



**SCO6WE-2, Water Jacketed CO<sub>2</sub> Incubator**

**Ideal for Clinical, Analytical, & General Laboratory Applications:**

SCO water jacketed CO<sub>2</sub> incubators provide the uniform temperatures and highly stable CO<sub>2</sub> 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<sub>2</sub> incubators with extensive protection against microbiological contamination.

- + Infrared (IR) sensor for quick recovery of CO<sub>2</sub> levels after door openings. This sensor does not need to be removed during the high-heat decontamination cycle.
- + USB data logging capabilities.
- 1. Advanced PID temperature control system for sensitive response.
- 2. Independent over temperature set point & operational control override for additional safety.
- 3. Side-mounted access port, 1" inner diameter (2.85cm) for independent cables, sensors, and instrumentation.
- 4. Stainless steel interior construction for long life operation, easy cleaning.
- 5. Heated Copper CO<sub>2</sub> inlet to promote temperature uniformity and reduce the risks of contamination and condensation.
- 6. Autoclavable shelving system.
- 7. Unique water jacketed design provides excellent temperature uniformity of  $\pm 0.2^{\circ}\text{C}$  at  $37^{\circ}\text{C}$ .
- 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.

**Applications:**

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

**Contamination Control:**

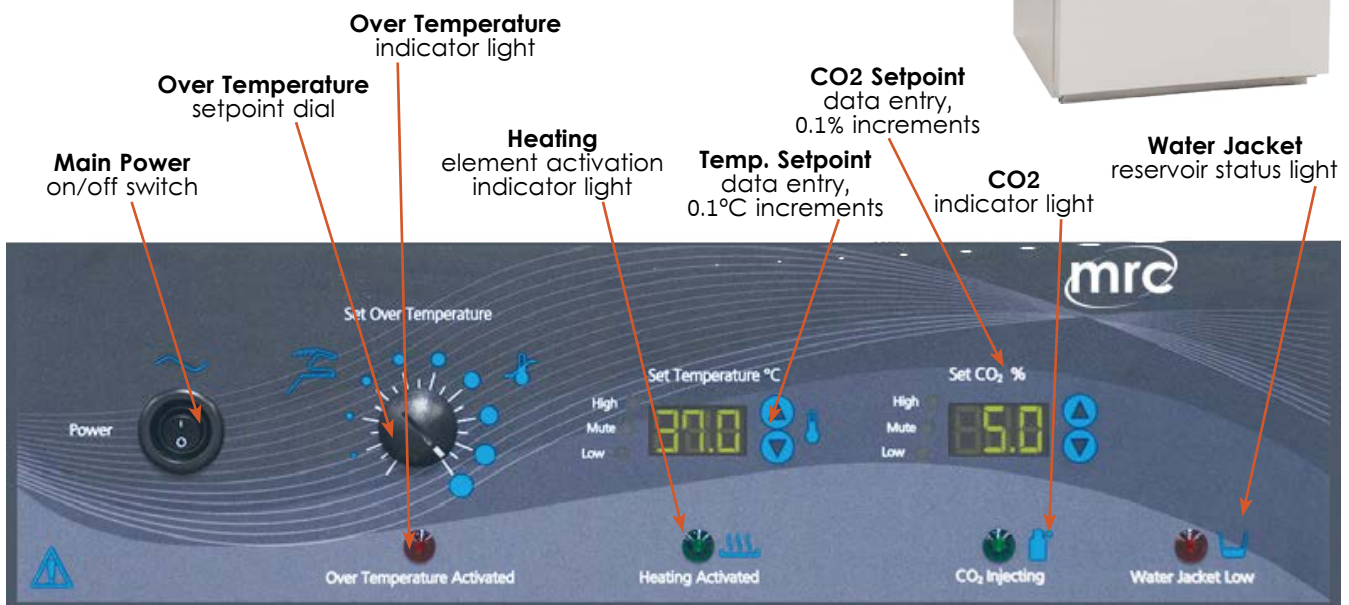
Extensive use of copper in the CO<sub>2</sub> sample port, humidity reservoir, heated CO<sub>2</sub> feed line, and housing of the patented HEPA filtration system adds reassurance that foreign microbes will not affect test results. Cleanup is a breeze with the all stainless steel chamber, coved corners, and autoclavable door gasket. Optional copper shelves are available for even more contamination control.

**Control, Feedback, and Monitoring:**

The advanced PID (proportional, integral, derivative) controller commands proportional power to the heating elements and CO<sub>2</sub> 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/CO<sub>2</sub> adjustments, and indicator lights for all functions.



Model	SCO6WE-2
<b>Unit Specification Chart</b>	
Interior Volume, Nominal	171 liters
Interior Dimensions (W x H x D)	51.3 x 50.0 x 60.0cm
Exterior Dimensions (W x H x D)	66.0 x 66.7 x 102.2cm
Interior Construction	300 series stainless steel
Exterior Construction	20 gauge steel, powder coated
Shelves (See Accessories)*	3 standard, 16 total
Maximum Weight Per Shelf*	15.8kg
Permitted Total Load	90.7kg
<b>Site Preparation and Installation Guides</b>	
Door Swing Clearance (Nominal)	61.0cm
Wall Clearance, Sides	10.0cm
Wall Clearance, Roof	5.0cm
Access Port (Inner Diameter)	4.45cm
Unit Weight Empty	117.9kg
Shipping Weight	138.4kg
<b>Electrical, 50/60Hz, AC, 1Ø</b>	
Voltage	220V-240V
Full Load Amps	3.5
Nominal Power (watts @37°C)	400
Recommended Breaker, Amps	15
Power Cord Supplied	EU1-16P
CO <sub>2</sub> Range	1-20%
Recovery CO <sub>2</sub> at 5%*	< 5min.
Sensor Type	Infrared
Humidity Range Passive (Ambient 95%)	+
<b>Temperature Uniformity</b>	
At 37°C	± 0.2°C
<b>Temperature Range Recovery 37°C**</b>	
Recovery to 37°C after 30 sec. Door Opening	4.0 min.

\*Extra standard and reinforced shelves available. See Accessories

\*\*To 98% of set value.

**Options and Accessories:**

• CO<sub>2</sub> Cylinder Regulator, Dual Stage • 4-20 mA outputs for CO<sub>2</sub> • Caster Platform • Cooling Coils • Tri-Glass Door • Stacking Rack • Copper Shelf Kit: Includes 3 Shelves; 6 Shelf Slides • Extra Shelf, Copper, Max Weight 35 lbs (15.8kg) • Extra Slide, Copper • Extra Stainless Steel Shelf and Slide Kit, Max. Weight 35 lbs(15.8kg) . Options must be specified when ordering. Contact SHEL LAB for additional information.