

2406-2/3503-2, Economy Water Jacketed

Ideal for Clinical, Analytical, and General Laboratory Applications

2406-2 water jacketed CO₂ incubators provide the uniform temperatures and highly stable CO₂ environments necessary to prevent shocks to cell samples.

Features and Benefits

Copper gas plumbing, a high-heat auto decontamination cycle, and a glass viewing door enhance the 2406-2 water jacket CO₂ incubators with extensive protection against microbiological contamination.



2406-2 require stacking rack for stacking. Optional caster platform also allow for mobility, safety, & convenience.



- + 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.
- 2. Independent over temperature set point and operational control override for additional safety.
- 3. Side-mounted access port, 1.75" diameter (4.45cm) 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 & 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°C .
- 8. Patented copper cage HEPA filter for reduced risk of contamination (Not included in the 2406-2).
- 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 condensation reduction.
- + Safety certified CAN/CSA, UL, EN, IEC 61010, and compliant with CE.

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, & 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.

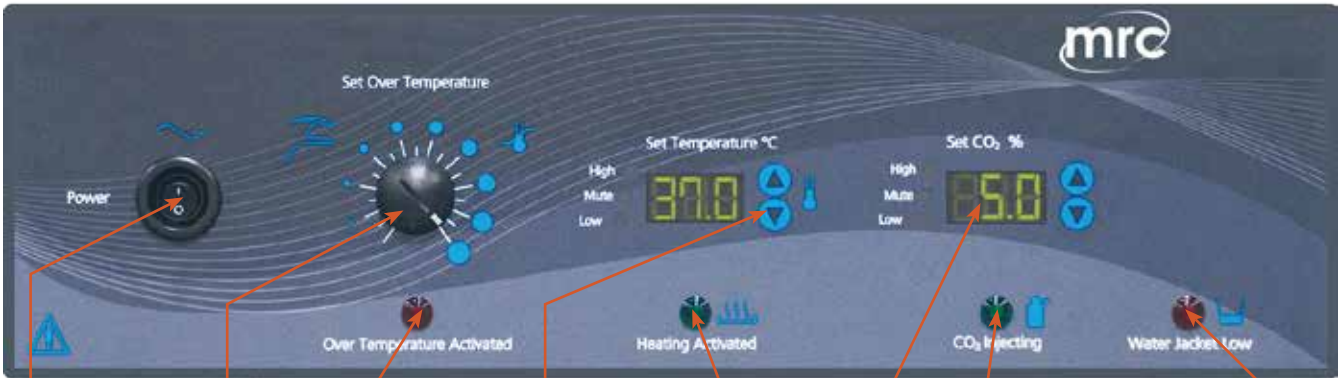
Control, Feedback, & Monitoring

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, & 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.

CO2 INCUBATORS Water Jacket



- Main Power** on/off switch
- Over Temperature** setpoint dial
- Over Temperature** indicator light
- Temperature Setpoint** data entry, 0.1°C increments
- Heating** element activation indicator light
- CO2 Setpoint** data entry, 0.1% increments
- CO2** indicator light
- Water Jacket** reservoir status light

CO2 Incubators Water Jacketed Specification Chart:

Model	3503-2	2406-2
Interior Volume, Nominal	42 liters	171 liters
Interior Dimensions (W x H x D)	400x260x400mm	513x500x600mm
Exterior Dimensions (W x H x D)	534x686x572mm	660x1022x667mm
Interior Construction	300 series stainless steel	
Exterior Construction	20 gauge steel, powder coated	
Shelves (See Accessories)*	3 standard, 8 total	3 standard, 16 total
Maximum Weight Per Shelf*	15.8kg	
Permitted Total Load	45.3kg	90.7kg

*Extra standard and copper shelves available. See Accessories.



3503-2

2406-2



Patented Copper Coated HEPA Filter
This specialized filter included in the 3503-2 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

CO2 Water Jacketed CO2 Incubators Selection Chart:

Model	3503-2	2406-2
Electrical, 60/50Hz, AC, 1Ø		
Voltage	220V-240V	
Full Load Amps	3.5	
Nominal Power (watts @°37C)	300	400
Recommended Breaker, Amps	15	
Plug Supplied	EU1-16P	
CO2 Range	1-20%	
Recovery CO2 at 5%*	< 5 min.	
Sensor Type	Infrared	
Humidity Range Passive (Ambient 95%)	✓	✓
Temperature Uniformity		
At 37°C	± 0.2°C	
Temperature Range Recovery 37°C*		
Recovery to 37°C after 30 sec. Door Opening	8.0 min.	4.0 min.

* To %98 of set value.

Site Preparation and Installation Guides:

Model	3503-2	2406-2
Door Swing Clearance (Nominal)	483mm	610mm
Wall Clearance, Sides	100mm	
Wall Clearance, Roof	50mm	
Access Port (Inner Diameter)	44.5mm	
Unit Weight Empty	61.7kg	117.9kg
Shipping Weight	81.2kg	138.4kg