CE | CSA C US | RoHS Compliant | Computer Interface | 500 rpm | Best Effort Run | Calibration | Auto Run | Max Min Deviation | Stalled Platform

Performance

- Dual-action shaking motion: Orbital / Reciprocating.

- Microprocessor PID control / Shaking speed calibration.

- Competitive high shaking speed up to 500 rpm.

- Shaking motion in various amplitude.
  - 12.7mm or 19.1mm for OS-2000
  - 19.1mm or 25.4mm for OS-3000

- Wide speed range even with heavy workload.
  - Equipped with a maintenance-free BLDC motor to generate smooth, quiet, uniform, and yet powerful shaking motion.

- Best effort run function intelligently manages its rpm to keep shaking even workload is out of its capacity.

- Pleasant test environment by the smooth acceleration and deceleration control.

- Low-profile design minimizes vibration or sliding caused by the high speed shaking motion.

Convenience

- User friendly control panel.
  - Lab Companion's unique VFD-bright, clear, easy to read.
  - Durable membrane touch switch and control knob.

- Easy-set digital timer. (1 min. to 999 hr. 59 min.)

- Repetitive task can be easily performed as the platform stops where it starts.
  - Stopping the shaking platform always at the same position is highly beneficial for automated dosing or sampling process.

- Speed is basically set and displayed in increments of 1 rpm. Also speed increment interval can be set among 1, 5, 10 rpm according to users preference.

- RS-232 port and USB port for external control and data collection.

Safety

- Automatic run after power interruption.

- Shaking speed deviation alarm.

- Over-current protection, Stalled platform check.

Dual-action benchtop platform shakers accommodate flask up to 6L.

The most versatile shakers at a reasonable price offer an ideal solution for your mixing needs.

OS-3000
with optional dedicated platform

| **Optional accessories** see page 150-151 | • Rubber mats, Universal attachments
• Funnel clamps, Test tube racks |

Control panel

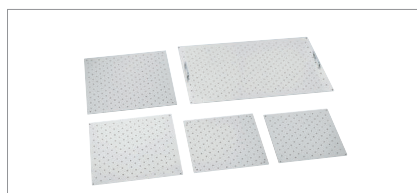| Model		OS-2000	OS-3000
Shaking system	Motion type	Orbital or Reciprocating motion selectable	
	Amplitude size (mm / inch, dia.)	12.7, 19.1 / 0.5, 0.8 (standard 19.1 / 0.75)	19.1, 25.4 / 0.8, 1 (standard 19.1 / 0.75)
	Speed range [2] (rpm)	20 to 500	
	Accuracy	±1% of set speed (≥100rpm) / ±1 (≤100rpm)	
	Timer	1 min. to 999 hr. 59 min.	
Max. load (kg / lbs)		10 / 22.0 at 500 rpm in orbital shaking motion 8.5 / 18.7 at 500 in reciprocating shaking motion	
Dimension	Platform (W×D) (mm / inch)	320×260 / 12.6×10.2	350×350 / 13.8×13.8
	Body (W×D×H) (mm/inch) [1]	354×388x146/ 13.9x15.3x5.7	409x508x141/ 16.1x20x5.6
	Net weight (Kg / lbs)	22 / 48.5	28 / 61.7
Electrical requirements (230V, 50 / 60Hz)		0.3A	0.3A
Cat. No.		**AAH3D1115K**	**AAH3D1215K**
Electrical requirements (120V, 50 / 60Hz)		0.6A	0.6A
Cat. No.		**AAH3D1165U**	**AAH3D1265U**

1) Main body dimension without accessories.
2) In case of operating at high speed (350 to 500 rpm), it is recommended to use optional attachments to be fixed on the working surface.
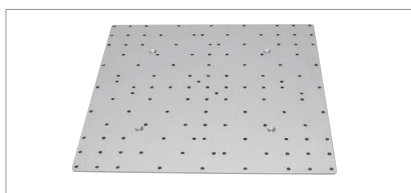※ FDA establishment registered company. FDA listed products.
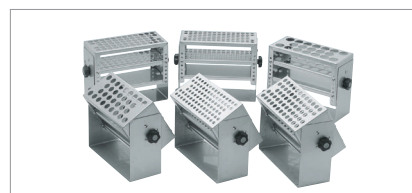
Accessories & Options

for Open-air Shakers (OS models) / Mini Shaker
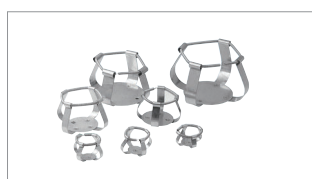

Universal platforms (OS models)
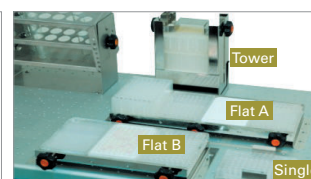

Universal platform (CMS-350)

Test tube racks

Flask clamps (stainless steel)

Flask clamps (plastic)

