

## ES-20/60, Environmental Shaker-Incubators



Medical-Biological  
Research & Technologies

Shaker-Incubator **ES-20/60** for biotechnological and pharmaceutical laboratories is a professional category equipment designed for cultivation of micro organisms cells and eukaryotic cells including animal, plant and insect cells. 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 even (or vigorous) mixing in flasks installed on the platform.

Built-in noiseless thermoresistant brushless fan provides precise temperature distribution inside the chamber (adjustable from +10°C above room temperature up to +80°C). The chamber inside is made of stainless steel. State-of-the-art motor, latest 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:

Speed range	50–250 rpm (increment 10 rpm)
Temperature control range	+10°C above ambient ... +80°C
Temperature setting range	+25°C ... +80°C
Setting resolution	0.1°C
Stability	±0.5°C
Maximum load	8 kg
Orbit diameter	20 mm
Timer with sound alarm	1 min–96 hrs (1 min increment)
Display	LCD, 2 x 16 signs
Continuous operation	max. 168 hrs
Overall dimensions	590 x 525 x 510 mm
Weight, not more	43 kg
Power supply	220 V, 50 Hz, 500 W
Heating power	500 W

### Catalogue number:

<b>ES-20/60</b> without platform	BS-010135-AAA
<b>PP-400</b>	BS-010135-FK
<b>P-30/100</b>	BS-010135-BK
<b>P-16/250</b>	BS-010135-CK
<b>P-9/500</b>	BS-010135-AK
<b>P-6/1000</b>	BS-010135-DK

*ES-20/60 with platform P-9/500*



### Heat up time for ES-20/60

from 25°C + 90 min to 80°C

*ES-20/60 with platform PP-400*



## Platforms for ES-20/60

Platform	Description	Dimensions	Working dimensions	Used on	Cat. number
<b>1 P-30/100</b>	Platform with clamps for flasks, 100–150 ml (30 places)	360 x 400 mm	360 x 400 mm	PSU-20i, ES-20/60	BS-010135-BK
<b>2 P-16/250</b>	Platform with clamps for flasks, 250–300 ml (16 places)	360 x 400 mm	360 x 400 mm	PSU-20i, ES-20/60	BS-010135-CK
<b>3 P-9/500</b>	Platform with clamps for flasks, 500 ml (9 places)	360 x 400 mm	360 x 400 mm	PSU-20i, ES-20/60	BS-010135-AK
<b>4 P-6/1000</b>	Platform with clamps for flasks, 1000 ml (6 places)	360 x 400 mm	360 x 400 mm	PSU-20i, ES-20/60	BS-010135-DK
<b>5 PP-400</b>	Flat platform with non-slip rubber mat	400 x 360 mm	400 x 360 mm	ES-20/60	BS-010135-FK

**1** P-30/100



**4** P-6/1000



**2** P-16/250



**5** PP-400



**3** P-9/500

