temperature range from room temperature to 420 $^{\circ}$ C.
- 3. The heating rate is adjustable from 0.1° C/Min to 20° C/Min without pole.
- 4. Enlarge HD color screen window.
- 5. Four samples can be determined simultaneously.
- 6. Printer can be connected to realize real-time data printing and historical data printing.
- 7. Comply with Pharmacopoeia test methods, including European Pharmacopoeia, United States Pharmacopoeia and Chinese Pharmacopoeia.
- 8. Compliance with 21Smart Part 11, audit trail, pharmacopoeia and electronic signature.



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Model	Smart-M30	Smart-M50	Smart-M70	Smart-M80	Smart-M90	Smart-M130
Temperature	RT -360℃	RT -420℃	RT -360°C	RT -400°C	RT -420℃	RT -420℃
range						
Detection	Semi-	Semi-	Automatic	Automatic	Automatic	Automatic
method	automatic	automatic	with manual	with manual	with manual	with manual
Processing			4 pcs p	er batch		
capacity				1		
Test mode	Melting point	Melting point	Melting point	Melting point	Melting point	Melting / boiling/ cloud/ slip point
Temperature			0.0	01℃		
resolution						
Heating rate				20°C		
			(200 gears, step		-	
Temperature control mode	PID p	orecise temperat	ure control, full	y enclosed desig	gn of the furnac	e body
Accuracy	±0.3℃	±0.2℃	±0.3℃	±0.2℃	±0.2℃	±0.2℃
	(<250℃)	(<250℃)	(<250℃)	(<250℃)	(<250℃)	(<250℃)
	±0.5℃	±0.4℃	±0.5℃	±0.4℃	±0.4℃	±0.4℃
	(>250℃)	(>250℃)	(>250℃)	(>250℃)	(>250℃)	(>250℃)
Repeatability		Melting po	oint repeatabilit	y was \pm 0.1 $^{\circ}$ C a	t 0.1℃/Min	
Magnification		51		mes	•	
Display method		10	.4 inch FTF colo	r touch color scr	reen	
Data storage	32G	64G	32G	64G	128G	128G
Graph save	200 units	400 units	200 units	400 units	600 units	600 units
Мар	-	-	Any zoom	Any zoom	Any zoom	Any zoom
User				4 authority	7 7 200	
management			1 = 0 / = 0 1 0 1	,		
Audit trails			Y	ES		
21 Smart part				ES		
11						
Custom method libraries			Υ	ES		
Export file verification MD5				ES		
Printing				erial port		
Export format				EXCEL		
Data interface		US	SB ,RS232, SD,W		disk	
Small capillary				1.3mm		
size			ID:Φ1	1.1mm		
Large capillary	-	-	-	-	-	OD: Ф4.2mm
size						ID:Ф3.8mm
Packing Size)*370mm		
Power supply				0/60Hz,120W		
Gross Weight			6	5kg		



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1.2 YK Series - Melting point Apparatus



Model	YK30	YK40	YK50	YK60	YK70	YK80	YK90
Temperature range	RT -350℃	RT -350℃	RT -400°C	RT -400°C	RT -350℃	RT -400°C	RT -420℃
Detection	Manual	Automatic	Manual	Automatic &	Automatic &	Automatic &	Automatic &
method		& Manual		Manual	Manual	Manual	Manual
Processing				4 pcs per batcl	n		
capacity							
Test mode				Melting point			
Temperature				0.1℃			
resolution							
Heating rate			0.1℃20℃,(essly adjustable	<u>-)</u>	
Accuracy				\pm 0.3 $^{\circ}\mathrm{C}$ (<250 $^{\circ}\mathrm{C}$,		
		±0.5℃ (>250℃)					
Repeatability		Melting point repeatability was \pm 0.1 $^{\circ}\mathrm{C}$ /Min					
Exploration mode	NO	NO	NO	YES	NO	YES	YES
Video function	NO	NO	video, graph	NO	video, graph	video, graph	video, graph
Video playback	NO	NO	YES	NO	NO	YES	YES
Magnification	7 times						
Display method			T	FT HD color scre	een		
Data storage	8G	-	8G	-	8G	16G	32G
Graph save	-	10 units	-	10 units	10 units	20 units	80 units
User management	NO	YES, 4units	YES, 8 units	YES, 8 units	YES, 8 units	YES, 10 units	YES, 20 units
Data saving	200 units	200 units	400 units	400 units	400 units	600 units	1000 units
Experimental scheme	-	-	-	-	-	40 units	100 units
21 Smart part				NO			
11				NO			
Data interface				USB , RS232, RJ	45		
Capillary size		ΟD· ψ	1.4mm	000 , 110202, 110	1.5	OD: Φ1.4mm	
55pmar y 5126			1.2mm			ID: Φ1.0mm	
Packing Size				430*320*370m	m		
Power supply				-230V,50/60Hz,			
Gross Weight				6.5 kg			



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1.3 Smart-MY series & YKY Series - Grease/Oil melting point apparatus (for block and paste)



Brief Introduction

Automatic grease melting point meter can quickly and accurately determine the melting point of various block and paste samples. 3 samples can be measured simultaneously. Through the digital optical sensor, the whole experiment process is digitized and transmitted to the computer, the intelligent software can automatically judge the melting point of oil, eliminate the subjective error of judging the melting point, and reduce the labor intensity of the experimenter. The instrument has its own heating system, which can ensure a stable heating rate. The platinum temperature sensor has the advantages of fast response and high accuracy compared with the traditional method of using mercury thermometer.

Stander

In line with SNT0801.5-2015, GB/T24892-2010, GBT127662008 standards

The main features

- 1: With refrigeration system, 3 samples can be processed at a time;
- 2: One-key automatic detection function, effectively avoid human error;
- 3: PID precise temperature control;
- 4: Can record and playback the experiment process, not missing every detail;
- 5: In full compliance with the national standard and ISO oil melting point determination method

Model	YKY30	YKY50	YKY80	YKY90			
Temperature	0-350℃	0-100℃	0-400℃	0-100℃			
display range							
Temperature	RT-350°C	(RT -20)-100°C	RT-400°C	(RT -20)-100°C			
control range							
Temperature		0.1℃					
resolution							
Heating gradient	0.1℃-20℃/	0.1℃-10℃/	0.1℃-20℃/	0.1℃-10℃/			
	minutes	minutes	minutes	minutes			
Cooling rate	Wind cooling	Semiconductor	Wind cooling	Semiconductor			
		cooling		cooling			
Temperature	±0.3℃	±0.3℃	±0.2℃	±0.2℃			
accuracy	(<100℃)	(<100℃)	(<100℃)	(<100℃)			
	±0.5℃		±0.4℃				
	(>100℃)		(>100℃)				



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Repeatability	Melting point repeatability was $\pm 0.1^\circ \!\!\! \mathrm{C}$ at $0.1^\circ \!\!\! \mathrm{C}$ /Min				
Detection method	Manual	Semi-automatic	Fully automatic	Fully automatic	
			(compatible with	(compatible with	
			manual)	manual)	
Video function	Photo	Photo and video	Photo and video	Photo and video	
Data preservation	200	400	600	1000	
Storage	16G	32G	16G	32G	
Display method	TFT high-definition true color screen				
Computer interface	USB, RS232, network port				
Capillary	OD:1.3mm,ID:1.1mm,Length:100mm (Single and double opening)				
	OD:	4.0mm,ID:3.8mm,Leng	th:800mm (Large capil	lary)	
Processing capacity		3 pcs pe	er batch		
Number of user	-	8	10	200	
management					
Video playback	-	YES	YES	YES	
User Management	=	YES	YES	YES	
Power supply		AC 220V 50,	/60Hz 120W		
Packing size		430*320	*370mm		
Gross weight		6.5	Skg		

Mark:

- 1. The Specification data are same for Smart-MY series with YKY series.
- 2. Smart-MY series comply with 21 Smart PART 11 but YKY series Not.
- 3. Smart-MY series with 10.4 inch FTF color touch color screen, YKY series use TFT HD color screen.

1.4 YKX Series - Micro Melting point Apparatus

Pictures	Name	Model	Temperature range	Detection method	Storage capacity (support)	Heating rate	Data interface	Fan	Can be equipped with printer
		JHX-4	Room temperature350°C	Microscopic visu	ual inspection			NO	NO
	Micro JHX-4Plus melting point instrument JHX-5	JHX-4Plus	Room temperature-400°C	Microscopic visu	ual inspection	7-13-13-13-13-13-13-13-13-13-13-13-13-13-	120000	YES	YES
		Room temperature350°C	Micros copic video		(0.1-10) °C/Min	RS232 -	NO	NO	
		JHX-5Plus	Room temperature400°C	Microscop	ic video		-	YES	YES



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2. Automatic Polarimeter

2.1 Smart Series - Digital Polarimeter



Brief Introduction

Shanghai Yuke Smart-P series polarimeter is an instrument for measuring the rotation of substances. The concentration, content and purity of the substance can be determined by spectrophotometry. Shanghai Yuke Automatic Polarimeter has built-in Peltier precise temperature control system, which can meet users' requirements for testing at constant temperature. The built-in automatic calibration program is optional, and the standard automatic calibration tool can be automatically calibrated from -45 degrees to +45 degrees, which fully meets the user's demand for controllable measurement accuracy in daily operation. The multi-level authority management of Shanghai Yuke automatic polarometer can meet the audit tracking.

Fields of use

- 1. Automatic polarimeter is widely used in medicine, food, organic chemical industry and other fields.
- 2. Agriculture: analysis of ingredients such as agricultural antibiotics, agricultural hormones, microbial pesticides and starch content of agricultural products.
- 3. Medicine: analysis of antibiotics, vitamins, glucose and other drugs, pharmacological study of Chinese herbal medicine.
- 4. Food: sugar, monosodium glutamate, soy sauce and other production process control and finished product inspection, food sugar content determination.
- 5. Petroleum: analysis of mineral oil, monitoring of petroleum fermentation process.
- 6. Fragrance: analysis of essential oils.
- 7. Health services: analysis of clinical diabetes in hospitals

The main features

- 1: Built-in Peltier temperature control, improve accuracy and stability;
- 2: there are rotation/specific curl/concentration/sugar degree and custom mode;
- 3: LED cold light source instead of the traditional sodium light lamp and halogen tungsten lamp;
- 4: Compliance with 21Smart Part 11 audit trail, pharmacopoeia and electronic signature;
- 5: Support network printing, support data statistical retrieval;
- 6: Multi-level authority management, authority can be freely configured;
- 7: 10 inch touch color screen, user-friendly operation interface;
- 8: The system comes with automatic calibration system.
- 9: Comply with GLP GMP certification



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rechnical paramete						
Model	Smart-P610	Smart-P630	Smart-P910	Smart-P930		
Measurement	Rotation, spec	ific curl, concentration	on, sugar content a	nd custom formula		
mode						
light source	LED c	old light source + hig	h precision interfer	rence filter		
Working		589	9.3nm			
wavelength						
Test function	S	ingle, multiple and c	ontinuous measure	ement		
Measuring range		Optical ro	tation ± 90 °			
		Sugar ±	259 ° for Z			
Minimum	0.001°	0.001°	0.001°	0.0001°		
reading		(0.0001°	(0.0001°			
		Optional)	Optional)			
Accuracy	± 0.004 °	± 0.002 °	± 0.002 °	± 0.002 °		
Repeatability		andard deviation s)		(Standard deviation s)		
Repeatability	•	2° (Optical rotation)		0.001° (Optical rotation)		
Peltier		10°C-60°C	10 °C-60°C	10°C-60°C		
Temperature	10 0 30 0	10 0 00 0	10 0-00 0	10 0-00 0		
control range						
Temperature	0.1°C	0.01°C	0.01°C	0.01°C		
resolution	0.1 C	0.01 C	0.01	0.01 C		
	±0.1°C	±0.03℃	±0.03℃	±0.03℃		
Temperature	±0.1℃	±0.03 €	±0.03 €	±0.03 €		
control accuracy	O in all TET called	* - · · - · - · - ·	10.4 in all TI	T		
Display method	8-inch TFT color touch screen 10.4-inch TFT color touch screen					
Standard test	200mm,100mm ordinary type,100mm temperature control type					
tube	(optional Hastelloy alloy temperature control tube of various lengths)					
Transmittance	0.1%	0.01%	0.01%	0.01%		
data storage	32G	64G	64G	128G		
Automatic	YES	YES	YES	YES		
calibration		(standard with a	(standard with	(standard with 6pcs		
		standard pipe)	2pcs standard	standard pipe)		
			pipe)			
21 Smart PART		•	YES			
11						
Audit trail		•	YES			
Electronic		•	YES			
signature						
Multi-function		,	YES			
search						
Print	General-purpose	Gene	ral-purpose printer	, WiFi printing		
	printer, WiFi printing	(Standard with a HI	printer)		
Method library	YES	YES	YES	YES		
cloud service	Optional	YES	YES	YES		
MD5 code	Optional	YES	YES	YES		
		-	-			
verification				1		
verification Custom formula	Optional	YES	YES	YES		
Custom formula	Optional	YES YES / Four-level au	YES	YES		
	Optional		YES Ithority manageme	1		



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multiple file formats					
Communication Interface		USB, RS232	, VGA, Ethernet		
Instrument level	0.01 level	0.01 level	0.01 level	0.01 level	
Other options	Each capacity 50mm ar connection, general pu			e, mouse, keyboard	
Power supply		220V \pm 22V, 50Hz \pm 1Hz, 250W			
Weight	30kg				
Packing Size		820*47	′5*465mm		



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2.2 YK Series - Automatic Polarimeter



Model	YK-P200	YK-P300	YK-P400	YK-P600		
Measurement	Optical ro	otation, specific rot	ation, concentration	, sugar content		
mode						
light source	LED o	cold light source + h	igh precision interfe	rence filter		
Working		589.3nm		Standard 546, 589nm,		
wavelength				Optional: 405nm,		
				436nm, 546nm, 578nm,		
				689nm, 633nm		
Measuring range	(9.99°, Sugar ± 259	° tor Z		
Minimum reading			0.001°			
Indication error		•	optical rotation≤+45	•		
			<-45° or optical rotat	·		
Repeatability		standard deviation s) 0.002° (optical rotation)				
Peltier	NO	15℃-35℃	15℃-45℃	15℃-45℃		
Temperature						
control range						
Temperature	NO		±0.2℃			
control accuracy						
Display method			color touch screen			
Standard test tube	=	200mm,100mm c	ordinary type,100mn	n temperature control type		
The minimum light			1%			
transmittance of						
the sample		i	1			
Automatic	-	-	-	Yes		
calibration						
Instrument level	-	-	-	0.02 level		
Communication		US	SB, RS232			
Interface						
21 Smart PART 11			NO			
Data saving	1000 units					
Power supply		220V \pm 22V,	50Hz \pm 1Hz, 250W			
Weight			30kg			
Packing Size	820*475*465mm					



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3. Automatic Refractometer

3.1 Smart Series - Digital Refractometer



Brief Introduction

Smart-R is equipped with a high performance linear CCD sensor. Through high-speed and high precision signal acquisition, analysis and processing technology, the Smart-R is equipped with a semiconductor Peltier super temperature control system. It can measure the refractive index (Nd) and the mass fraction of sugar solution (Brix) of transparent, translucent, dark and viscous liquid with high accuracy and efficiency.