Funnel clamps

Microplate holders

Description			OS-2000	OS-3000	OS-4000	OS-7100 OS-7200	CMS-350
Cat.No.	Universal platform		AAA3A501-V2	AAA23501-V3	AAA23502-V3	AAA23503-V3	AAA3B501
-	Flask clamps (Stainless steel)	Erlenmeyer flask size	Max. mountable flask clamps				
AAA23550		for 50 ml	20	36	49	88	16
AAA23551		for 100 ml	16	28	39	68	9
AAA23552		for 250 ml	8	14	24	39	9
AAA23556		for 300 ml	8	14	24	39	9
AAA23553		for 500 ml	6	10	16	28	5
AAA23554		for 1L	3	6	9	18	4
AAA23555		for 2L	-	4	6	11	1
AAA23557		for 2.8L	-	3	5	8	-
AAA23558		for 4L	-	1	4	6	-
AAA23559		for 6L	-	1	3	5	-
-	Flask clamps (plastic)	Erlenmeyer flask size	Max. mountable flask clamps				
AAA30570		for 50 ml	20	36	49	88	16
AAA30571		for 100 ~ 125 ml	12	19	29	48	9
AAA30572		for 200 ml	8	13	21	35	9
AAA30573		for 250 ml	8	13	19	35	9
AAA30574		for 300 ml	6	12	19	35	9
AAA30575		for 500 ml	6	9	12	24	5
AAA30576		for 1L	3	5	9	12	4
AAA30577		for 2L	-	4	5	8	1
-	Funnel clamps	Separating funnel size	Max. mountable funnel clamps				
AAA23562		for 250 ml	4	4	6	15	3
AAA23563		for 500 ml	3	3	4	10	2
AAA23564		for 1L	3	3	3	7	2
AAA23565		for 2L	-	2	2	5	-
-	Test Tube Racks[1]	Test tube size	Mountable capacity of racks				
AAA23581		for 86 test tubes, ø8mm	2	2	4	7	2
AAA23582		for 86 test tubes, ø10mm					
AAA23583		for 58 test tubes, ø12mm					
AAA23584		for 58 test tubes, ø14mm					
AAA23585		for 32 test tubes, ø17mm					
AAA23586		for 19 test tubes, ø25mm					
AAA23587		for 10 test tubes, ø30mm					
AAA23594		for 10 test tubes, ø35mm					
AAA23593		for 4 test tubes, ø50mm					
-	Microplate holders		Max. mountable microplate holders				
AAA23654		Single	6	8	15	25	6
AAA23651		Tower	4	6	10	21	6
AAA23652		Flat A (large)	-	-	2	4	-
AAA23653		Flat B (small)	1	2	3	6	-

1) No declination.
※ Above accessories need to be mounted on a universal platform which is sold separately.
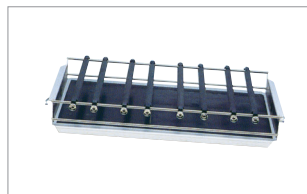
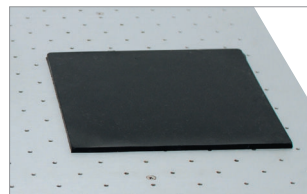## for Open-air Shakers (OS models) / Mini Shaker

Dedicated platform

Spring wire racks

Rubber mats (SK, SKF)

Universal attachment

Lab sticker (200x200, mm)

Rubber mat (CMS-350)

Dual stacking tray

Large tray

Stage rack (OS models)

Shakers

	Description	OS-3000	OS-4000	OS-7100 OS-7200
Dedicated platform	Universal platform +250ml flask clamps	AAA23611-V1	AAA23621-V1	AAA23634
	No. of flask clamps	14	24	39
	Universal platform +500ml flask clamps	AAA23613-V1	AAA23622-V1	AAA23635
	No. of flask clamps	10	16	28

※ A dedicated platform is sold with setting each max. mountable amount of flask clamps on.

	Description	OS-2000	OS-3000	OS-4000	OS-7100 OS-7200	CMS-350
Spring wire racks	-	AAA3A521	AAA31521-V1	AAA31522-V1	AAA23514	AAA3B511
	Erlenmeyer flask size	Max. inserting flasks				
	for 50 ml	15	16	25	45	15
	for 100 ml	9	9	16	28	9
	for 250 ml	4	4	9	18	4
	for 300 ml	4	4	9	18	4
	for 500 ml	4	4	5	15	4
	for 1L	2	2	4	10	2
	for 2L	-	1	2	6	-
	for 2.8L	-	1	2	4	-
Rubber mat		AAA3A531-V1	AAA31531	AAA31532	AAA23534	AAA38501
Universal attachments		AAA3A511-V1	AAA23511-V1	AAA23512-V1	AAA23505	AAA3B521
Lab sticker		AAA30551				
Dimpled mat		AAA3A532	-	-	-	AAA38502
Microplate tray	Dual stacking	AAA3A541	-	-	-	AAA3B531
	Large tray	AAA3A542	-	-	-	AAA3B532
Stage racks	4 stage rack	-	AAA31541-V1	AAA31542-V1	AAA31702-V1	-
	3 stage rack	-	-	-	AAA31703-V1	-