

RIB Series Refrigerated Incubator

-10/-20/-40 °C to +65°C | 50L - 504L

LAB1ST Refrigerated Incubator (RIB Series) is engineered for applications requiring precise temperature control below ambient. Featuring renowned brand compressors and energy-efficient design, it ensures rapid cooling, low noise, and exceptional reliability for storing media, serum, pharmaceuticals, microbial cultivation, and environmental testing.

Its robust construction and intelligent control system provide a stable, uniform environment for your most sensitive materials.



Features

> High-Efficiency Cooling System

- Equipped with renowned brand compressors and fans, using environmentally friendly refrigerants for fast pull-down (over **40%** faster than conventional units), low energy consumption, and quiet, long-lasting operation.

> Precise & Stable Control

- A microprocessor-based LCD temperature controller ensures quick setpoint recovery and accurate, stable operation across the entire range.

> Enhanced Usability & Design:

- Easy-Clean Interior: Mirror-finished stainless steel chamber with rounded corners; shelves and brackets are freely removable for effortless cleaning.
- Integrated Test Port: A standard **25mm** port on the left side allows for easy insertion of probes and sensors.
- Clear Display & Menu: Intuitive interface for straightforward operation and monitoring.

> Independent Over-Temperature Alarm

- Automatically cuts off heating and provides alerts to ensure safe operation.

Options

Multi-Step Programmable Temperature Controller



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



USB Data Storage



RS485/232 Interface & Communication Software



Model	RIB10-50	RIB10-100	RIB10-150	RIB10-250	RIB10-500
Temperature Control Range	-10~65°C				
Temperature Resolution	0.1°C				
Temperature Fluctuation	High Temp.:±0.5°C/Low Temp.:±1.0°C				
Ambient Operating Temperature	+5~35°C				
Timer Range	0~5999 min				
Power Supply	AC220V 50HZ				
Input Power (W)	1100	1100	1300	1500	2250
Chamber Volume (L)	50	120	149	249	492
Interior Dimensions (WxDxH mm)	400×300×420	500×400×600	550×405×670	600×500×830	670×720×1020
Exterior Dimensions (WxDxH mm)	660×720×930	650×770×1320	690×800×1410	740×900×1580	850×1100×1930
Shelves/Trays (Standard)	2	3	3	3	3
Test Port	25mm				

Model	RIB20-50	RIB20-100	RIB20-150	RIB20-250	RIB20-500
Temperature Control Range	-20~65°C				
Temperature Resolution	0.1°C				
Temperature Fluctuation	High Temp.:±0.5°C/Low Temp.:±1.0°C				
Ambient Operating Temperature	+5~35°C				
Timer Range	0~5999 min				
Power Supply	AC220V 50HZ				
Input Power (W)	1100	1200	1300	1600	2550
Chamber Volume (L)	50	120	149	249	492
Interior Dimensions (WxDxH mm)	400×300×420	500×400×600	550×405×670	600×500×830	670×720×1020
Exterior Dimensions (WxDxH mm)	660×720×930	650×770×1320	690×800×1410	740×900×1580	850×1100×1930
Shelves/Trays (Standard)	2	3	3	3	3
Test Port	25mm				

Model	RIB40-50	RIB40-100	RIB40-150	RIB40-250	RIB20-500
Temperature Control Range	-40~65°C				
Temperature Resolution	0.1°C				
Temperature Fluctuation	High Temp.:±0.5°C/Low Temp.:±1.0°C				
Ambient Operating Temperature	+5~35°C				
Timer Range	0~5999 min				
Power Supply	AC220V 50HZ	AC220V 50HZ	AC380V 50HZ	AC380V 50HZ	AC380V 50HZ
Input Power (W)	2800	4100	5100	6100	7100
Chamber Volume (L)	68	120	158	252	504
Interior Dimensions (WxDxH mm)	400×380×450	500×400×600	550×430×670	600×600×700	800×700×900
Exterior Dimensions (WxDxH mm)	650×1040×1650	700×1040×1750	750×1040×1810	800×1160×1850	1000×1210×1980
Shelves/Trays (pcs)	2	3	3	3	3
Test Port	25mm				

Note:

Multi-Step Programmable Temperature Controller (Optional)

- Complete Parameter Control: Simultaneously program temperature steps, fan speed, duration, and heating rates.
- 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.
- Expanded Memory: Store and run up to 30 program segments, with each segment duration adjustable from 1 to 5,999 minutes.

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