KD/KL/KG Series Comprehensive



Drug Stability Test Chamber

KD-150	KL-150	KG-150
KD-250	KL-250	KG-250
KD-400	KL-400	KG-400



KD-250

Gather all the essence of Kenton technology

Together with researchers

High-End products from KENTON. Designed with ergonomic principles, featuring a sophisticated microcomputer control system and an optimal cleaning program. Manufactured using processes from Europe and the United States, with high-quality components to ensure a perfectly clean environment. The optimized wind pressure and air outlet design guarantee uniform and stable airflow, ensuring the success of your experiments.

KD Drug Stability Test Chamber

KL Strong Illumination Stability Test Chamber

KG Comprehensive Drug Stability Test Chamber

Technical Parameters

Product Model	KD		KL			KG			
	KD-150	KD-250	KD-400	KL-150	KL-250	KL-400	KG-150	KG-250	KG-400
Convection Mode		1	1	Forc	ed Convecti	on		1	
Control System		Program	nable microo	computer PID in	ntelligent tou	ch screen au	tomatic conti	rol system	
Temp. Range		0~65℃		$10 \sim 65^{\circ}$ C (with lighting)/ $0 \sim 60^{\circ}$ C (without lighting)					
Temp. Accuracy		0.1°C							
Temp. Fluctuation (10-40℃)	± 0.5 °C								
Temp. Uniformity (10-40℃)	±1°C								
Humidity Range	Humidity Range: 40~95%RH, Humidity Fluctuation: ±2%RH						Humidity Range: 40~95%RH, Humidity Fluctuation: ±3%RH		
Illumination Range		0~6000LX (five stages adjustable)							
Working	Ambient temperature: 10~30°C, Humidity <70%								
Insulation materials	Environmental protection type material								
External Dimensions (H×W×D)	1410×650 ×680	1730× 650×740	1700× 745×930	1410×650 ×680	$ 1730 \times \\ 650 \times 740 $	$ \begin{array}{c} 1700 \times \\ 745 \times 930 \end{array} $	1410× 650×680	1730× 650×740	1700× 745×930
Internal Dimensions (H×W ×D)	760×510× 390	1100× 510×450	$1050 \times 600 \times 640$	760×510× 390	1100× 510×450	$1050 \times 600 \times 640$	760×510 ×390	1100× 510×450	1050× 600×640
Interior Volume(L)	150	250	400	150	250	400	150	250	400
Interior steel materials	SUS304 stainless steel materials								
Power Consumption (W)	1080	1100	1350	1080	1100	1350	1080	1100	1350
Power supply	AC220V/110V								
Net Weight(KG)	107	135	158	107	135	158	107.5	136	158.5
Shipping Weight(KG)	132	162	186	132	162	186	133	162.5	188

Shipping	1610×750	1930×	1900×	1610×750	1930×	1900×	1610×	1930×	1900×840
Dimensions	×830	750×890	$840 \times$	×830	750×890	$840 \times$	750×830	750×890	×1080
(H×W×D)			1080			1080			

- All technical data were tested under no-load conditions with an ambient temperature of 25°C, relative humidity of 50% RH, voltage fluctuation of ±10%, and test temperature and humidity set between 10°C and 40°C. The results fully comply with the DIN12880 standard.
- KENTON reserves the right to modify the above technical specifications at any time. Product appearance may vary due to factors such as photography or printing. We appreciate your understanding and reserve the final right of interpretation.

Optional Product Accessories

- 1. Portable printer
- 2. USB interface data recorder
- 3. Gas interface, test hole
- 4. Power supply interface
- 5. ALLSENSTM programmable software
- 6. UV sterilization system
- 7. Chrome-plated or 304 stainless steel shelf



Test hole



ALLSENSTM Software



USB recorder

Meet international standards

Products standard: NSF 49; EN12469

Electrical safety standards: International IEC61010-1 US UL61010-1 EU EN61010-1

KD/KL/KG Drug stability test chamber

• Pharmaceutical Applications:

Ideal for pharmaceutical companies to conduct drug failure evaluations, accelerated testing, and long-term trials. It is designed for pharmaceutical GMP certification and is perfect for stability testing of pharmaceuticals.

