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ES-20, Orbital Shaker-Incubator

Basic Plus
Product Class

DESCRIPTION



The **ES-20** is a compact bench–top Shaker–Incubator used for mixing of biological liquids as well as for incubation and cultivation of biological liquids according to the operator set program

Built–in microprocessor thermocontroller provides constant temperature control in the incubator chamber. Forced heated air circulation inside the transparent plexiglas chamber guarantees even temperature distribution. Dismountable construction makes transportation easy.

Orbital shaking is controlled by the digital tachometer (rpm) and Digital time setting regardless of the temperature. The unit is equipped with the direct–drive system ensuring most reliable stable long–time operation (up to 30 day nights).

The **ES-20** is extremely easy to operate, with very straightforward setup of temperature, speed and time, using the two line set–up and status display, which clearly indicates both set and actual values for each of the three parameters.

Five interchangeable platforms allow using the **ES-20** for:

- Growing cell cultures in flasks and other laboratory glassware;
- Extracting tissue samples at physiological temperatures;
- Other sample preparation processes.

SPECIFICATIONS

Temperature setting range	+25°C ... + 42°C
Temperature control range	5°C above ambient ... + 42°C
Speed control range	50–250 rpm (increment 10 rpm)
Temperature stability	±0.5°C
Temperature setting resolution	0.1°C
Orbit	10 mm
Display	LCD, 2 × 16 signs
Digital time setting	1 min–96 hrs / non–stop (1 min increment)
Timer sound signal	+
Plexiglas walls thickness	7 mm
Maximum load	2.5 kg
Maximum continuous operation time	30 days
Dimensions of the inner chamber	305×260×250 mm
Overall dimensions (W×D×H)	340x340x435 mm
Weight	13.2 kg
Power consumption (230V / 120 V)	160 W (0.7 A) / 170 W (1.6 A)
Nominal operating voltage	230 V, 50/60 Hz or 120 V, 50/60 Hz

CAT. NUMBER

Without platform	Without platform
BS-010111-AAA	230VAC 50/60Hz Euro plug
BS-010111-AAB	230VAC 50/60Hz UK plug
BS-010111-AA3	230VAC 50/60Hz AU plug
BS-010111-AAC	100VAC 50/60Hz US plug, 120VAC 60Hz US plug
BS-010111-CK	IQ OQ document
BS-010111-DK	PQ document

ACCESSORIES



UP-12
BS-010108-AK
platform

Universal platform with adjustable bars for different types of flasks, bottles, and beakers with silicone mat.



P-12/100
BS-010108-EK
platform

Platform with clamps for flasks.



P-6/250
BS-010108-DK
platform

Platform with clamps for flasks.



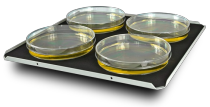
P-16/88
BS-010116-BK
platform

Platform with spring holders for up to 88 tubes up to 30 mm diameter (e. g. 10 ml, 15 ml, 50 ml tubes).



HB-200
BS-010108-FK

Additional holding bar for UP-12



PP-4
BS-010108-BK
platform

Flat platform with non-slip silicone mat for Petri dishes, culture flasks, agglutination cards.



SPM
BS-010111-BK
double-sided adhesive mat

Double-sided adhesive mat. **SPM** is compatible with **PP-4** platform, that fits both on **PSU-10i** orbital shaker and in **ES-20** Shaker-Incubator.