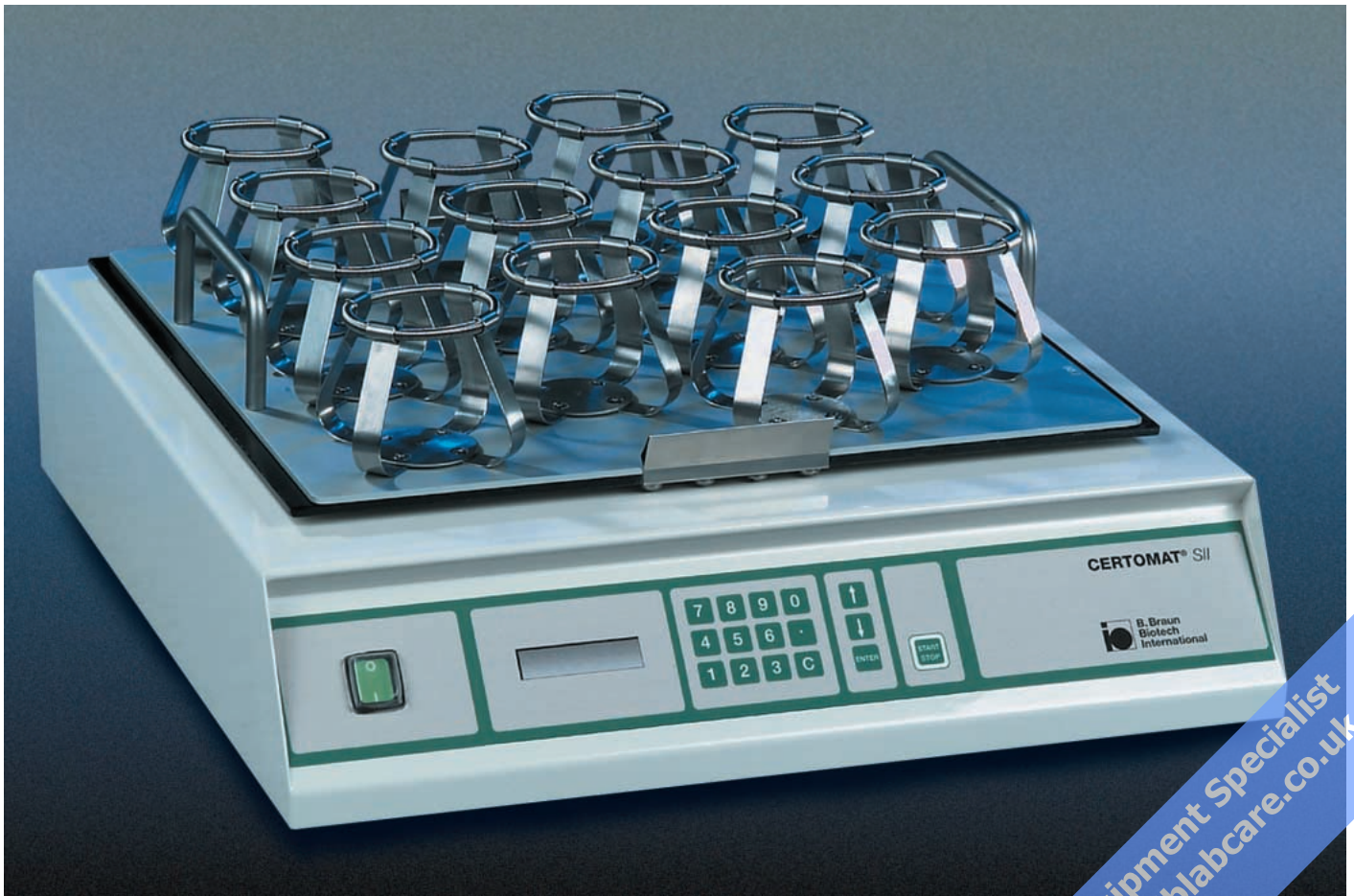


# CERTOMAT® S II

Orbital bench top shaker



**B. Braun  
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# CERTOMAT® S II

- Microbiology
- Cell biology
- Molecular biology
- Biochemistry



## Description

The CERTOMAT® S II offers more features for your applications with two shaking amplitudes and digital control, making it a versatile tool for your laboratory. This bench-top, orbital shaker is ideal for a variety of applications including cultivating microorganisms and shaking separatory funnels or other types of vessels.

## Details

The CERTOMAT® S II is available in 25 mm and 50 mm orbit models. The triple bearing, brushless drive belt assembly is strong, stable, and quiet even with heavy loads. Shaking speed and time functions are adjusted with a liquid-resistant membrane keypad with the values indicated on the LCD.

The design accepts a broad range of clamp types including 25 ml to 5 l Erlenmeyer and Fernbach clamps, and test tube rack and universal mounting systems for odd shaped vessels. With numerous tray choices, a variety of flask, test tube, and other vessel arrangements are possible. An analogue output for external recording of speed is included. The integrated memory function re-establishes the last setpoint after power failure. Visual alarm warns the user of a malfunction. The unit is built in accordance with the EN 61010 regulation.

