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CERTOMAT[®] RM
With patented, adjustable
mass compensation

CERTOMAT® RM

With patented, adjustable mass compensation

The CERTOMAT® RM is regarded as the most powerful shaker worldwide for laboratory applications. Its patented, adjustable mass compensation allows shaking of maximum loads at high speed without the risk of uneven running or increased wear.

The CERTOMAT® RM is available with shaking amplitudes of 25 mm or 50 mm. The powerful and robust drive system consisting of brushless motor, triple-eccentric drive and Poly-V-drive belt stands for quiet runs even at high load. Shaking speed and running time are set by means of a key pad and shown on the LCD display.

Shaking speed can be recorded externally through an analogue out. The integrated memory function re-establishes the last set-point after a power failure. The visual alarm alerts the user of a malfunction. The unit is manufactured in accordance with current EC directives and standards.

The CERTOMAT® RM is designed for use of a wide variety of accessories, including clamps for Erlenmeyer and Fernbach flasks with a capacity between 25 ml and 5 L, racks for test tubes and centrifuge tubes and universal mounting systems for odd-shaped vessels. For fixation of light objects such as microtiter plates during shaking, sticky tape can be used as an alternative.

Applications include cultivation of micro-organisms in shaking flasks at room temperature and mixing of liquids or extraction of components during phase separation. For growth of cells in a temperature-controlled environment the CERTOMAT® RM can be operated in combination with the incubation hoods CERTOMAT® H and CERTOMAT® HK.

Benefits

Adjustable mass compensation for high performance with large loads

Safe and easy tray fixation

25 mm or 50 mm orbit

Speed 40–400 rpm

Digital setting and reading of time and speed

Analog out for shaker speed

Memory function

Complete range of CERTOMAT® accessories can be used

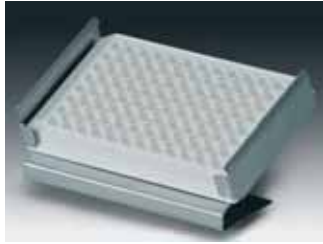
Can be combined with incubation hoods CERTOMAT® H/HK



Accessories



| Reference | Description |
|--------------|---|
| | Tray type E (420×420 mm) equipped with stainless steel clamps for Erlenmeyer flasks |
| BBI-885 3533 | 39 clamps for flasks 100 ml |
| BBI-885 3568 | 20 clamps for flasks 250 ml |
| BBI-885 3584 | 14 clamps for flasks 500 ml |
| BBI-885 3606 | 9 clamps for flasks 1,000 ml |
| | Tray type E (420×420 mm) equipped with plastic clamps for Erlenmeyer flasks |
| BBI-885 3688 | 39 clamps for flasks 100 ml |
| BBI-885 3666 | 19 clamps for flasks 250 ml |
| BBI-885 3677 | 14 clamps for flasks 500 ml |
| | Tray type F (800×420 mm) equipped with stainless steel clamps for Erlenmeyer flasks |
| BBI-885 3738 | 74 clamps for flasks 100 ml |
| BBI-885 3762 | 40 clamps for flasks 250 ml |
| BBI-885 3789 | 26 clamps for flasks 500 ml |
| BBI-885 3800 | 15 clamps for flasks 1,000 ml |
| | Universal tray to be completed with clamps, racks or mounting system |
| BBI-885 3002 | Type EU (420×420 mm) |
| BBI-885 3037 | Type FU (800×420 mm) |
| | Stainless steel clamps for Erlenmeyer and Fernbach flasks (maximum number of clamps for tray type EU/type FU) |
| BBI-885 4505 | for flasks 25 ml (max. 49/98) |
| BBI-885 4513 | for flasks 50 ml (max. 48/96) |
| BBI-885 4521 | for flasks 100 ml (max. 24/48) |
| BBI-885 4556 | for flasks 250 ml (max. 17/39) |
| BBI-885 4572 | for flasks 500 ml (max. 12/26) |
| BBI-885 4599 | for flasks 1,000 ml (max. 8/17) |
| BBI-885 4610 | for flasks 2,000 ml (max. 4/9) |
| BBI-885 4629 | for flasks 3,000 ml (max. 4/8) |
| BBI-885 4637 | for flasks 5,000 ml (max. 2/6) |
| BBI-885 4564 | for Fernbach flasks 450 ml (max. 8/15) |
| BBI-885 4600 | for Fernbach flasks 1,800 ml (max. 1/6) |
| BBI-885 4640 | for Fernbach flasks 2,800 ml (max. 1/6) |
| | Plastic clamps reinforced with glass fibre (maximum number of clamps for tray type EU/type FU) |
| BBI-885 4700 | for flasks 100 ml (max. 24/48) |
| BBI-885 4711 | for flasks 250 ml (max. 18/39) |
| BBI-885 4722 | for flasks 500 ml (max. 12/26) |
| BBI-885 4733 | for flasks 1,000 ml (max. 8/17) |
| | Hinged racks for test tubes (4 racks max. on tray EU, 8 racks max. on tray FU) |
| BBI-885 3134 | for 64 tubes Ø 14 mm |
| BBI-885 3142 | for 42 tubes Ø 16 mm |
| BBI-885 3150 | for 36 tubes Ø 18 mm |
| BBI-885 3169 | for 33 tubes Ø 20 mm |
| BBI-885 3185 | for 20 tubes Ø 25 mm |
| BBI-885 3177 | for 16 tubes Ø 30 mm |
| | Hinged racks for centrifugation tubes (4 racks max. on tray EU, 8 racks max. on tray FU) |
| BBI-885 3088 | for 42 tubes Ø 16 mm |
| BBI-885 3096 | for 36 tubes Ø 18 mm |
| BBI-885 3193 | for 33 tubes Ø 20 mm |
| BBI-885 3240 | for 16 tubes Ø 30 mm |



