



Biochemical Incubator
Model: ADL-SH100 / ADL-BI100



Gather all the essence of AdLab technology, Together with researchers

Perfect products from AdLab Human engineering design, high-precision micro-computer control, temperature control, best imported components, as well as advanced manufacturing technology of Europe and the United States, ensure your successful experiment.

SH Biochemical Incubator
Technical Parameters

Product Model	SH Biochemical Incubator Series				BI-MJ Mold Incubator Series			
	ADL-SH100	ADL-SH150	ADL-SH250	ADL-SH400	ADL-BI100	ADL-BI150	ADL-BI250	ADL-BI400
Convection Mode	Forced Convection							
Control System	Microprocessor PID							
Temp. Range	0~70°C							
Temp. Accuracy	0.1°C							
Temp. Fluctuation (10-40°C)	±0.5°C							
Temp. Uniformity (°C) (10-40°C)	±1	±1	±1	±1.5	±1	±1	±1	±1.5
Timer Range	0~99 Hours, 0~9999 minutes, can be chosen							
Working environment	Ambient temperature : 10~30°C, Humidity<70%							

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Insulation materials	Environmental protection type material							
External Dimensions (H×W×D)	1250×630 ×680	1410×650 ×680	1730×650 ×740	1700×745 ×930	1250×630 ×680	1410×650 ×680	1730×650 ×740	1700×745 ×930
Internal Dimensions (H×W×D)	610×490 ×390	760×510 ×390	1100×510 ×450	1050×600 ×640	610×490 ×390	760×510 ×390	1100×510 ×450	1050×600 ×640
Interior Volume(L)	100	150	250	400	100	150	250	400
Interior steel materials	St.steel materials							
Interior steel materials	3	3	4	4	3	3	4	4
Power Consumption(W)	850	1000	1100	1100	850	1000	1100	1100
Power supply	Single phase AC220V/50Hz							
Net Weight(KG)	95	107	135	158	95	107	135	158
Gross Weight(KG)	120	133	162.5	188	120	133	162.5	188
Shipping Dimensions (H×W×D)	1450×730 ×830	1605×760 ×830	1935×760 ×890	1907×815 ×1090	1450×730 ×830	1605×760 ×830	1935×760 ×890	1907×815 ×1090

Optional Product Accessories

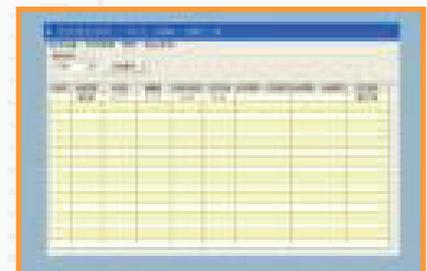
1. Portable printer
2. LCD touch screen controller
3. Air interface
4. Power supply interface
5. ALLSENS™ Software
6. Adjustable speed oscillator (for constant temperature shaking culture use);
7. Programmable multi-stage controller



Printer



LCD touch screen



ALLSENS™ Software



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- All technical data is under no load conditions, environment temperature 25°C, relative humidity 50%RH, voltage fluctuation $\pm 10\%$, no obvious shock and dust.
- AdLab may change the above technical parameters at any time. There is deviation about product appearance due to some factors such as the photographic or printed result, please understand and reserves the final right of interpretation.

Meet International Standard

Products standard: NSF 49; EN12469

Electrical safety standard: International IEC61010-1/US UL61010-1/EU EN61010-1

Biochemical Incubator Mold Incubator

- Applicable to the analysis and BOD determination of water, is a dedicated research department of environmental protection, health and epidemic prevention, drug testing, livestock, aquatic thermostatic device.
- ALLIGENT-SH Biochemical Incubator/Mold Incubator can provide a stable temperature environment, simulate various climatic conditions, especially used in samples tests、shelf life tests、long-term experiments and cultivation of plants、seeds and microorganisms.
- According to Chinese pharmacopoeia requirements, AS3100 of Australia, FDA of the United States, EN, ICH and other related standards. For long-term acceleration experiments and forced degradation experiments.
- IQ, OQ, PQ and other related certification services.
- CE certification. Three-year warranty period.

ALLCOLD Refrigeration Technology

- World famous compressor: balanced refrigeration technology, auto defrost, multiple security system, long time running, environmental protection, high efficiency and energy saving.
- Auto-defrost function: original rapid heat pump defrost technology, for continuous operation, effectively prevent frost because of continuous operation of evaporator.
- Refrigeration effect manual control system: meet customer's terrible work environment.
- Imported DuPont SUVA R134 a environmental refrigerant. For cleaner world, for better work condition.
- To save energy, to reduce the cost.

