

## Product Information 2018

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# Incubators

## Standard Incubators

### Features:

- Temperature range: ambient + 8 °C to 70 °C
- Temperature uniformity:  $\pm 0.5$  °C at 37 °C
- Stainless steel interior and shelves
- Unique warm air jacket design
- Triple wall construction, no blowers/fans in chamber
- Heated outer door, inner glass door
- Microprocessor control, LED display
- Over temperature alarm
- 1 interior electrical outlet
- 1 access port



SMI6-2



SMI11-2



SMI12-2

Cat. No.	Chamber capacity	Shelves	Dimensions exterior (chamber) w x d x h
SMI2-2	56 l	2	approx. 54 x 57 x 66 (38 x 38 x 38) cm
SMI6-2	166 l	3	approx. 65 x 69 x 97 (49 x 51 x 66) cm
SMI7-2	184 l	2	approx. 76 x 79 x 82 (60 x 61 x 51) cm
SMI11-2*	309 l	6	approx. 107 x 69 x 97 (92 x 51 x 66) cm
SMI12-2**	2 x 166 l	2 x 3	approx. 65 x 69 x 193 (49 x 51 x 65) cm

\* SMI11-2: unit with 1 chamber and 2 doors, \*\* SMI12-2: unit with 2 stacked separate chambers

## Peltier Cooled Incubators

### Features:

- Thermoelectric cooling technology eliminates the need for a refrigeration compressor and requires up to 70 % less power
- Temperature range: 15 °C to 40 °C (at 20 °C ambient)
- Temperature uniformity:  $\pm 0.5$  °C at 20 °C
- Fan assisted/forced-air circulation
- Over temperature and door alarms
- 1 interior electrical outlet
- 1 access port



SRI6P-2



SRI20P-2

Cat. No.	Chamber capacity	Shelves	Dimensions exterior (chamber) w x d x h
SRI3P-2	99 l	2	approx. 61 x 54 x 86 (48 x 43 x 67) cm
SRI6P-2	185 l	2	approx. 76 x 80 x 85 (65 x 61 x 47) cm
SRI20P-2	546 l	5	approx. 76 x 80 x 177 (65 x 61 x 138) cm

## Drosophila Incubators

### Features:

- Thermoelectric cooling technology eliminates the need for a refrigeration compressor and requires up to 70 % less power
- Day/night controls with LED lighting to provide an excellent environment for Drosophila culture
- Temperature range: 15 °C to 40 °C (at 20 °C ambient)
- Temperature uniformity:  $\pm 0.5$  °C at 20 °C
- Fan assisted/forced-air circulation
- Over temperature and door alarms
- 1 interior electrical outlet
- 1 access port



SRI6PF-2



SRI20PF-2

Cat. No.	Chamber capacity	Shelves	Dimensions exterior (chamber) w x d x h
SRI6PF-2	185 l	2	approx. 76 x 80 x 85 (65 x 61 x 47) cm
SRI20PF-2	546 l	5	approx. 76 x 80 x 177 (65 x 61 x 138) cm

# CO<sub>2</sub>-Incubators

## Water Jacketed

### Features:

- CO<sub>2</sub> range: 0 - 20 %, infrared CO<sub>2</sub> sensor
- CO<sub>2</sub> recovery rate: < 5 minutes
- Temperature range: ambient + 5 °C to 60 °C
- Relative humidity up to 95%
- Stainless steel interior and shelves, copper shelves on request
- Heated outer door, inner glass door
- Independent over temperature thermostat
- Over temperature and CO<sub>2</sub> alarm
- Data logging capabilities
- 1 access port
- Copper coated HEPA filter to reduce risk of contamination
- **Only SCO5W-2:** Humidity display



Cat. No.	Chamber capacity	Shelves	Dimensions exterior (chamber) w x d x h
SCO2W-2	42 l	3	approx. 53 x 57 x 69 (40 x 40 x 26) cm
SCO5W-2	143 l	3	approx. 66 x 55 x 102 (49 x 50 x 58) cm
SCO6WE-2	171 l	3	approx. 66 x 67 x 102 (51 x 50 x 64) cm
9751223	Stacking Rack for 2 incubators SCO5W-2/SCO6WE-2		

