

CERTOMAT[®] IS
For controlled benchtop
incubation

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The CERTOMAT® IS from Sartorius has proven its value in many laboratories world-wide. This benchtop incubator allows to grow bacteria and yeast cells in a temperature-controlled environment from 8 °C above ambient temperature up to 60 °C.

It is thus ideally suited for the temperature range most commonly used in biology laboratories. Equipped with an optional integrated cooling unit, the temperature range can be lowered to 10 °C below ambient temperature.

The CERTOMAT® IS is fully programmable for all parameters. Shaking speed and temperature can be established over defined time periods. Up to five programs, each consisting of a pre-culturing step and four consecutive incubation steps, can be entered by the user and stored password-protected.

Safety features include the memory function that stores the last set points and reinstalls them after a power failure. Time and duration of the interruption are recorded and shown on the display. Thresholds for acoustic and visual alarms can be set by the user. An integrated spill tray prevents any liquids from broken flasks from entering the mechanical system.

Due to the compact design, the footprint of the CERTOMAT® IS is small enough to find place even in crowded laboratories.

If more cell cultivation capacity is needed, the incubation shakers CERTOMAT® BS-1 and CERTOMAT® BS-T are available with the same programming capabilities.

Benefits

Compact design

Fully programmable with up to 5 programs, password-protected

Menu language selectable by the user

Comprehensive alarm system

Analogue outlet for data recording

Integrated cooling system (optional)

Shaking amplitude 25 mm or 50 mm

Rapid and easy tray fixation

Integrated spill tray

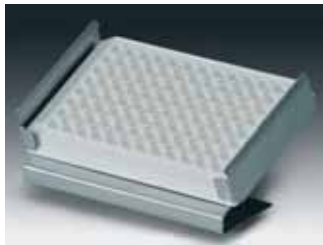
Accepts up to four 3 liter flasks



Accessories



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

**Reference****Description**

885 0321

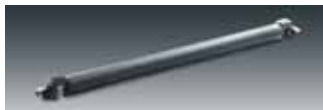
Holders for microtiter plates, stainless steel
for 1 standard 96-well plate or deepwell plate
standard plates: max. 12 holders on EU tray
deepwell plates: max. 9 holders on EU tray

886 4497
886 0416
886 4470

Sticky tape for universal trays
Standard, roll of 50 m, 30×1 mm
Premium, roll of 10 m, 30×1 mm, repeated use
Anti-skid layer, 380×450 mm, for individual cut

885 4238
885 4254

Universal mounting system
Basic element B-2 for tray EU
Universal clamping rod for basic elements B-2

885 4262
885 4270

**Mounting set for separation funnels
in combination with universal mounting system (not shown)**
for 5 separating funnels 50 or 100 ml
for 3 separating funnels 250, 500 or 1,000 ml

886 1005
886 1013
886 1021
886 1022

**Shaking flasks, DURAN, Erlenmeyer type,
3 baffles at 120°, straight rim**
Erlenmeyer flasks 300 ml, pack of 10
Erlenmeyer flasks 500 ml, pack of 10
Erlenmeyer flasks 1,000 ml, pack of 10
Erlenmeyer flasks 2,000 ml, pack of 10

886 1064
886 1072
886 1080

**Shaking flasks, DURAN, Erlenmeyer type,
3 baffles at 120°, straight rim, connector GL 14**
Erlenmeyer flasks 300 ml, pack of 10
Erlenmeyer flasks 500 ml, pack of 10
Erlenmeyer flasks 1,000 ml, pack of 10

886 1099
886 1102

Caps for Erlenmeyer flasks, straight rim
Cap Aluminium, pack of 10
Cap Stainless steel, pack of 10

**Shaking flasks, DURAN, Erlenmeyer type,
3 baffles at 120°, narrow neck for plug**
Erlenmeyer flasks 500 ml, pack of 10

Ordering Information and Technical Specifications

Ordering information

CERTOMAT® IS version with circulation/heating (UH)		
230 V/50 Hz	886 4829	CERTOMAT® IS/25 mm
230 V/50 Hz	886 4926	CERTOMAT® IS/50 mm
115 V/60 Hz	886 4837	CERTOMAT® IS/25 mm
115 V/60 Hz	886 4934	CERTOMAT® IS/50 mm
CERTOMAT® IS version with circulation/heating/cooling (UHK)		
230 V/50 Hz	886 4845	CERTOMAT® IS/25 mm
230 V/50 Hz	886 4942	CERTOMAT® IS/50 mm
115 V/60 Hz	886 4853	CERTOMAT® IS/25 mm
115 V/60 Hz	886 4953	CERTOMAT® IS/50 mm

All instruments are delivered without trays and other accessories.

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

Technical specifications

Mechanical data	Dimensions	W × H × D = 540 × 560 × 685 mm
	Incubation chamber	W × H × D = 505 × 370 × 510 mm
	Weight (without tray)	65 kg
	Housing	Steel construction, with plexiglass lid
	Drive mechanism	Brushless motor, triple eccentric drive
	Trays, type/size	Type E/EU (420 × 420 mm)
	Tray fixation	Simple snap mechanism
	Max. load	15 kg
Protection	IP21	
Electrical data	Connection	Class I cold socket, separate cable approx. 3 m
	Protection class	I
	Line voltage	230 V / 50 Hz or 115V / 60 Hz
	Heating capacity	650 W
	Cooling capacity	300 W
	Fuses	2 × T6.3A for 230 V, 2 × T10A for 115 V
Interference	According to DIN EN 55022 and DIN EN 6100	
Operating data	Mode of shaking	orbital, Ø 25 mm or 50 mm, according to version
	Shaking speed	40 to 400 rpm
	accuracy	max. ± 1% of final value
	Incubation temperature	RT + 8 °C to + 60 °C (UH) RT - 10 °C to + 60 °C (UHK)
	setting/display	Alphanumeric key pad, LCD
	Programming	Up to 5 programs with 4 steps and 1 pre-step, with cycling
	Programmable parameters	Speed, time, temperature
	Timing	0:01 to 98:59 hours; continuous action at 99:00 hours
	Memory function	Restart after power failure
	Alarms	Acoustic and visual
Air circulation	Approx. 180 m ³ /h	
Ambient temperature	+ 10 °C to + 35 °C (UH) + 10 °C to + 30 °C (UHK)	
humidity	Avoid extreme humidity	
Data output	analogue	for speed and temperature, 9-pin SUB-D socket, 0 to 10 V or 0 to 20 mA resp. 4 to 20 mA (modification by technical service)
	digital	for speed and temperature, printout via RS 232 interface, initiated by pressing "START" button during action, and for service functions
	Collective alarm	Potential-free contact (closer), max. 230 VAC (0,5 A Ohm load) via SUB-D socket "Analog Out" Pin 4/9

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