

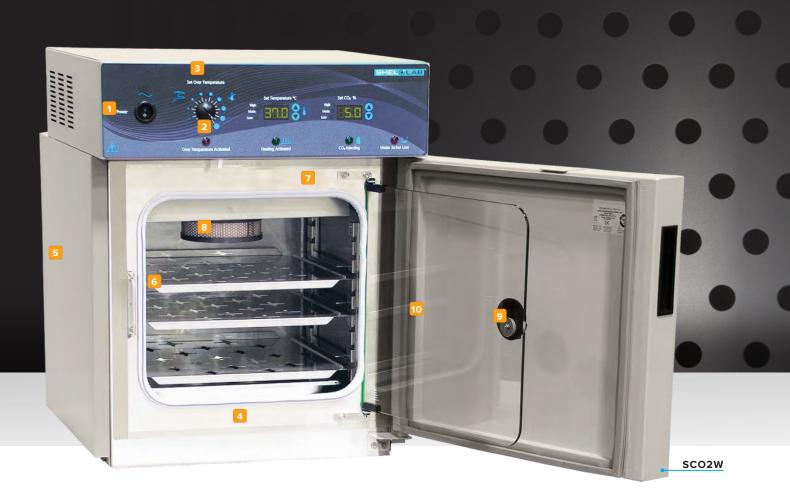


Ideal for Clinical, Analytical, and General Laboratory Applications

SCO water jacketed CO_2 incubators provide the uniform temperatures and highly stable CO_2 environments necessary to prevent shocks to cell samples.

Features and Benefits

Copper gas plumbing and a glass viewing door enhance the SCO water jacket CO_2 incubators with extensive protection against microbiological contamination.



- Infrared (IR) sensor for quick recovery of CO₂ levels after door openings.
- USB data logging capabilities.
- 1 Advanced PID temperature control system for sensitive response.
- Independent over temperature set point and operational control override for additional safety.
- Side-mounted access port, 1" diameter (2.85cm) for independent cables, sensors, and instrumentation.

- Stainless steel interior construction for long life operation, easy cleaning.
- Heated Copper CO₂ inlet to promote temperature uniformity and reduce the risks of contamination and condensation.
- 6 Autoclavable shelving system.
- Unique water jacketed design provides excellent temperature uniformity of +/-0.2°C at 37°C.
- Patented copper cage HEPA filter for reduced risk of contamination (Not included in the SCO6WE).

- Heated door to ensure superior temperature uniformity.
- Sealed inner glass door allows for viewing without disturbing the critical growth atmosphere and allows for improved gas utilization and condensate reduction.
- Safety certified CAN/CSA, UL, EN, IEC 61010, and compliant with CE.



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Contamination Control

Extensive use of copper in the $\rm CO_2$ sample port, humidity reservoir, heated $\rm CO_2$ feed line, and housing of the patented HEPA filtration system adds reassurance that foreign microbes will not affect test results. Cleanup is a breeze with the all stainless steel chamber, coved corners, and autoclavable door gasket. Optional copper shelves are available for even more contamination control.

Applications:

- Cell Culture
- Microbiology
- Plant Cell Culture
- Stem Cells
- Tissue Culture
- Food Analysis



Stacking Rack Option

The SCO5W and SCO6WE require stacking rack for stacking. Optional caster platform also allow for mobility, safety, and convenience.