## Air Jacketed

### Features:

- CO<sub>2</sub> range: 0 - 20 %, infrared CO<sub>2</sub> sensor
- CO<sub>2</sub> recovery rate: < 5 minutes
- Relative humidity up to 95%
- Stainless steel interior/shelves, copper shelves on request
- Heated outer door, inner glass door
- Independent over temperature thermostat
- Over temperature and CO<sub>2</sub> alarm
- Data logging capabilities
- 1 access port
- **SCO5A-2 und SCO10A-2:**  
Temperature range: ambient + 5 °C to 60 °C  
Copper coated HEPA filter to reduce risk of contamination
- **SCO10A-2:** Incubator with 2 stacked separate chambers
- **SCO6AD-2:** Incubator with dry heat decontamination  
Temperature range: ambient + 5 °C to 50 °C  
Dry heat decontamination cycle (180 °C for 120 minutes)



Cat. No.	Chamber capacity	Shelves	Dimensions exterior (chamber) w x d x h
SCO5A-2	142 l	3	approx. 70 x 72 x 96 (52 x 50 x 55) cm
SCO10A-2	2 x 142 l	2 x 3	approx. 70 x 72 x 192 (52 x 50 x 55) cm
SCO6AD-2	167 l	3	approx. 73 x 78 x 100 (51 x 51 x 65) cm

# Shaking Incubators (with or without cooling option)

## Features:

- Orbital motion
- Stainless steel interior, digital display, viewing window in front door
- Alarm system for temperature, motion, and timer
- Automatic stop if door is opened during operation
- **Bench Top Model: SSI3-2**
  - Temperature range: ambient + 8 °C to 60 °C
  - Speed range: 30-400 rpm
  - Adjustable orbit: 12, 19, 25 mm
- **Floor Models: SSI5-2, SSI5R-2, SSI5R-HS-2**
  - **SSI5-2:** 30-400 rpm, ambient + 8 °C to 60 °C, orbit: 12, 19 or 25 mm
  - **SSI5R-2:** 30-400 rpm, 10 °C to 60 °C (refridgerated), orbit: 12, 19 or 25 mm
  - **SSI5R-HS-2:** 60-850 rpm (High Speed), 10 °C to 60 °C (refridgerated), fixed orbit 4,3 mm
  - 1 interior electrical outlet
  - 1 access port
- **Large Capacity Models: SSI10-2, SSI10R-2**
  - **SSI10-2:** 30-400 rpm, ambient + 8 °C to 60 °C, orbit: 12, 19 or 25 mm
  - **SSI10R-2:** 30-400 rpm, 10 °C to 60 °C (refridgerated), orbit: 12, 19 or 25 mm
  - Stackable, stand on request



SSI3-2



SSI5-2



SSI10-2

Cat. No.	Chamber capacity	Max. load	Shelves	Dimensions exterior (chamber) w x d x h
SSI3-2	93 l	8 kg	-	approx. 53 x 61 x 69 (48 x 51 x 45) cm
SSI5-2	156 l	10 kg	1	approx. 72 x 75 x 103 (48 x 52 x 57) cm
SSI5R-2	156 l	10 kg	1	approx. 72 x 75 x 103 (48 x 52 x 57) cm
SSI5R-HS-2	162 l	10 kg	1	approx. 72 x 75 x 103 (48 x 52 x 57) cm
SSI10-2	269 l	20 kg	-	approx. 140 x 90 x 90 (90 x 65 x 50) cm
SSI10R-2	269 l	20 kg	-	approx. 140 x 90 x 90 (90 x 65 x 50) cm

**Accessories:** All shaking incubators are supplied with an easy removable universal platform. The incubators can be used with the following accessories

