

BPA - 3070

Boiling Point Apparatus



EPCC / PRODUCTS / APPLICATION / SOFTWARE / ACCESSORIES / CONSUMABLES / SERVICES

Analytical Technologies Limited

An ISO 9001 Certified Company

www.analyticalgroup.net

▶▶ INTRODUCTION

1. Boiling point Apparatus

1.1 Digipol Series - Automatic Boiling point Apparatus

Boiling point meter is an instrument for measuring the Boiling point of a substance. The Boiling 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 Boiling point is the basic means to identify the nature of a substance, and also one of the important methods for the determination of purity.

Analytical Technologies automatic Boiling 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. Highdefinition video can easily and clearly see the whole process of sample Boiling, automatic detection realtime Tupu display, convenient for users to accurately measure the sample Boiling point and melt distance.

▶▶ FIELDS OF USE

1. Boiling 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°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 21CFR Part 1, audit trail, pharmacopoeia and electronic signature.

►► TECHNICAL PARAMETERS

Model	BPA 3030	BPA 3050	BPA 3070	BPA 3080	BPA 3090	BPA 3130
Temperature range	RT -360°C	RT -420°C	RT -360°C	RT -400°C	RT -420°C	RT -420°C
Detection method	Semi-automatic	Semi-automatic	Automatic with manual	Automatic with manual	Automatic with manual	Automatic with manual
Processing capacity	4 pcs per batch					
Test mode	Boiling point	Boiling point	Melting point	Melting point	Melting point	Boiling / boiling / cloud / slip point
Temperature resolution	0.01°C					
Heating rate	0.1°C--20°C (200 gears, steplessly adjustable)					
Temperature control mode	PID precise temperature control, fully enclosed design of the furnace body					
Accuracy	±0.3°C	±0.2°C	±0.3°C	±0.2°C	±0.2°C	±0.2°C
	(<250°C)	(<250°C)	(<250°C)	(<250°C)	(<250°C)	(<250°C)
	±0.5°C	±0.4°C	±0.5°C	±0.4°C	±0.4°C	±0.4°C
	(>250°C)	(>250°C)	(>250°C)	(>250°C)	(>250°C)	(>250°C)
Repeatability	Boiling point repeatability was ±0.1°C at 0.1°C/Min					
Magnification	9 times					
Display method	10.4 inch FTF color touch color screen					
Data storage	32G	64G	32G	64G	128G	128G
Graph save	200 units	400 units	200 units	400 units	600 units	600 units
Map	-	-	Any zoom	Any zoom	Any zoom	Any zoom
User management	YES / Level 4 authority					
Audit trails	YES					
21 CFR part 11	YES					
Custom method libraries	YES					
Export file verification MD5	YES					
Printing	WIFI , serial port					
Export format	PDF & EXCEL					
Data interface	USB ,RS232, SD,Wi-Fi、 RJ45、 U disk					

▶▶ 1.2 AT SERIES - BOILING POINT APPARATUS



Model	AT 3030	AT3040	AT3050	AT 3060	AT 3070	AT3080	AT3090
Temperature range	RT -350°C	RT -350°C	RT -400°C	RT -400°C	RT -350°C	RT -400°C	RT -420°C
Detection method	Manual	Automatic & Manual	Manual	Automatic & Manual	Automatic & Manual	Automatic & Manual	Automatic & Manual
Processing capacity	4 pcs per batch						
Test mode	Boiling point						
Temperature resolution	0.1°C						
Heating rate	0.1°C--20°C, (200 gears, steplessly adjustable)						
Accuracy	±0.3°C (<250°C) ±0.5°C (>250°C)						
Repeatability	Boiling point repeatability was ±0.1°Cat 0.1°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	TFT HD color screen						
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 CFR part 11	NO						
Data interface	USB , RS232, RJ45						
Capillary size	OD: Φ1.4mm ID: Φ1.2mm				OD: Φ1.4mm ID: Φ1.0mm		
Packing Size	430*320*370mm						
Power supply	110-230V,50/60Hz,120W						
Gross Weight	6.5 kg						

▶▶ 1.3 DIGIPOL & ATY SERIES - GREASE/OIL BOILING POINT APPARATUS (FOR BLOCK AND PASTE)



▶▶ BRIEF INTRODUCTION

Automatic grease Boiling point meter can quickly and accurately determine the Boiling 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 Boiling point of oil, eliminate the subjective error of judging the Boiling 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 Boiling point determination method

►► TECHNICAL PARAMETERS


Model	ATY3030	ATY3050	ATY3080	ATY3090
Temperature display range	0-350°C	0-100°C	0-400°C	0-100°C
Temperature control range	RT-350°C	(RT -20)-100°C	RT-400°C	(RT -20)-100°C
Temperature resolution	0.1°C			
Heating gradient	0.1°C-20°C/ minutes	0.1°C-10°C/ minutes	0.1°C- 20°C/ minutes	0.1°C-10°C/ minutes
Cooling rate	Wind cooling	Semiconductor cooling	Wind cooling	Semiconductor cooling
Temperature accuracy	±0.3°C (<100°C)	±0.3°C (<100°C)	±0.2°C (<100°C)	±0.2°C (<100°C)
	±0.5°C (>100°C)		±0.4°C (>100°C)	
Repeatability	Boiling point repeatability was ±0.1°C at 0.1°C/Min			

Detection method	Manual	Semi-automatic	Fully automatic (compatible with manual)	Fully automatic (compatible with 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,Length:800mm (Large capillary)			
Processing capacity	3 pcs per batch			
Number of user management	-	8	10	200
Video playback	-	YES	YES	YES
User Management	-	YES	YES	YES
Power supply	AC 220V 50/60Hz 120W			
Packing size	430*320*370mm			
Gross weight	6.5kg			

►► MARK

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

▶▶ 1.4 ATX SERIES - MICRO BOILING POINT APPARATUS

Picture	Name	Model	Temperature range	Detection Method	Storage Capacity	Heating Rate	Data interface	Fan	Can be equipped with a printer
	Micro Melting Point instrument	ATX 3004	Room temperature 350 °C	Microscopic visual inspection		(0.1-10) °C/Min	RS232	No	No
		ATX 3004 Plus	Room temperature 400 °C	Microscopic visual inspection				Yes	Yes
		ATX 3005	Room temperature 350 °C	Microscopic video				No	No
		ATX 3005 Plus	Room temperature 400 °C	Microscopic video				Yes	Yes

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3007



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Chromatograph
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Chromatograph



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Spectrophotometer



Liquid Particle
Counter



Optical Emission
Spectrophotometer



DSC/TGA



Semi Auto Bio
Chemistry Analyzer



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Micro Plate
Reader/Washer



URINOVA 2800
Urine Analyzer



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system

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