

# SPECIFICATIONS

Name	CO <sub>2</sub> Incubator	
Models	MCO-19AIC	MCO-19AIC(UV)
External dimensions	620 x 710 x 900 mm (W x D x H)	
Internal dimensions	490 x 523x 665 mm (W x D x H)	
Interior volume	170 L	
Exterior	Painted steel	
Interior	Stainless steel containing copper	
Outer door	Painted steel	
Inner door	Tempered glass	
Trays	4 trays made of stainless steel containing copper 450 x 450 x 12 mm (W x D x H), Maximum load: 7 kg/tray	
Access port	Inner diameter: 30 mm, On the back side	
Insulation	Rigid polyurethane foamed-in place	
Heating system	DHA system (heater jacket + air jacket system)	
Heater	314 W	
Humidifying system	Natural evaporation with humidifying pan	
Temperature controller	PID control system	
Temperature display	Digital display	
CO <sub>2</sub> controller	PID control system	
CO <sub>2</sub> density display	Digital display	
Air circulation	Fan assisted	
Air filter	0.3 μm, Efficiency: 99.97% or higher	
UV lamp	-----	4W X 1 (ozone-free emission)
Water level sensor	Optical	
Alarms	Automatic set temperature alarm, Automatic set CO <sub>2</sub> density alarm, Upper limit temperature alarm, Door alarm, Low humidifying water alarm, UV lamp failure alarm (for UV equipped model only)	
Remote alarm contacts	Allowable contact capacity: 30 VDC, 2 A	
CO <sub>2</sub> inlet connection	4 to 6 mm diameter tube	
CO <sub>2</sub> inlet pressure	0.03 MPaG (0.3 kgf/cm <sup>2</sup> G, 4.3 psiG)	
Accessories	4 trays, 4 sets of tray supports, 1 gas tube, 1 humidifying pan, stacking plates A and B, 4 protective stickers, 2 tube bands	
Weight	93 kg	
Optional accessories	UV Lamp Add-on Kit (MCO-19UVS)	Standard equipment
	H <sub>2</sub> O <sub>2</sub> Generator (MCO-HP), H <sub>2</sub> O <sub>2</sub> Decontamination Kit (MCO-HL), H <sub>2</sub> O <sub>2</sub> Decontamination Reagent (MCO-H2O2), Automatic CO <sub>2</sub> Standard Gas Calibration Kit (MCO-SG), Gas Pressure Regulator (MCO-100L), Extra Trays (MCO-47ST, includes 2 tray supports), Half Trays (MCO-25ST), Automatic CO <sub>2</sub> Cylinder Changeover System (MCO-21GC), Roller Base (MCO-18RB), Communications Terminal (MTR-480/MTR-L03)	

**Note:** Designs and specifications are subject to change without notice.

The ballast is not user replaceable. Please contact qualified service personnel.

# PERFORMANCE

Temperature control range	Ambient temperature+5 to 50°C (ambient temperature: 5 to 35°C)	
Temperature distribution	± 0.25°C* (ambient temperature: 25°C, setting: 37°C, CO <sub>2</sub> : 5%, no load)	
Temperature variation	± 0.1°C (ambient temperature: 25°C, setting: 37°C, CO <sub>2</sub> : 5%, no load)	
CO <sub>2</sub> control range	0 to 20%	
CO <sub>2</sub> variation	± 0.15% (ambient temperature: 25°C, setting: 37°C, CO <sub>2</sub> : 5%, no load)	
Chamber humidity	95% ± 5%	
Maximum heat emission	1,120 kJ/h	
Applicable environment condition	Temperature: 5 to 35°C, Humidity: 80% max. (The designed performance may not be obtained if the ambient temperature is equal or less than 15°C)	
Noise level	30 dB (A scale)	
Maximum power consumption	350 W	310 W
Total maximum current	110 to 120 V, 60 Hz	220 to 240 V, 50 Hz
	2.8 A	1.4 A

**Note:** The unit with CE mark complies with EC directives.

\* Based on our measuring method.