Cat. No.	Description
9530528	Flask holder, for 25 ml flasks
9530529	Flask holder, for 50 ml flasks
9530530	Flask holder, for 125 ml flasks
9530531	Flask holder, for 250 ml flasks
9530526	Flask holder, for 500 ml flasks
9530532	Flask holder, for 1000 ml flasks
9530551	Flask holder, for 2000 ml flasks
9530553	Flask holder, for 2800 ml flasks, Fernbach style
9530554	Flask holder, for 4000 ml flasks, max. 300 rpm
9530530	Flask holder, for 5000 ml flasks, max. 300 rpm
9530555	Flask holder, for 6000 ml flasks, max. 300 rpm
9900687	Flask holder set, 10 x: 25/50 ml, 5 x: 125/250 ml, 2 x: 500 ml, 1 x: 1/2/4 l
9751177	Test tube shaking rack, capacity: 100 x 10 - 13 ml test tubes
9751178	Test tube shaking rack, capacity: 80 x 14 - 16 ml test tubes
9751179	Test tube shaking rack, capacity: 60 x 18 - 20 ml test tubes
9751180	Test tube shaking rack, capacity: 36 x 22 - 25 ml test tubes
9751181	Test tube shaking rack, capacity: 29 x 50 ml test tubes
9900556	Holder for microtiter plates (12 per platform), 2 per set
SI9-12STAND	Stand for SSI10-2 and SSI10R-2, height: 30,5 cm
SI9-24STAND	Stand for SSI10-2 and SSI10R-2, height: 61,0 cm
SI9-24CAB	Cabinet Stand for SSI10-2 and SSI10R-2, height: 61,0 cm

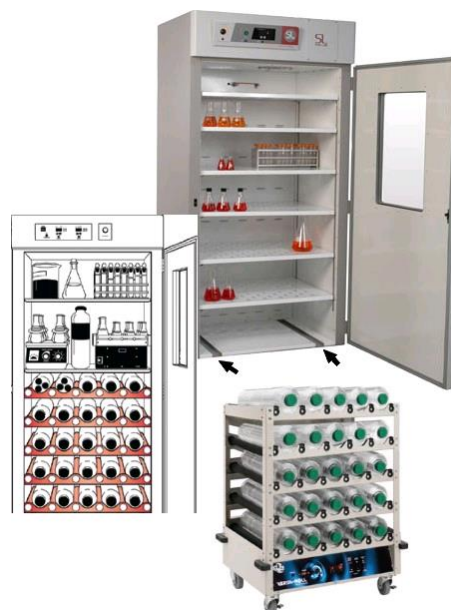
→ Information on further shaking incubators (e.g. mini shaking incubators) on request.



## Roll-In Large Capacity Incubators

### Features:

- Extra large tempered glass viewing window
- With guardrails for roller apparatus
- Stainless steel interior and shelves
- Air jacketed
- Over temperature alarm
- 1 interior electrical outlets
- 1 access port
- **Units with CO<sub>2</sub> feature: SCO31-2, SCO40-2, SCO58-2**
  - Temperature range: ambient + 8 °C to 60 °C
  - Temperature uniformity: ± 0.5 °C at 37 °C
  - Infrared CO<sub>2</sub> sensor
  - CO<sub>2</sub> range: 0 - 20 %
  - CO<sub>2</sub> recovery rate: < 5 minutes
- **Units without CO<sub>2</sub> feature: SMI31-2, SMI39-2**
  - Temperature range: ambient + 8 °C to 70 °C
  - Temperature uniformity: ± 0.8 °C at 37 °C



Cat. No.	Chamber capacity	Shelves	Dimensions exterior (chamber) w x d x h
SCO31-2	891 l	6	approx. 101 x 86 x 194 (83 x 66 x 160) cm
SCO40-2	1118 l	6	approx. 107 x 85 x 224 (88 x 65 x 193) cm
SCO58-2	1641 l	6	approx. 130 x 114 x 206 (109 x 87 x 171) cm
SMI31-2	872 l	6	approx. 97 x 83 x 186 (82 x 66 x 162) cm
SMI39-2	1092 l	6	approx. 106 x 84 x 229 (90 x 66 x 193) cm




**Wide range of roller apparatus from Bellco Glass and Chemglass Life Sciences**

**For information on our broad range of roller bottles and other cell culture consumables in glass and plastic please contact us!**

# Ovens

## Standard Ovens

### Features:

- **Forced air ovens: SMO1-2, SMO3-2 and SMO5-2**
  - Horizontal air flow
  - Temperature range: ambient + 20 °C to 306 °C
  - Independent over temperature safety feature
  - Digital timer
  - 1 access port
- **Large forced air ovens: SMO14-2 and SMO28-2**
  - Horizontal air flow
  - Temperature range: ambient + 15 °C to 260 °C
  - Independent over temperature safety feature
  - Digital timer
  - Adjustable exhaust port (Ø 7,6 cm)
- **Gravity convection ovens: SGO series**
  - Gravity convection air flow
  - For work with powders, granulated and light materials
  - Temperature range: ambient + 20 °C to 306 °C
  - Digital timer