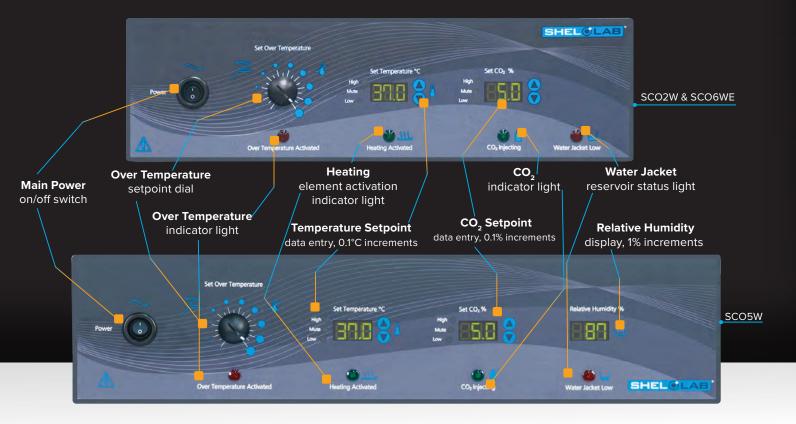


Control, Feedback, and Monitoring

The advanced PID (proportional, integral, derivative) controller commands proportional power to the heating elements and CO. injection frequency to provide the most accurate and responsive control. Each controller is matched to the incubator chamber volume to assure faster response to setpoint without overshoot, and quicker recovery following door openings. Indicator lights are included for visual status feedback on critical functions.

Integrated Control Panel

All controls are centrally located on the main panel including manual power, independent over temperature control, digital temperature/CO₂ adjustments, and indicator lights for all functions.



SCO CO, Incubators Water Jacketed Series Specification Chart

	SCO2W	SCO5W	SCO6WE	
Interior Volume, Nominal	1.5 cu.ft. (42 liters)	5.1 cu.ft. (144 liters)	5.9 cu.ft. (166 liters)	
Interior Dimensions W x D x H	15.7" x 15.7" x 10.2" 400 x 400 x 260 mm	19.3" x 19.8" x 23.0" 490 x 503 x 584 mm	20.3" x 19.8" x 25.3" 516 x 503 x 643 mm	
Exterior Dimensions W x D x H	21.0" x 22.5" x 27.0" 534 x 572 x 686 mm	26.0" x 25.5" x 40.3" 660 x 648 x 1022 mm	26.0" x 26.3" x 40.3" 661 x 668 x 1024 mm	
Interior Construction	300 series stainless steel	300 series stainless steel	300 series stainless steel	
Exterior Construction	20 gauge steel, powder coated	20 gauge steel, powder coated	20 gauge steel, powder coated	
Shelves (See Accessories)*	3 standard, 8 total	3 standard, 16 total	3 standard, 16 total	
Maximum Weight Per Shelf*	35 lb / 15.8 kg	35 lb / 15.8 kg	35 lb / 15.8 kg	
Permitted Total Load	100 lb / 45.3 kg	200 lb / 90.7 kg	200 lb / 90.7 kg	

^{*}Extra standard and copper shelves available. See Accessories.



SCO Water Jacketed Series CO₂ Incubators Selection Chart

sco)2W	sco)5W	sco	6WE
SCO2W	SCO2W-2	SCO5W	SC05W-2	SCO6WE	SCO6WE-2
110V-120V	220V-240V	110V-120V	220V-240V	110V-120V	220V-240V
5.0	3.5	5.0	3.5	5.0	3.5
340	300	420	400	420	400
15	15	15	15	15	15
NEMA5-15P	EU1-16P	NEMA5-15P	EU1-16P	NEMA5-15P	EU1-16P
1-20%	1-20%	1-20%	1-20%	1-20%	1-20%
< 5 min.	< 5 min.	< 5 min.	< 5 min.	< 5 min.	< 5 min.
Infrared	Infrared	Infrared	Infrared	Infrared	Infrared
✓	✓	✓	✓	✓	✓
-	-	✓	✓	-	-
± 0.2°C	± 0.2°C	± 0.2°C	± 0.2°C	± 0.2°C	± 0.2°C
8.0 min.	8.0 min.	5.0 min.	5.0 min.	4.0 min.	4.0 min.
	\$CO2W 110V-120V 5.0 340 15 NEMA5-15P 1-20% < 5 min. Infrared ✓ - ± 0.2°C	110V-120V 220V-240V 5.0 3.5 340 300 15 15 NEMA5-15P EU1-16P 1-20% 1-20% < 5 min. < 5 min. Infrared Infrared ✓ ✓ - ± 0.2°C ± 0.2°C	SCO2W SCO2W-2 SCO5W 110V-120V 220V-240V 110V-120V 5.0 3.5 5.0 340 300 420 15 15 15 NEMA5-15P EU1-16P NEMA5-15P 1-20% 1-20% 1-20% < 5 min.	SCO2W SCO2W-2 SCO5W SCO5W-2 110V-120V 220V-240V 110V-120V 220V-240V 5.0 3.5 5.0 3.5 340 300 420 400 15 15 15 15 NEMA5-15P EU1-16P NEMA5-15P EU1-16P 1-20% 1-20% 1-20% 1-20% < 5 min.	SCO2W SCO2W-2 SCO5W SCO5W-2 SCO6WE 110V-120V 220V-240V 110V-120V 220V-240V 110V-120V 5.0 3.5 5.0 3.5 5.0 340 300 420 400 420 15 15 15 15 15 NEMA5-15P EU1-16P NEMA5-15P EU1-16P NEMA5-15P 1-20% 1-20% 1-20% 1-20% 1-20% < 5 min.

