

NEW PRODUCTS ADDITION

Autoclaves



Hotplate
Stirrers
& Stirrer



Environmental
Chambers



Rotator



Incubators



Baths & Circulators



Pumps



Heating &
Cooling Block



Recirculating
Coolers



Shaker



Mixers



Refrigerators
& Freezers



Fume Hoods



Desiccators





BW-10H / BW-0510H
with optional accessories



Powerful circulation by built in agitator



Accurate value setting and display

Digital Model		BW-05H	BW-10H	BW-20H
Bath volume (L / cu ft)		3.5 / 0.1	11.5 / 0.4	20 / 0.7
Working temperature range (°C / °F)		Amb. +5 to 100 / Amb. +9 to 212		
Temperature stability ¹⁾ (± °C / °F)		±0.1 / 0.18		
Dimension	Bath opening / depth (WxL, D) (mm / inch)	240x136, 150 / 9.4x5.4, 5.9	300x240, 200 / 11.8x9.5, 7.9	498x300, 200 / 19.6x11.8, 7.9
	Exterior(WxLxH) (mm / inch)	307x216x266 / 12.1x8.5x10.5	364x316x318 / 14.3x14.4x12.5	564x372x318 / 22.2x14.6x12.5
	Net weight (kg / lbs)	6.5 / 14.3	9.5 / 21	15.5 / 34.2
Electrical requirements (230V, 50 / 60Hz)		3.0A	4.3A	8.7A
Cat. No.		AAH45115K	AAH45125K	AAH45135K
Electrical requirements (120V, 60Hz)		5.8A	8.3A	8.3A
Cat. No.		AAH45113U	AAH45123U	AAH45133U

Vacuum Desiccators (Cubic Models)

VDC-31



Integrally molded cubic box design enabling outstanding vacuum capability with virtually no leakage and exceptional durability.

Various models available with respect to sizes and UV-blocking effect.

Model ¹⁾		VDC-11/11U	VDC-21/21U	VDC-31/31U	VDC-41/41U
Internal volume (L / cu ft)		11 / 0.4	23 / 0.8	35 / 1.2	45 / 1.6
Gauge range (Mpa)		0 to -0.1			
Nozzle (mm / inch, Ø)		9.5 / 0.37			
Max. permissible vacuum (bodies)		1.33x10 ⁻⁴ Mpa			
Max. load (kg / lbs) per shelf		3 / 6.6	5 / 11		
Number of shelves (standard / max.)		2 / 4		3 / 5	3 / 6
Material	Body	Polycarbonate			
	Perforated sample tray				
	Drying agent tray / Locker	Polypropylene			
	Vacuum seal	Silicone rubber			
Dimension (WxDxH)	Interior (mm / inch)	248x254x238 / 9.8x10x9.4	346x365x246 / 13.6x14.4x9.7	355x375x345 / 14 x 14.8 x 13.6	355x374x445 / 14x14.7x17.5
	Exterior (mm / inch)	322x285x271 / 12.7x11.2x10.7	420x397x281 / 16.5x15.6x11.1	420x397x381 / 16.5x15.6x15	420x397x491 / 16.5x15.6x19.3
Net weight (kg / lbs)		4.2 / 9.3	8.2 / 18.1	10.8 / 23.8	12.2 / 26.9
Cat. No.	without UV block effect	AAAD4001	AAAD4021	AAAD4011	AAAD4031
	with UV block effect (U)	AAAD4101	AAAD4121	AAAD4111	AAAD4131

Vacuum Desiccators (Round Models)

VDR-25G



Round design featuring light weight yet high tensile strength.

High-quality silicone O-ring and specially designed 'Locking Clip' allowing outstanding vacuum capability with virtually no leakage.

Model ¹⁾		VDR-20/20G VDR-20U/20UG	VDR-25/25G VDR-25U/25UG	VDR-30/30G VDR-30U/30UG
Internal volume (L / cu ft)		6 / 0.2	10 / 0.4	20 / 0.7
Gauge range (Mpa)		0 to -0.1		
Nozzle (mm / inch, Ø)		9.5 / 0.37		
Max. permissible vacuum (Bodies)		1.33×10 ⁻⁴ Mpa		
Material	Lid / Bottom	Polycarbonate		
	Perforated sample tray	Polypropylene		
	Drying agent tray			
	Locker	Polypropylene		
	Vacuum seal	Silicone rubber		
Dimension (I.D. × H)	Exterior (mm / inch)	ø242×279(354) / ø9.5×11(13.9)	ø308×325(400) / ø12.1×12.8(15.7)	ø385×399(475) / ø15.2×15.7(18.7)
	Net weight (kg / lbs)	1.5 / 3.3	2.5 / 5.5	4.2 / 9.3
Cat. No.	Clear body	AAAD2011	AAAD2111	AAAD2211
	Clear body with vacuum gauge (G)	AAAD2021	AAAD2121	AAAD2221
	UV block effect body(U)	AAAD2031	AAAD2131	AAAD2231
	UV block effect body with Vacuum gauge(UG)	AAAD2041	AAAD2141	AAAD2241

Vacuum Ovens

OV-11



Optimally constructed for separating solvents from solutions or drying solvents with high boiling points.

