

CERTOMAT® MO II for economic shaking on the bench

**Culture of yeast cells
and bacteria**

Mixing of liquids

Extractions

The **CERTOMAT® MO II** from B. Braun Biotech International has proved its value in many laboratories worldwide. In **chemistry**, this bench-top shaker allows to mix various liquids or extract substances using phase separation methods. In **microbiology** cells can be cultured at ambient tempera-

ture. For temperature control the shaker can be placed in a hot room. Alternatively, our incubation hoods **CERTOMAT® H** or **HK** can be combined with the **CERTOMAT® MO II**. This way bacteria and yeast cells can be grown in a temperature-controlled environment. Erlenmeyer flasks, reaction vials, Fernbach

flasks or various bottles are fixed on the shaker using the clamps or mounting system provided. Alternatively, sticky tape can be used to hold light items in place during agitation.

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**B. Braun
Biotech
International**

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Technical data

Mechanical:

Amplitude	12.5 mm or 25 mm
Shaking speed	40 to 350 rpm
Deviation	± 3 % of the adjustable max. value
Motor	brushless motor, rotor external
Suitable trays	type E and EU (420 x 420 mm, 16.5 x 16.5 in)
Adjustment of time	mechanical timer, up to 120 mins., continuous
Adjustment of speed	potentiometer

Safety:

Protection	IP 21
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Operating conditions

Temperature	from + 10° C to + 60° C
Humidity	from 10 % to 90 % not condensing

Dimensions

External (L x H x D)	430 x 123 x 400 mm (18.1 x 4.8 x 15.7 in)
Weight	31 kg
Max. current	0.35 A/230V, 0.7 A/115V
Max. load	10 kg

Ordering information

CERTOMAT® MO II version with 12.5 mm orbit:
886 085 8 CERTOMAT® MO II 12.5 mm
115/230 V/50–60Hz

CERTOMAT® MO II version with 25 mm orbit:
886 086 6 CERTOMAT® MO II 25 mm
115/230 V, 50–60 Hz

Accessories

For growing cultures or mixing liquids a tray is needed together with additional accessories to hold shaking flasks, separation funnels or tubes.

The choice of these accessories depends on the intended application. For easy reference, the maximum capacity of the tray is indicated for each type of clamp or rack.

All instruments are delivered excluding further accessories.

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Accessories

Reference Description

Tray type E (420 × 420 mm) equipped with stainless steel clamps for Erlenmeyer flasks

- 885 353 3 39 clamps for flasks 100 ml
- 885 356 8 20 clamps for flasks 250 ml
- 885 358 4 14 clamps for flasks 500 ml
- 885 360 6 9 clamps for flasks 1000 ml



Tray type E (420 × 420 mm) equipped with plastic clamps for Erlenmeyer flasks

- 885 368 8 39 clamps for flasks 100 ml
- 885 366 6 19 clamps for flasks 250 ml
- 885 367 7 14 clamps for flasks 500 ml



Universal tray to be completed with clamps, racks or mounting system

- 885 300 2 Type EU (420 × 420 mm)



Stainless steel clamps for tray type EU

- 885 450 5 for flasks 25 ml (max. 49)
- 885 451 3 for flasks 50 ml (max. 48)
- 885 452 1 for flasks 100 ml (max. 24)
- 885 455 6 for flasks 250 ml (max. 17)
- 885 457 2 for flasks 500 ml (max. 12)
- 885 459 9 for flasks 1000 ml (max. 8)
- 885 461 0 for flasks 2000 ml (max. 4)
- 885 462 9 for flasks 3000 ml (max. 4)
- 885 456 4 for Fernbach flasks 450 ml (max. 8)
- 885 460 0 for Fernbach flasks 1800 ml (max. 4)
- 885 464 0 for Fernbach flasks 2800 ml (max. 4)



Plastic clamps reinforced with glass fibre

- 885 470 0 for flasks 100 ml (max. 24)
- 885 471 1 for flasks 250 ml (max. 17)
- 885 472 2 for flasks 500 ml (max. 12)
- 885 473 3 for flasks 1000 ml (max. 8)



Hinged racks for test tubes (4 racks max. on tray EU)

