



# LABORATORY LINES INCUBATORS



**Kalstein**®

A different accompaniment, at your service



OUR SERVICES

## Benefits and Support

In Kalstein France, we take care of the full satisfaction of our customers, that is why we provide value-added services of the highest level based on our experience.



### Online Inductions and Trainings

In any part of the world, receive your induction or training from our specialized team of engineers



### Quick Response

Our work team is always available to response all your consults or questions, in order to support you in any situation.



### #Letsgivemore ♥

Thanks to your purchase, a donation is made to a non-profit foundation that fights against cancer and helps vulnerable communities.



### Technical Support

Enjoy of personalized advice for the correct preventive and corrective maintenance of your equipment, thanks to Kalstein's manuals and articles, special catalogues and video tutorials.



### Delivery Logistics

We take care of all the necessary logistics for the dispatch of your goods, whether is by sea, land or air.



### Kalstein Worldwide

With more than 25 years growing with our customers, Kalstein's multiformat and modern content, is now present in more than 10 countries and increasing.



## CO<sub>2</sub> Incubator Series Model YR02048-1



- ✓ Used in cell culture, microbiology, pathology academic, life science fields;
- ✓ CR series CO<sub>2</sub> Incubator succeeded in creating a natural growth of the same simulation environment, ALLHEATTM Chamber heating technology to provide a stable temperature, the professional-grade IR CO<sub>2</sub> sensor, more accurately detect CO<sub>2</sub> concentration;
- ✓ Equipped with UV sterilization lamp, effectively prevent the cultivation of cross-contamination;
- ✓ IQ、OQ、PQ and other related certification services.
- ✓ Aus. AS2064 certification. CE certification. three-year warranty period.
- ✓ 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.
- ✓ Meet international standards
- ✓ Products standard: NSF 49; EN12469
- ✓ Electrical safety standards: International IEC61010-1/ US UL61010-1/ EU EN61010-1
- ✓ 3 years warranty

### Optional product accessories

1. Portable printer
2. Air interface
3. ALLSENS™ software
4. Hepa filter



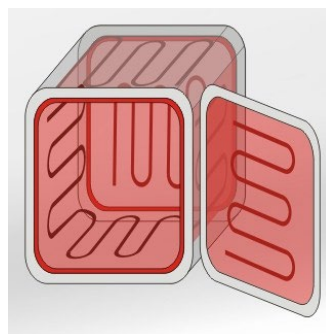
5. Printer



6. LCD Touch Screen

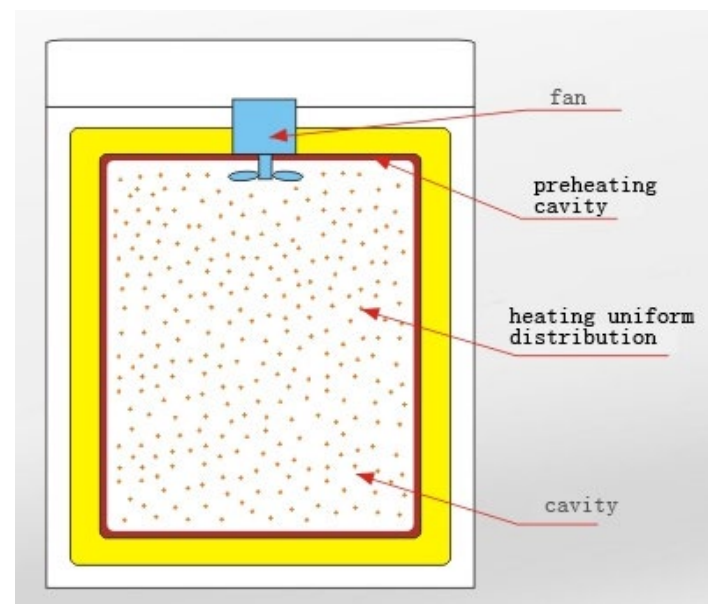


7. ALLSENS Software



### ALLHEATTM Chamber preheating technology

- ALLHEATTM Chamber preheating technology is the heating element is evenly distributed in the interior pre-heating of the cavity inner wall, and then through the heat transfer and forced-fan convection, so that the temperature of each cavity can accurately reach and maintain the set value, thus ensuring uniform distribution of the cavity temperature.
- Chamber of six surface heating, in which the glass door to possession of the heating system to prevent condensation of glass doors.
- ALLHEATTM series CO<sub>2</sub> Incubator with low energy consumption and heat characteristics not easily lost. Save energy, enabling customers to use the cost reduction.



