



**CERTOMAT<sup>®</sup> U**  
Orbital and linear  
benchtop shaker with  
magnetic drive

## CERTOMAT® U

### Orbital and linear benchtop shaker with magnetic drive

Its strong magnetic drive makes this benchtop shaker an optimally suited tool for nearly all shaking applications in the laboratory. On top of this, its mode of shaking can be converted from orbital to linear by a simple step.

The CERTOMAT® U is a proven construction designed for long life without wear and tear. The powerful magnetic drive with micro-processor control guarantees a quiet run.

The shaking speed is easily set by up and down keys. The actual values are indicated on the LED display. The memory function automatically re-establishes the set value after power failure and restoration. The user is alerted of malfunction by an acoustic alarm.

The CERTOMAT® U 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.

Safe and fast fixation of the trays by means of a lever makes the changing of trays very easy.

For growth of cells in a temperature-controlled environment the CERTOMAT® U can be operated in combination with the incubation hoods CERTOMAT® H and CERTOMAT® HK. Incubation temperatures of RT + 8°C to 60°C or, in case of the CERTOMAT® HK, + 10°C to + 60°C can be established, using an external cooling circuit in the latter case.

#### Benefits

Silent run

Strong magnetic drive

Conversion from orbital to linear mode

Memory function

Safe and quick tray fixation by lever

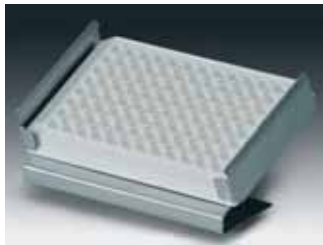
Maintenance-free with long service life



## Accessories



Reference	Description
	<b>Tray type E (420×420 mm) equipped with stainless steel clamps for Erlenmeyer flasks</b>
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
	<b>Tray type E (420×420 mm) equipped with plastic clamps for Erlenmeyer flasks</b>
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
	<b>Tray type F (800×420 mm) equipped with stainless steel clamps for Erlenmeyer flasks</b>
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
	<b>Universal tray to be completed with clamps, racks or mounting system</b>
BBI-885 3002	Type EU (420×420 mm)
BBI-885 3037	Type FU (800×420 mm)
	<b>Stainless steel clamps for Erlenmeyer and Fernbach flasks</b> (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)
	<b>Plastic clamps reinforced with glass fibre</b> (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)
	<b>Hinged racks for test tubes</b> (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
	<b>Hinged racks for centrifugation tubes</b> (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



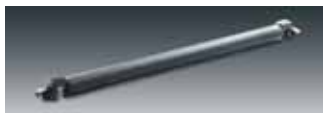
Reference	Description
BBI-885 0321	<b>Holders for microtiter plates, stainless steel</b> for 1 standard 96-well plate or deepwell plate standard plates: max. 12 holders on EU tray, 21 holders on FU tray deepwell plates: max. 9 holders on EU tray, 18 holders on FU tray



BBI-886 4497	<b>Sticky tape for universal trays</b> Standard, Width 30 mm, roll of 50 m
BBI-886 0419	Premium, Width 30 mm, roll of 10 m, for repeated use



BBI-886 4470	<b>Anti-skid layer (not shown)</b> 380 x 450 mm, for individual cut
BBI-885 4238	<b>Universal mounting system</b> 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



BBI-886 1005	<b>Shaking flasks DURAN, Erlenmeyer type, 3 baffles at 120°, straight rim</b> 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



BBI-886 1064	<b>Shaking flasks, DURAN, Erlenmeyer type, 3 baffles at 120°, straight rim, connector GL 14</b> 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



BBI-886 1099	<b>Caps for Erlenmeyer flasks, straight rim</b> Cap Aluminium, pack of 10
BBI-886 1102	Cap Stainless steel, pack of 10



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

### Ordering data (without tray and other accessories)

230 V/50–60 Hz	BBI-886 3121	CERTOMAT® U
115 V/50–60 Hz	BBI-886 0238	CERTOMAT® U

### Technical specifications

Mechanical data	Dimensions Weight ( without tray ) Housing Drive mechanism Trays, type/size  Tray fixation Max. load Protection	W × H × D = 480 × 130 × 520 mm 52 kg Steel construction Magnetic, triple eccentric drive Type E/EU (420 × 420 mm) Type F/FU (800 × 420 mm) Fixing lever 20 kg IP21
Electrical data	Connection Protection class Line voltage Amperage Fuses Interference	Class I cold socket, separate cable approx. 3 m I 230 V / 50 Hz or 115 V / 60 Hz 0,7 A at 230 V, 1,2 A at 115 V 2 x T2A at 230 V, 2 x T2.5 A at 115V According to DIN EN 55022 and DIN EN 61000
Operating data	Schüttelbewegung Schüttelgeschwindigkeit Drehzahlabweichung Einstellung / Anzeige Memory-Funktion Alarme Umgebungstemperatur Feuchte	Orbital, Ø 25 mm, or linear, convertible 40 to 350 rpm max. ± 5 % of final value LED Restart after power failure acoustic +10°C to +60 °C Avoid extreme humidity

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