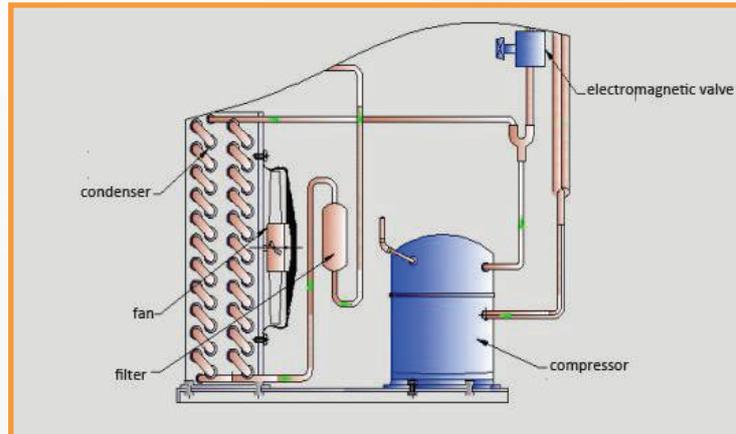
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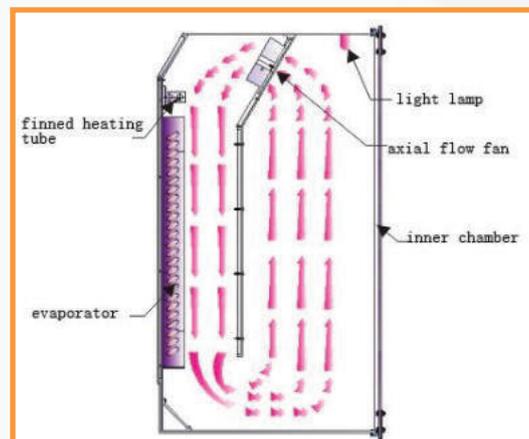
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ALLFLOW Perfect Air Current Cycling

- ALLFLOW air current cycling: perfect forced convection, maximum samples number of working room, minimum temperature recovery time after the opening, world famous axial fan, perfect air current design, ensure an ideal result of samples culture.
- ALLFLOW air current cycling: keep temperature continuous and stable, keep humidity continuous and stable, ensure perfect sample culture.



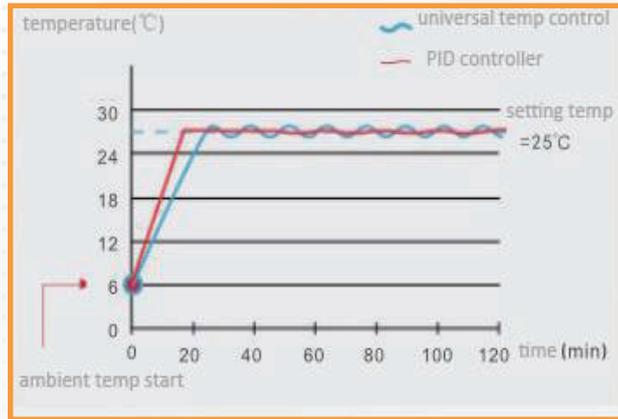
ALLSENS Programmable PID Control

- Integrated, dot-matrix LCD display, Chinese and English subtitles, design for the highest operational comfort.
- Display parameters: temp humidity, cycle, run time, run/stop.
- Adaptive PID controller precisely control the temperature and humidity, prevent temperature soaring, keep working room temperature stable and uniformity.



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- User password protection, built-in multifunctional memory menu, connect to multiple devices (up to 16 units), real-time monitoring.
- Set operations with beep tips
- Remote-controlled operation, with programmable software (option). Bacteria-free culture with UV disinfection (meet Mold incubator)



Qualified Sensor

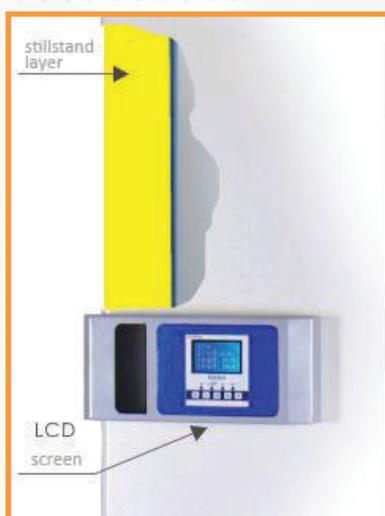
Imported industrial sensor PT100, short response time, low self-heating temperature



Biochemical Incubator Model: ADL-SH100 / ADL-BI100

Efficient Isolation Design

- Design of double-layer isolation, reduce power consumption, environmental protection concept, energy conservation
- Internal isolated door design, easy observation of working room samples, keep temperature stability of working room



Efficient Isolation Design

- Laboratory of classical color design, international fashion design, arc-shaped design, for highest operational comfort.
- Integrated design that contains original outside handle and LCD screen, ergonomic structure, comfortable viewing angle, convenient to open the outside door and operate interface.
- Interval and number of mesh shelf can be adjusted according to customer requirements. Maximum capacity to meet customer needs.
- Comfortable vertical structure, maximize work chamber, working room in the upper, convenient to take.
- Double door design, easy observation samples, keep temperature stability, with bell-type lighting system.

