

HIB-Pro Series Programmable Heated Incubator

RT+5 ~ 80°C | 16L - 420L | Programmable

LAB1ST HIB-Pro Series is the advanced line of heated incubators, engineered for demanding laboratory workflows. It delivers superior precision with a wider temperature range (RT+5~80°C) and lower fluctuation ($\pm 0.2^{\circ}\text{C}$), alongside a built-in multi-step programmable controller that automates complex protocols for hands-free operation.

Ideal for cell culture and critical applications requiring exceptional reliability and repeatability.



Features

> Built-in Multi-Step Programmable Controller:

- **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.

> High-Precision Fuzzy PID Control:

- **Fuzzy PID control:** Delivers superior temperature stability with minimal fluctuation ($\pm 0.2^{\circ}\text{C}$), ensuring reliable and repeatable conditions for sensitive cultures and samples.

> Enhanced Usability & Design:

- **Large LCD Screen:** Displays multiple parameters for clear monitoring.
- **Ergonomic Interior:** Features a mirrored stainless steel chamber with rounded corners for effortless cleaning. Shelf brackets are freely adjustable or removable.
- **Convenient Test Port:** A standard 25mm diameter port on the right side of the chamber allows for easy insertion of probes or leads.
- **Self-Diagnostic Function:** The LCD screen displays clear fault messages for quick identification and troubleshooting of operational issues.

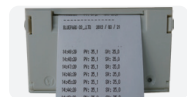
- **Automatic Fan Speed Control:** Adjusts circulation speed based on temperature status. During stable temperatures, fan speed reduces to a gentle airflow, minimizing sample disturbance and evaporation.

> Safety & Sterility:

- **Independent Over-Temperature Alarm:** Triggers audible and visual alerts to ensure safe operation.
- **High-Temperature & Over-Temperature Alerts:** Dual warnings for added protection.

Options

Built-in Printer



USB Data Storage Module



UV Sterilization System



RS485/232 Interface & Communication Software





Model	HIB-42-Pro	HIB-82-Pro	HIB-162-Pro	HIB-272-Pro	HIB-402-Pro
Power Supply	AC 220V/50Hz				
Temperature Range	RT+5~80°C				
Resolution / Fluctuation	0.1°C / ±0.2°C				
Temp. Uniformity (@37°C)	±1.5°C				
Working Ambient Temp.	+5~35°C				
Heating Method	Electric heating tube				
Timing Range	99h59min				
Chamber Volume (L)	40	80	160	270	420
Standard Shelves (pcs)	2	2	2	2	2
Input Power (W)	250	250	500	600	1200
Interior Dimensions W×D×H (mm)	350×300×400	400×320×550	500×380×750	600×450×900	1000×510×800
Exterior Dimensions W×D×H (mm)	505×635×600	550×660×750	655×715×980	755×785×1130	1140×850×1080
Viewing Window	No	Yes	Yes	Yes	Yes
Testing Hole (mm)	25	25	25	25	25

*Note: Test conditions: Ambient temp 20°C, Humidity 50% RH (Empty Chamber).

Note:

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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