- 885 313 4 for 64 tubes ø 14 mm (total 256 tubes)
- 885 314 2 for 42 tubes ø 16 mm (total 168 tubes)
- 885 315 0 for 36 tubes ø 18 mm (total 144 tubes)
- 885 316 9 for 33 tubes ø 20 mm (total 132 tubes)
- 885 318 5 for 18 tubes ø 25 mm (total 80 tubes)
- 885 317 7 for 12 tubes ø 30 mm (total 48 tubes)



Accessories

Reference Description

Hinged racks for centrifugation tubes (4 racks max. on tray EU)

- 885 308 8 for 36 tubes ø 16 mm (total 144 tubes)
- 885 309 6 for 36 tubes ø 18 mm (total 144 tubes)
- 885 319 3 for 33 tubes ø 20 mm (total 132 tubes)
- 885 324 0 for 12 tubes ø 30 mm (total 48 tubes)



Sticky tape for universal trays

- 886 449 7 Width 30 mm, coil with 60 m



Anti-skid layer (not shown)

- 886 447 0 380 × 450 mm, for individual cut

Universal mounting system

- 885 300 2 Tray type EU (420 × 420 mm)
- 885 423 8 Basis element B-2 for tray EU
- 885 425 4 Universal clamping rod for basic elements B-2



Mounting set for separation funnels in combination with universal mounting system (not shown)

- 885 426 2 for 5 separating funnels 50 or 100 ml
- 885 427 0 for 3 separating funnels 250, 500 or 1000 ml

Shaking flasks with baffles, Erlenmeyer type, DURAN, 3 baffles at 120°, straight rim

- 886 100 5 Erlenmeyer flasks 300 ml, pack of 10
- 886 101 3 Erlenmeyer flasks 500 ml, pack of 10
- 886 102 1 Erlenmeyer flasks 1000 ml, pack of 10
- 886 102 2 Erlenmeyer flasks 2000 ml, pack of 10



Erlenmeyer flasks, DURAN, 3 baffles at 120°, straight rim, connector GL 14

- 886 106 4 Erlenmeyer flasks 300 ml, pack of 10
- 886 107 2 Erlenmeyer flasks 500 ml, pack of 10
- 886 108 0 Erlenmeyer flasks 1000 ml, pack of 10



Caps for Erlenmeyer flasks, straight rim

- 886 109 9 Cap Aluminium, pack of 10
- 886 110 2 Cap Stainless steel, pack of 10



Erlenmeyer flasks, DURAN, baffles at 120° Narrow neck for plug

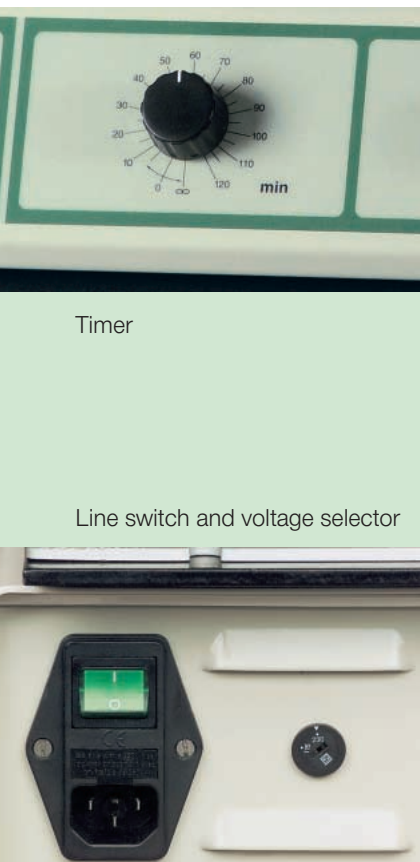
- 886 099 8 Erlenmeyer flasks 500 ml, pack of 10



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CERTOMAT® MO II for economic shaking on the bench

- Compact design
- CERTOMAT® accessories can be used
- Voltage selector 230 V/115 V, 50–60 Hz
- May be combined with incubation hoods CERTOMAT® H/HK



CERTOMAT® MO II with CERTOMAT® HK

Agitation of samples on the bench has never been easier than with **CERTOMAT® MO II**. Its small footprint and superior design make it the ideal

shaker for every laboratory. For temperature control you may complement the **MO II** with our incubation hoods **CERTOMAT® H** and **HK**.

For applications requiring higher load capacities you can use our **CERTOMAT® S II** and **RM** models. If your applications demand tem-

perature controlled shaking cabinets you can expand using our **CERTOMAT® BS-1** and **CERTOMAT® SS-T** incubator shakers.

Your partner



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