TECHNICAL DATA SHEET

ALab™ SK-O Series Orbital Shaker

Orbital shakers · five models · brushless DC motor · 1 min to 99 h 59 min timer



ALab™ SK-O Series Orbital Shaker

The ALab™ SK-O Series orbital shakers; image shown for reference.

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ACS MATERIAL, LLC

959 E Walnut St., Suite 100

Pasadena, CA 91106, USA

Phone +1 (866) 227-0656

Fax +1 (781) 518-0284

contact@acsmaterial.com

Revision Date **10/22/2026**

SECTION I

Product Overview

The ALab™ SK-O Series covers five orbital shakers with a brushless DC motor and a time setting range of 1 min to 99 h 59 min: the SK-O330-Pro and SK-O180-Pro multifunctional orbital decolorizing shakers, the SK-O330-M orbital decolorizing shaker with optional plates, the SK-O180-S intelligent decolorizing shaker with a fixed plate, and the SK-O180-C remote controlled intelligent decolorizing shaker.

Orbital diameters are 4 mm, 10 mm and 20 mm, speed ranges run from 40 to 200 rpm up to 100 to 800 rpm, and the maximum load capacity with platform is 2 kg to 7.5 kg. The Pro models add an RS232 data connector with free software for PC control and data logging; the SK-O180-C is adjusted from over 10 m under barrier-free conditions with a magnetic remote control that has a 4.3-inch LCD screen.

SECTION II

Core Advantages

- **Motion** — orbital, smooth and uniform
- **Timer** — 1 min to 99 h 59 min
- **Pro models** — RS232, PC control and logging
- **Motor** — brushless DC
- **Protection** — over-speed detection
- **SK-O180-C** — wireless remote, over 10 m (barrier-free)

SECTION III

Specifications

Technical data — SK-O Series

Specifications	
Brand	ALab™ by ACS Material
Series	SK-O Series orbital shakers
Models	SK-O330-Pro, SK-O180-Pro, SK-O330-M, SK-O180-S, SK-O180-C
ACS Cat. No.	Parent ALSKO; ALSKO330, ALSKO180, ALSKOM00, ALSKOS00, ALSKOC00
Motion	Orbital
Motor type	Brushless DC motor (all models)
Time settings range	1 min to 99 h 59 min
Voltage, frequency	100 to 240 V, 50/60 Hz
Ambient temperature and humidity	5 to 40°C, 80% RH

Model comparison — SK-O Series

Parameter	SK-O330-Pro	SK-O180-Pro	SK-O330-M	SK-O180-S	SK-O180-C
Orbital diameter	10 mm	4 mm	10 mm	20 mm	20 mm
Max. load capacity (with platform)	7.5 kg	2.5 kg	3 kg	2 kg	2 kg
Speed range	100 to 500 rpm	100 to 800 rpm	70 to 400 rpm	40 to 200 rpm	40 to 200 rpm
Motor input / output power	28 W / 15 W	28 W / 15 W	20 W / 15 W	20 W / 16 W	20 W / 16 W
Speed / timer display	LCD / LCD	LCD / LCD	LCD / LCD	LED / LED	LED / LED
Remote control display	—	—	—	—	4.3-inch LCD screen
Interfaces / data connector	RS232	RS232	—	—	Wireless; Type-C wired connection
Work plate dimension [W × D]	—	—	335 × 335 mm	268 × 268 mm	268 × 268 mm
Plate size (series overview)	32 × 32 cm	25 × 24.5 cm	33.5 × 33.5 cm	26.8 × 26.8 cm	26.8 × 26.8 cm
Power	30 W	30 W	25 W	20 W	20 W
Weight	12 kg	8.1 kg	9.8 kg	3.1 kg	3.1 kg
Dimension [W × D × H]	370 × 420 × 100 mm	300 × 340 × 100 mm	420 × 370 × 100 mm	294 × 348 × 123 mm	294 × 348 × 123 mm
Protection class	IP21	IP20	IP21	IP21	IP21

Optional platforms and attachments (SK-O330-Pro, SK-O180-Pro, SK-O330-M)

Accessory	Size / capacity	Fits
SK330.1 universal attachment with 4 bars	32 × 32 cm; flasks: 25 mL × 21, 50 mL × 15, 100 mL × 12, 250 mL × 6, 500 mL × 4	SK-O330-Pro
SK180.1 universal attachment with 3 bars	25 × 24.5 cm; flasks: 25 mL × 10, 50 mL × 8, 100 mL × 6, 250 mL × 4, 500 mL × 2	SK-O180-Pro
Bar for SK330.1 universal attachment	Spare bar	SK-O330-Pro
Bar for SK180.1 universal attachment	Spare bar	SK-O180-Pro
SK330.2 fixing clip attachment	32 × 32 cm; takes the flask fixing clips	SK-O330-Pro
SK180.2 fixing clip attachment	25 × 24 cm; takes the flask fixing clips	SK-O180-Pro
Fixing clips for 25, 50, 100, 200/250 and 500 mL flasks	Per SK330.2: 28, 16, 16, 9, 9; per SK180.2: 9, 9, 9, 4, 2	SK-O330-Pro, SK-O180-Pro
SK330.3 lengthways roller attachment	For separation funnel extraction; 500 mL × 3, 250 mL × 4, 100/125 mL × 4, 50 mL × 5	SK-O330-Pro
SK180.3 lengthways roller attachment	For separation funnel extraction; 500 mL × 2, 250 mL × 3, 100/125 mL × 3, 50 mL × 4	SK-O180-Pro
SK330.5 dish platform with non-slip mat and fixed string (8 pcs)	30 × 28.5 cm	SK-O330-Pro
Silicone mattresses for 16 × 5 to 15 mL or 6 × 50 mL tubes	Used with SK330.5	SK-O330-Pro
SK330.4 dish platform with non-slip mat and fixed string (8 pcs)	34 × 34 cm	SK-O330-M
SK180.4 dish attachment with non-slip mat	24 × 21.5 cm	SK-O180-Pro
Silicone mattresses for 10 × 5 to 10 mL or 4 × 50 mL tubes		SK-O180-Pro
SK330.6 transparent shield for serologic syphilis tests	41 × 39.5 × 10 cm	SK-O330-Pro, SK-O330-M
SK180.5 transparent cover for syphilis serum tests	32 × 32 × 8.3 cm	SK-O180-Pro
SK330.8 sticky pad	28.4 × 29.6 cm; operating speed 0 to 220 rpm	SK-O330-Pro, SK-O330-M
SK180.6 sticky pad	23.8 × 23.8 cm; operating speed 0 to 220 rpm	SK-O180-Pro
Connecting sticks for double-dish shakers		SK-O330-Pro, SK-O180-Pro, SK-O330-M, SK-O180-S

SECTION IV

Applications

Suited to bacterial suspension, solubility studies, growth of bacteria and yeast, extraction and washing procedures, diagnostic tests, hybridization, general mixing, and staining and destaining, in vessels from micro-centrifuge tubes through petri dishes and microplates to conical flasks.

The Pro models are listed for environmental chambers and CO_2 incubators; the SK-O180-C for cell culture, microbial and molecular work and low-temperature, anaerobic or hazardous sample handling.

Revision Date: 10/23/2026

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