

SPECIFICATIONS

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|----------------------------------|---|---------------|--------------|--------------|
| Product name | CO ₂ Incubator MCO-20AIC | | | |
| Model No. | MCO-20AIC-PA | MCO-20AIC-PT | MCO-20AIC-PK | MCO-20AIC-PE |
| External dimensions | W770 mm x D708 mm x H900 mm (W30.3 inch x D27.9 inch x H35.4 inch) | | | |
| Internal dimensions | W620 mm x D523 mm x H665 mm (W24.4 inch x D20.6 inch x H26.2 inch) | | | |
| Interior volume | 215 L (7.59 cu.ft.) | | | |
| Exterior | Polyester finish baked on zinc galvanized steel | | | |
| Interior | Stainless steel containing copper | | | |
| Outer door | PMMA/PVC | Painted steel | | |
| Inner door | Tempered glass | | | |
| Trays | 5 trays made of stainless steel containing copper W580 mm x D450 mm x H12 mm (W22.8 inch x D17.7 inch x H0.47 inch) Maximum load: 5 kg/tray | | | |
| Access port | Inner diameter: 30 mm (1.18 inch), On the back side | | | |
| Insulation | Rigid polyurethane foamed-in place | | | |
| Heating system | DHA system (heater jacket + air jacket system) | | | |
| Heater | 395 W | | | |
| Humidifying system | Natural evaporation with humidifying pan | | | |
| Temperature controller | PID control system | | | |
| Temperature display | Digital display | | | |
| CO ₂ controller | ON-OFF control system | | | |
| CO ₂ density display | Digital display | | | |
| Air circulation | Fan assisted | | | |
| Air filter | 0.3 μm, Efficiency: 99.97 % or higher | | | |
| UV lamp | 4 W, Ozone-free emission, Luminescence wavelength; 254 nm (GL4) | | | |
| Water level sensor | Optical | | | |
| Alarms | Automatic set temperature alarm, Automatic set CO ₂ density alarm High limit temperature alarm, CO ₂ gas, various sensor/heater alarms | | | |
| Remote alarm contacts | Allowable contact capacity: DC 30 V, 2 A | | | |
| CO ₂ inlet connection | 4 mm to 6 mm (0.157 inch to 0.236 inch) diameter tube can be connected | | | |
| CO ₂ inlet pressure | 0.03 MPa(G) (0.3 kgf/cm ² (G), 4.3 psi(G)) | | | |
| Weight | 106 kg | | | |
| Accessories | 5 trays, 5 sets of tray supports, 1 gas tube, 1 humidifying pan, 1 pair of stacking plates A and B, 2 protective stickers, 2 tube bands | | | |
| Optional accessories | Gas regulator (MCO-100L), Gas auto changer (MCO-21GC), Tray (MCO-58ST, includes 2 tray supports), Small door (MCO-20ID) UV replacement kit (MCO-20UV), Roller base (MCO-20RB), Stacking plate (MCO-20SB, for stacking MCO-17AIC/17AC/15AC on MCO-20AIC) Interface board (MTR-L03), Interface board (MTR-480) Data acquisition system (MTR-5000), Interface board (MCO-420MA, USA only) | | | |

Note: Refer to the updated catalog when ordering an optional component.

Designs and specifications are subject to change without notice.

PERFORMANCE

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|----------------------------------|---|--------------|-------------------------|--------------|
| Product name | CO ₂ Incubator MCO-20AIC | | | |
| Model No. | MCO-20AIC-PA | MCO-20AIC-PT | MCO-20AIC-PK | MCO-20AIC-PE |
| Temperature control range | Ambient temperature+5 °C to 50 °C (ambient temperature: 5 °C to 35 °C) | | | |
| Temperature distribution | ±0.25 °C (ambient temperature: 25 °C, setting: 37 °C, CO ₂ : 5 %, no load) | | | |
| Temperature variation | ±0.1 °C (ambient temperature: 25 °C, setting: 37 °C, CO ₂ : 5 %, no load) | | | |
| CO ₂ control range | 0 % to 20 % | | | |
| CO ₂ variation | ±0.15 % (ambient temperature: 25 °C, setting: 37 °C, CO ₂ : 5 %, no load) | | | |
| Chamber humidity | 95 %R.H. ±5 %R.H. | | | |
| Applicable environment condition | Temperature: 5 °C to 35 °C, Humidity: 80 %R.H. 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) | | | |
| Power consumption | Max. 380 W | | | |
| Heat emission | Max. 1,370 kJ/h | | | |
| Rated voltage, frequency | 110 V to 120 V, 60 Hz | 220 V, 60 Hz | 220 V to 240 V 50 Hz | |
| Amperage | Max. 3.7 A | Max. 1.9 A | Max. 1.9 A | |

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

Based on our measuring method.