



CERTOMAT® RM with patented mass compensation

**Culture of yeast cells
and bacteria**

Mixing of liquids

Extractions

The CERTOMAT® RM from B. Braun Biotech International is the top-end shaker for many laboratories world-wide.

Its patented adjustable mass compensation allows high shaking speeds at high loads. In **chemistry**, this bench-top shaker allows to mix various liquids or to extract substances

using phase separation methods. In **microbiology** cells can be cultured at ambient temperature. 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® RM. This way bacteria and yeast cells can be grown in a temper-

ature-controlled environment. Erlenmeyer flasks, reaction vials, Fernbach flasks or various bottles are fixed on the shaker using the clamps or mounting system provided.

Alternatively stick tape can be used to hold light items in place during agitation.

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**B. Braun
Biotech
International**

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Detail CERTOMAT® RM

Technical data:**Mechanical:**

Shaking speed:	40 to 400 rpm
Amplitude:	25 mm or 50 mm, convertible
Deviation of frequency:	± 3 % of the adjustable max. value
Motor:	brushless motor, rotor external
Suitable trays:	Type E and EU (420 × 420 mm, 16.5 × 16.5 in) Type F and FU (800 × 420 mm, 31.5 × 16.5 in)
Adjustment of time:	digital timer up to 98:59 h, continuous
Adjustment of speed:	digital via keypad
Display:	Alphanumeric LCD

Safety:

Protection class:	IP 1
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Operation conditions:

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

Dimensions and Weight:

External (L × H × D):	510 × 160 × 545 mm (20.1 × 6.3 × 21.5 in)
Weight:	46 kg (101 lb)
Max. current:	0.8 A / 230 V, 1.6 A / 115 V

Ordering Information:

CERTOMAT® RM version with 25 mm orbit:

886 232 0 CERTOMAT® RM / 25 mm 230 V, 50 Hz

886 233 8 CERTOMAT® RM / 25 mm 115 V, 60 Hz

CERTOMAT® RM Version with 50 mm Hub:

886 242 7 CERTOMAT® RM / 50 mm 230 V, 50 Hz

886 243 5 CERTOMAT® RM / 50 mm 115 V, 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 Accessories for CERTOMAT® shakers can be used.

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



Tray type F (800 × 420 mm) equipped with stainless steel clamps for Erlenmeyer flasks

885 373 8	74 clamps for flasks 100 ml
885 376 2	40 clamps for flasks 250 ml
885 378 9	26 clamps for flasks 500 ml
885 380 0	15 clamps for flasks 1000 ml



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

885 300 2	Type EU (420 × 420 mm)
885 303 7	Type FU (800 × 420 mm)



Stainless steel clamps for tray type EU/FU

885 450 5	for flasks 25 ml (max. 49/98)
885 451 3	for flasks 50 ml (max. 48/96)
885 452 1	for flasks 100 ml (max. 24/48)
885 455 6	for flasks 250 ml (max. 17/39)
885 457 2	for flasks 500 ml (max. 12/26)
885 459 9	for flasks 1000 ml (max. 8/17)
885 461 0	for flasks 2000 ml (max. 4/9)
885 462 9	for flasks 3000 ml (max. 4/8)
885 463 7	for flasks 5000 ml (max. 2/6)
885 456 4	for Fernbach flasks 450 ml (max. 8/15)
885 460 0	for Fernbach flasks 1800 ml (max. 4/6)
885 464 0	for Fernbach flasks 2800 ml (max. 4/6)



Plastic clamps reinforced with glass fibre

885 470 0	for flasks 100 ml (max. 24/48)
885 471 1	for flasks 250 ml (max. 17/39)
885 472 2	for flasks 500 ml (max. 12/26)
885 473 3	for flasks 1000 ml (max. 8/17)



Hinged racks for test tubes

(4 racks max. on tray EU, 8 racks max. on tray FU)

885 313 4	for 64 tubes ø 14 mm
885 314 2	for 42 tubes ø 16 mm
885 315 0	for 36 tubes ø 18 mm
885 316 9	for 33 tubes ø 20 mm
885 318 5	for 18 tubes ø 25 mm
885 317 7	for 12 tubes ø 30 mm



Accessories

Reference Description

Hinged racks for centrifugation tubes (4 racks max. on tray EU, 8 racks max. on tray FU)

885 308 8	for 36 tubes ø 16 mm
885 309 6	for 36 tubes ø 18 mm
885 319 3	for 33 tubes ø 20 mm
885 324 0	for 12 tubes ø 30 mm



Sticky tape for universal trays

886 449 7	Width 30 mm, coil with 50 m
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Anti-skid layer (not shown)

886 447 0	380 × 450 mm, for individual cut
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Universal mounting system

885 300 2	Tray type EU (420 × 420 mm)
885 423 8	Basic element B-2 for tray EU
885 303 7	Universal tray FU (800 × 420 mm)
885 424 6	Basic element B-3 for tray FU
885 425 4	Universal clamping rod for basic elements B-2 and B-3



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 3	Erlenmeyer flasks 500 ml, pack of 10
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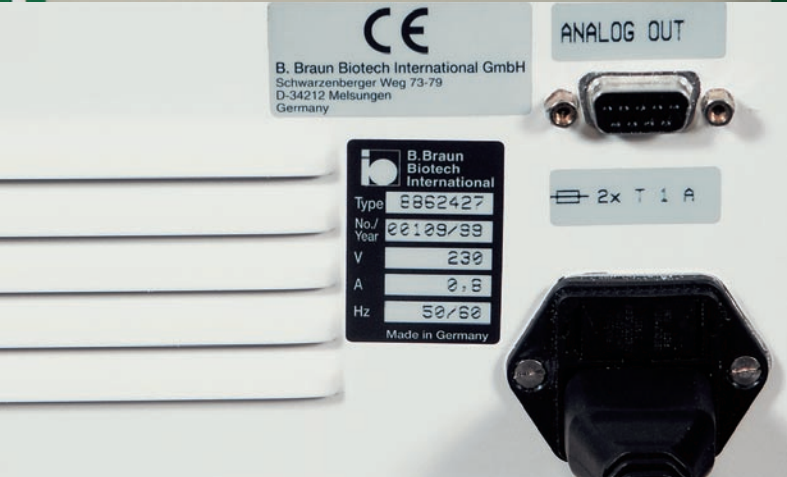
CERTOMAT® RM with patented mass compensation

- Adjustable mass compensation for optimum performance with large loads
- Automatic tray fixation
- Digital setting of time and speed
- 25 mm or 50 mm orbit
- Analogue out for shaker speed
- CERTOMAT® accessories can be used
- Can be combined with incubation hoods CERTOMAT® H / HK

Positioning of the tray



CERTOMAT® RM display and keypad



Line connection and analogue out



CERTOMAT® RM and CERTOMAT® HL

Agitation of samples on the bench has never been easier than with the CERTOMAT® RM.

Its adjustable mass compensation and superior design make

it the ideal shaker for every laboratory. For temperature control you can complement the RM with our incubation hoods CERTOMAT® H and HK.

For applications requiring lower load capacities and smaller orbit you can use our CERTOMAT® MO II model.

As temperature controlled shaking cabinets you can expand using our CERTOMAT® IS, CERTOMAT® SS-1 and CERTOMAT® B-T incubator shakers.

Your partner



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