TECHNICAL DATA SHEET

ALab™ SK-L Series Linear Shaker

Linear shakers · three models · brushless DC motor · 1 min to 99 h 59 min timer



ALab™ SK-L Series Linear Shaker

The ALab™ SK-L Series linear 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-L Series covers three linear decolorizing shakers with a linear reciprocating motion, a maintenance-free brushless DC motor and a time setting range of 1 min to 99 h 59 min: the SK-L330-Pro large multifunctional linear decolorizing shaker, the SK-L180-Pro multifunctional linear decolorizing shaker and the SK-L180-S intelligent linear decolorizing shaker.

Amplitudes are 10 mm, 4 mm and 20 mm, speed ranges are 100 to 350 rpm (Pro models) and 40 to 200 rpm (SK-L180-S), and the maximum load capacity with platform is 7.5 kg, 2.5 kg and 2 kg. The Pro models add an RS232 data connector and optional platforms and attachments.

SECTION II

Core Advantages

- **Motion** — linear reciprocating
- **Timer** — 1 min to 99 h 59 min
- **Pro models** — RS232, optional platforms
- **Motor** — brushless DC, maintenance-free
- **Protection** — over-speed / safety speed
- **Use** — environmental chambers, CO_2 incubators

SECTION III

Specifications

Technical data — SK-L Series

Specifications	
Brand	ALab™ by ACS Material
Series	SK-L Series linear shakers
Models	SK-L330-Pro, SK-L180-Pro, SK-L180-S
ACS Cat. No.	Parent ALSK; ALSKLO00, ALSK0300, ALSKLS00
Motion	Linear (reciprocating)
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-L Series

Parameter	SK-L330-Pro	SK-L180-Pro	SK-L180-S
Amplitude	10 mm	4 mm	20 mm
Max. load capacity (with platform)	7.5 kg	2.5 kg	2 kg
Speed range	100 to 350 rpm	100 to 350 rpm	40 to 200 rpm
Speed / timer display	LCD / LCD	LCD / LCD	LED / LED
Plate size (series overview)	32 × 32 cm	25 × 24.5 cm	26.8 × 26.8 cm
Motor input / output power	28 W / 15 W	28 W / 15 W	16 W / 10 W
Power	30 W	30 W	20 W
Data connector	RS232	RS232	—
Weight	13.5 kg	8.1 kg	3.4 kg
Dimension [W × D × H]	370 × 420 × 100 mm	300 × 340 × 100 mm	294 × 348 × 130 mm
Protection class	IP21	IP21	IP20

Optional platforms and attachments (SK-L330-Pro, SK-L180-Pro)

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-L330-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-L180-Pro
Bar for SK330.1 universal attachment	Spare bar	SK-L330-Pro
Bar for SK180.1 universal attachment	Spare bar	SK-L180-Pro
SK330.2 fixing clip attachment	32 × 32 cm; takes the flask fixing clips	SK-L330-Pro
SK180.2 fixing clip attachment	25 × 24 cm; takes the flask fixing clips	SK-L180-Pro

Accessory	Size / capacity	Fits
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-L330-Pro, SK-L180-Pro
SK330.3 lengthways roller attachment	For separation funnel extraction; 500 mL × 3, 250 mL × 4, 100/125 mL × 4, 50 mL × 5	SK-L330-Pro
SK180.3 lengthways roller attachment	For separation funnel extraction; 500 mL × 2, 250 mL × 3, 100/125 mL × 3, 50 mL × 4	SK-L180-Pro
SK330.5 dish platform with non-slip mat and fixed string (8 pcs)	30 × 28.5 cm	SK-L330-Pro
Silicone mattresses for 16 × 5 to 15 mL or 6 × 50 mL tubes	Used with SK330.5	SK-L330-Pro
SK180.4 dish attachment with non-slip mat	24 × 21.5 cm	SK-L180-Pro
Silicone mattresses for 10 × 5 to 10 mL or 4 × 50 mL tubes		SK-L180-Pro
SK330.6 transparent shield for serologic syphilis tests	41 × 39.5 × 10 cm	SK-L330-Pro
SK180.5 transparent cover for syphilis serum tests	32 × 32 × 8.3 cm	SK-L180-Pro
SK330.8 sticky pad	28.4 × 29.6 cm; operating speed 0 to 220 rpm	SK-L330-Pro
SK180.6 sticky pad	23.8 × 23.8 cm; operating speed 0 to 220 rpm	SK-L180-Pro
Connecting sticks for double-dish shakers		SK-L330-Pro, SK-L180-Pro

SECTION IV

Applications

Suited to mixing in culture dishes, flasks and beakers, and to aeration and extraction applications; the lengthways roller attachments hold separation funnels for oscillation extraction.

The SK-L Series can be used in environmental chambers and CO_2 incubators. Specifications are per the tables above.

Revision Date: 10/23/2026

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