

KENTON®

LRH-CR

PQH-CR

Temperature & Humidity (Illuminance) CO2 Incubator

— Accurate temp. humidity control, infrared sensor probe, CO2 automatic control



PRODUCT PARAMETERS

Model	Temp. humidity-CO2 incubator				(light)Temp. humidity-CO2 incubator							
	LRH-100CR	LRH-150CR	LRH-250CR	LRH-350CR	PQH-150CR	PQH-250CR	PQH-350CR					
Liner size (mm) (H×W×D)	580×450×380	800×500×380	1000×550×450	1000×580×600	800×500×380	1000×550×450	1000×580×600					
Overall size (mm) (H×W×D)	1100×590×620	1350×640×660	1550×690×660	1775×815×900	1350×640×660	1550×690×660	1775×815×900					
Volume (L)	100	150	250	350	150	250	350					
Work environment	Ambient temperature 10~30°C、Relative humidity below 70%											
Temp. range (°C)	0~65°C											
Temp.accuracy (°C)	0.1											
Temp. fluctuation (°C) (10~40°C)	±0.5											
Humidity range (10~40°C)	40~95%											
Humidity fluctuation	±3%											
CO2 Range and accuracy	infrared sensor 0~20% 0.1%											
CO2 Recovery time (5%)	≤3min		≤5min		≤3min		≤5min					
Illuminance LX					0~6000(five stages)							
Control	Thirty segment programmable microcomputer PID intelligent automatic control system											
Convection mode	Forced convection											
Timing range	0~999H、or 0~9999min,											
Liner material	SUS304											
Insulation materials	Environmentally friendly											
Voltage	Single phase AC220V/110V											
Power (W)	700	900	1100	1300	1000	1200	1450					
Number of pallets (pic)	3	3	3	4	3	3	4					

1. This series will be delivered in 5 days after ordering. Check the customer service for details.

2. Per pallet maximum load of 20 KG.

Warning: Before buying, be sure the door and elevator size, avoid the chamber size is too large to enter.

All technical data are tested under no-load conditions, ambient temperature 25°C, relative humidity 50% RH, voltage fluctuation $\pm 10\%$, and set test temperature of 10°C/40°C.

KENTON Instruments Co., Ltd. may change the above technical indicators at any time, the appearance of the product may deviate due to photography or printing, etc. Please understand, and reserve the right of final interpretation.

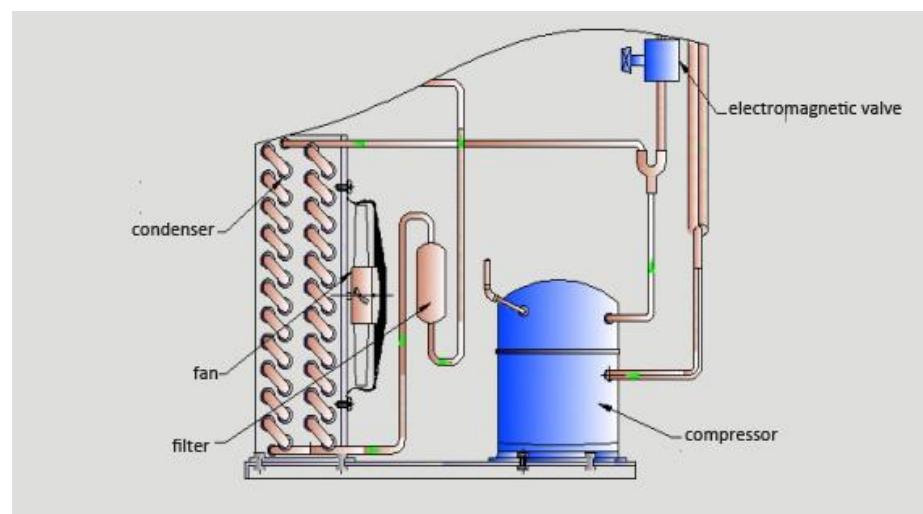
Optional parts

1. Independent temperature limit controller
2. Micro-integrated printer
3. Microcomputer communication interface and software
4. Test hole
5. Gas interface
6. High-efficiency gas filtration system (efficiency up to 99.998% $\geq 0.3\mu\text{m}$).