## Technical data

### Mechanic

Type of shaking:	Orbital motion
Amplitude:	25 mm or 50 mm, convertible
Shaking speed:	40–400 rpm, depending on load
Drive:	brushless motor
Drive control:	microprocessor controlled

### Shaking speed

Speed adjustment:	foil key pad
Indication:	LCD, alphanumeric
Precision of the speed:	± 1% from max. value

### Timer

Adjustment:	up to 98:58 h and continuous run
Indication:	LCD, alphanumeric

### Trays

Suitable trays:	E / EU (420 × 420 mm) F / FU (420 × 800 mm) EU-2 (2 × EU trays)
Maximum load:	All trays with accessories of BBI-Program
Fixation of the tray:	Fixation by snap mechanism

### Electric

Power supply:	230 V / 50–60 Hz
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### Ambient conditions

Temperature admissible:	from 10 °C to 60 °C
Relative humidity admissible:	from 10 to 90 % not condensing

### Security

Memory:	Automatic restart after power failure
Alarm:	Optic in case of malfunction

### Documentation

Analogue out:	Shaking speed
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### Dimensions and weight

L × H × D (without tray):	510 × 160 × 545 mm
Weight:	46 kg

## Ordering data

(the units are delivered without tray and accessories):

886 252 4	CERTOMAT® S II / 25 mm, 230 V / 50–60 Hz
886 262 1	CERTOMAT® S II / 50 mm, 230 V / 50–60 Hz
886 253 2	CERTOMAT® S II / 25 mm, 115 V / 50–60 Hz
886 263 1	CERTOMAT® S II / 50 mm, 115 V / 50–60 Hz

## Accessories

### Reference Description

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

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



#### Tray type E (420 × 420 mm) equipped with plastic clamps reinforced with glass fiber

885 368 8	39 clamps for 100 ml
885 366 6	20 clamps for 250 ml
885 367 7	14 clamps for 500 ml



Tray type F

#### Tray type F (800 × 420 mm)

##### equipped with stainless steel clamps for Erlenmeyer flasks

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



Universal tray type FU

#### Universal tray (select clamps are needed)

885 300 2	Type EU (420 × 420 mm)
885 303 7	Type FU (800 × 420 mm)
885 210 9	Type EU-2 (set of two EU trays)

#### Stainless steel clamps for Erlenmeyer and Fernbach flasks (maximum number of clamps for tray type EU/type FU)

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



#### Plastic clamps reinforced with glass fiber

##### (maximum number of clamps for tray type EU/type FU)

885 470 0	for 100 ml (max. 24/48)
885 471 1	for 250 ml (max. 18/39)
885 472 2	for 500 ml (max. 12/26)
885 473 3	for 1000 ml (max. 8/17)



#### Hinged racks for test tubes

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

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

#### Hinged racks for test tubes

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

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



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## Accessories

### Reference Description

#### Sticky tape for universal trays

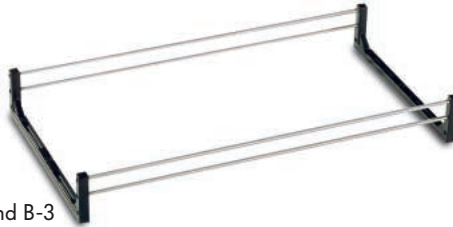
896 4497 Width 30 mm, length 60 m

#### Anti-skid layer for type FU/EU trays

886 4470 Dimension 380 × 450 mm

#### Universal mounting system

885 3002 Tray type EU (420 × 420 mm)  
 885 4238 Universal mounting system type B-2 for tray EU  
 885 3037 Universal-Tablar FU (420 × 800 mm)  
 885 4246 Universal mounting system B-3 for tray FU  
 885 4254 Clamping rod, type U for mounting systems B-2 and B-3



#### Mounting system for separatory funnels (for use with type EU, in combination with type B-2 universal system)

885 4262 Type S-1 for 5 separatory funnels 50 and 100 ml  
 885 4270 Type S-2 for 3 separatory funnels, 250, 500 and 1000 ml



### Erlenmeyer shaking flasks with baffles at 120° made of Duran glass

#### Straight rim

886 1005 300 ml, pack of 10  
 886 1013 500 ml, pack of 10  
 886 1021 1000 ml, pack of 10  
 886 1022 2000 ml, pack of 10

#### Straight rim with connector GL 14

886 1064 300 ml, pack of 10  
 886 1072 500 ml, pack of 10  
 886 1080 1000 ml, pack of 10

#### Caps

886 1099 Aluminium caps, pack of 10  
 886 1102 Stainless steel inox caps, pack of 10

#### Narrow neck for plug

886 0998 500 ml, pack of 10



### Incubation hoods

886 3423 **CERTOMAT® H** (heating only)  
 885 3520 **CERTOMAT® HK** (heating and cooling)  
 852 1620 **FRIGOMIX® R** (recirculation cooler for CERTOMAT® HK)  
 852 5765 Tubing dia. 12 mm, length 2 m  
 852 5803 Tubing insulation for ref. 852 5765  
 392 239 65 Tube clamps, pack of 10



### Our partner



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International**

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