Fields of use

Automatic refractometer is widely used in petroleum industry, oil industry, pharmaceutical industry, food industry, daily chemical industry, sugar industry, etc. It is also one of the commonly used equipment in schools and related scientific research units.

Food industry: quality control of raw materials, intermediates and final products; The concentration of dry matter, solids, and sugars; Purity control for products of sugar, dessert, beverage, dairy, chocolate and coffee, oil and fat industries.

Pharmaceutical industry: determination of solid content in blood and urine; Purity control.

Cosmetics industry: determination of refractive index of essential oils and spices; Determine the fatty acid content of soap and fragrance ingredients.

Chemical and petrochemical industries: determination of refractive index of raw materials and analytical reagents; Purity control; Determination of refractive index of petroleum products; Determine the concentration of the cooled lubricating oil.

The main features

- 1: Built-in Peltier temperature control, improve accuracy and stability;
- 2: China's first double temperature control, sapphire prism;
- 3: LED cold light source instead of the traditional sodium light lamp and halogen tungsten lamp;
- 4: Compliance with 21Smart Part 1 audit trail, pharmacopoeia and electronic signature;
- 5: Support network printing, support data statistical retrieval;
- 6: Multi-level authority management, authority can be freely configured;
- 7 "touch color screen, user-friendly operation interface;
- 8: The whole machine has passed TART and CE certification.



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rechnical parameters	•					
Model	Smart-R200	Smart-R300	Smart-R500	Smart-R600		
Range		1.30000-1	70000(nD)			
Resolution	0.0001(nD)	0.0001(nD)	0.00001(nD)	0.00001(nD)		
Precision	±0.0002	\pm 0.0002	\pm 0.00003	±0.00002		
Brix range		0-100	%(Brix)			
Brix accuracy	\pm 0.1%(Brix)	\pm 0.1%(Brix)	\pm 0.05%(Brix)	\pm 0.01%(Brix)		
Test mode	Refractive index /	Refractive index /	Refractive index /	Refractive index /		
	sugar content or	sugar content or	sugar content /	sugar content /		
	customized	customized	honey moisture /	honey moisture /		
			salinity or	salinity or		
			customized	customized		
Temperature control method	No	Built-in Peltier	Built-in Peltier	Built-in Peltier		
Temperature	Room temperature	5°C-65°C	5℃-65℃	5℃-90℃		
control range	·					
Temperature	Room temperature	±0.03℃	±0.02℃	±0.01℃		
control stability						
light source	LED					
wavelength	589nm					
Prism		sap	phire			
Sample cell	stainless steel	stainless steel	Hastelloy	Hastelloy		
Detection method		High-resolut	ion linear CCD			
Display method		7 inch FTF col	or touch screen			
data storage	32G	32G	32G	64G		
Output method		USB, RS232, RJ4	5, SD card, U disk			
User Management		Yes/four-level autl	nority management			
21Smart PART 11		Υ	ES			
Audit trail		Υ	ES			
Electronic signature		Υ	ES			
Custom method		Υ	ES			
library						
Export file to verify		Y	ES			
high-level						
protection MD5						
WIFI printing			ES			
Export in multiple		PDF 8	& Excel			
file formats						
Packing Size)*340mm			
Power supply			/ 50Hz			
Gross Weight	7.15kg					



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3.2 YK Series - Automatic Refractometer



YK series automatic refractometer is equipped with high-performance linear array CCD photosensitive components, through high-speed, high-precision signal acquisition and analysis and processing technology, equipped with semiconductor Peltier super temperature control system. It can efficiently and accurately measure the refractive index (nD) of transparent, translucent, dark, viscous and other liquids and the mass fraction of sugar solution (Brix).

Application field:

Fully automatic refractometer is widely used in petroleum industry, oil industry, pharmaceutical industry, food industry, daily chemical industry, sugar industry, etc. It is also one of the commonly used equipment in schools and related scientific research units.

Model	YK200	YK300	YK500	YK600
Range		1.30000-1.	.70000(nD)	
Resolution	0.0001(nD)	0.0001(nD)	0.00001(nD)	0.00001(nD)
Precision	\pm 0.0002	±0.0002	±0.00003	\pm 0.00002
Brix range		0-1009	%(Brix)	
Brix accuracy		\pm 0.19	%(Brix)	
Temperature	-	Built-in Peltier	Built-in Peltier	Built-in Peltier
control method				
Temperature	-	5°C-65°C	5℃-65℃	5℃-90℃
control range				
Temperature	-	±0.03℃	±0.02℃	±0.01℃
control stability				
light source			ED .	
wavelength		589	nm	
Prism			ohire	
Sample cell		stainle	ss steel	
Detection method	linea	r CCD	High-resoluti	on linear CCD
Display method		7 inch FTF colo	or touch screen	
Output method		USB,	RS232	
21Smart PART 11		N	0	
Packing Size		440*400	*340mm	
Power supply		220V ,	/ 50Hz	
Gross Weight		7.1	5kg	



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4. Density meter



Brief Introduction

The Smart-D50/D70 automatic densitometer is based on the principle of **U-tube oscillation method**, which perfectly combines Peltier's precise temperature control technology with high-definition video camera technology to not only provide accurate, stable and reliable test results, but also provide users with efficient and convenient test experience. High-definition video can see whether there is bubble influence in the sample, using pulse excitation, high-precision detection technology, convenient for users to accurately and quickly measure the sample density and density related parameters.

Fields of use

- 1.Pharmaceutical industry: quality control of API and pharmaceutical intermediates, determine the specific gravity and density of pharmaceutical agents;
- 2.Flavor flavor: food flavor, daily flavor, tobacco flavor, food additive raw material verification;
- 3.Petrochemical industry: crude oil API index, gasoline, diesel density detection, additive mixing ratio process monitoring;
- 4.Beverage industry: measurement of sugar concentration, alcohol concentration, beer quality control, soft drink quality control;
- 5. Food industry: grape juice, tomato juice, high fructose corn syrup, vegetable oil and soft drinks processing quality control;
- 6.Brewing industry: liquor, yellow rice wine, red wine, beer, fruit wine, rice wine and other alcohol concentration detection;
- 7.Chemical industry: chemical urea, detergent, glycol, acid and alkali and ammonia concentration test;
- 8. Machinery manufacturing: metal processing, machine manufacturing, automotive industry, electronic and electrical cleaning agent detection;
- 9.Inspection institutions: standard laboratories, statutory testing institutions, third party detection of liquid density measurement.

The main features

- 1. Automatic integration to realize the function of one-key measurement.
- 2. Built-in Parpaste temperature control, improve accuracy and stability.
- 3. Avoid bubbles in HD video.
- 4. Data can be printed directly through the printer.
- 5. Compliance with 21Smart Part 11, audit trail, pharmacopoeia and electronic signature.



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Test mode Measuring range Resolution Repeatability Accuracy Injection method With Video	\pm 0.0001 g/cm3 \pm 0.0001 g/cm3 \pm 0.0003 g/cm3	ohol concentration and custo $0 \text{ g/cm3 to 3 g/cm3}$ $\pm 0.00001 \text{ g/cm3}$ $\pm 0.00005 \text{ g/cm3}$ $\pm 0.00008 \text{ g/cm3}$	om formula ± 0.00001 g/cm3 ± 0.00005 g/cm3			
Measuring range Resolution Repeatability Accuracy Injection method With Video	\pm 0.0001 g/cm3 \pm 0.0001 g/cm3 \pm 0.0003 g/cm3	0 g/cm3 to 3 g/cm3 ±0.00001 g/cm3 ±0.00005 g/cm3	\pm 0.00001 g/cm3			
Repeatability Accuracy Injection method With Video	\pm 0.0001 g/cm3 \pm 0.0003 g/cm3	±0.00005 g/cm3	<u> </u>			
Accuracy Injection method With Video	\pm 0.0003 g/cm3	<u>.</u>	+0.00005 g/cm3			
Injection method With Video	•	\pm 0.00008 g/cm3	_ 0.00005 8/ 0.115			
With Video	Auto		\pm 0.00008 g/cm3			
		omatic (compatible with mar	nual)			
		YES				
Temperature control		Peltier				
method						
External heater	No	No	Yes			
Temperature control	5°C-45°C	5℃-65℃	5°C-85°C			
range						
Temperature control	±0.02℃					
stability						
Display method		0.4 inch FTF color touch scree				
data storage	32G	64G	64G			
output method		USB, RS232, U disk				
User Management	= = = = = = = = = = = = = = = = = = = =	four-level authority manage				
Standards compliant	ASTM D1250,D147	5, D2501, D4052, D4806, D5	002, D5931, D6448			
21 Smart PART 11		YES				
Audit trail		YES				
Electronic signature		YES				
Custom method library		YES				
Export file to verify high-		YES				
level protection MD5		VEC				
WIFI printing		YES				
Export in multiple file formats		PDF & Excel				
Packin Size		425*410*250mm				
Power supply		110V -230V 50Hz / 60Hz				
Gross Weight	8.5kg					



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5. Turbidity meter



Brief Introduction

Turbidimeter is used to measure the scattering of light generated by insoluble particulate matter suspended in water or transparent liquid and to measure the content of these suspended particulate matter.

Fields of use

Turbidity meter is used in water plant, food, chemical, power plant, metallurgy, environmental protection, beverage, wine, pharmaceutical industry and other departments, is a common laboratory instrument.

The main features

- 1: One-button automatic measurement, range automatic switch;
- 2: Color touch screen, easy to operate;
- 3: support multi-point correction;
- 4: Can print data directly through the printer;
- 5: In line with GLP specification and ISO7027 industry standard.

Model	YK-Z100	YK-Z200	YK-Z500	YK-Z1000	YK-Z2000	YK-Z4000
Measuring	0.000-	0.000-	0.000-	0.000-	0.000-2000NTU,	0.000-4000NTU
range	100NTU	200NTU	500NTU	1000NTU	0-500 EBC ,	0-500 EBC ,
					0-9999 ASBC	0-9999 ASBC
Resolution				0.001		
Repeatability				≤0.3%		
Zero drift				≤±0.3%F	S	
Stability				$\leq \pm 0.3\%F$	S	
Stray light				<0.02NTU	J	
light source				Infrared LE	D	
Detector			Sil	icon photore	ceiver	
Data storage	100 set	200 set	500 set	600 set	800 set	1000 set
Display method			4.3 incl	n FTF color to	uch screen	
Communication	RS232 printer					
output						
Packing Size	350*245*260mm					
Gross Weight	4kg					
Power supply			100\	/-230V , 50H	z / 60 Hz	



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6.Dropping point & Softening point Tester





Brief Introduction

Automatic drop point and softening point tester perfectly combine high-precision temperature control technology and high-definition video camera technology, not only to provide users with accurate, stable and reliable test results, but also to bring users efficient and convenient test experience. High-definition video can easily and clearly see the whole process of sample state change, and automatically detect real-time graph display, which is convenient for users to accurately measure the sample drop point/softening point. The standard fat cup and measurement method can ensure the accuracy of the results.

Fields of use

Automatic droplet point and softening point tester plays an important role in chemical industry and medical research. It is a necessary instrument for droplet point and softening point of asphalt, asphalt, polymers, resins, paste, wax and more materials.

The main features

- 1: HD video visual sample changes;
- 2: Fully automatic one-button automatic measurement;
- 3. Test two samples at a time;
- 4: Can print data directly through the printer;
- 5. Compliance with 21Smart Part 11, audit trail, Pharmacopoeia 2020 and electronic signature;
- 6: in line with national standards and international standards.

Model	YKD50	Smart - YKD50	YKD70	Smart - YKD70	
Temperature range	RT to 350℃	RT to 400℃	RT to 400℃	RT to 400°C	
Temperature	0.1℃	0.01℃	0.1℃	0.01℃	
resolution					
Detection method	Manual detection	Manual detection	Automatic	Automatic	
			detection	detection	
			(compatible with	(compatible with	
			manual detection)	manual detection)	
Heating rate	0.1-20 ℃ / Min				
Accuracy	±0.2℃ (<250℃)				
	±0.5℃(>250℃)				
User Management	15	15	15	15	
Display method	5.6 inch + 4.3 inch	10.4 inch color	5.6 inch + 4.3 inch	10.4 inch color	
	color display	display	color display	display	



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Processing capacity	2 per batch	2 per batch	2 per batch	2 per batch	
Experimental	100 set	100 set	200 set	400 set	
program					
Data interface		USB ,RS232,	network port		
Comply with GLP		Y	ES		
specification					
Power supply		220 V 50	Hz 120W		
Standards			D6090), DIN (51801, 5		
compliant		38, 8728-1988) ISO (21	76-1972, 4625-2) and '	'Pharmacopoeia"	
	and other standards				
Data storage	-	64G	-	64G	
User Management	-	YES / 4-level	-	YES / 4-level	
		authority		authority	
		management		management	
21Smart Part 11,	-	YES	-	YES	
audit trail,					
electronic					
signature					
Printing method	Serial printing	WIFI Serial printing	Serial printing	WIFI Serial printing	
Export in multiple	PDF & Excel				
file formats					
Packing Size	430*320*370mm				
Power Supply	110-230V,50/60Hz,120W				
Gross Weight	6.5kg				



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7. Micro-heating stage



Brief Introduction

Microscope with digital eyepiece can be used to study and determine the thermal properties of the material not only with ordinary eyepiece, but also with advanced color CCD through a television or display (provided by the customer). It can be used to measure the melting point of micro sample, slice sample and bioengineering thermodynamics.

Fields of use

Microthermal platform is widely used in medicine, chemical industry, synthetic fiber, biology, mineralogy, criminology and other fields.

The main features

- 1. Closed furnace body to ensure stable temperature;
- 2. Precise heating rate 0.1-20.0 poleless adjustable;
- 3. Adopt TFT true color touch screen;
- 4. Up to 20 sets of methods, each set with a maximum of 99 paragraphs.
- 5. Maximum temperature to 350° C.

