

refrigerated incubator for cultivation and breeding

Refrigeration incubator is a kind of experimental equipment integrating cold and hot thermostatic control, widely used in cell culture, mold culture, microbial culture, plant cultivation, breeding and other scientific research and industrial fields.

Refrigeration Incubator

Refrigeration incubator has a wide range of applications in the medical, drug testing, health and epidemic prevention and environmental protection industries.

Main Features of the Refrigeration Incubator

1. **High-quality liner and shell:** the studio is made of 304 stainless steel, with excellent corrosion resistance, the four corners of the arc design makes it more convenient to clean. shell is made of high-quality cold-rolled steel and electrostatic spraying treatment on the surface, corrosion-resistant and beautiful.
2. **Double-door design:** the inner door is made of high-strength tempered glass, which can clearly observe the internal experimental situation and will not affect the internal temperature, with excellent heat preservation performance.



3. **Air duct design:** to ensure uniform distribution of temperature inside the studio, to avoid the impact of temperature difference on the experimental results.
4. **Efficient control system:** equipped with intelligent operating system and fuzzy PID control technology, stable temperature control and high precision. Real-time display of temperature, time and historical data through the LCD touch screen, easy to operate.
5. **Data storage and management function:** large-capacity memory can store 250,000 data records and 16,000 event records, you can view the operating status of the equipment and alarm log at any time. At the same time, support through the U disk export data files.
6. **Safety protection function:** with temperature and other multiple protection measures, including the upper limit temperature, sensor failure alarm, compressor overload protection, etc., to ensure the safety of equipment and experiments.
7. **Built-in high brightness LED lighting,** box side with 50mm test holes, convenient for data verification.
8. **Convection type:** with fan forced air convection.

Advantages of Refrigeration Incubator

1. **Precise temperature control system:** through the fuzzy PID intelligent control, the equipment can realize precise temperature regulation, avoid overshooting phenomenon, to ensure the stability of the experimental environment, suitable for biological experiments that require high temperature control precision.
2. **Energy saving and environmental protection:** the use of frequency conversion refrigeration system to ensure that the temperature fluctuation is small, open the door to recover quickly, and at the same time, the use of environmentally friendly non-fluorine refrigerant and the international well-known brands of compressors, effectively reducing energy consumption.
3. **Flexible operation and management:** support for Chinese and English menu switching, and the equipment supports user rights hierarchical management, the administrator can create up to 5 sub-users, flexible allocation of operating privileges, suitable for different experimental needs.
4. **Remote monitoring and alarm function:** optional intelligent Internet of things module, you can through the WeChat applet to achieve remote monitoring, alarm push and historical data query, to further enhance the equipment's intelligent management capabilities.
5. **Perfect safety protection design:** multiple alarms and protection functions, such as over-temperature protection, sensor failure alarm, compressor overload protection, etc., to ensure that the equipment in a variety of environmental conditions can operate normally.

Working Principle

Refrigeration incubator continuously monitors the environmental parameters through the built-in high-precision temperature sensor, and the intelligent system adopts the fuzzy PID control technology to finely regulate the heating and cooling process. The frequency conversion refrigeration system ensures small temperature fluctuation and quick response to open door recovery. Through the precision control system, the equipment can automatically adjust the internal environment according to the experimental demand, to ensure that the temperature of the experimental environment is constant.

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Model	RB10-160	RB10-250	RB10-350	RB10-510
Volume	160L	250L	350L	510L
Convection type	with fan forced air convection			
Heating Method	Electric Heating Wire 3D Heating			
Cooling method	Variable frequency compressor cooling			
Temperature control method	PID			
Temperature Control Range	-5°C to 70°C, -20°C to 100°C customizable			

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Model	RB10-160	RB10-250	RB10-350	RB10-510
Temperature Resolution	0.1°C			
Temperature Accuracy	±0.3°C			
Temperature Uniformity	±0.8°C			
Number of Shelves	Standard with 3 layers, expandable			
Operating Time	1 to 9999 minutes or continuous			
Internal Dimensions	505x420x785mm	565x485x920mm	615x585x980mm	715x665x1070mm
External Dimensions	640x745x1470mm	700x810x1600mm	750x910x1660mm	850x990x1810mm
Power	1150W	1380W	1850W	2150W
Power supply	220Vac, 50Hz, 60Hz			