Shaker
Compact type

Compact Mini Shaker for easy use

Structural Functional Features

- Max. rpm of 300 is suitable for life science experiments sensitive to low rpm such as hybridization and immunocytochemistry.
- Orbital motion with shaking radius of 13 mm.
- Stable control up to 4 kg.
- It can be used mounted nine 250ml flasks.
- Count-down timer. (up to 99 hours and 59 minutes)
- Displays the elapsed time.
- Various accessories are available.



CMS-350

with Universal Platform, Flask Clamp (option)

Use Convenience Features

- It can be used in a temperature chamber such as cold room or incubator because it can be used at ambient temperatures between 2°C and 60°C.
- Small size and light weight provide good mobility and usability in various laboratory environments and experiment requirements.
- Accurate shaking control according to sample weight with PID feedback control.
- Easy to operate with clear VFD display, touch keys and control knobs.
- Displays the set rpm and actual rpm simultaneously, and displays timer operation information.

Outstanding Safety

- Self-checks for errors.
- Body made from PP material with excellent chemical resistance.
- Protected from overcurrent.

Specification

Model		CMS-350
Shaking system		
Motion type		Orbital
Speed range (rpm)		50 to 300
Rpm control at 100rpm (± rpm)		5
Orbit size (mm / inch, dia)		13
Timer		Run time : 1min ~ 99hr 59min
Dimension		
Platform (W x D, mm / inch)		250 x 250 / 9.8 x 9.8
Body[1] (W x D x H, mm / inch)		249 x 325 x 109 / 9.8 x 12.8 x 4.3
Net weight (kg / lbs)		8 / 17.6
Electrical requirements		AC 100 ~ 240V, 50/60Hz, 0.2A Max.
Cat. No.	KR Plug	**AAH3B1115K**
	US Plug	**AAH3B1115U**

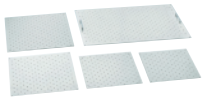
※ When operating at room temperature after use at low temperature, it may be affected by condensation. We recommend that you turn on the power after leaving at room temperature for a while.
1) Main body dimension without accessories

Accessories Page 136

Universal Platform, Spring Wire Rack, Rubber Mat, Universal Attachment, Lab Sticker, Flask Clamp, Funnel Clamp, Test Tube Rack, Microplate Holder, Starter Kit

Accessories for Shaker

Universal Platform

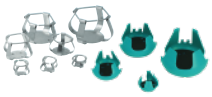


Universal Platform
Basic accessories required to use separated funnels, erlenmeyer flask, test tube, etc.



Dual Universal Platform
Maximum sample loading possible with two-stage structure.
(SKC-7000 series model exclusively)

Accessories for Universal Platform



Flask Clamp (STS / Plastic)
Erlenmeyer flask mounting (50ml – 6L)
High-strength spring maintains excellent clamping.



Starter Kit
Consisting of plastic clamps that are commonly used on Universal Platforms.
50ml, 100ml, 250ml, 500ml, 1L, 2L.



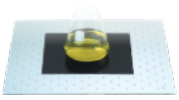
Funnel Clamp
Separated funnel mounting (250ml - 2L)
Easy detachment and stable clamping.



Test Tube Rack
Test tube mounting (Ø8 mm - Ø35 mm)
Easily adjustable angle.



Microplate Holder
Various configurations for microplate
Single, Tower, Flat A (Large), Flat B (Small)



Lab Sticker
Excellent adhesion at 200mm x 200mm size, applied to petri dishes, culture bottles, etc.
Temp. Range (°C): 15 to 60 Max. Speed (rpm): 250

LC Connected

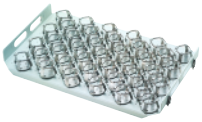


LC GreenBox
Real-time monitoring of device operation via mobile app.
Up to 4 devices can be connected.

Set Accessories



Spring Wire Rack, Half Spring Wire Rack
Available to load various sample container shapes.
For SKC-7000, half type can be used that providing both a universal platform and spring wire rack.