Model	YK350	YK370
temperature range	Room temperature -350 $^{\circ}{\mathbb C}$	Room temperature -400 $^{\circ}{\mathbb{C}}$
Heating rate	(0.1-20) ℃/Min 200 gear	(0.1-20) ℃/Min
	steplessly adjustable	
Temperature resolution	0.1℃	0.1℃
Temperature control accuracy	±0.3℃	±0.3℃
Display method	TFT high-definition true color	TFT high-definition true color
	screen	screen
Data interface	USB / RS232 / SD / Ethernet port	USB / RS232 / SD / Ethernet port
Glass slide/cover glass	76*19*1 / 15*15*0.5mm	76*19*1 / 15*15*0.5mm
specifications		
Vision	2mm	2mm
Sample lens working distance	At least 7mm	At least 7mm
X-Y table	Move up to 13mm	Move up to 13mm
size and weight	185*85*28mm / 1kg	185*85*28mm / 1kg
User Management	NO	15
Number of method segments	1	99



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Experimental method storage	10 set	20 set
Save result	200 pcs	400 pcs
Optional accessories	Biological microscope, offset	Biological microscope, offset
	microscope (optional)	microscope (optional)



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8 Polarizing microscope (specially equipped with micro-hot stage)



Brief Introduction

New ergonomic design, improved effector imaging system, reflector illuminator and lamp room, higher brightness, more vivid image effect. Follow the company's HSF environmental protection policy, innovate and practice environmental protection technology.

rechnical parame	eters			
Optical system	Infinite chromatic aberration correction optical system			
Observation	30° tilt, infinity hinged binocular observation tube			
tube	30° tilt, infinite hinged three-way observation tube			
	30°-60° adjustable inclination angle, infinite hinged binocular observation tube			
eyepiece	High eyepoint wide field plan eyepiece PL 10X / 22mm			
	High eye point wide field plan eyepiece PL 10X / 22mm, adjustable diopter, can be			
	equipped with micrometer, can bring online version			
	High eyepoint wide field plan eyepiece PL 15X / 16mm			
Objective lens	Infinite long working distance stress relief plan objective lens 5X, 10X, 20X, 50X (semi-			
	apochromatic)			
	Infinity stress relief plan objective 4X, 10X, 20X, 60X			
Focusing	Coaxial focusing mechanism for low hand and coarse position. The stroke (focusing range)			
mechanism	is 28mm, the fine-tuning accuracy is 0.002mm, with an adjustment and tension device to			
	prevent slipping and an upper limit device to prevent breaking the section			
converter	Internal positioning 4-hole adjustable center converter			
	Internal positioning 5-hole adjustable center converter (the middle hole is fixed)			
Intermediate	With push-pull type deviation detection group, can move out of the optical path; Built-in			
lens group	Burnett mirror, rotating disc switching mechanism (adjustable center and focal length)			
Analyzer group	Analyzer group, 360° rotation, division value 2°, accuracy 6', with locking mechanism			
Compensator	λ plate: Φ 18mm, first-class red (optical path difference 551nm), λ /4 plate: Φ 18mm (optical			
	path difference 551nm), quartz wedge (I-IV grade)			
Stage	Rotating metal working platform, surface graphite spraying, anti-corrosion and abrasion			
	resistance: 160mm in diameter, 360° rotatable, 1° grid value, 6' precision, with locking			
	device			
Condenser	Swing-out achromatic condenser N.A 1.2			
Lighting system	Upper lighting: adaptive wide voltage 100-240V, reflector lamp room 12V 50W, preset			
	center, reflective illuminator, with field diaphragm and aperture diaphragm, including LBD			



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filter set, with plug-in polarizer set			
Down lighting: adaptive wide voltage 100-240V, transmission lamp room 12V 50W, pres			
	center, Coral lighting, with variable field diaphragm		
Photography	0.35 X / 0.5X / 0.65X / 1X camera connector, C-type interface, adjustable focus		
other	Color filter set for projection, professional moving ruler, high-precision micrometer		



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Brief Introduction

Automatic potentiometric titration device is a high-precision electrochemical analysis instrument for volumetric analysis using potentiometric titration method. It adopts modular design and consists of volumetric titration device, control device and testing device. It can carry out acid-base titration, REDOX, precipitation and complexation titration. The instrument has the functions of constant titration, micro titration, end-point setting titration, volume setting titration and mode titration. Users can also build their own special titration methods according to their actual needs.

Fields of use

Automatic potential titrator belongs to the laboratory general basic equipment, the use is very wide, can be used in food, drug testing, disease control, commodity inspection, water treatment, petroleum, chemical, Marine, electric power, environmental protection, new energy, teaching, scientific research and other related fields.

The main features

- 1. Automatic sample injection, pipeline cleaning, automatic test;
- 2. 8 inch color touch screen, easy to operate and display titration curve and measurement results;
- 3. Support acid-base, REDOX, precipitation, complexation, non-aqueous titration and other titration methods;
- 4. Imported solenoid valve, PTFE corrosion-resistant burette, high-power magnetic stirring;
- 5. High precision closed-loop control to ensure accurate titration;
- 6. High precision burette accurate to 0.003mm;
- 7. Comply with GLP GMP certification; Support direct data printing

	Model		YK-T4	YK-T5
		Titration analysis repeatability	0.2%	0.2%
Titration	Volumetric	Allowable error of	15ml burette: ±0.025ml;	15ml burette: ±0.025ml;
device	titration unit	titration capacity	25ml burette: ±0.035ml	25ml burette: ±0.035ml
		Burette resolution	15ml burette: 1/20000;	15ml burette: 1/20000;
			25ml burette: 1/10000	25ml burette: 1/10000
		Titration volume	0.0001ml	0.0001ml



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		accuracy		
		Drive resolution	1/30000	1/30000
		Electronic unit	≤0.2mV	≤0.2mV
		repeatability error		
	Potentiomet	Measuring range	(-1999.99-1999.99)mV,	(-1999.99-1999.99)mV,
	ric Titration		(0.000-14.000) pH	(0.000-14.000) pH
Measuring	Module	Resolution	0.01mV, 0.001pH	0.01mV , 0.001pH
device		Maximum possible	0.2 mV 0.02pH	0.2 mV 0.02pH
		error		
	Temperature	Measuring range	(0-100.0)℃	(-10.0-100.0)℃
	compensatio	Resolution	0.1℃	0.1℃
	n	Basic error	±0.2℃	±0.2℃
Number use	ed for titration		2 pcs (15mL / 25mL)	2 pcs (15mL / 25mL)
Titration cup	o capacity		100mL	100mL
Isometric tit	ration		YES	YES
Integrated b	urette		YES	YES
Used to stir	samples		NO	YES
pH correction	on		YES	YES
Set end mod	de		YES	YES
mv / pH mea	asuring electrod	le interface	YES	YES
Reference e	lectrode interfa	ce	YES	YES
PT1000 tem	perature electro	ode interface	YES	YES
Host USB in	terface		YES	YES
Stirrer inter	face		YES	YES
Output Inte	Output Interface		Printer	Printer
Screen display		8 inch TFT touch color	8 inch TFT touch color screen	
			screen	
Power supp	ly		110-240V, 50/60 Hz	110-240V, 50/60 Hz
Weight			7.6kg	7.6kg



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10. Multi-channel automatic potentiometric titrator



Brief Introduction

Automatic potentiometric titration device is a high-precision electrochemical analysis instrument for volumetric analysis using potentiometric titration method. It adopts modular design and consists of volumetric titration device, control device and testing device. It can carry out acid-base titration, REDOX, precipitation and complexation titration. The instrument has the functions of constant titration, micro titration, end-point setting titration, volume setting titration and mode titration. Users can also build their own special titration methods according to their actual needs.

Fields of use

Automatic potential titrator belongs to the laboratory general basic equipment, the use is very wide, can be used in food, drug testing, disease control, commodity inspection, water treatment, petroleum, chemical, Marine, electric power, environmental protection, new energy, teaching, scientific research and other related fields.

Application field

- 1.Acid-base titration, e.g., oxalic acid (aqueous/non-aqueous) content
- 2.Redox titration, e.g., iodine value, iron (II) content
- 3. Precipitation titration, e.g., chloride content
- 4. Complexometric titration, such as calcium content,
- 5.The titration was performed with a polarized electrode (Ipol, Upol)

The main features

- 1. Channel liquid feeding module, can be equipped with 16/18/20 station rotary disc type automatic sampler
- 2. Can drive multiple feeding module units, burette and pipeline should be acid, alkali and corrosion resistant.
- 3. Imports corrosion resistant PTFE rotary valve, PTFE corrosion resistant burette, high power mixing platform, the use of magnetic stirring coil
- 4. High precision closed loop control to ensure accurate titration
- 5. Burette filling resolution 1uL
- 6. High precision burette accuracy up to 0.003mm
- 7. Automatically check the state of the instrument after starting the machine
- 8. The whole pipeline is fully sealed design, quick and convenient to replace
- 9. Real-time display of titration curve and measurement results, convenient operation
- 10. Support acid-base titration, REDOX titration, precipitation titration, complex titration, non-aqueous titration and other titration methods
- 11. Comply with GMP standard, and the titration results meet GLP requirements
- 12. Automatic sample loading, automatic pipeline cleaning, automatic measurement of experimental results, automatic recording and drawing of titration pH- titration volume real-time change curve.



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- 13. In line with the 2020 edition of the Pharmacopoeia
- 14. With multi-level user rights management function, to achieve audit tracking and rights management functions

Model	YK-T6	YK-T7	YK-T8	YK-T9
Measuring	-	-	-	-
range	2000.0MV~+2000.0	2000.0MV~+2000.0	2000.0MV~+2000.0	2000.0MV~+2000.0
	MV	MV	MV	MV
	-	-	-	-
	20.000PH~+20.000P	20.000PH~+20.000P	20.000PH~+20.000P	20.000PH~+20.000P
	Н	Н	Н	Н
Resolution	0.1MV 0.001PH	0.1MV 0.001PH	0.1MV 0.001PH	0.1MV 0.001PH
Precision	0.1MV 0.005PH	0.1MV 0.003PH	0.1MV 0.002PH	0.1MV 0.002PH
Measurement			ıre pH /mV/ T	
mode			ion (multi-point)	
			nd point mode	
		•	lent titration	
		· · · · · · · · · · · · · · · · · · ·	nic Titration	
Titration	Acid-base titration/	Acid-base titration/	Acid-base titration/	Acid-base titration/
mode	Redox titration/	Redox titration/	Redox titration/	Redox titration/
	Precipitation	Precipitation	Precipitation	Precipitation
	titration/	titration/	titration/	titration/
	Complexometric	Complexometric	Complexometric	Complexometric
	titration/	titration/	titration/	titration/
	Non-aqueous	Non-aqueous	Non-aqueous	Non-aqueous
Titration cup capacity	250ml	250ml	250ml	250ml
Temperature	0-100℃	-5-120℃	-5-120℃	-5-120°C
measurement				
range				
Temperature	±0.1℃	±0.1℃	±0.1℃	±0.1℃
measurement				
accuracy				
communicatio	1*USB, 232 serial	2*USB, 232 serial	2*USB, 232 serial	2*USB, 232 serial
n method	port, Ethernet	port, Ethernet	port, Ethernet	port, Ethernet
Dosing unit	Built-in dosing unit	Built-in dosing unit	Built-in dosing unit	Built-in dosing unit
Dosing	1 set of built-in	2 set of built-in	2 set of built-in	4 set of built-in
module unit	titration dosing	titration dosing	titration dosing	titration dosing
	channel	channel	channel	channel
Expandable	8	8	8	8
number of				
dosing				
channels				
Burette	1ml 5ml 10ml 25ml	1ml 5ml 10ml 25ml	1ml 5ml 10ml 25ml	1ml 5ml 10ml 25ml
specifications	50ml (10ml	50ml (10ml	50ml (10ml	50ml (10ml
_	Standard)	Standard)	Standard)	Standard)
Burette resolution	1/48,000	1/48,000	1/48,000	1/48,000
Burette refill	10 seconds (100%	10 seconds (100%	10 seconds (100%	10 seconds (100%



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time	filling speed)	filling speed)	filling speed)	filling speed)
control unit	PC with software	PC with software	PC with software	PC with software
	(additional to the	(additional to the	(optional computer)	(optional computer)
	computer)	computer)		
Autosampler	Can be used in			
	conjunction with the	conjunction with the	conjunction with the	conjunction with the
	GT robot sampling	GT robot sampling	GT robot sampling	GT robot sampling
	system for the	system for the	system for the	system for the
	analysis of large	analysis of large	analysis of large	analysis of large
	quantities of	quantities of	quantities of	quantities of
	samples	samples	samples	samples
Self-check	Automatically check	Automatically check	Automatically check	Automatically check
function	the status of the			
	instrument after	instrument after	instrument after	instrument after
	starting	starting	starting	starting
Calibration	YES	YES	YES	YES
function				
Application	YES	YES	YES	YES
editing				
function				
storage	More than 300G	More than 300G	More than 300G	More than 300G
Default	More than 300G	More than 300G	More than 300G	More than 300G
method				
Comply with	Audit trail,	Audit trail,	Audit trail,	Audit trail,
FDA, GMP,	hierarchical	hierarchical	hierarchical	hierarchical
GLP	management,	management,	management,	management,
	electronic signature	electronic signature	electronic signature	electronic signature
Pipeline	PTFE titration line	PTFE titration line	PTFE titration line	PTFE titration line
	(corrosion resistant)	(corrosion resistant)	(corrosion resistant)	(corrosion resistant)
Stirring	Overhead spiral	Overhead spiral	Overhead spiral	Overhead spiral
method	stirrer or magnetic	stirrer or magnetic	stirrer or magnetic	stirrer or magnetic
	stirring	stirring	stirring	stirring
PTFE valve	Imported anti-	Imported anti-	Imported anti-	Imported anti-
	corrosion rotary	corrosion rotary	corrosion rotary	corrosion rotary
	valve	valve	valve	valve
Micro	Imported	Imported	Imported	Imported
detection				
electrode				
Micro syringe	Imported	Imported	Imported	Imported
pump				



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11. Moisture Analyzer





Brief Introduction

Karl Fischer moisture titrator is designed and developed by the company with independent intellectual property rights of automatic capacity method Karl Fischer moisture meter. Instrument using Karl fischer reagent as a standard liquid capacity titration method for the analysis of theory, combined with the latest machinery and electronics design technology and the interface design of human nature, good sealing, drift value and low detection limit, wide measuring range, high degree of automation, high precision and can be used for accurate analysis of solid, liquid, gas, water of crystallization, the adsorption of water, free water in the samples.

Fields of use

It can be widely used in petroleum, chemical industry, pharmaceutical industry, daily chemical industry, food, agriculture, laboratory and many other industries.