Modern Manufacturing Processes

- Sheet metal parts use laser cutting and CNC bending technology. Cold-rolled sheets use three line of acidification anti-rust technology. Incubator surface use workmanship of spraying plastics.



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Easy to Clean

- Internal surface is smooth and less weld, easy cleaning and maintenance.
- Pull multi layer shelf design, less metal accessories, easy to clean.
- Drainage design of chamber humidification collecting tank. User can discharge water as required to avoid bacteria.

Convenient Maintenance

- Liquid crystal micro-computer controller with diagnostic function. Display operating parameters including historical record, temperature and humidity data.
- Maintaining of controlling system and cooling system, electrical control system mounted on the incubator bottom.
- Electrical control components and working room are installed separately. Especially refrigerating battery and electrical control output parts, which are installed in incubator bottom, easy to maintenance.



Secure and Efficient Protection Concept

- Multiple over temperature protection function, sound and light alarm.
- Automatic double over temperature protection function.
- All electronic components are UL certified.

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Main Configuration Table of SH Series Biochemical Incubator

No	Name	Specifications	Quantity
1	Main box	SH	1
2	LCD large screen intelligent temperature control meter	D6006	1
3	High precision temperature sensing probe	PT-100	1
4	Axial flow fan	SF120-BT150	2
5	Italian ZEL compressor	GQR	1
6	304 stainless steel seamless heating pipe	0.55-0.7KW	1
7	304 stainless steel inner liner	SH	1
8	485 interface	9 holes	1
9	Fuse	15A	1
10	Separate plug-in power cord 3 × 0.75mm ²	2.5m 15A	1
11	DuPont fluorine free and environmentally friendly refrigerant	SUVA-R134A	Several
12	Evaporator	Customized	1
13	Condenser	Customized	1
14	Universal and brake casters	3 Inches	Each 2
15	Defrosting solenoid valve	SH1028	1
16	Miniature circuit breaker	DZ47	1

The above configuration is for reference only. The manufacturer has the right to change the accessories and their parameters at any time without further notice

- Comparison of biochemical-humidity-light-climate chamber

	SH/SH-MJ	WS/WS-MJ	LC	RG	SPX/SPX-MJ	SH/SH-MJ	GZP	PQH
Controller								
30 programmable control system		●	●	●				
PID LCD	●	●	●	●		●	●	●
PID Digital					●			
Chamber material								
SUS304 St. steel	●	●	●	●		●	●	●
201 St. steel					●			
Motor fan								
High temperature resistant bearing	●	●	●	●				



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Heat element								
SUS304 St. steel	●	●	●	●				
201 St. steel					●	●	●	●
RS232 port	●	●	●	●				
Remote control	●	●	●	●				
ALLCOLD balanced refrigeration	●	●	●	●		●	●	●
ALLFLOW circulation	●	●	●	●				
ALLSENS temp. control	●	●	●	●				
ALLGENT humidification		●						
Pro-Bright light system			●	●				
Save energy insulation	●	●	●	●				
UV function	● "MJ"	● "MJ"			● "MJ"	● "MJ"		
Refrigeration capacity control	●	●	●	●				
Brand accessories								
Brand compressor	●	●	●	●		●	●	●
DUPONT SUVA-R134	●	●	●	●		●	●	●
ST bi type thyristor	●	●	●	●				
Philip chip	●	●	●	●				
Taiwan optical coupler	●	●	●	●				
SENSIRION sensor	●	●	●	●				
Auto defrost	●	●	●	●				
Cut-off memory	●	●	●	●				
Door seal material	Silicone + Magnetic				Magnetic	Silicone + Magnetic		
Insulation	Polyurethane				Polyurethane			
Temp. accuracy °C	±0.1	±0.1	±0.1	±0.1	±0.5	±0.1	±0.1	±0.1
Temp. fluctuation	±0.5%	±0.5%	±1%	±1%	±1%	±0.5%	±1-1.5%	±1-1.5%
Humidification		●		●		●		●
Humidity fluctuation		±2%		±3%		±3%		±5%
Light function			●	●			●	●
Timer	●	●	●	●	●	●	●	●
Over-temperature alarm	●	●	●	●	●	●	●	●
Warranty	3 Years				2 Years			

AdLab is a globally recognized brand specializing in the manufacturing and supply of high-quality laboratory equipment and textile testing instruments. With over 15 years of experience, we are committed to delivering precision-engineered solutions that meet the needs of industries such as textiles, pharmaceuticals, research laboratories, and educational institutions. Our products are designed to enhance efficiency, accuracy, and reliability in scientific and industrial applications.