^{*}To 98% of set value.



DIN 12880 Compliance

SCO Water Jacketed Series CO_2 Incubators are designed to meet or exceed the performance criteria established through DIN 12880:2007:05 and ASTM E1292-94 (Reapproved 2006.).

Note: DIN 12880 is an international standard for measuring the performance of electrical laboratory ovens and incubators based on Deutsches Institut Fur Normung E.V. (German National Standard), 05/01/2007.



Patented Copper Coated HEPA Filter

This specialized filter included in the SCO2W and SCO5W units features a "bacteriostatic" copper cage to trap particulate matter and reduce the potential for chamber contamination. This filter removes 99.97% of all airborne microbes

Site Preparation and Installation Guides

SCO2W	SCOSW	SCO6WE	
19" (483 mm)	24" (610 mm)	24" (610 mm)	
4.0" (100 mm)	4.0" (100 mm)	4.0" (100 mm)	
2.0" (50 mm)	2.0" (50 mm)	2.0" (50 mm)	
1.75" (45 mm)	1.75" (45 mm)	1.75" (45 mm)	
136 lb (61.7kg)	254 lb (115.2kg)	260 lb (117.9kg)	
179 lb (81.2kg)	299 lb (135.6kg)	305 lb (138.4kg)	
	2.0" (50 mm) 1.75" (45 mm) 136 lb (61.7kg)	19" (483 mm) 24" (610 mm) 4.0" (100 mm) 4.0" (100 mm) 2.0" (50 mm) 2.0" (50 mm) 1.75" (45 mm) 1.75" (45 mm) 136 lb (61.7kg) 254 lb (115.2kg)	

Options and Accessories

	SCO2W	SCO5W	SCO6WE	
CO ₂ Cylinder Regulator, Dual Stage	9740558	9740558	9740558	
4-20 mA outputs for CO ₂	915-950-0001	915-950-0001	915-950-0001	
Caster Platform	N/A	9000538	9000538	
Cooling Coils	N/A	915-980-0001	915-980-0001	
Tri-Glass Door	N/A	915-952-0003	915-952-0003	
Stacking Rack	N/A	9751223	9751223	
Copper Shelf Kit: Includes 3 Shelves; 6 Shelf Slides	9750584	9750582	9750582	
Extra Shelf, Copper, Max Weight 35 lbs (15.8kg)	5820506	5820504	5820504	
Extra Slide, Copper	5820507	5820505	5820505	
Extra Stainless Steel Shelf and Slide Kit, Max. Weight 35 lbs(15.8kg)	9751234	9751235	9751235	

Options must be specified when ordering. Contact SHEL LAB for additional information.



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• Specifications subject to change without notice. 2/19 Sheldon Manufacturing P/N 0740560