The main features

- 1.Touch-type operation, graphical interface, LED full-color LCD screen, real-time display of titration curve, metering pump sample volume, detection time, consumption of test dose, current water volume, drift and other detection parameters;
- 2.The use of fully closed titration tank, system drift is very low, automatic replacement of solvents and discharge of waste liquid, to avoid toxic reagent escape, to avoid the infiltration of environmental water; 3.has a patent high precision piston and titration control technology, to ensure the accuracy of the system measurement results;
- 4.pipe joints with special nuts and seals, design a variety of bottle caps to adapt to a variety of reagent bottles, available a variety of Karl Fischer reagent, different Karl Fischer reagent test results are not distinguished; 5.Automatic determination, simple, rapid, accurate, can realize automatic suction, drainage, automatic determination of drift, automatic deduction of drift, automatic tracking environment drift, automatic calculation results (expressed in relative standard deviation);
- 6.PID automatic control titration speed, the average sample test time is less than 2 minutes;
- 7. Support authority management, audit trail, comply with GLP/GMP specification;
- 8. Multiple data interfaces (RS-2232C, USB, Web interface);
- 9. Auxiliary functions: titration delay function, automatic terminal delay function, intelligent fault determination function, waste liquid bottle overflow warning function;
- 10.A variety of measurement results unit selection (PPM, %, ml, mGH2O), can be equipped with special micro data printer, heating mixer, card heating furnace, card type headspace sampler, semiconductor refrigeration device, micro titration pool.



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Technical parameters

Karl Fischer moisture titrator (volume method)

Model	YK-V3	YK-V5
Measuring range of moisture content	0.001~100%	0.001%-100 (10ppm-100%)
Titration control accuracy	1 uL	0.2uL
Titration function	PID automatic control titration speed, drift automatic update automatic deduction; Automatic hold end	PID automatic control titration speed, drift automatic update automatic deduction; Automatic hold end
Accessibility	Automatic cleaning function, equipment verification function, waste liquid bottle full warning function, automatic data calculation, result statistics function	Automatic cleaning function, equipment verification function, waste liquid bottle full warning function, automatic data calculation, result statistics function
Delay setting	Delay titration and terminal delay can be set according to the need to deal with insoluble samples	Delay titration and terminal delay can be set according to the need to deal with insoluble samples
Titration repeatability (RSD)	RSD≤0.5%; (2ml reagent)	RSD≥99.7%; (2ml reagent)
measure time	3 minutes on average	3 minutes on average
data processing	Automatic calculation analysis results, showing consumption test dose, water quality, percentage content, PPM, etc	Automatic calculation analysis results, showing consumption test dose, water quality, percentage content, PPM, etc
data storage	There are 5 method files	12 groups
The measurement results	20 groups	20 groups
Built-in printer	YES	YES
Valve and pipe material	Three - way two - way solenoid drive control valve, anti-corrosion material pipeline and sealing joint	Three - way two - way solenoid drive control valve, anti-corrosion material pipeline and sealing joint
External electrode	Double platinum electrode	Double platinum electrode
Operation interface	LCD screen display, navigation operation menu	LCD screen display, navigation operation menu
Use environment humidity	≪80%	≪80%
power supply	95~260V / 50Hz	110~220V (AC) / 50-60Hz
Size	580*460*360mm	580*460*360mm
Weight	9.6kg	9.6kg

Karl Fischer Moisture Titrator (coulometric method)

Model	YK-C3	YK-C5		
Measuring range	3ug~1000mg (H2O)	3ug~199mg (H2O),1ppm~100%		
Reading unit	ug water	ug water		
Detection accuracy	0.1 ug (H2O)	0.1 ug (H2O)		
Accuracy	>99.7% (1000 ug Pure water)	>99.7% (1000 ug Pure water)		
Electrolysis current range	0-400mA	0-400mA		
temperature range	-	0-299℃		
End delay	Customizable	Customizable		



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Electrolysis speed	According to the electrolysis	According to the electrolysis		
Liecti Olysis speed				
	capacity of the reagent, select 6	capacity of the reagent, select 6		
	gears, automatic control	gears, automatic control		
Drift handling	Intelligent tracking, automatic	Intelligent tracking, automatic		
	processing	processing		
Calculation formula	6 formulas to adapt to different	6 formulas to adapt to different		
	calculation needs	calculation needs		
Operation interface	Touch color screen	Touch color screen		
Data storage	100 group	200 group		
Calibration function	YES	YES		
Printer	Pr-1 dedicated data printer	Pr-1 dedicated data printer		
Power supply	220V / 50Hz	220V / 50Hz		
Power	35W	35W		
Ambient temperature	5-40°C	5-40℃		
Environment humidity	20~80%	20~80%		
Dimensions	320*280*160mm	320*280*160mm		
Net weight	5.0kg	5.0kg		

Quick moisture determination series

Picture	Name	Model	Testing method	Maximum weighing	Temperature adjustment range	Readability	Ambient temperature	Weighing pan size
	Quick Moisture Analyzer	JHS-50-10	Halogen method	50g	50-160°C	0.01g	10-300°C	Ф90тт
	Quick Moisture Analyzer	JHS-50-5	Halogen method	50g	50-160°C	0.005g	10-300°C	Ф90mm
	Quick Moisture Analyzer	JHS-50-1	Halogen method	50g	50-160°C	0.001g	10-300°C	Ф90тт



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12. Differential scanning calorimeter



Brief Introduction

DSC measures the relationship between temperature and heat flow related to the internal heat transition of materials. It has a wide range of applications, especially in the research and development, performance testing and quality control of materials. Such as material melting, glass transition temperature, crystallization and cold crystallization, phase transition, thermal stability, curing/crosslinking, oxidation rust lead period and so on. Yuke DSC in line with the national standard GB/T15065-2009, GB/T2951.42-2008, GB/T17391-1998, GB/T19466.6-2009 standard.

Fields of use

It has a wide range of applications, especially in the research and development, performance testing and quality control of materials.

The main features

- 1: Closed furnace structure, to ensure heating stability;
- 2:100 for thermocouple, greatly improve temperature sensitivity and resolution;
- 3: New furnace structure, better resolution and resolution and better baseline stability;
- 4: Dual temperature probe to ensure high repeatability of sample temperature measurement;
- 5: The software ADAPTS to all brands of computers, supporting WinXP, Win7, Win8, Win10 and other operating systems;
- 6: Humanized operation interface, 8 inch LCD touch screen display, friendly interface, easy to operate.

Model	YK-DSC6	YK-DSC8
temperature range	Room temperature -600 ℃	Room temperature -800 $^{\circ}\mathrm{C}$
Temperature resolution	0.01℃	0.01°C
Temperature accuracy	0.1°C	0.1℃
Temperature accuracy	±0.03℃	±0.03℃
DSC range	±500mW	\pm 500mW
DSC resolution	0.001mW	0.001mW
Calorimetry accuracy	0.1%	0.1%
Heating rate	0.1~100 °C / min	0.1~100 ℃ / min
Cooling rate	0.1~50 ℃ / min	0.1~50 °C / min
Maximum data collection rate	50 pcs/ s	50 pcs/ s
Temperature control method	Heating, constant temperature,	Heating, constant temperature,
	cooling, cycle temperature control	cooling, cycle temperature control



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	(full program automatic control)	(full program automatic control)
Atmosphere control	Gas mass flow meter	Gas mass flow meter
	automatically switches between	automatically switches between
	two gases	two gases
Display method	8-inch color touch screen	8-inch color touch screen
Parameter standard	Equipped with standard samples,	Equipped with standard samples,
	one-key automatic calibration,	one-key automatic calibration,
	users can calibrate the users can calibrate the	
	temperature by themselves	temperature by themselves
Data interface	USD2.0 interface, dedicated	USD2.0 interface, dedicated
	operating software	operating software
Power supply	50Hz / 60 Hz AC220V	50Hz / 60 Hz AC220V

DSC / DTA / TGA / STA Specification Compared as follows,

Picture	Name	Model	temperature range	Temperature control method	Application field	Data interface	Heating rate	
ele	Melting point analyzer	JH-500A	RT500℃		Block samples such as plastics	USB	1~80°C/min	
	Differential Scaning Calorimeter	JH-DSC-6	RT600°C	Program temperature control Temperature and cooling scan, can be segmented heating, cooling scan	Rubber, plastic, (wire and cable, gas and water pipeline) medicine, metallurgy, polymer, new energy, etc.		1~80°C/min	
		JH-DSC-6L	− 100°C~600°C			USB two-way	1~80°C/min	
		JH-DSC-8	RT~800℃			communication computer control	1~80°C/min	
		JH-DSC-8L	- 100℃~800℃				1~80°C/min	
-	Differential Thermal Analyzer	JH-DTA3320	RT~1150℃	Program temperature control		USB two-way	1~80°C/min	
		JH-DTA3332	RT~1450℃			control	1~80°C/min	
- M	Thermogravimetric — Analyzer	JH-TGA-350	RT~1100℃			USB two-way	1~80°C/min	
		JH-TGA-550	RT~1400℃			communication computer control	1~80°C/min	
	Synchronous Thermal Analyzer	JH-STA-150	RT~1100℃				USB two-way	1~80°C/min
		JH-STA-350	RT~1400℃			communication computer control	1~80°C/min	



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Brief Introduction

YK-UV series UV-visible light spectrophotometer with quantitative measurement, wavelength scanning, time scanning, multi-wavelength test, DNA protein test and other high-order functions, with high precision, high resolution, low noise, low stray light characteristics.

Fields of use

Photometer is one of the analytical instruments with the longest history, the most widely used and the widest coverage in the world. It is widely used in life science, medical science, environmental science, agricultural science, metrology science, food science, geological science, petroleum science, medical and health care, iron and steel metallurgy, chemistry and chemical industry and other fields.

The main features

- 1. Independent double optical path and double beam optical system;
- 2. Can independently complete photometric measurement, quantitative measurement, spectral scanning, kinetics, DNA/ protein testing functions;
- 3. Suspension type optical system design, strengthen the design of thickened bottom plate, eliminate the impact of vibration or deformation on the optical system;
- 4. The software is fully compliant with 21Smart Part 11, audit trail, pharmacopoeia and electronic signature;
- 5. Large screen dot matrix liquid crystal, clear map data display, friendly interface, easy to operate;
- 6. Smaller spectral bandwidth, higher resolution, fully meet the requirements of the pharmacopoeia, wider application range;
- 7. Long life environment-friendly deuterium lamp with flange seat, light replacement is free of optical debugging;
- 8. The graph and data can be saved in real time, and can be maintained when power is off. It can be printed and exported to PC.

Model	YK-UV6	YK-UV7	YK-UV8	YK-UV9
Wavelength	190-1100nm	190-1100nm	190-1100nm	190-1100nm
range				
The spectral	2nm	0.5/1/1.5/2/4/5.0nm	1.8nm	0.5/1/1.5/2/4/5.0nm
bandwidth				
Wavelength	\pm 0.5nm	\pm 0.1nm(656.1nm)	\pm 0.1nm	\pm 0.1nm(656.1nm)
accuracy		\pm 0.3nm All Region	(D2 656.1nm)	\pm 0.3nm All Region
			\pm 0.3nm All Region	
Wavelength	≤0.2nm	≤0.1nm	≤0.1nm	≤0.1nm



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repeatability					
Photometric	±0.002A (0-0.5A)	±0.002A (0-0.5A)	±0.002A (0-0.5A)	±0.002A (0-0.5A)	
accuracy	$\pm 0.002A (0.0.5A)$ $\pm 0.004A (0.5-1A)$	$\pm 0.002A (0.0.5A)$ $\pm 0.004A (0.5-1A)$	$\pm 0.002A (0.0.5A)$ $\pm 0.004A (0.5-1A)$	$\pm 0.002A (0.5-1A)$	
accuracy	$\pm 0.3\%$ T (0-100%T)	$\pm 0.2\%$ T (0-100%T)	$\pm 0.2\%$ T (0-100%T)	$\pm 0.2\%$ T (0-100%T)	
Dh atamatria	· · · · · · · · · · · · · · · · · · ·	±0.2%1 (0-100%1) ≤0.001A (0-0.5A)	±0.2%1 (0-100%1) ≤0.001A (0-0.5A)	≤0.001A (0-0.5A)	
Photometric	±0.002A (0-0.5A)	, ,	, ,	, ,	
repeatability	±0.004A (0.5-1A)	≤0.002A (0.5-1A)	≤0.002A (0.5-1A)	≤0.002A (0.5-1A)	
	±0.3%T (0-100%T)	≤0.1%T (0-100%T)	≤0.1%T (0-100%T)	≤0.1%T (0-100%T)	
Stray light	≤0.05%T	≤0.03%T (220/360nm)	≤0.03%T	≤0.03%T	
	(220/360nm)		(220/360nm)	(220/360nm)	
Baseline drift	≤0.001A/h	≤0.0004A/h	≤0.0004A/h	≤0.0004A/h	
(stability)	(500nm, 0A)	(500nm, 0A)	(500nm, 0A)	(500nm, 0A)	
Baseline	\pm 0.0015A	\pm 0.0015A	\pm 0.001A	\pm 0.0015A	
flatness					
Noise level	±0.1%T(0%T 线)	±0.1%T(0%T 线)	±0.1%T(0%T 线)	\pm 0.1%T	
	±0.3%T(100%T线)	±0.3%T(100%T 线)	±0.3%T(100%T 线)	(0%T 线)	
	\pm 0.0005A (500nm	\pm 0.0005A (500nm	\pm 0.0004A (500nm		
	处)	处)	处)		
Luminosity	0-200%T、-0.3-3A	0-200%T、-44A	0-200%T、-0.3-3A	0-200%T、-44A	
range	0-9999C、0-9999F	0-9999C、0-9999F	0-9999C、0-9999F	0-9999C、0-9999F	
Wavelength	Automatic,	Automatic,	Automatic,	Automatic,	
setting mode	wavelength	wavelength resolution	wavelength	wavelength	
0	resolution 0.1nm	0.1nm	resolution 0.1nm	resolution 0.1nm	
Scanning	High, medium and	High, medium and	High, medium and	High, medium and	
speed	low are available	low are available	low are available	low are available	
PC software	PC scan analysis	PC scan analysis	PC scan analysis	PC scan analysis	
	software (standard)	software (standard)	software (standard)	software (standard)	
Data output	USB	USB	USB	USB	
Printout	Parallel port	The microprinter is	Parallel port	The microprinter is	
· · · · · · · · · · · · · · · · · · ·	Taraner porc	connected to a	Taraner porc	connected to a	
		computer for printing		computer for printing	
Display	7 inch 320*240	7 inch 320*240	7 inch 320*240	7 inch 320*240	
system	large screen LCD	large screen LCD	large screen LCD	large screen LCD	
The light	Original imported	Original imported	Original imported	Original imported	
source	tungsten lamp,	tungsten lamp, xenon	tungsten lamp,	tungsten lamp, xenon	
304166	xenon lamp	lamp	xenon lamp	lamp	
The detector	Imported silicon	Imported silicon	Imported silicon	Imported silicon	
THE detector	photodiode	photodiode	photodiode	photodiode	
The power	AC 220V/50Hz or	AC 220V/50Hz or	AC 220V/50Hz or	AC 220V/50Hz or	
supply	110V/60Hz	110V/60Hz	110V/60Hz	110V/60Hz	
Overall	625*430*210mm	645*515*255mm	625*430*210mm	645*515*255mm	
dimensions	023 430 21011111	040 010 200111111	023 430 21011111	040 010 200111111	
Weight	28kg	28kg	201/4	28kg	
vveigiii	ZOKK	ZOK	28kg	Zokg	



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Picture	Model	Spectral bandwidth	Wavelength range	Wavelength accuracy	Luminosity range	Luminosity accuracy	Stray light	stability	Baseline flatness	Functions and features
	Visible spectrophotometer									
	JH-EV2	4nm	325-1020nm	±2.0nm	-0.3~3A	±0.5%T	0.2%T	0.004A/h	1	LCD digital display, touch the button, direct reading of concentration test data. Economical type, set the wavelength manually.
			UV-v	isible spectrop	hotometer					9
	JH-UV3	4nm	190-1020nm	±2.0nm	-0.3~3A	±0.3%T	0.1%T	0.002A/h	1	LCD digital display, light touch button, direct reading of concentration test data, standard curve can be made. Automatically set the wavelength and automatically correct the blank.
	JH-UV5	2nm	190-1100nm	±0.5nm	-0.3~3A	±0.3%T	0.05%T	0.001A/h	±0.002A	Numeric keyboard makes the operation more convenient. Data and curve are kept when power is off. Optional PC scanning software to realize wavelength scanning, etc.