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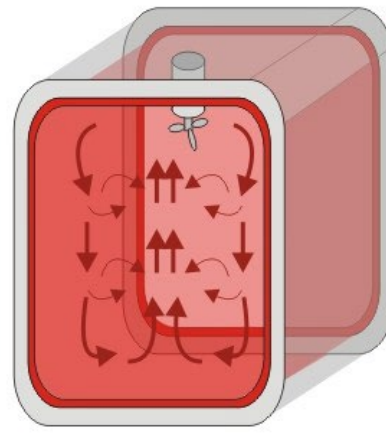


## CO<sub>2</sub> Incubator Series Model YR02048-1



### ALLFLOWTM Clean Air Circulation System

- ✓ Perfect forced convection ALLFLOWTM of air circulation system to ensure the shortest of temperature recovery after door. With internationally renowned brands with a cooling fan (maintenance, durability), the experimental and the training effect to the extent desired;
- ✓ ALLFLOWTM air circulation system sufficiently to ensure the continuous stability of the temperature of the working chamber. Customer set temperature is reached, given the perfect environment for sample roasting / culture;
- ✓ CO<sub>2</sub> inlet valve with a filter device to ensure cleanliness of the cavity gas;
- ✓ Equipped with UV sterilization system in the chamber regular basis to eliminate the cavity contaminating microorganisms, effectively prevent the training during the cross-contamination.



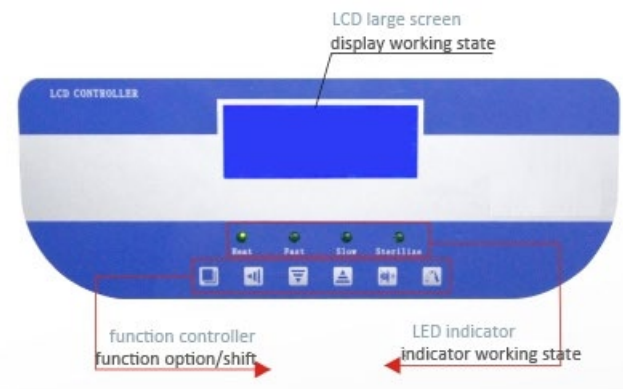
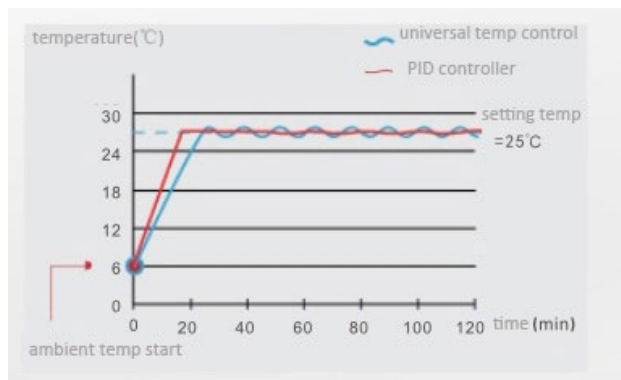
With Cooling Fan



Clean Air Circulation System

### ALLENSTM Programmable PID Controller

- ✓ Integrated, dot-matrix LCD display, Chinese and English subtitles, design for the highest operational comfort. Display parameters: Temp. Setting value; Temp. Measuring value, Humidity, CO<sub>2</sub> setting value, CO<sub>2</sub> measuring value, Heating, Fast input, Sloe input, Sterilization, run/stop.
- ✓ Adaptive PID controller precisely control the temperature and humidity, prevent temperature soaring, keep working room temperature stable and uniformity.
- ✓ 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 ALLENSTM software (option).



