

CO₂ INCUBATOR WATER JACKETED



CO2 INCUBATOR WATER JACKETED

Water jacketed CO2 incubators are ideal for cell culture applications. These are designed to provide uniform temperatures and highly stable CO2 environments that are necessary to prevent shocks to cells. Precisely controlled, accurate, pure environment throughout the culturing process is maintained. High precise gas sensor is applied with automatic start function. These incubators are an ideal solution for labs involved with potential power disruption or significant ambient temperature fluctuations affecting the integrity of their cultures.

Used in Cell Culturing, Tissue culturing, Tissue Engineering, Vitro fertilization, Mammalian cell research, Oncology studies..

Also known as Laboratory CO2 Incubator Water Jacketed, Water Jacketed CO2 Incubator.

IO21 SERIES WATER JACKETED CO2 INCUBATOR



IO211, IO212

FEATURES

| | IO211 | IO212 |
|---|-------|-------|
| High precise gas sensor is applied with automatic start function | • | • |
| HEPA filter, 0.3um, Efficiency:99.998% | • | • |
| RS232 interface | • | • |
| Internal glass door | • | • |
| Advanced fuzzy logistic PID control and menu operating interface | • | • |
| Full arc internal structure is treated with electrolytic polishing | • | • |
| Pressure compensation hole | • | • |
| Water reservoir volume: 3L | • | • |
| Alarms: Intelligent alarm, temperature deviation alarm and CO2 density deviation alarm functions etc. | • | • |
| Over temperature protection system | • | • |

SPECIFICATIONS

| Model | IO211 | IO212 |
|----------------------------|---------------------|-------|
| Capacity | 185 L | |
| Temperature Range | RT +5~55°C | |
| Temperature Accuracy | ±0.1°C | |
| Temperature Control Alarm | ≥±0.1°C(adjustable) | - |
| CO2 Range | 0-20% | |
| CO2 Accuracy | 5%±0.1% | |
| CO2 Sensor | TCD | IR |
| CO2 Alarm | ≥±0.1% (adjustable) | |
| CO2 Recovery Time | About 1%/min | |
| CO2 Filter Efficiency | 99.998% | |
| Relative Humidity | 95±3% | |
| Jacket Type | Water Jacketed | |
| Temperature Sensors | PT1000 | |
| Internal Dimention (WxDxH) | 540x505x680 mm | |
| Overall Dimension (WxDxH) | 660x630x1105 mm | |
| Shelves/Trays | 4 | |
| Power Supply | 220 V 50 Hz/60 Hz | |

IO22 SERIES CO2 INCUBATOR WATER JACKETED



IO221, IO222

FEATURES

| | IO221 | IO222 |
|---|-------|-------|
| Microprocessor temperature and CO2 controller | • | • |
| Water reservoir volume: 3L | • | • |
| Alarms: Power interruption, High/Low temperature, CO2 deviation, low RH programmable alarm, Door ajar, Independent over heat protection | • | • |
| RS232 interface | • | • |
| Type 304 Stainless steel shelves | • | • |

SPECIFICATIONS

| Model | IO221 | IO222 |
|----------------------------|--|------------------------------------|
| Name | Water Jacketed CO2 Incubator (IR) | Water Jacketed CO2 Incubator (TCD) |
| Capacity | 185 L | |
| Water Jacket Volume | 43.5 L | |
| Temperature Range | 5°C above ambient temperature to 55°C | |
| Temperature Stability | ±0.1°C | |
| Temperature Uniformity | ±0.2°C | |
| CO2 Range | 0-20% | |
| CO2 Stability | ±0.1% | |
| CO2 Sensor | IR | TCD |
| CO2 Inlet Pressure | 0.1 Mpa | |
| Filter | 0.3 um, Efficiency:99.998% (for CO2) | |
| Relative Humidity | ≥ 95% | |
| Jacket Type | Water Jacketed | |
| Inner Door | one inner door standard | |
| Interior | Type 304, mirror finish, stainless steel | |
| Exterior | Cold-rolled steel, powder coated | |
| Temperature Sensors | PT1000 | |
| Internal Dimention (WxDxH) | 544x504x681 mm | |
| Overall Dimension (WxDxH) | 655x656x1030 mm | |
| Shelves/Trays | 3 standard, 11 maximum | |
| Weight | 110 kg | |
| Power | 430 W | |
| Power Supply | 220 V/50 Hz (standard), 110 V/60 Hz (Optional) | |

ACCESSORIES

| Accessory Code | Name | Units |
|----------------|----------------------|--------|
| IX1007 | Standard shelf | 3 Sets |
| IX1008 | Electric siphon pump | 1 Set |
| IX1032 | Water tray | 1 Set |

OPTIONAL ACCESSORIES

| Accessory Code | Name | Description | Dimension |
|----------------|--|-------------------------------------|-----------|
| IX1011 | Small CO2 inlet filter | | |
| IX1015 | CO2 steel cylinder auto-switch device | | |
| IX1016 | CO2 regulator | | |
| IX1017 | 4 in 1 CO2 steel cylinder auto-switch device | | |
| IX1018 | Air connector | | |
| IX1033 | Shelf | Including :shelfx1, shelf supportx2 | |

| | | | |
|--------|--------------------------------------|----------------------------|----------|
| IX1034 | Plastic filler | | |
| IX1035 | Stainless steel plate | | 1/2x2.5" |
| IX1036 | HEPA filter | | |
| IX1037 | Floor stand for 1 incubator | High 600 mm with castor | |
| IX1038 | Floor stand for 2 stacked incubators | High 200 mm without castor | |

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