



ES-20/60, Orbital Shaker-Incubator

Premium Product Class

DESCRIPTION

Orbital Shaker–Incubator ES-20/60 for biotechnological and pharmaceutical laboratories is a professional category equipment designed for cultivation of microorganisms and eukaryotic cells including animal, plant and insect cells. It is also possible to cultivate thermofilic bacteria in ES-20/60 shaker-incubator.

Shaker is equipped with a direct-drive mechanism for platform motion. It provides reliable and stable operation for the long term experiments needed for cell growth.

Shaker–Incubator ES-20/60 provides smooth or intensive mixing in flasks installed on the platform.

Built-in noiseless thermoresistant brushless fan provides precise temperature distribution inside the chamber (adjustable for up to +80°C). The inner chamber is made of stainless steel. State—of—the—art motor, newest thermal insulation materials, soft-start of the platform motion and temperature PID—control decrease the energy consumption and make the Shaker—Incubator highly energy efficient despite its relatively large size.

SPECIFICATIONS

Temperature setting range	+25°C +80°C
Temperature control range	10°C above ambient +80°C
Speed control range	50–250 rpm (increment 10 rpm)
Temperature setting resolution	0.1°C
Temperature stability	±0.5°C
Temperature accuracy at +37°C	<u>+2</u> °C
Temperature uniformity at +37°C	±2°C
Orbit	20 mm
Display	LCD, 2 × 16 signs
Digital time setting	1 min-96 hrs / non-stop (1 min increment)
Digital time setting Timer sound signal	1 min–96 hrs / non–stop (1 min increment) +
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Timer sound signal	+
Timer sound signal Maximum load	+ 8 kg
Timer sound signal Maximum load Maximum continuous operation time	+ 8 kg 30 days
Timer sound signal Maximum load Maximum continuous operation time Dimensions of the inner chamber	+ 8 kg 30 days 460 × 400 × 310 mm
Timer sound signal Maximum load Maximum continuous operation time Dimensions of the inner chamber Overall dimensions (W×D×H)	+ 8 kg 30 days 460 × 400 × 310 mm 590 × 525 × 510 mm

CAT. NUMBER

Without platform	Without platform
BS-010135-AAA	230VAC 50/60Hz Euro plug
BS-010135-AAB	230VAC 50/60Hz UK plug
BS-010135-AA3	230VAC 50/60Hz AU plug
BS-010135-AAC	120VAC 60Hz US plug
please, inquire	100VAC 50/60Hz US plug
BS-010135-HK	IQ OQ document
BS-010135-IK	PQ document

ACCESSORIES

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P-EX BS-010173-CK platform exchange set

Platform Exchange Set allows for faster replacement of flat platforms. Thanks to the platform sliding system, it is now possible to install 4 × 2I flasks in ES-20/60, ES-20/80, ES-20/80C ... P-30/100 BS-010135-BK platform

Platform with clamps for flasks.

P-16/250 BS-010135-CK platform

Platform with clamps for flasks.

P-9/500 BS-010135-AK platform

Platform with clamps for flasks.

P-6/1000 BS-010135-DK platform

Platform with clamps for flasks.

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PP-400 BS-010135-FK platform

Flat platform with non-slip silicone mat can accommodate various low profile containers.



UP-168 BS-010135-JK platform

Universal platform with clamps can accommodate flasks or bottles of different volume sizes. Clamps are not included with platform and need to be ordered separately.



SPML BS-010135-MK double-sided adhesive strips

Double-sided adhesive strips.
SPML is compatible with UP-168
platform, that fits both on PSU20i orbital shaker and inES20/60, ES-20/80 ShakersIncubators.



TR-44/15BS-010135-LK rack

Adjustable angle test tube rack for UP-168



TR-21/50 BS-010135-KK rack

Adjustable angle test tube rack for UP-168



FC-50 BS-010126-MK clamp

Clamp 50 ml - Ø50 mm for UP-168



FC-100 BS-010126-HK clamp

Clamp 100 ml - Ø65 mm for UP-168



FC-250 BS-010126-JK clamp

Clamp 250 ml - Ø85 mm for UP-168



FC-500 BS-010126-LK clamp

Clamp 500 ml - Ø105 mm for UP-168



FC-1000 BS-010126-IK clamp

Clamp 1000 ml - Ø130 mm for UP-168

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FC-2000 BS-010126-NK clamp

Clamp 2000 ml - Ø165 mm for UP-168

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