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14. Fully automatic intelligent microwave digestion instrument







Brief Introduction

Microwave digestion apparatus is a practical microwave chemical reaction equipment, Microwave digestion technology uses the penetration and activation capacity of microwave to heat the reagents and samples in the closed container, which can increase the pressure in the sample preparation container and the reaction temperature, thus greatly improving the reaction rate and shortening the time of sample preparation.

Fields of use

Microwave digestion widely used in heavy metal detection, organic pollutants extraction, material synthesis and other fields.

The main features

- 1. Smart-MWD60 intelligent microwave digestion instrument adopts the safe and sealed patent design to eliminate the element loss and leakage caused by exhaust, and ensure the accuracy and reliability of the analysis results of AA, ICP, ICP-MS and other elements;
- 2. Professional electromagnetic protection design, the only high-end microwave leakage protection standards;
- 3. Using ergonomic appearance design, with large color touch screen, free touch color graphical interface, high-end experience of real-time imaging technology, fully reflects the convenience and comfort of modern laboratory; Beyond intelligent microwave digestion instrument using the world's first technology, improve the microwave digestion instrument reaction parallelism;
- 4. The design standard of industrial microwave oven cavity is adopted, and the inner cavity is sprayed with multi-layer PFA(modified polytetrafluoroethylene) to prevent the long-term corrosion of strong acid.

Model	Smart- MWD 50	Smart- MWD 60
Power supply	220-240 VAC 50/60Hz 15A	220-240 VAC 50/60Hz 15A
Microwave source	2450MHz, Dual magnetron high-	2450MHz, Dual magnetron high-
	energy microwave field emission	energy microwave field emission
Whole machine installation power	3200W	3200W
Maximum microwave output	2200W, Microwave non-pulse	2200W, Microwave non-pulse
power	continuous automatic frequency	continuous automatic frequency
	conversion control	conversion control
Display screen	Large 7-inch touch LCD display	Large 7-inch touch LCD display
Software system	ARM chip equipped with ZGI	ARM chip is equipped with ZGI
	operating system	operating system, three-level user
		authority management, audit trail
		function, mouse can be connected
Microwave cavity	65L large volume 316L stainless	65L large volume 316L stainless
	steel cavity, internal and external	steel cavity, internal and external



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	multi-layer corrosion-resistant PFA	multi-layer corrosion-resistant PFA
	Teflon coating	Teflon coating
Temperature control system	Real-time detection, control and	Dual-beam and multi-target
- Compensation of System	display of temperatures and	temperature control system
	curves in all reaction tanks	DualZG, real-time detection,
	carves in an reaction tarms	control and display of
		temperatures and curves in all
		reaction tanks
Safety explosion-proof door	Eight-layer steel structure self-	Eight-layer steel structure self-
design	ejection explosion-proof buffer	ejection explosion-proof buffer
S .	design (AUT-relief structure),	design (AUT-relief structure),
	electronic and mechanical double	electronic and mechanical double
	safety protection	safety protection
Pressure control system	The pressure control system G-	The pressure control system G-
rressure control system	pressure monitors the pressure of	pressure monitors the pressure of
	1 '	
	all reaction tanks in real time,	all reaction tanks in real time,
	automatically adjusts	automatically adjusts
	overpressure/stops microwave	overpressure/stops microwave
	emission and automatically	emission and automatically alarms, range: 0-2000psig
Proceure measurement system	alarms, range: 0-2000psig Piezoelectric pressure sensor,	Piezoelectric pressure sensor,
Pressure measurement system	control pressure range: 0-20M Pa	control pressure range: 0-20M Pa
	_	
	(2500 psi), display accuracy ±0.1M	(2500 psi), display accuracy ±0.1M
T	Pa	Pa
Temperature measurement	High-precision optical fiber	High-precision optical fiber
system	temperature sensor, temperature	temperature sensor, temperature
	measurement range: -50-320°C,	measurement range: -50-320°C,
	control accuracy ±0.1°C, display	control accuracy ±0.1°C, display
	accuracy ±1°C	accuracy ±1°C
Video surveillance system	The internal camera can monitor	The internal camera can monitor
	the operation of the digestion tank	the operation of the digestion tank
	in the furnace cavity in real time	in the furnace cavity in real time
Full tank temperature monitoring	ZG infrared temperature full tank	ZG infrared temperature full tank
system	detection, temperature	detection, temperature
	measurement range: 0-320℃,	measurement range: 0-320℃,
	control accuracy ±0.1℃	control accuracy ±0.1℃
Full tank pressure passive	Adopt top safety relief device	Adopt top safety relief device
protection system	(security) design, overpressure	(security) design, overpressure
	quantitative and directional	quantitative and directional
	automatic pressure relief	automatic pressure relief
External network interface	USB , RS-232	USB , RS-232
(optional)		
Sample reaction tank outer tank	Aerospace composite fiber	Aerospace composite fiber
	material explosion-proof outer	material explosion-proof outer
	tank	tank
Furnace exhaust system	High-power corrosion-resistant	High-power corrosion-resistant
	axial flow fan, turbulent high-	axial flow fan, turbulent high-
	efficiency air cooling, only 15	efficiency air cooling, only 15
	minutes from 200°C to 60°C	minutes from 200°C to 60°C



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temperature/humidity		
The physical size of the whole	580*680*720mm , 65kg	580*680*720mm , 65kg
machine		
Reaction tank name	14tank , high pressure tank	40 tank ,high pressure tank
Reaction tank model	ZG14	ZG40
Batch volume	14	40
Magnetic stirring	YES	YES
Inner tank material	TFM	TFM
Explosion-proof outer tank	G-Fiber	G-Fiber
material		
Dissolve the rotor frame structure	High-strength alloy turntable	High-strength alloy turntable
	integrated frame	integrated frame
Reaction tank volume	100ml	10ml / 30ml / 55ml / 100ml
Maximum design pressure	20M Pa	16M Pa
Maximum design temperature	310℃	310℃



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15.Dissolution Tester



Brief introduction

YK-RC606 dissolution test apparatus is a high-performance 6-cup 6-bar dissolution tester designed and manufactured in strict accordance with the provisions of the Chinese Pharmacopoeia and the United States Pharmacopoeia. It has high intelligence, advanced structure, accurate control and good reliability.

YK-RC808 dissolution tester equipment is a high-performance 8-cup 8-bar dissolution test device designed

YK-RC808 dissolution tester equipment is a high-performance 8-cup 8-bar dissolution test device designed and manufactured in strict accordance with the regulations of "Chinese Pharmacopoeia" and "USP", with high intelligence, advanced structure, accurate control and good reliability.

YK-RC1612 dissolution tester device is a high-performance 16-cup 12-bar dissolution tester designed and manufactured in strict accordance with the provisions of "Chinese Pharmacopoeia" and "United States Pharmacopoeia". It has high intelligence, advanced structure, accurate control and good reliability.

The main features

- 1. Automatic height-setting clutch (various methods interchangeable).
- 2.Adjust the cup holder.
- 3.Adjust shafting.
- 4. Electric lifting of machine head.
- 5.DC brushless water pump, low noise and long life.
- 6.PTC heater, temperature switch multiple protection.
- 7.1/3B high-precision Pt1000 temperature sensor imported from Germany, with fast response and high precision.
- 8.It supports sequential dosing and synchronous dosing, and you can choose whether to suspend stirring when dosing.
- 9. Redundant wiring design ensures that the connectors are firm and reliable.
- 10. Rights management system.
- 11. Audit trail functionality.
- 12.7-inch high-definition touch screen.
- 13.Optional online printing, fingerprint identification, LAN, WiFi, Bluetooth, RS232 and RS485, etc.

Model	YK-RC606	YK-RC808	YK-RC1612
Number of devices	6 cups	8 cups and 8 rods.	12 cups and 12 rods
Applicable methods	basket method, paddle	"Chinese	"Chinese
	method, small cup	Pharmacopoeia" first	Pharmacopoeia" first
	method, dish method	method (basket	method (basket
	(large and small dish),	method), second method	method), second method
	drum method (long and	(paddle method), third	(paddle method), third



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	short drum)	method (small cup method), fourth method (paddle and disc method), fifth method (drum method)	method (small cup method), fourth method (paddle and disc method), fifth method (drum method)
Stirring speed	25RPM-250RPM		,
Stirring direction	clockwise,	clockwise,	clockwise,
	counterclockwise	counterclockwise	counterclockwise
Stirring speed resolution	0.01RPM	_	
Water bath temperature	room temperature -	room temperature -	room temperature -
	45.00°C	45.00°C. (The heating	45.00°C. (The heating
		temperature can be	temperature can be
		selected up to 55°C)	selected up to 55°C)
Temperature resolution	0.01°C	-	
Dosing mode	synchronous dosing,	synchronous dosing	synchronous
			administration
Rights management	four levels, seven users	four levels, seven users	three levels, seven users
Audit trail	128 entries × 365 days		
Power supply	220V, 50Hz		



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16 Dissolution Sampling System

16.1 Dissolution Sampling System = YK-RCQY8



Brief introduction

The YK-RCQY8 Dissolution Sampling is a new type of sampler independently developed by Tianfa Analytic. It can be adapted to a dissolution apparatus with a sampling system and can be connected to form a dissolution sampling system. The YK-RCQY8 Dissolution Sampling Can upgrade WiFi, RS232, RS485, LAN, Bluetooth data interface.

The whole system adopts 26ml high-precision syringe as the sampling power. Fast sampling speed and high precision. The whole system has the functions of primary filtrate and distribution, which can realize the discarding of primary filtrate and the distribution of secondary filtrate to retain samples. And The YK-RCQY8 Dissolution Sampling can be collected directly into ampoules. 8-way precision syringe pump is used to realize high-precision automatic filtration, sampling and rehydration. It has a number of patented technologies, advanced structure, accurate control and high degree of intelligence.

The main features

- Compatible with dissolution apparatuses of most manufacturers.
- All corrosion-resistant and high-pressure pipelines.
- Equipped with pre-filter and terminal filter, the filter can be fully circulated and rinsed, and it is easy to replace.
- Equipped with 10ML sampling test tube (with sealing cap), optional sampling bottle with new sealing cap (2mL, 10mL)
- Proofing needle with acupuncture and bottle return mechanism, built-in PTFE pipe
- High precision (repeatability RSD<0.5%)
- Fast speed (pump speed <25mL/min, complete the sampling and filtration process within 30s in most cases)
- Rights management, support 3 levels 7 users.
- Audit trail functionality.
- Support fingerprint login.
- Support online printing.
- 3Q verification can be provided

Model	YK-RCQY8
Sampling channels	8



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Sampling times	16 times
Sampling modes	accuracy, speed
Sampling accuracy	RSD<0.5%
Sampling Interval	1 minute to 999 hours 59 minutes
Single sampling volume	1ml~15ml(can be extended to30ml)
Sampling consistency	RSD≤1% between channels
Sampling repeatability	RSD≤0.5%
Syringe specifications	26ml, 0.5% accuracy
Test tube collection volume	15ml
Distribution function	Yes
Rehydration function	Equal volume rehydration
Preliminary filtration volume	0ml~10ml
Primary filter	10μm columnar filter head
On-line filter	φ25mm, filter membrane pore size 0.45μm, 0.8μm
	Luer connector filter, made of cellulose
Communication interface	RS232, RS485, network
Rights management	three levels, seven users
Audit trail	128 entries × 366 days
Login method	user name + password, fingerprint
Online printing	support



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16.2 Dissolution Sampling System = YK-RCQY12



Brief introduction

The YK-RCQY12 dissolution sampler is a new type of sampler independently developed by Tianfa Analytic. It can be adapted to a dissolution apparatus with a sampling system and can be connected to form a dissolution sampling system. YK-RCQY12 dissolution sampler Can upgrade WiFi, RS232, RS485, LAN, Bluetooth data interface.

The whole system adopts 26ml high-precision syringe as the sampling power. Fast sampling speed and high precision. The whole system has the functions of primary filtrate and distribution, which can realize the discarding of primary filtrate and the distribution of secondary filtrate to retain samples. And YK-RCQY12 dissolution sampler can be collected directly into ampoules. 12-way precision syringe pump is used to realize high-precision automatic filtration, sampling and rehydration. YK-RCQY12 dissolution sampler has a number of patented technologies, advanced structure, accurate control and high degree of intelligence.

The main features

- •Compatible with dissolution apparatuses of most manufacturers.
- •All corrosion-resistant and high-pressure pipelines.
- •Equipped with pre-filter and terminal filter, the filter can be fully circulated and rinsed, and it is easy to replace.
- •Equipped with 10ML sampling test tube (with sealing cap), optional sample bottle with new sealing cap (2mL, 10mL)
- Proofing needle with needle punching and bottle return mechanism, built-in PTFE tube
- High precision (repeatability RSD<0.5%)
- Fast speed (pump speed <25mL/min, complete the sampling and filtration process within 30s in most cases)
- •Rights management, support 3 levels 7 users.
- Audit trail functionality.
- •Support fingerprint login.
- •Support online printing.
- •Can provide 3Q verification.