SMO: Horizontal air flow



SGO: gravity convection air flow



SMO28-2

Cat. No.	Chamber capacity	Shelves	Dimensions exterior (chamber) w x d x h
SMO1-2	39 l	2	approx. 58 x 60 x 80 (31 x 35 x 37) cm
SMO3-2	85 l	2	approx. 69 x 73 x 87 (42 x 49 x 41) cm
SMO5-2	138 l	2	approx. 80 x 72 x 99 (53 x 49 x 52) cm
SMO14-2	388 l	3	approx. 96 x 86 x 122 (78 x 63 x 79) cm
SMO28-2	781 l	6	approx. 96 x 89 x 199 (78 x 64 x 157) cm
SGO1-2	39 l	2	approx. 58 x 60 x 80 (31 x 35 x 37) cm
SGO3-2	85 l	2	approx. 68 x 73 x 84 (42 x 49 x 41) cm
SGO5-2	138 l	2	approx. 80 x 72 x 99 (53 x 49 x 53) cm

## High Performance Ovens

### Features:

- **High performance forced air ovens:**
  - Engineered for continuous drying operations at temperatures up to 306 °C
  - Temperature ranges:
    - SMO5HP-2, SMO10HP-2, SMO28HP-2: ambient + 15 °C to 306 °C
    - SMO14HP-2, SMO38HP-2: ambient + 15 °C to 306 °C
  - Uniformity: ± 1,0 °C at 110°C
  - Horizontal air flow, heated air is continuously circulated
  - High temperature door seal gasket eliminates air leakage
  - Independent over temperature safety feature
  - Programmable Watlow controller
  - LED display
  - Three adjustable air intake and exhaust ports
  - SMO5HP-2, SMO10HP-2, SMO28HP-2: Data logging capabilities



SMO10HP-2



SMO28HP-2

Cat. No.	Chamber capacity	Shelves	Dimensions exterior (chamber) w x d x h
SMO5HP-2	139 l	2	approx. 89 x 78 x 96 ( 52 x 53 x 51) cm
SMO10HP-2	301 l	3	approx. 112 x 76 x 144 ( 76 x 52 x 76) cm
SMO14HP-2	392 l	6	approx. 150 x 74 x 145 (111 x 52 x 91) cm
SMO28HP-2	792 l	6	approx. 108 x 87 x 218 ( 80 x 66 x 154) cm
SMO38HP-2	1083 l	12	approx. 174 x 86 x 200 (122 x 64 x 137) cm

## Cleanroom Oven

### Features:

- Incorporates all features needed for high temperature cleanroom work
- Temperature range: 20 °C above ambient to 306 °C
- Rapid heat recovery: 6 minutes to reach 150 °C
- Horizontal air flow
- Stainless steel interior and exterior
- 2 adjustable perforated stainless steel shelves
- Programmable Watlow controller
- 3 adjustable air intake and exhaust ducts allow use of either room or circulated air, easily removed for cleaning
- Nitrogen inlet port
- High-temperature silicone door gasket
- HEPA filter (Class E11, 95 % retention)



SMO5CR-2

Cat. No.	Chamber capacity	Shelves	Dimensions exterior (chamber) w x h x d
SMO5CR-2	111 l	2	approx. 89 x 75 x 96 (43 x 51 x 51) cm
9000559	Stand for SMO5CR-2		

## Vacuum Ovens

### Features:

- Programmable Watlow-Controller
- Stainless steel interior
- RS485 communication port
- Shipped without vacuum pump
- End vacuum: 10 µmHg (10 mTorr, 0.0013 kPa, 0.0133 mbar)
- **Standard ovens: SVCA1-2, SVAC2-2, SVAC4-2**
  - Temperature range: ambient + 10 °C to 220 °C
  - Temperature adjustable by 0.1 °C
  - Different vacuum units available
  - Tempered glass viewing door
- **Large capacity oven: SVAC9-2**
  - Temperature range: ambient + 15 °C to 220 °C
  - Heat-up time 130 minutes to 150 °C
  - Stand with built-in vacuum pump mount
  - Stainless steel exterior option available for clean room applications (price on request)