| Reference | Description |
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| BBI-885 0321 | Holders for microtiter plates, stainless steel for 1 standard 96-well plate or deepwell plate standard plates: max. 12 holders on EU tray, 21 holders on FU tray deepwell plates: max. 9 holders on EU tray, 18 holders on FU tray |



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| BBI-886 4497 | Sticky tape for universal trays Standard, Width 30 mm, roll of 50 m |
| BBI-886 0416 | Premium, Width 30 mm, roll of 10 m, for repeated use |



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| BBI-886 4470 | Anti-skid layer (not shown) 380 x 450 mm, for individual cut |
| BBI-885 4238 | Universal mounting system Basic element type B-2 for tray EU |
| BBI-885 4246 | Basic element B-3 for tray FU |
| BBI-885 4254 | Clamping rod, type U for mounting systems B-2 and B-3 |



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| BBI-886 1005 | Shaking flasks DURAN, Erlenmeyer type, 3 baffles at 120°, straight rim Erlenmeyer flasks 300 ml, pack of 10 |
| BBI-886 1013 | Erlenmeyer flasks 500 ml, pack of 10 |
| BBI-886 1021 | Erlenmeyer flasks 1,000 ml, pack of 10 |
| BBI-886 1022 | Erlenmeyer flasks 2,000 ml, pack of 10 |



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| BBI-886 1064 | Shaking flasks, DURAN, Erlenmeyer type, 3 baffles at 120°, straight rim, connector GL 14 Erlenmeyer flasks 300 ml, pack of 10 |
| BBI-886 1072 | Erlenmeyer flasks 500 ml, pack of 10 |
| BBI-886 1080 | Erlenmeyer flasks 1,000 ml, pack of 10 |



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| BBI-886 1099 | Caps for Erlenmeyer flasks, straight rim Cap Aluminium, pack of 10 |
| BBI-886 1102 | Cap Stainless steel, pack of 10 |



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| BBI-886 0998 | Shaking flasks, DURAN, Erlenmeyer type, 3 baffles at 120°, narrow neck for plug Erlenmeyer flasks 500 ml, pack of 10 |
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Ordering Information and Technical Specifications

Ordering Information

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| CERTOMAT® RM version with 25 mm orbit: | | |
| 230 V/50 Hz | BBI-886 2320 | CERTOMAT® RM/25 mm |
| 115 V/60 Hz | BBI-886 2338 | |
| CERTOMAT® RM version with 50 mm orbit: | | |
| 230 V/50 Hz | BBI-886 2427 | CERTOMAT® RM/50 mm |
| 115 V/60 Hz | BBI-886 2435 | |

Technical specifications

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| Mechanical data | Dimensions | W × H × D = 511 × 160 × 545 mm |
| | Weight (without tray) | 46 kg |
| | Housing | Steel construction |
| | Drive mechanism | Brushless motor, triple eccentric drive, with adjustable mass compensation |
| | Trays, type/size | Type E/EU (420 × 420 mm) Type F/FU (800 × 420 mm) |
| | Tray fixation | Simple snap mechanism |
| | Max. load Protection | >20kg, mass compensation adjustable according to load IP21 |
| Electrical data | Connection | Class I cold socket, separate cable approx. 3 m |
| | Protection class | I |
| | Line voltage | 230 V / 50 Hz or 115 V / 60 Hz |
| | Amperage | 0,8 A at 230 V, 1,6 A at 115 V |
| | Fuses | 2 x T1 A at 230 V, 2 x T2 A at 115 V |
| | Interference | According to DIN EN 55022 and DIN EN 61000 |
| Operating data | Mode of shaking | Orbital, Ø 25 mm or 50 mm, according to version |
| | Shaking speed | 40 to 400 U/min |
| | Accuracy | max. ±1% of final value |
| | Setting / display | Alphanumeric key pad, LCD |
| | Timing | 0:01 to 98:59 hours; continuous action at 99:00 hours |
| | Memory function | Restart after power failure |
| | Alarms | visual |
| | Ambient temperatures Humidity | +10°C to +60 °C Avoid extreme humidity |
| Data output | Analogue | For speed, 9- pin SUB-D socket, 0 to 10 V or 0 to 20 mA resp. 4 to 20 mA (modification by technical service) |

All instruments are delivered without tray and other accessories.

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