Model	YK-RCQY12
Sampling channels	12
Sampling times	16 times
Sampling modes	accuracy, speed
Sampling accuracy	RSD<0.5%
Sampling Interval	1 minute to 999 hours 59 minutes
Single sampling volume	1ml~15ml (expandable to 30ml)



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Sampling consistency	RSD≤1% between channels
Sampling repeatability	RSD≤0.5%
Syringe specification	26ml, 0.5% accuracy
Test tube collection volume	15ml
Distribution function	Yes
Rehydration function	equal volume rehydration
Primary filtration volume	0ml~10ml
Primary filter	10μm columnar filter head
In-line filter	φ25mm, filter membrane pore size 0.45μm, 0.8μm
	Luer connector filter, made of cellulose
Communication interface	RS232, RS485, network
Rights management	three levels, seven users
Audit trail	128 entries×366 days
Login method	username + password, fingerprint
Online printing	support



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17. Freezing Point Osmometer



Brief Introduction

YK-ST3000 Osmometer is an osmotic pressure molar concentration tester designed on the principle of freezing point depression. It consists of a refrigeration system, a thermal probe and an oscillator (or metal probe) for measuring current or potential difference. When measuring, dip the measuring probe into the center of the test solution and drop it into the cooling tank of the instrument. Start the refrigeration system. When the temperature of the test solution drops below the freezing point, the instrument uses an oscillator (or metal probe) to induce the solution to freeze, and automatically records the temperature of the freezing point drop.

Fields of use

Clinical laboratories, general medicine, urology, nephrology, pediatrics, gynecology, hemofiltration, hemodialysis, pharmacy, intensive care unit (ICU), IVF, veterinary medicine, forensic science, botany, physiology, scientific research and industrial fields, biotechnology, electron microscopy applications, pharmaceutical industry, etc.

The main features

- 1. Using high-precision sensors to ensure test accuracy;
- 2. Double refrigeration system to ensure efficient and fast testing;
- 3. Two-point and multi-point linear calibration can be performed to ensure the linearity of the instrument;
- 4. Simultaneously measure osmotic pressure molar concentration, freezing point and molar concentration ratio;
- 5. Multi-level authority management, authority can be freely configured;
- 6. Comply with 21Smart Part11 audit trail, 2020 version, "United States Pharmacopoeia" and other standards;
- 7. Comply with GMP, cFDA certification.



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Model	YK-ST3000
Measuring range	0-3000mosmol/kg
Sample volume	50μl (50μl-100μl)
Test time	<100S
Pre-cooling time	≤3 minutes
Accuracy	±2mmol/kg (≤200mosmol/kg) ±1%(>200mosmol/kg)
Relative standard deviation (RSD)	≤±1% (300 mosmol/kg)
Resolution	1mosmol/kg
Ambient temperature	10-30ºC
Power supply	AC 220V 50HZ 150W
Dimensions	220mm*270mm*340mm
Weight	15KG



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18. Viscosity Meter

18.1 Ubbelohde Viscometer





The main features

- 1. Measurement environment: The constant temperature tank adopts the design principle of stainless steel double chambers and a unique circulation method, and cooperates with the circulation of refrigeration through the refrigerator to ensure that the temperature of the entire measurement tank is uniform and the temperature stability of the fluctuation reaches±0.01°C. The drainage structure (water valve) is designed to facilitate cleaning and drainage.
- 2. Measurement module: Each measurement unit operates independently without interfering with each other, and the measurement unit can be operated at will, and the key parts are protected by corrosion-resistant materials. (Stand difference of each measuring unit: within 0.1s, keep the online cleaning module interface)
- 3. Measurement method: The measurement unit adopts two pairs of imported stainless steel optical fiber sensing devices, which ensure accurate detection. The sensing device can be automatically adjusted according to the color depth of the measured sample to meet the samples of different color depths, and has the characteristics of corrosion resistance, temperature resistance and long life.
- 4. Viscosity tube connection method: The cover method is adopted, which is easy to connect and operate, reduces the loss of the viscosity tube, and replaces the traditional (rubber cap and briquetting) viscosity tube connection method.
- 5. Viscosity measurement software: The software is compiled according to the industry, national and international standard methods, the user only needs to select the standard method to run, and the result will be calculated automatically. The software supports Win7 and above systems. Software optimization and upgrade, measurement repeatability error control within (±0.05s)



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6. Safety: It has over-temperature protection function and low water level alarm function, and the whole machine has leakage protection function.

型号	YKSY800-6	YKSY800-4	YKSY800-2
Working temperature range	(RM ~ 100) °C	(RM ~ 100) °C	(RM ~ 100)°C
Temperature control accuracy	±0.01℃	±0.01℃	±0.01℃
Water temperature uniformity	±0.01℃	±0.01℃	±0.01℃
Repeatability error	±0.05s (Note:	±0.05s (Note:	±0.05s (Note:
	international, national	international, national	international,
	standard±0.2s)	standard±0.2s)	national
			standard±0.1s)
Measuring unit stage difference	<0.1s	<0.1s	<0.1s
Measurement time range	(0.001~999.999)s	(0.001~999.999)s	(0.001~999.999)s
Timing accuracy	0.001s or 0.1% of the measurement reading	0.001s or 0.1% of the measurement reading	0.001s or 0.1% of the measurement reading
Viscosity range	0.3-50000(mm2/s)	0.3-50000(mm2/s)	0.3-50000(mm2/s)
Number of constant temperature tanks	6	4	2
Flow through	400W	400W	400W
recirculating			
refrigerator			
Bit power	1200W	1200W	1200W
Power supply	220V±5% 50HZ	220V±5% 50HZ	220V±5% 50HZ



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18.2 Ulrich Motion Tester——YK-SBQ81834



Brief Introduction

TheYuke® YK-SBQ81834UIrich Motion Tester can also be used as a high-precision cold bath for other experiments. The instrument adopts an intelligent measurement and control system, can be set with a touch of a button, and can precisely and automatically control the temperature of the test bath, which is especially suitable for the test of dilute solutions in the pharmaceutical industry.

The main features

- 1. The instrument is novel in design and easy to use.
- 2. Intelligent measurement and control system: high-precision A/D system, Chinese display.
- 3. Humanized setting, man-machine dialogue.
- 4. The instrument control bath is bright and clear.
- 5. The instrument is easy to set up and easy to operate.
- 6. A real high-precision digital temperature control system or kinematic viscosity testing system.

Model	YK-SBQ81834
Working power supply	AC 220V±10%, 50Hz±5%
Heating power	two gears, 1000W+650W
Stirring motor	power 6W; speed 1200r/min
Temperature measurement range	15~100℃
Temperature control accuracy	±0.1℃
Constant temperature bath	capacity, 27L; inner cylinder size 300*400 Form, inner and outer two-layer cylinder (double cylinder) four holes



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Operating environment	ambient temperature -10 $^{\circ}$ C $^{\sim}$ +35 $^{\circ}$ C , Relative humidity <85%
Temperature sensor	industrial platinum resistance, the graduation number is Pt100
Power consumption of the whole machine	not more than 1800W
Dimensions	length, width and height 600*650*500mm
Weight	40KG

18.3 Ulrich Motion Viscosity Tester——YK-FKV1000



Brief Introduction

This Yuke® YK-FKV1000 Ulrich Motion Viscosity Tester is suitable for measuring the kinematic viscosity of liquid petroleum products (Newtonian liquid) at a certain constant temperature according to the provisions of the People's Republic of China Standard GB/T 265 "Petroleum Products Kinematic Viscosity Measurement Method and Dynamic Viscosity Calculation Method". Viscosity testing requirements.

The main features

- 1. The Yuke® YK-FKV1000 Ulrich Motion Viscosity adopts the form of an all-in-one machine, and the control switch adopts the form of a light touch key, which is novel in design, compact in structure, and elegant in appearance.
- 2. Yuke® YK-FKV1000 Ulrich Motion Viscosity adopts intelligent liquid crystal display temperature controller, which can control temperature quickly, respond quickly, overshoot is small, and the temperature control accuracy can reach ± 0.1 °C.
- 3. With a wire-controlled timing button, it is used for timing display and control during experiments.
- 4. Using a hard glass cylinder and an electric stirring device, the sample can be observed clearly and the temperature in the bathtub is uniform.

The biggest features of this instrument are: full plastic spraying treatment, durable; ultra-thin LCD temperature controller, novel and advanced; small desktop structure, beautiful and generous; special capillary viscometer.



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Technical parameters

Model	YK-FKV1000
Working power supply	AC(220±10%)V, 50Hz
Heating device	electric heating, power 600W
Stirring motor	power 6W, speed 1200r/min
Temperature control range	room temperature to 100°C
Temperature control accuracy	±0.1℃
Temperature sensor	Industrial platinum resistance, the graduation number is Pt100
Constant temperature bath	single cylinder with 2 holes, cylinder height 240*300
Ambient temperature	room temperature to 35°C
Relative humidity	≤85%
Capillary viscometer	2 Ubbelohde capillaries in total, the inner diameter
	can be specified by the user or standard by our
	company
Dimensions	500 mm×310 mm×500 mm(length×width×height)

18.4 Automatic Kinematic Viscometer——YK-265A



Brief Introduction

Good and reliable communication forms a unified and reliable measurement and control platform for each module. The Yuke® YK-265A Automatic Kinematic Viscometer adopts the high-quality, most simple modular program design, and is organically combined with the hardware, so that the heating and constant temperature, liquid level detection, timing, cleaning of the viscosity tube, printing, etc. of the kinematic viscosity measurement process can be done in a complete manner. Auto-completion, reaching the operation mode of one-click to get the result.

The main features



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- 1. The optical fiber conduction detection method used by this Yuke® YK-265A Automatic Kinematic Viscometer is absolutely different from the ordinary light spot tube detection method of other manufacturers.
- 2. Good man-machine interface, easy to operate.
- 3. One-click to complete the determination of Pinnacle kinematic viscosity, simplifying the operation.
- 4. Four sets of preset parameters for selection.
- 5. The preset parameters can be modified to meet special requirements.
- 6. Infrared liquid level detection is not interfered by indoor light and light.
- 7. The liquid level detection position is adjustable and flexible.
- 8. All modular designs are stable and reliable.
- 9. Automatically store 100 test results, and view or print them at any time.
- 10. The testing process complies with the standard and the data is reliable.
- 11. The detection method is reliable and repeatable.
- 12. It can work continuously for a long time, and the failure rate is extremely low.

recnnical parameters	
Model	YK-265A
Temperature range	room temperature~+100°C, accuracy±0.01°C
Temperature sensor	Pt 100 stainless steel probe imported from Germany,
	built-in temperature correction, reliable detection
	results
Heating method	electric heating unit, the maximum heating power is
	1500 W, and the heating rate can be programmed
	and controlled
Liquid level detection	infrared photoelectric detection
Display	10-inch color touch screen
Temperature correction	automatic correction, programmable correction
Data storage	100 sets of test results
Power supply	AC220V 50Hz. Maximum power 1500W
perating ambient temperature	10-40°C
Storage environment temperature	0~50℃



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19.Rotational Viscometer

19.1 Brookfield Rotational Viscometer



Brief intruduction

Widely used in the determination of the viscosity of various liquids such as oil, paint, food, paint, paper, cosmetics, chemicals, capsule adhesives and medicines.

The main features

- 1. Hot-melt adhesive, asphalt, paraffin and other molten materials testing equipment, this set of equipment has been included in the compilation of industrial standards for adhesives. the
- 2. It can be used as a stand-alone machine, or it can be connected to a micro-printer and a computer to realize data collection, the
- 3. It overcomes the disadvantage that domestic instruments can only sample once in one revolution, and realizes the technology of multiple sampling in one revolution. the
- 4. High subdivision drives the stepper motor to rotate, the speed is accurate and stable, and the change of AC voltage frequency does not affect the accuracy of viscosity measurement. the
- 5. For thixotropic non-Newtonian liquids, the timing function of the instrument can ensure good consistency data. the
- 6. Intelligent measurement. Automatically adjust the speed to reduce the difficulty of use for beginners. the
- 7. Humanized, personalized design, 0.1-200.0RPM speed stepless setting. LCD liquid crystal with blue backlight function, directly display viscosity, speed, percent torque, maximum viscosity value and temperature value of the rotor at the current speed. Viscosity values show a continuous change. There is an alarm sound prompt when the measurement range is exceeded. the
- 8. Data collection and drawing software can be purchased to realize data collection and data analysis, and the viscosity-temperature curve can be monitored in the whole process. A miniature monochrome printer can also be purchased to realize regular printing of measurement results. the



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9. The instrument's full scale and linearity of each gear are all measured and corrected through the computer interface, and its measurement performance and functions have reached the advanced level of the same type abroad. the

- 10. Using 16-bit microcomputer processor as the core, high subdivision drive stepper motor, digital LCD with blue backlight function. the
- 11. Different standard rotors can be selected as required. the
- 12. According to the need, you can choose the standard material of the Metrology Bureau to calibrate the viscometer, so that the inspection level can be in line with the international standard.

Model	YK-NDJ-1F
Measuring range of medium viscosity	50-10 million (mPa • s/cP), number of standard
	rotors: 4 (21#, 27#, 28#, 29#). Optional No. 0 rotor,
	the measurement lower limit can reach 5mPa.s/cP
Low viscosity measurement range	5-1 million (mPa•s/cP), standard rotor number: 4
	(21#, 27#, 28#, 29#). Optional No. 0 rotor, the
	measurement lower limit can reach 1mPa.s/cP
The temperature control range of the heating	room temperature +10°C-250°C (if you need a higher
furnace	temperature, please specify)
Temperature control accuracy of heating furnace	±0.1℃
Speed	0.1 rev/min-200.0 rev/min stepless speed change
	(no gear drive)
Measurement accuracy	±1.0% (full scale)
Reproducibility	0.5% (full scale)
Input voltage	110V/220V
Input frequency	50Hz/60Hz
Optional accessories	Ultra-low viscosity adapter (rotor 0), micro-printer,
	SNB data acquisition and plotting software, standard
	oil



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19.2 Brookfield Heating Viscometer



NDJ-1C

Brief intruduction

The newly designed NDJ-1C high-temperature Brookfield rotational viscometer not only has more modern aesthetic elements in appearance, but also has more convenient operation, more accurate measurement and more complete functions. Brookfield rotational viscometer (NDJ-1C) can measure the dynamic viscosity of hot melt adhesive, asphalt, paraffin and other high temperature melting materials. This machine adopts the latest international microcomputer drive technology, imported stepping motor, and LCD backlight display. It has functions such as timing measurement, level bubble front, stable speed, good accuracy, programmed design, easy operation, and error alarm. The screen directly displays Viscosity, speed, percent torque, rotor number, temperature of the liquid to be measured, etc. The instrument's full scale and linearity of each gear are all measured and calibrated through the PC interface, using standard samples of different viscosities to ensure that the instrument has good accuracy and repeatability.

