

ES-20/80C Orbital Shaker-incubator with cooling

DESCRIPTION

The advanced ES-20/80C shaker-incubator with cooling is designed for biotechnological and pharmaceutical laboratories.

The temperature range is from 10°C below ambient up to +80 °C with temperature uniformity of $\pm 0.2^\circ\text{C}$ at 37 °C. The ES-20/80C has a settable speed control range of 50-400 rpm (in 10rpm increments).

Cooling of the chamber is provided by additional Peltier modules allowing to cool until -12.5°C from the ambient temperature. Additionally, an excellent sample temperature uniformity of $\pm 0.2^\circ\text{C}$ at 37 °C is achieved.

The inner chamber is made of stainless steel. State-of-the-art motor, thermal insulation materials and parameter PID control decrease the energy consumption and make the shaker-incubator highly energy efficient despite its relatively large size.

Up to 3 units can be stacked, which enables you to save space. The new clear touchscreen display and simple interface provides a clear and intuitive control of parameters. It also allows data logging, storage and display over time.

Bluetooth® connectivity to PC allows for data management, data logging, parameter control and profiling in the included software.

Available with 5 interchangeable platforms and stacking kits. Must be ordered separately.

Applications: Microbial and cell culture cultivation; Protein expression; Solubility studies; General mixing in controlled conditions; Various other applications in the field of Life Science & Chemistry.



SPECIFICATIONS

Temperature setting range	+4°C... +80°C
Temperature control range	12.5°C below ambient... +80°C
Speed control range	50–400 rpm (increment 10 rpm)
Temperature setting resolution	0.1°C
Temperature accuracy at +37°C	$\pm 0.1^\circ\text{C}$
Temperature uniformity at +37°C	$\pm 0.2^\circ\text{C}$
Orbit	20 mm
Display	TFT, 5 inches
Digital time setting	1 min–96 hrs / non–stop (1 min increment)
Timer sound signal	+
Maximum load	10.6 kg
PC system requirements	Intel/AMD Processor, 1 GB RAM, Windows Vista/7/8/8.1/10/11, USB, Bluetooth
Dimensions of the inner chamber	460 × 400 × 325 mm
Overall dimensions (W×D×H)	620 × 620 × 510 mm
Weight	50 kg
Power consumption (230V / 120 V)	810 W (3.7 A)
Nominal operating voltage	230 V, 50/60 Hz

ACCESSORIES



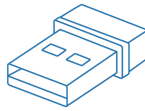
ESSK2

Stacking kit for 2 x
ES-20/80C



ESSK3

Stacking kit for 3 x
ES-20/80C



BLUEAD

Bluetooth adapter



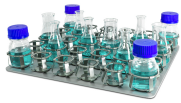
PP-400

Platform flat non-slip mat
360 x 400mm



UP-168

Universal platform for
different flasks
(360 x 400ml)



HSP-30/100

Platform with clamps for
30 x 100-150ml flasks



HSP-6/1000

Platform with clamps for
6 x 1000ml flasks



HSP-9/500

Platform with clamps for
9 x 500ml flasks



HSP-16/250

Platform with clamps for
16 x 250-300ml flasks



HSC-50

Tight fit clamp for 50 ml
flasks. For use with the
UP-168 universal platform



HSC-100

Tight fit clamp for 100 ml
flasks. For use with the
UP-168 universal platform



HSC-250

Tight fit clamp for 250 ml
flasks. For use with the
UP-168 universal platform



HSC-500

Tight fit clamp for 500 ml
flasks. For use with the
UP-168 universal platform



HSC-1000

Tight fit clamp for 1000 ml
flasks. For use with the
UP-168 universal platform



TR-44/15

Adjustable angle test tube
rack for UP-168
(44 x 15ml tubes)



TR-21/50

Adjustable angle test tube
rack for UP-168
(21 x 50ml tubes)



SPML

Double-sided adhesive
strips for use with the
UP-168 universal platform



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Pricing on any accessories shown can be found by keying the part number into the search box on our website.

The specifications listed in this brochure are subject to change by the manufacturer and therefore cannot be guaranteed to be correct. If there are aspects of the specification that must be guaranteed, please provide these to our sales team so that details can be confirmed.

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Please contact us if this literature doesn't answer all your questions.