AP Series Specifications

W Series Analytical Balances

Series	W Series					
Model	**AP135W**	**AP125WD**	**AP225WD**	**AP124W**	**AP224W**	**AP324W**
Capacity	135 g	120 g / 52 g	220 g / 102 g	120 g	220 g	320 g
Minimum Display	0.01mg	0.1 mg / 0.01 mg			0.1 mg	
Calibration Weight	Built-in					
External Calibration Weight Range for Span Calibration	45 to 135.0009 g (100 g)	45 to 120.0090 g (100 g)	95 to 220.0090 g (200 g)	45 to 120.009 g (100 g)	95 to 220.009 g (200 g)	95 to 320.009 g (300 g)
Repeatability (Standard deviation)	0.05mg	0.1 mg / 0.02 mg	0.1 mg / 0.05 mg	0.1 mg		0.15 mg
Repeatability (for Low Loads)	0.015 mg (5 g low loads)			0.1 mg (5 g low loads)	0.1 mg (10 g low loads)	0.1 mg (20 g low loads)
Minimum Weight*1	30 mg			200 mg		
Linearity	±0.1 mg	±0.2 mg /±0.05 mg	±0.2 mg /±0.1 mg	±0.2 mg		±0.3 mg
Response Time for race Measurements *2	2 sec.					
Response Time*3	8 sec.	2 sec. / 8 sec.		2 sec.		
USB Host (Type A)	Included					
USB Device (Type B)	Included					
Recipe Compounding	Included					
HPLC Buffer Solution Preparation	Included					
mol Conversion Function	Included					
Sample (Concentration) Preparation	Included					
Inspection Support Function	Included					
Clock-CAL	Included					
Ionizer	Optional					
Operating Temperature/Humidity Range	5 to 40°C 20 to 85%*4					
Sensitivity Stability Against Temperature Range	±2 ppm/°C (10 to 30°C)					
Pan Size	ø91 mm					
Body Dimensions	Approx. 212(W)×411(D)×345(H)mm (power supply unit included)			Approx. 212(W)×367(D)×345(H)mm		
Weight	Approx. 7.9kg			Approx. 7.0 kg		
Display	OEL display (dot matrix)					
Input/Output Terminal	RS-232C (D-sub9P plug) USB host (Type A) USB device (Type B) Ionizer					

X Series / Y Series Analytical Balances

Series	X Series			Y Series		
Model	**AP124X**	**AP224X**	**AP324X**	**AP124Y**	**AP224Y**	**AP324Y**
Capacity	120 g	220 g	320 g	120 g	220 g	320 g
Minimum Display	0.1 mg					
Calibration Weight	Built-in			No		
External Calibration Weight Range for Span Calibration	45 to 120.009 g (100 g)	95 to 220.009 g (200 g)	95 to 320.009 g (300 g)	45 to 120.009 g (100 g)	95 to 220.009 g (200 g)	95 to 320.009 g (300 g)
Repeatability (Standard deviation)	0.1 mg		0.15 mg	0.1 mg		0.15 mg
Repeatability (for Low Loads)	0.1 mg (5 g low loads)	0.1 mg (10 g low loads)	0.1 mg (20 g low loads)	0.1 mg (5 g low loads)	0.1 mg (10 g low loads)	0.1 mg (20 g low loads)
Minimum Weight*1	200 mg					
Linearity	±0.2 mg		±0.3 mg	±0.2 mg		±0.3 mg
Response Time for race Measurements *2	2 sec.					
Response Time*3	2 sec.					
USB Host (Type A)	Not Included					
USB Device (Type B)	Included					
Recipe Compounding	Not Included					
HPLC Buffer Solution Preparation	Not Included					
mol Conversion Function	Included			Not Included		
Sample (Concentration) Preparation	Not Included					
Inspection Support Function	Included			Not Included		
Clock-CAL	Included			Not Included		
Ionizer	Optional			Not Included		
Operating Temperature/Humidity Range	5 to 40°C 20 to 85%*4					
Sensitivity Stability Against Temperature Range	±2 ppm/°C (10 to 30°C)					
Pan Size	ø91 mm					
Body Dimensions	Approx. 212(W)×367(D)×345(H)mm					
Weight	Approx. 7.0 kg			Approx. 6.5 kg		
Display	OEL display (dot matrix)					
Input/Output Terminal	RS-232C (D-sub9P plug) USB device (Type B) Ionizer			RS-232C (D-sub9P plug) USB device (Type B)		

*1 According to USP Chapter 41. This is the tested value by the weight of the balance's capacity of 5%.

*2 The response time for displaying 90% of added sample amount value in trace measurements (from 1mg)

*3 The response time value is typical.

*4 Non-condensing.

AP Series

0.01 mg / 0.1 mg model

AP135W (0.01 mg)
AP125WD(0.01 mg / 0.1 mg)
AP225WD(0.01 mg / 0.1 mg)

0.1 mg model

AP124W   AP124X   AP124Y
AP224W   AP224X   AP224Y
AP324W   AP324X   AP324Y

*Power supply unit included.

Options

STABLO-AP Ionizer

EP-100 Electronic Printer

EP-110 Electronic Printer
(multifunction printer with liquid crystal display)

SMK-601
Specific Gravity Measurement Kit

Internal Windbreak Plate

Options

Static Electricity Remover STABLO-AP Ionizer
Electronic Printer EP-100
Electronic Printer EP-110 (Multifunction Printer with Liquid Crystal Display)
Label Roll Paper for EP-100/110 (10 Rolls)
Specific Measurement Kit SMK-601
Display Protective Cover (Set of 5)
USB Cable
RS-232C Cable
AC Adapter (Standard Accessory)
Internal Windbreak Plate
RSIO Interface Cable

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Analytical Balances