The main features

- 1. The measurement data is directly displayed on the LCD screen without secondary calculation.
- 3. Using switching power supply technology, the voltage and frequency range is wide, and the fluctuation of the power supply will not affect the measurement accuracy.
- 4. The level display device is on the front of the viscometer, which is very convenient to adjust (new function).
- 5. The accuracy of the displayed value of the viscosity is accurate to two decimal places, that is, 0.01mPa.S (new function).
- 6. It has the function of timing measurement, which is very practical for detecting non-Newtonian liquids (new function). the
- 7. Some wax-like samples have very low viscosity and can be measured with 0# rotor (new function).
- 8. The high-temperature furnace adopts built-in overall heating, which is evenly heated and has small thermal inertia.
- 9. The temperature controller adopts the latest algorithm self-tuning PID adjustment technology, and the temperature control is accurate. The large-screen backlit LCD screen directly displays information such as set temperature, actual temperature, working status, heating power, etc., and is easy to operate.
- 10. It can automatically display the viscosity range that can be measured by the selected combination.
- 11. With a printing interface, it can be directly connected to a micro-printer to print various data (new function).



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Model	NDJ-1C
Display mode	backlit LCD, digital display
Speed(r/min)	0.5 / 1 / 2 / 5 / 10 / 20 / 50
Rotor	21#, 27#, 28#, 29#
Measuring range (mPa.s)	10^\sim 200,000 (200,000) (standard configuration,
	using 21, 27, 28, 29# rotors)
	1-100 (use 0# rotor) (optional, please specify when
	ordering)
Measurement error(Newtonian liquid)	±3%
Repeat error(Newtonian liquid)	±0.5%
Heating method	electric heating
Temperature control range	room temperature +10 $^{\circ}\mathrm{C}$ $^{\sim}$ 250 $^{\circ}\mathrm{C}$
Temperature control accuracy	0.1°C
Temperature measurement interface	YES
Data output interface	YES
Data processing software	optional
Dimensions (mm)	300 × 300 × 450



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19.3 High Range Digital Rotational Viscometer



Brief introduction

The high range digital rotational viscometer is used to measure the viscous resistance of liquid and the dynamic viscosity of liquid. The high range digital rotational viscometer is used to measure the viscous resistance of liquid and the dynamic viscosity of liquid.

It range digital rotational viscometer is widely used in the determination of the viscosity of various liquids such as oil, paint, food, paint, paper, cosmetics, chemicals, capsule adhesives and medicines.

Model	NDJ-8S	NDJ-5S
Measuring rotor	#1. #2. #3. #4 four rotors	#1. #2. #3. #4
Measuring speed	0.3, 0.6, 1.5, 3, 6, 12, 30, 60RPM/min	6r/min. 12r/min. 30r/min. 60r/min
Measuring range	10mPa.s·2000000mPa·s(1mPa·S=1cp)	10mPa.s·100000mPa·s(1mPa·S=1cp)
Measurement error	±3%	
Dimensions	95*130*155 (excluding the base)	
Net weight	2kg (excluding the base)	



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20. Fully Automatic Dry Laser Particle Size analyzer



JH2020-L

Brief introduction

Our company regards "creating the most stable domestic laser particle size instrument" as its own responsibility, and takes science and technology to create a brand, quality to enter the market, and reputation to win the world as its policy, and strives to create an ultra-stable and cost-effective domestic laser particle size instrument. YK2020-LDry Intelligent Automatic Laser Granulometer has won unanimous praise from customers since its launch.

YK2020-L Dry Intelligent Automatic Laser Granulometer is a dry automatic laser particle size analyzer, which is widely used in the powder industry. Our company has designed different templates for different industries. Customers can choose cement templates, abrasive templates, etc. according to their needs.

The main features

The optical path is upgraded to a double-lens design: strictly refer to international standards, effectively improve the effective optical path of sample dispersion, avoid errors caused by calculation, and make the measurement results more accurate. The converging light Fourier transform test technology is used to ensure the maximum range at the shortest focal length, effectively improve the resolving power of the instrument; the unique arrangement of small probes enables the 2010 to have super small particle testing capabilities. The superior automatic centering system and computer operating system highlight the humanized design of YK2020-L.

Highly stable optical path optimization: The ingenious design allows YK2020-LDry Intelligent Automatic Laser Granulometer to have the most advanced high-stable optical path. It uses high-stability, high-power fiber output lasers. The excellent configuration makes YK2020-L have super stability; the main optical path A fully enclosed design is adopted to ensure that the instrument can be tested in a complex environment for a long time.

★Fully sealed fiber semiconductor laser: It adopts a highly stable and long-life fully sealed imported fiber semiconductor laser. The excellent stability makes YK5200-H have super test repeatability, and its life is more than 30,000 hours.

★Laser power monitoring and automatic adjustment: exclusive use of constant power laser, real-time detection of laser power and automatic adjustment function, effectively avoiding the problem of laser power attenuation caused by long-term use. At the same time, a constant current, constant voltage and high filter laser power supply is used to effectively prolong the life of the laser, and the normal use can reach more than 30,000 hours.

★Laser intelligent management system: YK2020-LDry Intelligent Automatic Laser Granulometer is the first to add a laser intelligent management system. The intelligent management system monitors the working status of the instrument in real time. Once it receives a work order, the intelligent management system will



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instantly light up the laser, and the high-performance laser will be activated within 3 seconds. to achieve a stable working state. After the sample test is completed, the intelligent management system will automatically turn off the laser, and the laser will basically not attenuate. In theory, there is no need to replace the laser for life.

Unique dry dispersing system: YK2020-L dispersing system is optimized on the basis of French theoretical data, which makes YK2020-L disperse dry powder more evenly, and the super negative pressure ensures the continuity and uniformity of feeding, effectively avoid the mutual adhesion of dry powder during the test. The feeding method is newly upgraded: the upgraded dispersed samples directly enter the measurement area, which can effectively solve the problem of inaccurate test results caused by the secondary agglomeration of samples; at present, only our family adopts this method in China, and imported instruments are also In this way, other manufacturers have to pass through a hose after dispersing, which will cause the samples to reunite.

Detector: The YK2020-LDry Intelligent Automatic Laser Granulometer detector adopts a new design combining the main detector and the auxiliary detector, which ensures seamless detection in the full range of the instrument and makes the test more accurate. The main detector is designed with an automatic centering system, which can realize one-key automatic centering of the instrument, highlighting the humanized design. At the same time, it effectively avoids damage to the detector by manual centering, effectively prolonging the service life of the instrument.

Dust-proof and shock-proof design: The instrument is sealed as a whole, which greatly improves the service life of internal components. The unique suspension structure can effectively avoid the interference of external vibration to the instrument, making the test results more stable and reliable.

Automatic calibration of the optical path: the optical path changes slightly, and the instrument can adjust the optical path by itself to avoid damage to the detector during manual adjustment.

No residue in the pipeline: After the test is completed, there is no residual sample in the pipeline, which will not interfere with the next test.

Computer-controlled feeding: The tester can accurately control the feeding amount of the instrument with the help of a computer.

Software: Complies with the GMP regulations of the Pharmacopoeia, and has functions such as electronic signature, authority setting, data tracking, and data cannot be changed.

Model	YK2020-L	YK2020-H
Executive standard	ISO 13320-1:1999; GB/T19077.1-	ISO 13320-1:1999; GB/T19077.1-
	2008	2008
Test range	0.1μm -1250μm	0.1μm -2000μm
Number of detector channels	101	109
Accuracy error	<1% (D50 value of national standard	l sample)
Repeatability error	<1% (D50 value of national standard	sample)
Feeding method	Mechanical stepless speed regulation	n vibration feeding, software
	control	
Oil-free silent air compressor	with dust filtering function to ensure test accuracy	
Freeze Dryer	he freeze dryer can filter the moisture in the air to ensure the	
	dispersion effect	
Misoperation protection	The instrument has the self-protection function of misoperation, and	
	the instrument does not respond to	misoperation
Laser parameter	Imported fiber output high power laser λ= 650nm, p>10mW	
The laser intelligent	management system monitors the working status of the instrument in	
	real time. Once the intelligent mana	
	order, the laser will be turned on ins	
	laser will reach a stable working stat	te within 3 seconds.



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Lens	Imported Canon lens
Dispersion method	High pressure air dispersion
Intelligent operation mode	Software intelligent automatic control operation
Optical path alignment	Optical path automatic calibration
Test speed	<1min/time (excluding sample dispersion time)
Volume	980mm*410mm*450mm
Weight	35KG
software function	
Test report	The test report can be exported to Word, Excel, picture (Bmp) and text (Text) documents in various forms, satisfying the need to view test reports on any occasion and quote test results in scientific research articles
Self-DIY	user-defined data to be displayed, find the percentage according to the particle size, find the particle size according to the percentage
Statistical method	Volume distribution and quantity distribution to meet different statistical methods for particle size distribution in different industries
Statistical comparison	Statistical comparative analysis can be carried out for multiple test results, and the difference between different batches of samples, samples before and after processing, and test results at different times can be clearly compared, which has strong practical significance for the quality control of industrial raw materials
Analysis modes	Include free distribution, R-R distribution and logarithmic normal distribution, statistical mode according to object classification, etc., to meet the different requirements of different industries for the particle size statistics of the tested samples
Display template	Calculate the percentage of the particle size interval to meet the characterization methods of particle size testing in different industries. Radius distance, consistency, interval accumulation, etc.
Intelligent operation mode	The truly automatic unattended operation, without interference from human factors, you only need to add the sample to be tested according to the prompts, and the repeatability of the test results is better.
Multi-language support	Chinese and English language interface support, and other language interfaces can also be embedded according to user requirements.



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21.Intelligent Hardness Tester



Brief introduction

YK-YD01 Intelligent Hardness Tester uses a single-chip microprocessor to control the operation interface. It uses a high-precision ball screw and a high-resolution DSP driver inside. The distance control is accurate, the degree of intelligence is high, the function is diverse, and it is easy to use.

The transmission adopts a redundant line design scheme and is equipped with a high-precision pressure sensor to ensure accurate and stable data. It can realize manual dispensing and automatic measurement. And store the measurement data. Meet the needs of major pharmaceutical companies, drug control institutes and drug research units.

The main features

- Manual setting out to measure diameter and hardness.
- High-precision ball screw detection system.
- High resolution DSP driver.
- Redundant wiring design ensures stable and reliable connection.
- Storage quantity: 40 samples X 60 times (single account).
- Authority management: four levels of authority.
- Number of accounts: 8.
- Audit trail: 8000 entries.
- Color touch screen.
- Detection protection.

Model	YK-YD01
Hardness measuring range	10N-500N
Hardness resolution	0.01N
Hardness accuracy	±1.0%±0.1digit
Hardness measurement unit	N or KGF
Diameter measurement range	1mm-28mm
Diameter resolution	0.01mm
Diameter accuracy	±0.05mm



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22. Open flash point tester 22.1 Open flash point tester = YK-267



Brief introduction

The manufacture of this YK-267 Open Flash Point Test Device conforms to the requirements stipulated in the industry standard SH/T 0318 of the People's Republic of China "Technical Conditions for Open Flash Point Tester" and Shanghai Enterprise Standard Q/YXYY 23 "SYD-267 Open Flash Point Tester for Petroleum Products".

YK-267 Open Flash Point Test Device is suitable for determining the flash point and ignition point of lubricating oil and dark petroleum products according to the method stipulated in the People's Republic of China Standard GB/T 267 "Determination of Flash Point and Fire Point of Petroleum Products (Open Cup Method)".

The main features

- 1. The design of this YK-267 Open Flash Point Test Device fully complies with the requirements of SH/T 0318 and GB/T 267 standards.
- 2. The heating power is continuous and stepless adjustable, the power level is directly displayed by the ammeter, and the temperature control method is advanced and reasonable.
- 3. It adopts desktop and compact structure design, which is easy to operate and use.

The biggest feature of this instrument is: simple structure, continuous and stepless adjustable heating power.

Model	YK-267
Working power supply	AC(220±10%)V, 50Hz
Outer crucible Material	(1)high-quality carbon structural steel with black
	plating on the surface;(2) Inner diameter of upper
	opening: Φ100 mm±5 mm;
	(3) Height: 50 mm±5 mm;
	(4) Bottom inner diameter: Ф56 mm±2 mm.
Inner crucible Material	(1) high-quality carbon structural steel with black
	plating on the surface;



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	(2) Inner diameter of upper opening: Ф64 mm±1 mm;
	(3) Height: 47 mm±1 mm;
	1
	(4) Bottom inner diameter: 38 mm±1 mm;
	(5) Scale line: There is a scale line at 12mm and
	18mm from the edge of the upper mouth
Gas conduit	The diameter of the nozzle is Φ 0.8 $^{mm}\sim$ Φ 1 mm , and
	the surface of the inner hole is smooth so that the
	flame can be adjusted by 3 mm \sim 4 mm
Heater	electric furnace heating, heating power 1000W
	adjustable
Thermometer	(0 \sim 360) $^{\circ}$ C, graduation 1 $^{\circ}$ C, the technical
	conditions comply with the provisions of GB/T 514
Power consumption of the whole machine	not more than 1100W
Dimensions	310 mm×230 mm×400 mm (length×width×height,
	excluding thermometer)

22.2 Cleveland Open Flash Point Tester



JH-3536-1

Brief introduction

This YK-3536-1 Cleveland Open Flash Point Tester is designed and manufactured in accordance with the requirements of the People's Republic of China Standard GB/T 3536-2008 "Determination of Flash Point and Ignition Point of Petroleum Products Cleveland Open Cup Method". Flash point and fire point of petroleum products and asphalt outside $^{\circ}\text{C}$.

The main features

- 1. YK-3536-1 Cleveland Open Flash Point Tester adopts single-chip microcomputer control technology and LCD screen display, Chinese man-machine dialogue interface, continuous stepless adjustable heating power, and convenient parameter setting.
- 2. The liquid crystal display has a prompt menu and a prompt input operation interface, which can display the setting parameters and real-time display of the sample temperature and various test parameters. When the flash point appears, press the record key lightly, and the display will display and retain the flash point value.
- 3. The design is novel, the structure is compact, and the stainless steel table is beautiful. The user only needs



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to add gas or other civil combustible gas to carry out the test. It is easy to use and the test result is accurate.

4. YK-3536-1 Cleveland Open Flash Point Tester is equipped with a windshield and a flame extinguishing cover, which meets the requirements of the ignition test.

The biggest feature of this instrument is: the heating rate is accurate, only need to manually observe whether the flash point appears, the rest is done automatically by the instrument, the instrument is cost-effective.