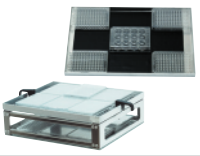
Dedicated Platform
Accessories (250 ml, 500 ml) installed on platform with maximum quantity of flask clamps.



Rubber Mat
Convenient for use with culture bottles and petri dishes with rubber plate to prevent slipping on the floor.



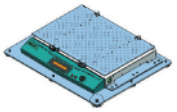
Universal Attachment
Floor rubber plate and adjustable clamping rod make it a convenient structure for a wide range of applications.



Microplate Tray (Dual Stacking Tray)
Dual stacking structure for microplate allows for excellent space utilization.
Microplate Tray (Large Tray)
The tray for microplates with anti-slip rubber plate on the bottom. (OS-2000, CMS-350)



Stage Rack
The rack maximizes space efficiency by stacking up to four shakers.
(OS-3000/4000/7000)



Weight Increaser
Accessories allowing for use of SKC series shaker up to 500rpm.

Starter Kit

Description	Composition of Clamp	Cat. No.
Starter Kit I	50 ml (2), 100 ml (2), 250 ml (4), 500 ml (4), 1L (2), 2L (2)	**AAA30581**
Starter Kit II	50 ml (3), 100 ml (3), 250 ml (6), 500 ml (6)	**AAA30582**

Description		OS-2000	OS-3000	OS-4000	OS-7000 Series	SKC-7000 Series		CMS-350
Spring Wire Rack (Half)		-	-	-	-	**AAA30525**[1)]	**AAA30526**[2)]	-
Dedicated Platforms (250 mL)		-	**AAA23611-V1**	**AAA23621-V1**	**AAA23634**	-	-	-
Dedicated Platforms (500 mL)		-	**AAA23613-V1**	**AAA23622-V1**	**AAA23635**	-	-	-
Rubber Mat		**AAA3A531-V1**	**AAA23531-V1**	**AAA23532-V1**	**AAA23534**	**AAA30533**[1)]	**AAA30534**[2)]	**AAA38501**
Universal Attachment		**AAA3A511-V1**	**AAA23511-V1**	**AAA23512-V1**	**AAA23505**	**AAA30513**[1)]	**AAA30514**[2)]	**AAA3B521**
Lab Sticker		**AAA30551**	**AAA30551**	**AAA30551**	**AAA30551**	**AAA30551**	**AAA30551**	**AAA30551**
Microplate Tray	Dual Stacking	**AAA3A541**	-	-	-	-	-	**AAA3B531**
	Large Tray	**AAA3A542**	-	-	-	-	-	**AAA3B532**
Stage Rack	4 Stages	-	**AAA31541-V1**	**AAA31542-V1**	**AAA31702-V1**	-	-	-
	3 Stages	-	-	-	**AAA31703-V1**	-	-	-
Weight Increaser		-	-	-	-	**AAA30561**	**AAA30561**	-