SVAC4-2



SVAC air flow



SVA9-2

Cat. No.	Chamber capacity	Shelves	Dimensions exterior (chamber) w x d x h
SVAC1-2	16 l	3	approx. 45 x 58 x 60 (23 x 30 x 23) cm
SVAC2-2	47 l	3	approx. 52 x 75 x 67 (30 x 51 x 30) cm
SVAC4-2	127 l	3	approx. 67 x 88 x 82 (46 x 61 x 46) cm
SVAC9-2	264 l	3	approx. 97 x 119 x 162 (71 x 61 x 61) cm

Find out more about our range of anaerobic (BACTRON) and hypoxia (BACTROX) chambers on

[www.dunlab.de](http://www.dunlab.de)

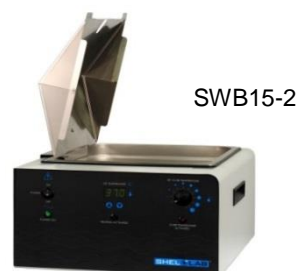


# Heating Baths

## Water Baths

### Features:

- Temperature: ambient + 5 °C to 80 °C, uniformity: ± 0.2 % at 37 °C
- Over temperature protection
- Recessed heating element prevents „burnout“
- Easy-to-clean stainless steel tank (SWBC22-2: polymer-coated)
- Digital display, front panel touch pad
- Supplied with stainless steel gable cover and thermometer clip
- **Digital single-tank units:** SWB7-2, SWB15-2 and SWB23-2
- **Circulating unit:** SWBC22-2



Cat. No.	Tank capacity	Tank dimensions w x d x h	Unit dimensions w x d x h
SWB7-2	6 l	approx. 30 x 17 x 15 cm	approx. 38 x 32 x 31 cm
SWB15-2	14 l	approx. 30 x 33 x 15 cm	approx. 38 x 48 x 31 cm
SWB23-2	23 l	approx. 29 x 50 x 15 cm	approx. 38 x 64 x 31 cm
SWBC22-2	22 l	approx. 30 x 50 x 15 cm	approx. 38 x 74 x 31 cm

\* Dimensions without cover, cover height: approx. 9 cm

## Shaking Water Baths

### Features:

- Temperature: ambient + 5 °C to 80 °C, uniformity: ± 0.2 % at 37 °C
- Smooth reciprocal shaking: 20 - 200 rpm, usable without shaking
- Adjustable stroke length: 12, 25, 38 mm
- Recessed heating element prevents „burnout“
- Independent oscillation and temperature controls
- Supplied with stainless steel gable cover, shaking platform and thermometer clip
- Flask holders available on request



Cat. No.	Tank capacity	Tank dimensions w x d x h	Unit dimensions w x d x h*
SWBR17-2	17 l	approx. 37 x 30 x 19 cm	approx. 63 x 37 x 39 cm
SWBR27-2	27 l	approx. 69 x 30 x 18 cm	approx. 94 x 37 x 39 cm

\* Dimensions without cover, cover height: approx. 14.5 cm

## LabArmor® Bead Baths

### Features:

- Waterless heating bath for less contamination
- LabArmor® beads formed from solid metal (also available separately)
- No need for racks, floats, bottle neck weights or germicides
- Temperature: ambient + 5 °C to 80 °C, uniformity: ± 1 °C at 37 °C
- Over temperature protection
- Supplied with stainless steel cover



Cat. No.	Tank capacity	LabArmor® beads incl.	Tank dimensions w x d x h [cm]	Unit dimensions w x d x h*
74220-706	6 l	5 l	approx. 30 x 15 x 15	approx. 40 x 31 x 22 cm
74220-714	14 l	12 l	approx. 30 x 30 x 15	approx. 40 x 47 x 22 cm
74220-720	20 l	15 l	approx. 30 x 43 x 15	approx. 40 x 59 x 22 cm

\* Dimensions without cover, cover height: approx. 7 cm

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