Technical parameters

Model	YK-3536-1
Working power supply	AC (220±10%) V, 50Hz
Heating device	Electric furnace heating, no open flame, explosion-
	proof, power (0~ 600) W continuously adjustable,
	maximum heating temperature 400°C
Temperature control	Single-chip microcomputer temperature control, the
	heating rate meets the requirements of GB/T 3536-
	2008 standard
Temperature display	The LCD screen displays various temperature
	parameters, the display value is (0-400) °C, and the
	accuracy is 0.1 °C
Sweeping device	automatic sweeping
Temperature sensor	PT100 platinum resistance temperature sensor
Ignition device	(1) Ignition source: coal gas (or other civil
	combustible gas);
	(2) Nozzle aperture: about 0.8 mm
Relative humidity	≤85%
Power consumption of the whole machine	not more than 650W
Dimensions	340 mm×320 mm×450 mm (length×width×height,
	including sensors)
Ambient temperature	(-10∼ 50)℃

22.3 Automatic Open Flash Tester





Brief introduction



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YK-3536A Automatic Open Flash Tester is designed and manufactured according to the requirements of the People's Republic of China Standard GB/T 3536-2008 "Determination of Flash Point and Ignition Point of Petroleum Products Cleveland Open Cup Method". The flash point of petroleum products with an open cup flash point higher than 79°C.

YK-3536A Automatic Open Flash Tester is an automatic open flash point tester, which is an ideal substitute for similar imported instruments, and can be widely used in railway, aviation, electric power, petroleum industries and scientific research departments.

YK-3536D Fully Automatic Open Flash Point Tester is designed and manufactured in accordance with the requirements stipulated in the standard of the People's Republic of China GB/T 3536-2008 "Determination of Flash Point and Fire Point of Petroleum Products (Cleveland Open Cup Method)". And the open cup method flash point of petroleum products with an open flash point lower than 79°C.

YK-3536D Fully Automatic Open Flash Point Tester can be widely used in the railway, aviation, electric power, petroleum industry, colleges, scientific research institutes, metrology and testing departments and other units to detect and test the flash point and ignition point of petroleum products.

The main features

YK-3536A Automatic Open Flash Tester Main technical features

- 1. The YK-3536A Automatic Open Flash Tester adopts a large color LCD display, a touch-screen keyboard, and a full-Chinese man-machine dialogue interface. For parameters such as predictable flash point, sample label, atmospheric pressure, and test date, it has prompt menus and guided input functions. There are operating knowledge prompts on the screen.
- 2. Simulation tracking shows the function curve of temperature rise and test time. It has a small operation knowledge interface, Chinese misuse software prompt function, and can modify test date, test time and other parameters.
- 3. YK-3536A Automatic Open Flash Tester can store 10 screens and 120 sets of historical data.
- 4. No gas source is needed, and electronic ignition is adopted, which is safe to use and easy to operate.
- 5. Automatically correct the influence of atmospheric pressure on the test and calculate the correction value.
- 6. Differential detection, automatic correction of system deviation.
- 7. Swiping, testing, and printing data are automatically completed, and the test arm automatically rises and falls.

YK-3536D Fully Automatic Open Flash Point Tester Main features

- 1. Fully automatic open flash point tester, used to determine the open flash point value of petroleum products.
- 2. Adopt 8-inch pure industrial true-color touch screen, switch between Chinese and English interfaces at will, and WindowsCE embedded operating system.
- 3. YK-3536D Fully Automatic Open Flash Point Tester has the self-diagnosis function of the instrument to check whether there is any fault and display its status.
- 4. Input the atmospheric pressure value to automatically correct the influence of atmospheric pressure on the test and calculate the correction value.
- 5. The lower computer stores 120 sets of historical data.
- 6. The ignition mode can be selected manually or automatically. (This machine is electric ignition)
- 7. Detection, scanning, ignition and printing are all fully automatic.
- 8. Adopt imported Renesas single-chip microcomputer and PT1000 high-precision temperature sensor imported from Germany.
- 9. It has the function of preventing fire from overheating and automatically stopping work.
- 10. The instrument is equipped with a ignited fire extinguishing cover that automatically extinguishes the ignited flame.



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- 11. Built-in high-precision flash point detection sensor, the detection time can reach millisecond level.
- 12. Simulation tracking shows the function curve of temperature rise and test time.

Technical parameters

Model	YK-3536A	YK-3536D
Working power supply	AC220(-10%∼+5%)V, 50Hz	AC (220±10%) V, 50Hz
Temperature measurement	Range: room temperature to 400°C;Temperature display unit: 0.1°C	
Repeatability	≤8°C (flash point and fire point)	
Reproducibility	≤17°C (flash point), ≤14°C (ignition point)	
Heating speed	in line with GB/T3536 standard	
Ignition method	electronic ignition	ignite with electronic ignition
Ambient temperature	(10∼40)℃	
Relative humidity	≤80%	
Power consumption of the whole	not more than 400W	not more than 500W
machine		
Dimensions	(when the lifting arm is not lifted)	(when the lifting arm is not lifted)
	410 mm×360 mm×310 mm	520 mm×360 mm×310 mm
	(length×width×height);	(length×width×height);
	(When the lifting arm is raised)	(When the lifting arm
	410 mm×360 mm×420 mm	is raised) 520 mm×360 mm×420 mm
	(length×width×height)	(length×width×height).

Note: This instrument requires special order.



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23.Closed Flash Point Test Device 23.1 Closed Flash Point Test Device = YK-261-





Brief introduction

YK-261-1 Closed Flash Point Test Device is designed and manufactured in accordance with the requirements stipulated in the national standard GB/T 261-2008 of the People's Republic of China "Pinsky-Martin Closed Cup Method for the Determination of Flash Point", and is suitable for the The method is to determine the flash point of petroleum products with a flash point higher than 40°C by the closed cup method.

YK-261A Automatic Closed Mouth Flash Dot Testor is designed and manufactured in accordance with the requirements stipulated in the industry standard SH/T 0315 "Technical Conditions for Closed Flash Point Meter" of the People's Republic of China.

YK-261A Automatic Closed Mouth Flash Dot Testor is suitable for determining the closed cup flash point of petroleum products according to the method stipulated in the standard GB/T 261-2008 of the People's Republic of China "Determination of Flash Point - Pensky-Martin Closed Cup Method".

The main features

YK-261-1 Closed Flash Point Test Device Main technical features

- 1. The biggest feature of this YK-261-1 Closed Flash Point Test Device is: accurate heating rate, in line with GB/T 261-2008 standard requirements
- 2. Using single-chip microcomputer control technology and LCD screen display, Chinese man-machine dialogue interface, continuous stepless adjustable heating power, convenient parameter setting.
- 3. The liquid crystal display has a prompt menu and a prompt input operation interface to display the setting parameters and real-time display of the sample temperature and various test parameters. When the flash point appears, press the record key lightly, and the display will display and retain the flash point value.
- 4. The design is novel, the structure is compact, and the stainless steel table is beautiful. The user only needs to add gas or other civil combustible gas to carry out the test. It is easy to use and the test result is accurate. The biggest feature of this instrument is: the heating rate is accurate, only need to manually observe whether the flash point appears, the rest is done automatically by the instrument, the instrument is cost-effective.

YK-261A Automatic Closed Mouth Flash Dot Testor Main technical features



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- 1. YK-261A Automatic Closed Mouth Flash Dot Testor adopts large color LCD display, full Chinese manmachine dialogue interface, no logo keyboard, and has prompt menu-guided input for parameters such as predictable temperature, sample label, atmospheric pressure, and test date.
- 2. The simulation track shows the function curve of temperature rise and test time. It has the function of Chinese misuse software prompting and modifying, and the function of prompting parameters such as test date and test time.
- 3. Can store 100 sets of historical data.
- 4. Automatically correct the influence of atmospheric pressure on the test and calculate the correction value.
- 5. Differential detection, automatic correction of system deviation.
- 6. Open the cover, ignite, detect, and print data automatically, and the test arm automatically rises and falls.
- 7. Humanized appearance design, beautiful, safe and easy to operate.

The biggest feature of this instrument is: the color display screen displays various setting parameters and test parameters, the whole test process is automatically completed, and the test results are automatically printed.

Model	YK-261-1	YK-261A
Working power supply	AC(220±10%)V, 50Hz	AC220 (-10%∼+5%)V, 50Hz
Heating device	 (1) The furnace body is made of silicon carbide material, and the power is 600W electric heating wire. (2) The heating power is adjustable from 0 to 600W 	-
Sample heating rate	Step A: (5~6) °C/min;	Step A: (5~8)°C/min;
	Step B: (1 \sim 1.5)°C/min;	Step B: (1 \sim 1.5) $^{\circ}$ C/min;
	automatic control.	Automatic control, manual adjustable.
Electric stirring device	 (1) Stirring motor (BYGH101 stepping motor). (2) Transmission mode: flexible shaft connection. (3) Stirring blade specification: 8 mm ×40 mm. 	-
Stirring speed	Meet the requirements of GB/T 261-2008	(1) (90 \sim 120) rpm, suitable for test step A.
	standard.	(2) (250±10) rpm, applicable to test step
	(1) (90 \sim 120) rpm, suitable for test step A.	В.
	(2) (250±10) rpm, applicable to test step B.	Automatic control, manual fine-tuning.
Ignition device	(1) Ignition source: coal gas (or other civil combustible gas, the same below). (2) Igniter aperture: $(0.7 \sim 0.8)$ mm.	gas flame (ignited by gas ignition)
Temperature probe	Pt100	-
Ambient temperature	≤35°C	(10∼40)°C; relative humidity: ≤80%
Relative humidity	≤85%	-
Power consumption of the whole machine	not more than 650W	not more than 500W
Dimensions	340 mm ×330 mm ×380 mm (length×width×height)	(when the lifting arm is not lifted) 410 mm ×360 mm×310 mm (length×width×height); (When the lifting arm is raised) 410 mm ×360 mm×420 mm (length×width×height).



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23.2. Full Automatic Closed Flash Point Test Device



Brief introduction

The YK-261D Full Automatic Closed Flash Point Test Device is designed and manufactured according to the requirements stipulated in the national standard GB/T261-2008 "Determination of Flash Point: Pensky-Martin Closed Cup Method". It is applicable to the method specified in this standard to determine the lowest temperature when the closed cup of petroleum products is heated under specified conditions until the mixture of its steam and air comes into contact with the flame and flashes, that is, the flash point of the closed cup method. The product can be widely used in customs, railway, aviation, electric power, petroleum industry and scientific research departments.

The main features

- 1. The core host adopts Tl's AM3354 processor, Cortex-A8 core, 1GHz main frequency; the operating system adopts Windows Embedded Compact 7 real-time industrial control system. Completely abandon the single-chip microcomputer with no core and no operation streaking, truly realize the modernization of instrument control, and make the instrument enter a new era of intelligence.
- 2. The display adopts an imported 7.0-inch 800×480 pixel true-color TFT-LCD display; the keyboard adopts a human body induction touch screen. The operation interface is all in Chinese, the display is exquisite, intuitive and elegant, the operation is convenient, and the touch is free.
- 3. The historical data storage adopts NVM data memory storage, which can store 560 historical data, and the data can be stored for 10 years without loss, and the stored data cannot be changed.
- 4. The printer adopts a miniature embedded thermal printer, which prints more quietly, quickly and clearly.
- 5. Temperature measurement and control adopts imported PT100 platinum resistance temperature sensor, high-precision AD converter, excellent linear mathematical model, and unique control algorithm to make temperature measurement and control faster, more accurate and more stable.
- 6. The ignition is directly ignited by the electronic flame, which is exactly the same as the gas flame ignition, which is safe, convenient, fast, reliable and without interference.
- 7. The flash fire detection adopts the high-frequency ion ring flame detection technology, so that the instantaneous flash fire of the sample can be quickly and accurately captured, avoiding false detection and missed detection.



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8. Atmospheric pressure measurement adopts an atmospheric pressure sensor with a fully digital structure imported from Germany to measure the local atmospheric pressure in real time and automatically correct the influence of atmospheric pressure changes on the measurement data.

- 9. Automatically complete heating, detection, calculation, printing and other operations.
- 10. The shell of the whole machine is made of engineering plastic ABS material, which is beautiful in appearance, lighter in weight than the previous metal shell, more convenient to move, and safer to operate.

Technical parameters

Model	YK-261D
Measuring range	room temperature to 300°C
Measurement accuracy	0.1°C
Repeatability	≤4°C
Ignition method	direct ignition with high-voltage self-excited arc
	technology
Flash fire detection	adopt pulse high voltage ion ring flame detection
	technology
Data storage	560 historical data can be stored, which cannot be
	deleted, and will be kept when power off
Cooling method	strong air cooling
Ambient temperature	room temperature \sim 45 $^{\circ}\mathrm{C}$
Ambient humidity	≤85%
Power supply	220±5% V.A.C
Frequency	50±2.5% Hz
Power	500W
Dimensions	466×400×290mm
Instrument weight	20Kg

23.3. Quick Low Temperature Closed -mouth Flash Dot Testor



Brief introdutction

This YK-5208D Quick Low Temperature Closed -mouth Flash Dot Testor is designed and manufactured in accordance with the requirements of the People's Republic of China Standard GB/T 5208-2008 "Determination of Flash Point Rapid Equilibrium Closed Cup Method", which can meet the requirements of petroleum, chemical, coating, paint, railway, aviation, electric power, commodity inspection, Requirements of troops and scientific research units for closed flash point quick test of petroleum products.

This YK-5208D Quick Low Temperature Closed -mouth Flash Dot Testor is especially suitable for testing the closed-cup flash point of various paints, paints, adhesives, solvents, petroleum and related products with a closed-cup flash point within the range of 0°C to 100°C. the

The instrument also complies with the requirements of the ISO 1523 and ISO 3679 standards.



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The main features

- 1. Designed according to the standard of GB/T 5208-2008 "Determination of Flash Point: Rapid Equilibrium Closed Cup Method", to achieve the purpose of fast and low temperature test of closed cup flash point.
- 2. Using semiconductor refrigeration device and external cooling water cooling device, the instrument is small in size, fast in cooling speed and easy to use.
- 3. There are few test samples, only 2ml is needed for each injection (4ml for each injection of solid or semi-solid samples).
- 4. In addition to ignition, the test process is automatically completed, and the test results are automatically printed.
- 5. Using touch screen control technology, the operation control is all completed on the display screen, with advanced functions and convenient operation.

recinical parameters	
Model	YK-5208D
Working power supply	AC(220±10%)V, 50Hz
Flash point detection range	(0∼100)℃
Measurement precision	The absolute difference between the two
	experimental results is less than 2°C (same operator);
	The absolute difference between the two
	experimental results is less than 3°C (different
	operators);
Temperature control accuracy	±0.5°C
Ignition device	electronic ignition gun ignition
Gas supply source	artificial gas, liquefied petroleum gas (or other civil
	combustible gas);
Refrigeration method	semiconductor refrigeration (external cold water
	cycle);
Power consumption of the whole machine	not more than 300W;
Ambient temperature	(5∼30)℃
Relative humidity	(30~80)%
Dimensions	370 mm×280 mm×280 mm (length×width×height)