

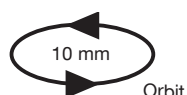
Compact shaker-incubator

ES-20

Versatile and programmable bench-top orbital shaker-incubator for mixing and incubating biological cultures and samples in a variety of flasks and vessels.

- Digital control of time, temperature and shaking speed for accuracy and repeatability
- Variable speed: 50 to 250 rpm
- Temperature setting range: +25°C to 42°C
- Load up to 2.5 kg
- Interchangeable platforms for shaking/incubating different vessels*

2
year warranty



Temperature control by microprocessor plus forced heated air circulation ensures a constant and even temperature within the chamber

Designed for easy assembly/disassembly – easy to move from one location to another. Comes flat packed - no special tools required

Equipped with direct drive shaking system for reliable, long-term operation



ES-20 shaking incubator with PUP-12 universal platform shown (order platform separately)

Simple to programme time, temperature and shaking speed using clear 2-line, 16 character LCD

Robust, compact construction with clear 7mm thick Plexiglass® panels

Option of five easily interchangeable platforms for a wide range of applications*

* supplied without platform, please order separately

- Applications:**
- Life-sciences - suitable for growing cell cultures in flasks, extracting tissue samples at physiological temperatures, sample preparation processes, mixing of biological liquids as well as the incubation and cultivation of biological liquids, growing e-coli, bioluminescence preparation

Shaker-incubator

ES-80

Stable and reliable, with programmable time, temperature and shaking speed. This orbital shaker-incubator is ideal for vigorous or even mixing and incubation of samples in a variety of flasks and vessels.

- Digital control of time, temperature and shaking speed for accuracy and repeatability
- Variable speed: 50 to 250 rpm
- Temperature setting range: +25°C to 80°C
- Load up to 8 kg
- Interchangeable platforms for shaking/incubating different vessels

2
year warranty

ES-80 shaking incubator with P9-500 platform shown (order platform separately)

Simple to programme time, temperature and shaking speed using clear 2-line, 16 character LCD

Robust, compact construction with stainless steel inside chamber

Option of five easily interchangeable platforms for a wide range of applications

State-of the art motor, thermal insulation materials and temperature PID-control decreases the energy consumption - preserves the environment

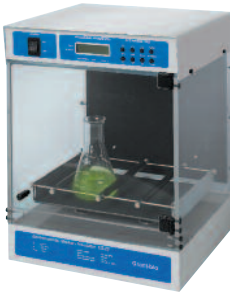


* supplied without platform, please order separately


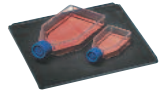








- Applications:**
- Life-sciences - cultivation of micro-organisms, cells and eukaryotic cells including animal, plant and insect cells, long-term cell growth projects, more vigorous shaking possible allowing other sample preparation processes including tissue sample extraction at physiological temperatures and up to 80°C, solubility studies, cell culture, staining/destaining, extraction procedures, gel washing, plasmid purification, bacterial suspension, hybridisation, protein expression in bacteria

Shaker-incubators » ES-20 and ES-80 » Specifications

Shaking incubators – specifications

| | | ES-20 | ES-80 |
|---|-----|---|---|
| | |  |  |
| | | h: 435 mm d: 340 mm w: 340 mm weight: 15kg | h: 510 mm d: 525 mm w: 590 mm weight: 43kg |
| Speed range | rpm | 50 to 250 | |
| Stability | °C | ±0.5 | |
| Orbit | mm | 10 | 20 |
| Temperature setting range | °C | +25 to 42 | +25 to 80 |
| Temperature setting resolution | °C | 0.1 | 0.1 |
| Continuous operation | | 30 days (720 hours) | 168hrs |
| Timer | | 1 min to 96 hours | |
| Load capacity | kg | 2.5 | 8 |
| Internal working dimensions (with installed platform) (l x w x h) cm | | 26 x 30 x 25 | 45 x 39 x 30 |
| Display | | 2 line, 16 character LCD | 2 line, 16 character LCD |
| Power supply | V | 230 (50-60 Hz) | 230 (50-60 Hz) |

Accessories

| | | | |
|--|---|---|---|
| P12-100 Platform with clamps for 12 x 100-150 ml flasks/beakers Dimensions: 250 x 190 mm |  | ● | - |
| PP-4 – Flat platform with non-slip rubber mat for Petri dishes and culture flasks Dimensions: 219 x 219 mm |  | ● | - |
| P6-250 Platform with clamps for 6 x 250-300 ml flasks/beakers Dimensions: 250 x 190 mm |  | ● | - |
| PUP-12 Universal platform, with adjustable bars. Dimensions: 270 x 195 mm HB-200 extra holding bars |  | ● | - |
| P16-88 Platform with spring holders for up to 88 tubes, 30mm diameter |  | ● | - |
| PP-400 Flat platform with non-slip rubber mat (360 x 400mm) |  | - | ● |
| P30-100 Platform with clamps for 30 x 100-150 ml flasks |  | - | ● |
| P16-250 Platform with clamps for 16 x 250-300 ml flasks |  | - | ● |
| P9-500 Platform with clamps for 9 x 500 ml flasks |  | - | ● |
| P6-1000 Platform with clamps for 6 x 1000 ml flasks ml |  | - | ● |