



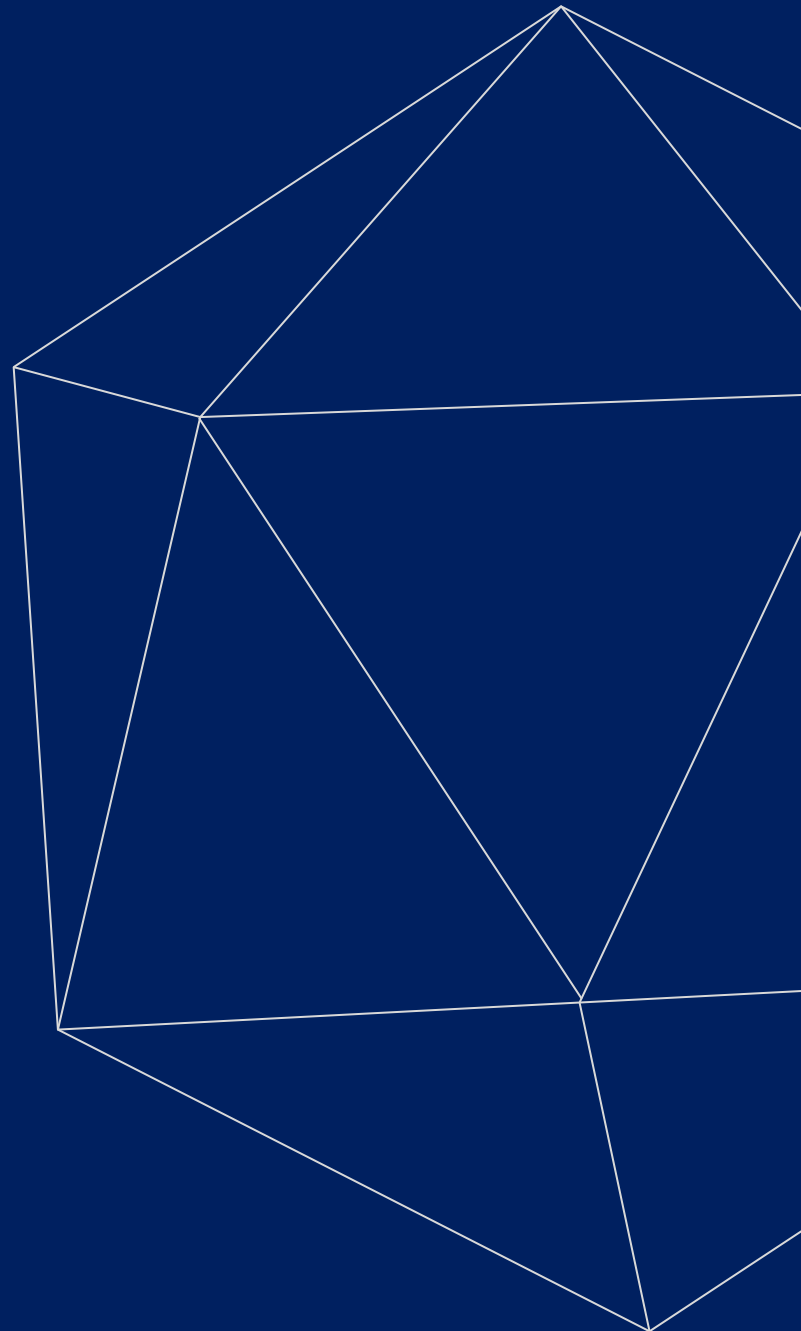
LABORATORY SECTOR

INCUBATORS



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A different accompaniment, at your service





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KALSTEIN® Incubators
CO₂ Incubator
Model YR02049-1



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KALSTEIN® Incubators

CO₂ Incubator

Model YR02049-1



Product Description:

Use in cell culture, microbiology research, pathology and life science fields. Creating a natural growth of the same simulation environment, adopt chamber heating technology to provide a stable temperature, the professional-grade IR CO₂ sensor, more accurately detect CO₂ concentration. Equipped with UV sterilization lamp, effectively prevent cross-contamination of cultivation

ALLHEAT™ Chamber Preheating Technology::

- ✓ ALLHEAT™ 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.
- ✓ ALLHEAT™ CO₂ Incubator with low energy consumption and heat characteristics not easily lost. Save energy, enabling customers to use the cost reduction.

ALLSENS™ 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, CO₂ setting value, CO₂ 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 ALLSENS™ software (option).

ALLHEAT™ Clean Air Circulation System:

- ✓ Perfect forced convection ALLFLOW™ 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.
- ✓ ALLFLOW™ 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.
- ✓ CO₂ 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.

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.



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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.

Excellent Imported 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 CO₂ concentration sensor with automatic temperature compensation allows high humidity (> 98%) long-term use of the environment, high accuracy, low drift, and the CO₂ concentration can be fast recovery characteristics.

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.

Ergonomic 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.
- ✓ 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.

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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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. installed behind incubator, 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.

Technical Specifications:

Model	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
CO₂ Range	0~20%
CO₂ Sensor/Uniformity	IR sensor(±0.1%)
CO₂ 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)	905×610×687
Internal Dimensions(H×W×D)	650×460×540
Interior Volume(L)	160
Interior steel materials	SUS304 stainless steel
Number of Shelves	3
Power supply	Single phase AC220V/50Hz
Power Consumption (W)	650
Net Weight (KG)	55



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