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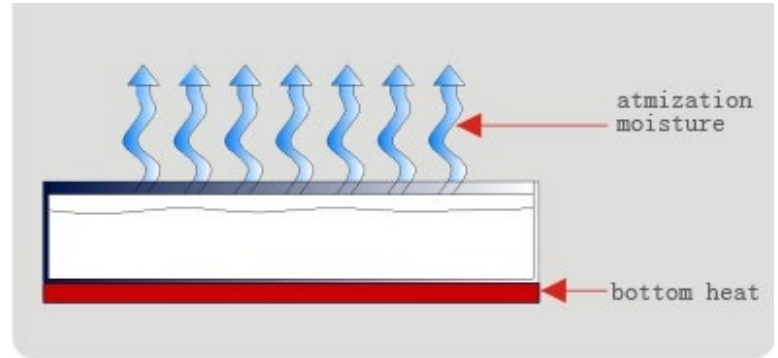


## CO<sub>2</sub> Incubator Series Model YR02048-1



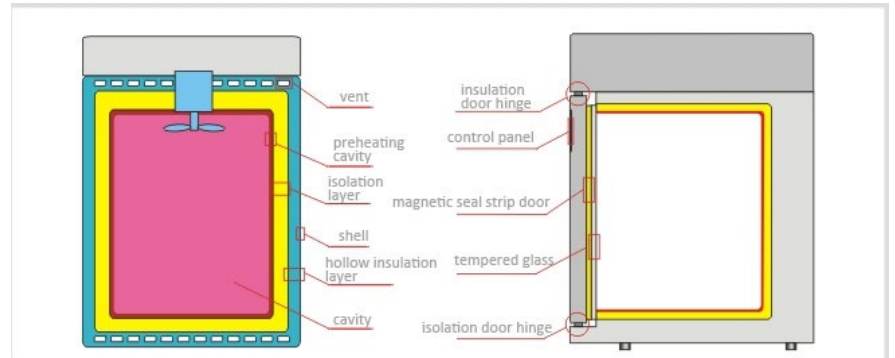
### ALLMIST™ Inside Water Pan Humidification Technology

- ✓ The original water pan liner integrated humidifier design, that the water quickly atomized
- ✓ Soft air with water vapor of the water pan out the cavity humidity up and recovery, to ensure that the culture needed to saturated water.



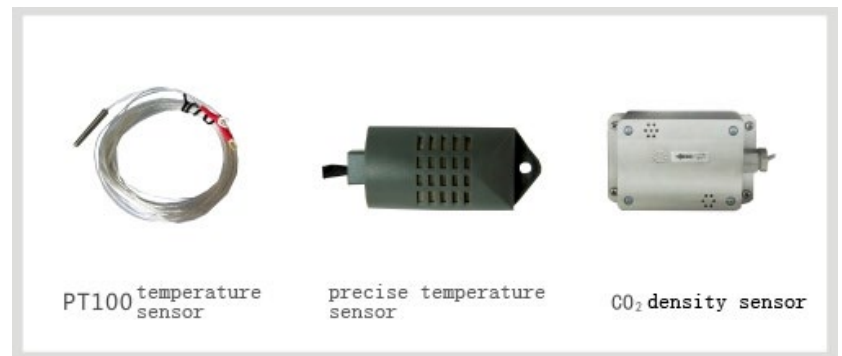
### Pro-Insulation™ Isolation Insulation Technology

- ✓ Inner isolation gate design, take full account of customers in the observation of cavity samples, ensure the consistency of the cavity temperature.
- ✓ Based on the effective use of heat design, complete isolation between the liner and shell to avoid energy loss due to heat transfer.
- ✓ Imports high-density thermal insulation material wrapped liner, insulation well.
- ✓ Good silicone door seal, with the magnet outside the door design, ensure tightness.



### Qualified Sensor

- ✓ Imported industrial sensor PT100, short response time, low self-heating temperature.
- ✓ Imported humidity sensor, aerospace material, no maintenance, precision humidity control level.
- ✓ Imported IR CO<sub>2</sub> concentration sensor with automatic temperature compensation allows high humidity (> 98%) long-term use of the environment, high accuracy, low drift, and the CO<sub>2</sub> concentration can be fast recovery characteristics.



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## CO<sub>2</sub> Incubator Series Model YR02048-1



### Ergonomic design

- ✓ Laboratory of classical colour 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.
- ✓ Vertical cabinet classic design of structural, electrical components located in the upper cabinet to facilitate maintenance;
- ✓ 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.
- ✓ With a test hole in the inner door, easy to test.