Our Skill

At AdLab, we combine expertise in precision engineering with advanced laboratory technology to create innovative and reliable testing instruments. Our team of skilled professionals continuously works on improving product designs, integrating the latest advancements in technology, and ensuring compliance with international quality standards. With a strong focus on research and development, we provide customized solutions that cater to the unique needs of our customers worldwide.

Our Products

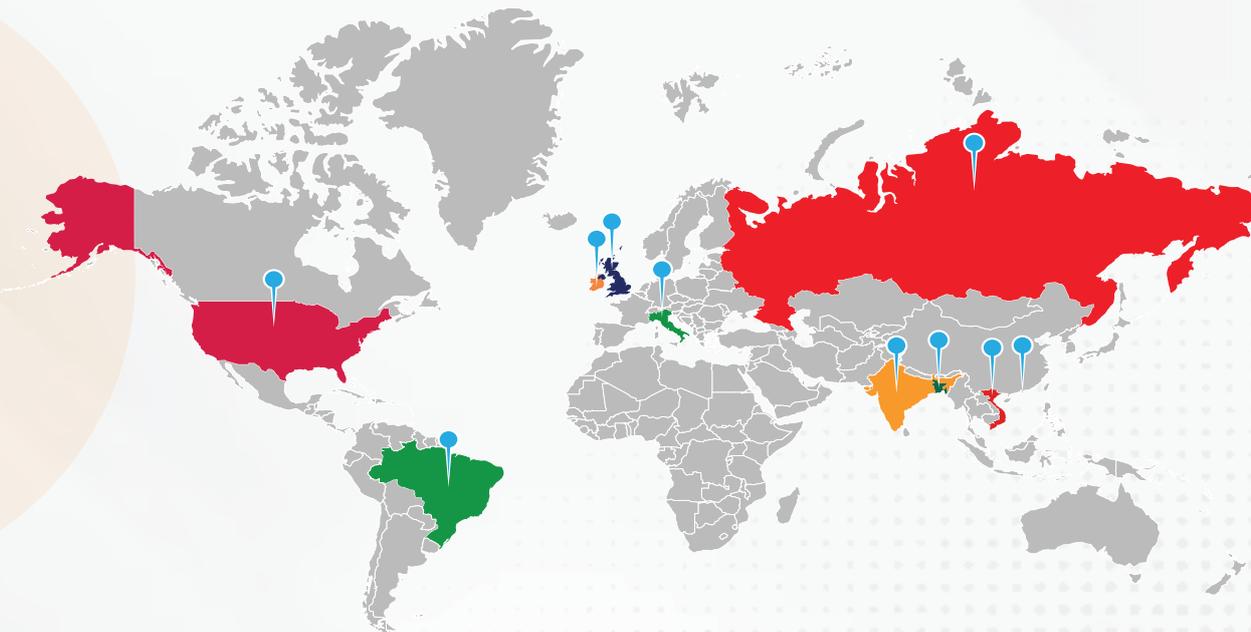
AdLab offers a wide range of high-quality laboratory and textile testing instruments, including Yarn & Fiber Testing Instruments, Laboratory Fume Hood Chambers, Ovens & Incubators, Water Baths, Textile Testing Instruments, Dyeing & Finishing Machines, Ceramic Testing, Tensile Testing, Washers & Dryers, Needle Detectors, and In-House Testing Equipment. Designed for precision and efficiency, our products ensure accurate testing and reliable performance across various industries.

Our Services

At AdLab, customer satisfaction is our top priority. We provide comprehensive support services to ensure the smooth operation of our equipment, including:

- ✓ 24/7 Technical Support Team – Our highly trained technical support team is available around the clock to assist with troubleshooting, maintenance, and operational guidance. Whether you need immediate assistance or expert advice, we are always ready to help.
- ✓ Installation & Training – We offer professional installation services and hands-on training to help users operate our equipment efficiently.
- ✓ Calibration & Maintenance – Regular calibration and maintenance services ensure that your laboratory instruments remain accurate and in optimal working condition.
- ✓ Customized Solutions – We provide tailored solutions to meet specific industry requirements, helping our clients achieve maximum efficiency in their operations.

Global Networks



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