

Ideal for Clinical, Analytical, and General Laboratory Applications

SCO air jacketed CO₂ incubators provides an optimized culturing environment with passive humidification, highly stable CO₂ levels, and tight temperature uniformity to safeguard your cell sample populations.

Features and Benefits

Copper gas plumbing, stainless steel interior, and a glass viewing door gives the SCO5A and SCO10A enhanced protection against microbiological contamination.



SCO5A

- 1 Advanced PID temperature control system for sensitive response.
- 2 Independent over temperature setpoint and operational control override for additional safety.
- 3 Side-mounted access port, 1.45" inner diameter (3.68cm) for independent cables, sensors, and instrumentation.
- 4 Stainless steel interior construction for long life operation, easy cleaning.
- 5 Heated Copper CO₂ inlet to promote temperature uniformity and reduce the risks of contamination and condensation.
- 6 Autoclavable shelving system.
- 7 Unique air jacketed design provides excellent temperature uniformity of +/-0.25°C at 37°C.
- 8 Patented copper cage HEPA filter for reduced risk of contamination.
- 9 Heated door to ensure superior temperature uniformity.
- 10 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.

 Made in the USA

Contamination Control

Extensive use of copper in the CO₂ sample port, humidity reservoir, heated CO₂ 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



SCO10A



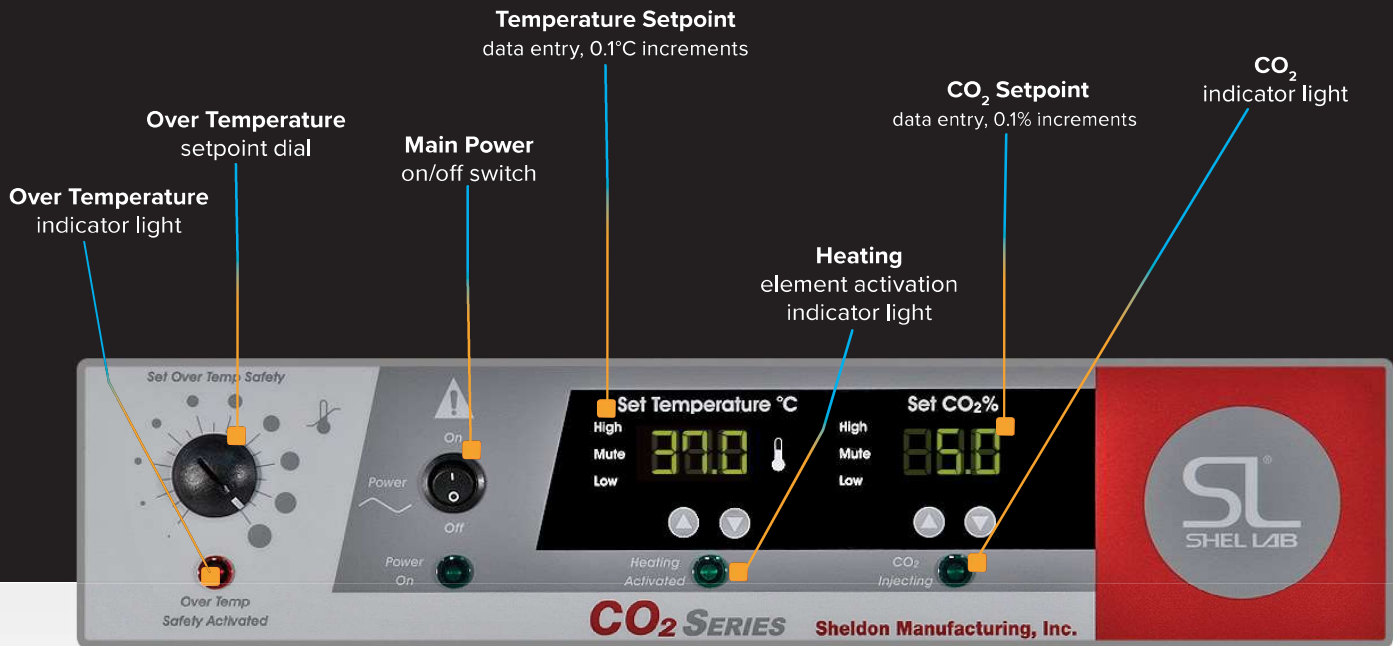
SCO5A

Control, Feedback, and Monitoring

The advanced PID (proportional, integral, derivative) controller commands proportional power to the heating elements and CO₂ 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 Air Jacketed CO₂ Incubators Specification Chart

	SCO5A	SCO10A
Interior Volume, Nominal	5 cu.ft. (142 liters)	10 cu.ft. (285 liters)
Interior Dimensions W x D x H	20.5" x 19.7" x 21.5" 52.1 x 50.0 x 54.6cm	20.5" x 19.7" x 21.5" 52.1 x 50.0 x 54.6cm
Exterior Dimensions W x D x H	27.3" x 28.5" x 37.8" 69.3 x 72.4 x 96.0cm	27.3" x 28.5" x 75.5" 69.3 x 72.4 x 191.7cm
Interior Construction	300 series stainless steel	300 series stainless steel
Exterior Construction	20 gauge steel, powder coated	20 gauge steel, powder coated
Shelves (See Accessories)*	3 standard, 8 total	6 standard, 16 total
Maximum Weight Per Shelf*	35 lbs/15.8kg	35 lbs/15.8kg per unit
Permitted Total Load	105 lbs/47.6kg	105 lbs /47.6kg per unit

*Extra standard and reinforced shelves available. See Accessories.



SCO Air Jacketed CO₂ Incubators Selection Chart

Order Model Number, Voltage Specific	SCO5A		SCO10A	
	SCO5A	SCO5A-2	SCO10A	SCO10A-2
Electrical, 50/60Hz, AC, 1Ø				
Voltage	110V-120V	220V-240V	110V-120V	220V-240V
Full Load Amps	6.0	3.0	12.0*	6.0*
Nominal Power (watts @37°C)	105	95	210	190
Recommended Breaker, Amps	15	16	15	16
Power Cord Supplied	NEMA5-15P	EU6-10P	NEMA5-15P	EU6-10P
CO ₂ Range	1-20%	1-20%	1-20%	1-20%
Recovery CO ₂ at 5%**	< 5 min.	< 5 min.	< 5 min.	< 5 min.
Sensor Type	Infrared	Infrared	Infrared	Infrared
Temperature Uniformity				
At 37°C	± 0.25°C	± 0.25°C	± 0.25°C	± 0.25°C
Temperature Recovery 37°C**				
Recovery to 37°C After 30 sec. Door Opening	2.0 min.	2.0 min.	2.0 min.	2.0 min.
Temperature Range				
Ambient to 5° to 60°C	✓	✓	✓	✓

*SCO10A: 6 amps per unit, 12 amps total. SCO10A-2: 3.0 amps per unit, 6 amps total.

**To 98% of set value.

DIN 12880 Compliance

SCO Air Jacketed CO₂ 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.