Model		OV-11	OV-12
Chamber volume (L / cu ft)		28 / 1	65 / 2.3
Vacuum range		0~0.1MPa, Analog	
Nozzle size (mm / inch)		Vacuum ø10 / 0.4, Vent ø10 / 0.4	
Temperature	Range (° · ° ±)	Amb. +5 to 250 / Amb. +9 to 482	
	Fluctuation ¹⁾ at 100° (± · ° ±)	0.1 / 0.18	0.3 / 0.54
	Variation ¹⁾ at 100° (± · ° ±)	3.7 / 6.66	
Dimension (W×D×H)	Interior (mm / inch)	302×305×302 / 11.9×12×11.9	402×405×402 / 15.8×15.9×15.8
	Exterior (mm / inch)	680×453×495 / 26.8×17.8×19.5	780×557×595 / 30.7×21.9×23.4
	No. of shelf (standard / max.)	2	3
	Net weight (Kg / lbs)	63 / 139	103 / 227
Electrical requirements (230V, 50 / 60 Hz)		5.3A	6.1A
Cat. No.		AAH13115K	AAH13125K



TS-17S

TS-18Q

Digital heating and stirring control with high advanced features such as auto-tuning and various control modes.

Model		TS-14S	TS-17S	TS-18Q
Heating	Temperature range (°C / °F)	Max. 350 / 662		
	Control	Feedback control with PID		
	Display	LED digital (0.1° resolution)		
	Heating power (W)	600	800	800
Stirring	Speed range (rpm)	30 to 2,000		
	Capacity (L / cu ft, H ₂ O)	20 / 0.71		
	Magnetic bar, Max. (ØxL, mm / Inch)	8 x 40 / 0.31 x 1.57		
Safety	Hot top indicator (°C / °F)	Warning lamp (50 / 122)		
	Over temp.	Top plate / Main body / PCB		
	Over current	Current limit protection		
Motor		BLDC motor		
Timer		2 type, 1min. to 99 hr. 59 min.		
Load, Max (kg / lbs)		25 / 55.1		
Top plate	Shape	Round type		Square type
	Material	Ceramic coated aluminum		
	Dimension (Ø or WxD) (mm / inch)	140 / 5.51	170 / 6.69	180x180 / 7.08x7.08
Body	Shape	Straight body		
	Material	Aluminum		
	Dimension (WxDxH) (mm / inch)	161x290x100 / 6.34x11.42x3.94	191x330x101 / 7.52x12.99x3.98	209x326x102 / 8.22x12.83x4.0
Net weight (kg / lbs)		2.8 / 6.17	3.5 / 7.72	3.8 / 8.37
Electrical requirements (230V, 50/60Hz)		3.0 A		4.0 A
Cat. No.		AAH34415K	AAH34425K	AAH34435K

Magnetic Stirrers

MS-12B/12T/17B/17T/22B, MS-17G/22G (150 to 2500 rpm, 30 to 2000 rpm)



Scale Models (MS-B/T)

Digital Models (MS-G)

Model ¹⁾		MS-12B	MS-12T	MS-17B	MS-17T	MS-22B	MS-17G	MS-22G	
Technical Data	Speed Control	Electronic speed control						Feedback control with PID	
	Stirring Capacity (Liter, H ₂ O)	2		4		5	4	5	
	Speed Range (RPM)	150 to 2,500						30 to 2,000	
	Speed Display	None						VFD	
	Motor Rating Input / Output (w)	2.9 / 1.6							
	Magnetic Bar (ØxL, mm / Inch), Max.	8x30 / 0.31x1.18	8x30 / 0.31x1.18	8x40 / 0.31x1.57	8x30 / 0.31x1.18	10x50 / 0.39x1.97	8x40 / 0.31x1.57	10x50 / 0.39x1.97	
Load, Max (kg / lbs)	15 / 33.07	10 / 22.05	20 / 44.09	20 / 44.09	25 / 55.12	20 / 44.09	25 / 55.12		
Top Plate	Material	Poly propylene with non-slip silicon cover							
	Dimension (mm / inch, Ø)	120 / 4.72	115 / 4.53	170 / 6.69	165 / 6.5	220 / 8.66	170 / 6.69	220 / 8.66	
General Data	Body Material	Polypropylene							
	Dimension (mm / inch, WxDxH)	130x130x65 / 5.12x5.12x2.56	181x176x57 / 7.13x6.93x2.24	185x185x65 / 7.28x7.28x2.56	246x243x57 / 9.69x9.57x2.24	230x230x65 / 9.06x9.06x2.56	210x280x72 / 8.27x11.02x2.82	260x360x72 / 10.24x14.17x2.82	
	Weight (kg / lbs)	0.6 / 1.32		0.9 / 1.98		1.1 / 2.43	1.35 / 2.98	1.75 / 3.86	
	Electrical Requirements	AC 100 ~ 240V, 50 / 60Hz with power adapter				AC 100 ~ 240V, 50 / 60Hz		AC 100 ~ 240V, 50 / 60Hz	
	Power Consumption (W)	5		6				6	
Protection Class (DIN EN 60529)				IP42				IP42	