1) Small Size
2) Large Size

Description		Model	OS-2000	OS-3000	OS-4000	OS-7000 Series	SKC-7000 series		CMS-350
		Platform Size (mm / inch)	320 x 260 / 13.8 x 10.2	350 x 350 / 13.8 x 13.8	450 x 450 / 17.7 x 17.7	755 x 520 / 29.7 x 20.5	755 x 520 / 29.7 x 20.5 (Small)	885 x 520 / 34.8 x 20.5 (Large)	276 x 276 / 10.9 x 10.9
Universal Platform		Cat. No.	AAA3A501-V2	AAA23501-V3	AAA23502-V3	AAA23503-V3	AAA30502[1] AAA30541[2]	AAA30504[1] AAA30542[2]	AAA3B501
Flask Clamp for Erlenmeyer Flask (Stainless steel)[4]	**50 mℓ**	AAA23550	20	36	49	88	108 (216)[3]	126 (252)[3]	16
	100 mℓ	AAA23551	16	28	39	68	72 (144)[3]	84 (168)[3]	9
	250 mℓ	AAA23552	8	14	24	39	42 (84)[3]	51 (102)[3]	9
	300 mℓ	AAA23556	8	14	24	39	36	40	9
	500 mℓ	AAA23553	6	10	16	28	27	30	5
	1 L	AAA23554	3	6	9	18	18	20	4
	2 L	AAA23555	-	4	6	11	12	13	1
	2.8 L	AAA23557	-	3	5	8	9	11	-
	4 L	AAA23558	-	1	4	6	8	9	-
	6 L	AAA23559	-	1	3	5	6	7	-
Flask Clamp for Erlenmeyer Flask (Plastic)[5]	**50 mℓ**	AAA30570	20	36	49	88	72	80	16
	100~125 mℓ	AAA30571	12	19	29	48	54	60	9
	200 mℓ	AAA30572	8	13	21	35	30	32	9
	250 mℓ	AAA30573	8	13	19	35	30	32	9
	300 mℓ	AAA30574	6	12	19	35	30	32	9
	500 mℓ[6]	AAA30575	6	9	12	24	24	28	5
	1 L[6]	AAA30576	3	5	9	12	12	15	4
	2 L[6]	AAA30577	-	4	5	8	6	9	1
Funnel Clamp	**250 mℓ**	AAA23562	4	4	6	15	18	20	3
	500 mℓ	AAA23563	3	3	4	10	11	14	2
	1 L	AAA23564	3	3	3	7	9	12	2
	2 L	AAA23565	-	2	2	5	7	8	-
Test Tube Rack[4]	**Ø8 mm (86ea)**	AAA23581	2	2	4	7	9	12	2
	Ø10 mm (86ea)	AAA23582	2	2	4	7	9	12	2
	Ø12 mm (58ea)	AAA23583	2	2	4	7	9	12	2
	Ø14 mm (58ea)	AAA23584	2	2	4	7	9	12	2
	Ø17 mm (32ea)	AAA23585	2	2	4	7	9	12	2
	Ø25 mm (19ea)	AAA23586	2	2	4	7	9	12	2
	Ø30 mm (10ea)	AAA23587	2	2	4	7	9	12	2
	Ø35 mm (10ea)	AAA23594	2	2	4	7	9	12	2
Microplate Holder[4]	**Single**	AAA23654	6	8	15	25	25	28	6
	Tower	AAA23651	4	6	10	21	22	25	6
	Flat A (Large)	AAA23652	-	-	2	4	4	5	-
	Flat B (Small)	AAA23653	1	2	3	6	6	7	-

1) Single platform installed in SKC-7000
2) Dual platform installed in SKC-7000, only flasks less than 250ml can be installed on the lower platform. (Height of lower platform is about 175mm)
3) The numbers in parentheses indicate the maximum number of 250ml flasks that can be installed when Dual Platform is mounted.
4) Maximum quantity that can be mounted on each platform (For test tube rack, it is the maximum quantity when the rack is not to be tilted)
5) In the case of plastic flask clamps mounting, deformation may occur at temperatures over 40°C. Stainless steel flask clamps are recommended when using in a high temperature environment.
6) Possible to use under 300rpm

Spring Wire Rack		OS-2000	OS-3000	OS-4000	OS-7000 Series	SKC-7000 Series		CMS-350
						Small	Large	
Spring Wire Rack (Cat. No.)		AAA3A521	AAA31521-V1	AAA31522-V1	AAA23514	AAA30523	AAA30524	AAA3B511
Quantity of Erlenmeyer Flask	50 mL	15	16	25	45	45	50	15
	100 mL	9	9	16	28	28	32	9
	250 mL	4	4	9	18	18	21	4
	300 mL	4	4	9	18	18	21	4
	500 mL	4	4	5	15	15	18	4
	1 L	2	2	4	10	10	12	2
	2 L	-	1	2	6	6	7	-
	2.8 L	-	1	2	4	4	5	-

LC GreenBox

Description	OS-2000	OS-3000	OS-4000	OS-7000 Series
LC GreenBox	AAHQ1011K			