### 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.
- ✓ Inner chamber is made of SUS304 stainless steel materials.



### Easy to clean

- ✓ Internal surface is smooth and less weld, easy cleaning and maintenance.
- ✓ Pull multilayer shelf design, less metal accessories, easy to clean.
- ✓ Drainage design of chamber humidification collecting tank. User can discharge water as required to avoid bacteria.
- ✓ Water pan drainage design, the user may need to open the valve, put the best water to avoid bacteria.



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## CO<sub>2</sub> Incubator Series Model YR02048-1



### Convenient maintenance

- ✓ Liquid crystal micro-computer controller with diagnostic function. Display operating parameters including historical record, temperature and humidity data.
- ✓ 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.
- ✓ All over temperature protection devices meet Germany standard DIN standard D12880 Class 3.1.



Product Model	CO <sub>2</sub> Incubator	
	YR02048-1	YR02049-1
Convection Mode	Forced Convection	
Control System	Microprocessor PID	
Temp. Range	RT+5°C~55°C	
Temp. Accuracy	0.1	
Temp. Fluctuation (37°C)	±0.5	
Temp. Uniformity (37°C)	±0.8	
CO <sub>2</sub> Range	0~20%	
CO <sub>2</sub> Sensor/Uniformity	IR sensor(±0.1%)	
CO <sub>2</sub> Recovery Without overshoot (after 30 seconds door opening to 5%)	≤2 minutes	
Temp. Recovery Without Overshoot(after 30 seconds door opening to 37°C)	≤8 minutes	
Humidification Method	Humidity Pan > 95% (with Temp. display)	
Working environment	Ambient temperature: 10~30°C, Humidity <70%	
Insulation materials	Imported environmental protection type material	
External Dimensions(H×W×D)	755×550×547	905×610×687
Internal Dimensions(H×W×D)	500×400×400	650×460×540
Interior Volume(L)	80	160
Interior steel materials	SUS304 stainless steel	
Number of Shelves	2	3
Power supply	Single phase AC220V/50Hz	
Power Consumption (W)	500	650
Net Weight(KG)	35	55
Shipping Dimensions(H×W×D)	880×630×635	1030×690×695



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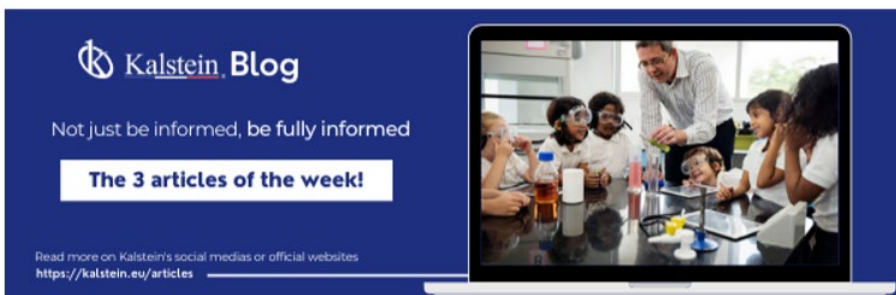


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**1**  
Read this ARTICLE NOW



**How does the climate affect your microscope?**

microscope is an instrument that allows observing and measuring objects that are too small to be seen with the naked eye. This is achieved through a complex system of lenses and mirrors, which form

**Kalstein Blog**

**Article of the week:**  
How does the climate affect your microscope?

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**2**  
Read this ARTICLE NOW



**What is the importance of the laboratory refrigerator?**

refrigerator is a device that is one of the most common laboratory equipment. It is used to maintain, in a controlled environment (refrigerated space), various fluids and substances.

**Kalstein Blog**

**Article of the week:**  
What is the importance of the laboratory refrigerator?

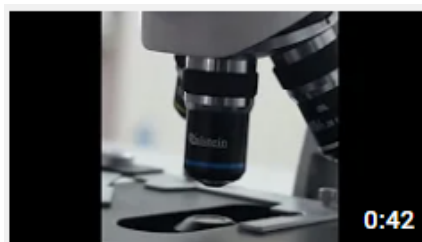
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