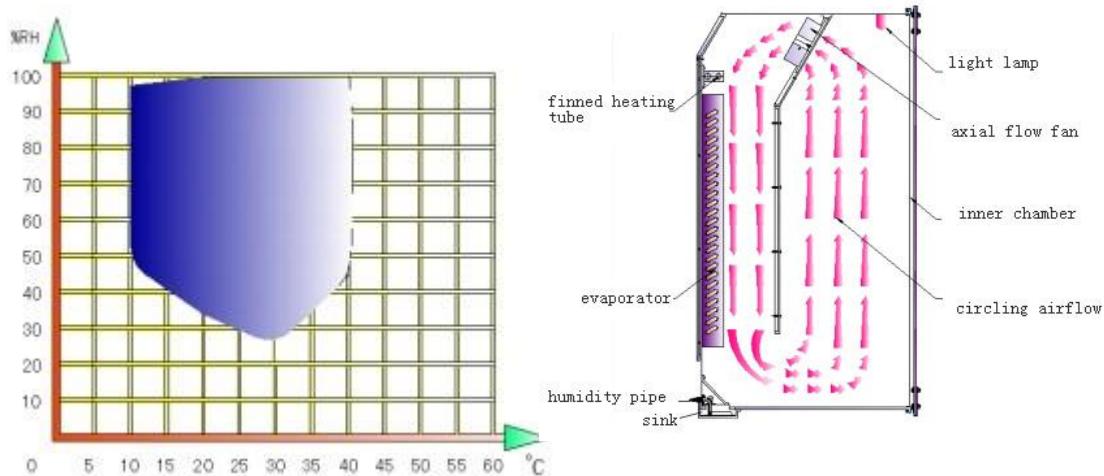
LRH-CR PQH-CR 2-year warranty

Constant temperature and humidity (light) carbon dioxide incubator

- Professional applications in cell culture, microbial research, pathology academic, life science, etc..
- The incubators have successfully created a simulated environment identical to natural growth, with balanced refrigeration and heating technology to provide stable temperature, a large capacity built-in automatic water replenishment tank, an original humidification system to make humidification more even, professional grade infrared CO₂ sensor to detect CO₂ concentration more accurately, automatic gas flow control is available, and PQH-CR series with light function is another option if needed.
- Manual control system for cooling capacity control, which can meet different application environments of customers; Fluorine-free environmental protection refrigerant, which makes the world cleaner and provides high-quality customer use environment.
- The fan and air intake valve are automatically closed when the door is opened, reduce the pollution caused by the entry of external air.
- A variety of validation services such as IQ, OQ and PQ can be provided in Chinese and English. enjoy 2-year warranty period.



- Forced airflow circulation system maximizes the amount of sample cultivation in the working chamber of the incubator and ensures the shortest temperature recovery after opening the door. Combined with the internationally well-known brand axial fan and perfect airflow design, the incubator achieves the ideal degree of sample cultivation.
- The system ensures the continuous stability of temperature and humidity in the working chamber and gives the perfect environment for sample cultivation when the temperature and humidity set by the users are reached.



Programmable microcomputer PID control technology

- Integrated LCD dot matrix large-screen LCD display with Chinese and English switching display, all parameters are displayed at a glance.
- Humanized design, comprehensive display of customer's required status display: temperature, humidity, cycle, segment number, running time, running stop.
- Adaptive PID program control, precise control of temperature and humidity, prevent temperature overshoot, keeping the temperature in the chamber even and constant.
- User password control with built-in multi-functional memory menu. Meanwhile, it can be connected with multiple (up to 16) devices at the same time through the standard RS485 interface for real-time monitoring.
- Programmable multi-segment control to meet customer's selection needs, up to 30-segment temperature and humidity control range design; wide time setting: 0~99 hours, 0~9999 minutes, the program can be executed automatically in a cycle.
- All setting operations are prompted with confirmation sound, easy to operate.
- Can be controlled remotely using microcomputer software, professional supporting operation software (optional).
- With ultraviolet sterilization lamp function to make the working inner cavity sterile for culture.

