

## HIB Series Heated Incubator

RT+5~65°C | 16L - 1000L

LAB1ST HIB Series Heated Incubator is designed for reliable and precise temperature-controlled incubation in laboratory environments. Built with a focus on user-friendly operation and consistent performance, it offers stable thermal conditions ideal for a wide range of applications, including cell culture, microbial growth, and sample incubation.

Combining robust construction with intuitive control, the HIB series ensures your sensitive experiments proceed smoothly and reproducibly.



### Features

#### > Precise Temperature Control

- Equipped with a Fuzzy PID controller for accurate temperature regulation and minimal fluctuation.
- Features a built-in timer with a maximum setting of **99 hours 59 minutes**.

#### > User-Centric Design

- **Clear Observation:** A double-layer door design includes an inner glass panel for easy, clear viewing of samples without disturbing the internal environment.
- **Safe Operation:** When the glass door is opened, both the fan and heating system automatically pause to prevent temperature overshoot.
- **Hygienic Interior:** Constructed with a mirror-finished stainless steel chamber for easy cleaning and corrosion resistance.
- **Efficient Heating:** Utilizes electric heating elements for rapid and uniform temperature distribution.

#### > Intelligent Airflow Management

- **Automatic Fan Speed Control:** The circulating fan speed adjusts automatically. When the chamber reaches the set temperature, the speed reduces to a gentle airflow, minimizing sample evaporation and disturbance during sensitive procedures.

#### > Enhanced Safety

- **Independent Over-Temperature Alarm:** Automatically cuts off heating and triggers an audible/visual alert if the temperature exceeds the set limit, ensuring safe operation.
- **High-Temperature & Over-Temperature Alerts:** Dual warnings for added protection.

### Options

#### **Multi-Step Programmable Temperature Controller**



**Built-in Printer** (Not available for HIB-12)



**USB Data Storage**



**RS485/232 Interface & Communication Software**



**UV Sterilization System**

Model	HIB-12	HIB-32	HIB-52	HIB-82	HIB-162	HIB-272	HIB-402	HIB-602	HIB-902
Voltage	AC 220V/50Hz								
Temp. Range	RT+5~65°C								
Resolution / Fluctuation	0.1°C / ±0.5°C								
Temp. Uniformity (@37°C)	±1.5°C	±1.5°C	±1.5°C	±1.5°C	±1.5°C	±1.5°C	±2.0°C	±2.0°C	±2.0°C
Working Ambient Temp.	+5~35°C								
Heating Method	Electric heating tube								
Timing Range	99h59min								
Chamber Volume (L)	16	35	50	80	160	270	420	620	1000
Input Power (W)	200	200	300	400	600	750	1100	1400	2200
Standard Shelves (pcs)	2	2	2	2	2	2	3	4	4
Interior Dimensions WxDxH (mm)	250×260×250	340×320×320	415×360×355	500×400×400	500×500×650	600×600×750	640×585×1355	840×600×1355	890×740×1590
Exterior Dimensions WxDxH (mm)	530×480×420	620×490×490	690×500×500	780×530×560	790×630×810	890×740×910	780×750×1880	980×800×1880	1050×880×2060

\*Note: HIB-12 model includes a viewing window but no inner glass door.

## Note:

### Multi-Step Programmable Temperature Controller (Optional)

- **Comprehensive Parameter Control:** Simultaneously set and program temperature steps, fan speed, time, and heating rate for complete protocol automation.
- **Advanced Gradient Function:** Execute precise temperature ramps from the chamber's initial temperature, enabling controlled gradient experiments.
- **Full-Process Automation:** Pre-program automatic start-up, standby, and shutdown sequences for unattended operation.
- **Extensive Program Capacity:** Store up to 7 program groups, each containing 9 steps (63 steps total), with individual step durations programmable from 0 to 5999 minutes.

### UV Sterilization System (Optional)

- Effectively safeguards long-term cell cultures by periodically disinfecting the chamber interior. This system eliminates airborne microbes within the circulating air, significantly reducing the risk of contamination during critical incubation processes.

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