

Water Jacketed CO₂ Incubator FM- CIW-A100



Description :

Water Jacketed CO₂ Incubator FM-CIW-A100 is a microprocessor PID controlled system, which ensures optimum environment for cell and tissue culture growth. Features 80 L internal chamber volume capacity, HEPA filters for sterilization, infrared sensor to control CO₂ concentration etc. to gain precise control over several parameters. It offers reliable in-vitro growth environment and thwarts heat loss by surrounding unit with triple walled construction and temperature-conditioned water jacket.

Specifications :

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| Capacity | 80 L |
| Heating | Water jacket |
| Temperature range | RT +5 to 60°C |
| Control type | PID control |
| Temperature fluctuation | ≤ ± 0.2°C (at 37°C) |
| Temperature uniformity | ≤ ± 0.3°C (at 37°C) |
| Time setting | 999 h or continuous |
| Alarm system | Over-temperature alarm; CO ₂ Concentration alarm; Temperature sensor error alarm; Water-shortage alarm. |
| Interior material | Stainless steel |
| Exterior material | Cold-rolled steel with painting |
| Door type | Double door |
| Insulation Material | Polystyrene film |
| CO ₂ control sensor | Infrared sensor |

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| CO ₂ measuring range | 0 to 20 % |
| CO ₂ concentration control accuracy | CO ₂ concentration control error 5% ± 0.1 % |
| Humidification type | Water tank for natural evaporation |
| Sterilization type | HEPA Filter |
| Shelves | 2 pcs/ adjustable |
| Caster type | Foot master caster |
| Interface | USB port |
| Power supply | 220 V±10%□50/60 Hz |
| Maximum power consumption | 875 W |
| Internal dimension (W×D×H) | 380×450×590 mm |
| External dimension (W×D×H) | 648×553×1057 mm |
| Packaging dimension (W×D×H) | 795×835×1255 mm |
| Gross Weight | 158 kg |

Features :

- Water jacket type for temperature stability and security
- Microprocessor PID controller system
- LCD touch screen displays: Temperature, CO₂ concentration, and run-time
- Working inner chamber capacity: 80 L
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- Infrared (IR) sensor uses split-beam technology for CO₂ control in fluctuating temperature and humidity conditions
- Rapid humidity recovery using a large directly heated water reservoir
- Excellent quality gas circuit valve for stable C₂ concentration and less consumption of CO₂
- Timer alarm, over temperature and current protection system for user safety
- Water level and over temperature alarm with audible and visual alert
- Tightly sealed inner door made of tempered safety glass
- Working chamber adopts round angle structure, easy to clean
- Built-in stainless steel body and powder coated steel plate

Applications:

It is an ideal choice for laboratories concerned with temperature fluctuations from power outages or significant ambient temperature fluctuations. Water jacketed CO₂ incubators are widely used for a broad range of applications that includes tissue engineering, In-vitro fertilization, neuroscience, cancer research, stem cell research, regenerative medicine and mammalian cell research.



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