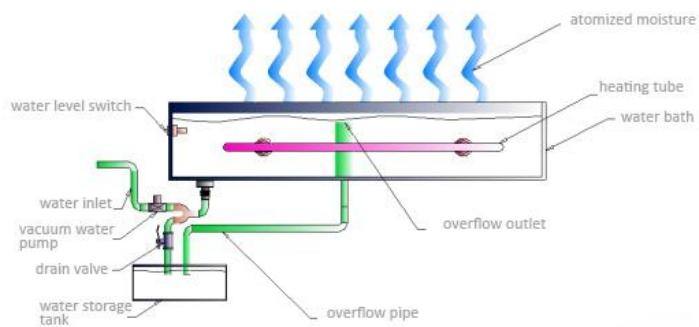
Humidification system

- Humidification system to get rid of the traditional design on the use of an atomized humidifier to produce uneven humidification, and unstable drawbacks.
- Automatic water inlet and replenishment design, automatic water level control to ensure precise humidity joining and control.

- The inner cavity and water tank are made of stainless steel to ensure the quality of atomization and the durability of the effect.

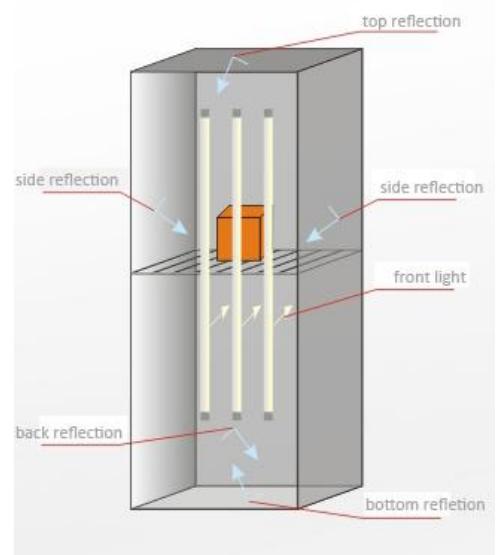
Excellent original imported, temperature, humidity and CO2 concentration sensing components

- Original imported industrial grade PT100 temperature sensor, with fast response time for a step change in temperature and small effect of self-heating temperature.
- Original imported humidity sensor with quality assurance of aerospace material, which does not require any maintenance and achieves absolutely accurate humidity control level.
- Original imported infrared CO2 concentration sensor with automatic temperature compensation, allowing long-term use in high humidity (greater than 98%) environment, high measurement accuracy, small drift, so that the CO2 concentration can be quickly recovered, etc.



Professional light system (PQH-CR equipped)

- The inner cavity is equipped with a professional lighting system that simulates natural light during the day and night to meet specific lighting conditions.
- The system compensates effectively according to the heat generated by light through a precise control system to ensure constant temperature.
- Using three-dimensional light source, the lighting is evenly distributed, and the mirror stainless steel inside the cavity is used as reflective material to make the lighting better, while the light level is graded and adjustable.
- Optimized lighting system, the lamp and the liner are effectively insulated by double glass and equipped with ventilation holes for heat dissipation.



Modern manufacturing processes

- The sheet metal parts of this product are laser cut and CNC bending, the cold-rolled plate is acidified and rust-proofed by three courses, and the surface electrostatic spraying coating makes the product more visually appealing.



KENTON APPARATUS LTD.

Manufacture of drying oven, lab incubator, climate chamber, laminar flow cabinet, biological safety cabinet(OEM,ODM)

KENTON Apparatus Limited was found in 1999, production plant was set in Guangzhou,China.It is mainly engaged in production,sales and export of laboratory thermostatic equipment and biological scientific equipment, and has provided high-quality products and services for professional laboratories and scientific research institutions at domestics and abroad for many years.

We relies on an international professional R & D team to keep the design and technology of products in step with the world and constantly seek breakthroughs.

Since its establishment, the company has been focusing on thermostatic equipment products in related fields. Now it is a high-tech enterprise integrating science, industry and trade. Its business covers China, Southeast Asia, America, Europe, Australia and other countries.

At the same time, based on the business philosophy of "walking with scientific researchers", and taking advantage of the company's geographical advantages, the company has carried out extensive communication and exchange with scientific researchers in different regions for many years, and carried out long-term follow-up services to users, constantly improving the function and quality of products, so that products can better meet the requirements of users.

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