ES-20/60, Environmental Shaker-Incubators



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.

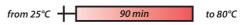
| | Specifications: | |
|--|---------------------------|-----------------------------------|
| | Speed range | 50–250 rpm |
| | | (increment 10 rpm) |
| | Temperature control range | +10°C above ambient +80°C |
| | Temperature setting range | +25°C +80°C |
| | Setting resolution | 0.1°C |
| | Stability | ±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: | | | | | | |
|---------------------------|---------------|--|--|--|--|--|
| ES-20/60 without platform | BS-010135-AAA | | | | | |
| PP-400 | BS-010135-FK | | | | | |
| P-30/100 | BS-010135-BK | | | | | |
| P-16/250 | BS-010135-CK | | | | | |
| P-9/500 | BS-010135-AK | | | | | |
| P-6/1000 | BS-010135-DK | | | | | |

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



Heat up time for ES-20/60



ES-20/60 with platform PP-400



Platforms for ES-20/60

| Platform | Description | Dimensions | Working dimensions | Used on | Cat. number |
|-------------------|---------------------------------------------------------|---------------------|---------------------|-------------------|--------------|
| 1 P-30/100 | 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 |
| 2 P-16/250 | 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 |
| 3 P-9/500 | 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 |
| 4 P-6/1000 | 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 |
| 5 PP-400 | 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



2 P-16/250



3 P-9/500



4 P-6/1000



