

heating incubator with forced convection for biochemistry

Heating incubator is widely used in health care, pharmaceutical industry, biochemical research, agricultural science and many other scientific research and industrial production fields, mainly used for bacterial culture, fermentation process and other experimental operations under constant temperature environment.

Heating Incubator

The main features of the heating incubator:

1. double-door structure: equipped with internal and external double-door design, the inner door is made of high-quality heat preservation tempered glass, which is easy to observe the internal environmental changes, does not affect the stability of the temperature inside the box, and enhances the efficiency of the experiment.
2. double temperature insurance device: built-in automatic tracking and over-temperature alarm system, once the temperature exceeds the set range, the system will automatically cut off the heating device and alarm. and there is a temperature insurance device in the working chamber to ensure the safety of the samples.



3. intelligent temperature control system: the use of microcomputer intelligent temperature control instrumentation, through the PID control algorithm to achieve accurate temperature control, with self-tuning function. LED digital display can clearly present the temperature changes, the user can adjust according to the needs of users to ensure that there is no temperature overshoot phenomenon. This system can also automatically memorize the setting state before power failure.
4. corrosion-resistant liner: work chamber liner using high-quality mirror stainless steel materials, rounded corners make cleaning more convenient, and has excellent characteristics of corrosion resistance, acid resistance, etc., suitable for long time use.
5. flexible shelf design: the height of the shelves in the working chamber can be freely adjusted according to the experimental needs, to meet the needs of different experiments.
6. temperature range: room temperature +5 °C to 65 °C, to meet the common laboratory needs, suitable for a variety of microorganisms and cell culture process.
7. Convection type: with fan forced air convection.

Advantages

1. high precision temperature control: using advanced PID control technology, it can accurately adjust and maintain the set temperature to ensure the stability of the temperature during the experiment.
2. safety and security: dual temperature control system to ensure that the sample is automatically protected under abnormal conditions, to avoid experimental failure and sample damage.

3. Energy-saving and high-efficiency: The intelligent heating adjustment of the microcomputer control system can effectively avoid energy waste, and can automatically restore the settings before the power failure, to improve the convenience of operation.
4. easy to clean: the inner liner is made of stainless steel, easy to clean, reduce the risk of bacterial growth and cross-contamination, suitable for the high hygiene requirements of the experimental environment.

Working Principle

The working principle of the heated incubator is based on the intelligent adjustment of the heating system through the microcomputer temperature control instrument table, using the built-in heating device to raise the studio temperature to the set value. Through the PID control algorithm, not only can accurately adjust the heating power, but also real-time monitoring and adjusting the temperature to maintain a constant temperature-controlled environment. Double doors and insulation design effectively isolate the external temperature fluctuations and ensure the stability of the internal temperature.

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Model	HB10-50	HB10-80	HB10-160	HB10-270
Volume	50L	80L	160L	270L
Convection type	with fan forced air convection			
Heating Method	Electric Heating Wire 3D Heating			
Temperature control method	PID			
Temperature Control Range	ambient+5°C to 65°C			
Temperature Resolution	0.1°C			
Temperature Accuracy	±0.2°C			
Temperature Uniformity	±0.5°C			
Number of Shelves	2			
Operating Time	1 to 9999 minutes or continuous			
Internal Dimensions	350x350x410mm	400x400x500mm	500x500x650mm	600x600x750mm

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Model	HB10-50	HB10-80	HB10-160	HB10-270
External Dimensions	515x515x700mm	550x570x790mm	650x670x936mm	765x770x1036mm
Power	200W	200W	440W	440W
Power supply	220Vac, 50Hz			