• Convenient Testing Features:

Equipped with a test hole and silicone cap on the right side of the chamber, allowing easy access for product testing.

• Standards Compliance:

Complies with requirements of the Chinese Pharmacopoeia, Australia's AS3100, the FDA (USA), EN standards, ICH guidelines, and other relevant standards. Suitable for long-term, accelerated, and forced degradation experiments to test the stability of drugs under controlled temperature, humidity, and light conditions.

• Advanced Control System:

Features balanced dual-mode heating and cooling control to minimize temperature fluctuations. Includes programmable multi-segment control for temperature and humidity, with an LCD touchscreen display. A standard RS485 interface allows connection to multiple devices for real-time monitoring, and the ALLSENS software supports remote control.

• Durable Construction:

Built with a SUS304 stainless steel interior and a KD/KG series built-in humidification water tank. The internal humidification system eliminates the drawbacks of traditional external atomization systems, such as uneven or unstable humidity, while supporting high humidity settings.

• **Pro-Bright Illumination System**:

The KL and KG series are equipped with the Pro-Bright illumination system to simulate natural light. This system uses precise temperature control to offset the heat generated by the light, ensuring consistent temperature conditions.

• Certification and Warranty:

Comes with IQ, OQ, PQ certification services, CE certification, and a 3-year warranty.

ALLCOLD Refrigeration Technology

- ALLCOLD Balanced Refrigeration System: Incorporates the internationally popular ALLCOLD balanced refrigeration technology, featuring automatic defrosting and multi-layer safety protection. Designed for long-term operation, it is equipped with a high-quality compressor for energy efficiency and environmental sustainability.
- Automatic Defrost Function: Utilizes a balanced refrigeration design with advanced rapid heat pump defrosting technology. This allows for continuous, uninterrupted operation by effectively addressing frost buildup caused by prolonged use of the evaporator.
- **Eco-Friendly Refrigerant**: Uses an environmentally friendly refrigerant to promote a cleaner world, save energy, and reduce operating costs.



ALLFLOW Air Current Cycling

- ALLFLOW Air Circulation System: Features optimized forced convection to maximize the number of samples in the working chamber while minimizing temperature recovery time after door openings. Equipped with a world-class axial fan and efficient airflow design to ensure ideal conditions for sample cultivation.
- **Stable Environmental Control**: The ALLFLOW system maintains continuous and stable temperature and humidity levels, creating the perfect environment for consistent and reliable sample cultivation.



ALLSENS Programmable PID Control

- Advanced Programmable Control: Features a programmable segment control system for temperature and humidity, displayed on a crystal-clear touchscreen. Offers Chinese and English language options with all parameters—such as temperature, humidity, cycle, segment count, running time, and status—clearly visible at a glance.
- **Precise Temperature and Humidity Control**: Utilizes an adaptive PID controller to maintain precise temperature and humidity levels, preventing temperature spikes and ensuring stable and uniform conditions in the working chamber.
- **Convenient Monitoring and Connectivity**: Includes a memory menu and a standard RS485 interface, allowing connection to multiple devices for real-time monitoring.
- Optional Remote Control: Supports professional operation through ALLSENSTM software, enabling remote control and advanced functionality via a computer (optional).





Programmable touch screen controller

Efficient Isolation Design

- **Double-Layer Insulation Design**: Incorporates a double-layer insulation structure to reduce power consumption, aligning with energy conservation and environmental protection principles.
- Internal Observation Door: Features an internal isolated door for easy observation of samples without disrupting the working chamber's temperature stability.

Qualified Sensor

- **PT100 Temperature Sensor**: Features a fast response time and minimal self-heating, ensuring accurate and reliable temperature measurements.
- Aerospace-Grade Humidity Sensor: Made from advanced aerospace materials, it offers precise humidity control with no maintenance required.



ALLGENT Humidification System (only for KD and KG)

- **Innovative Humidification System**: Designed to overcome the shortcomings of traditional atomizer systems, ensuring uniform and stable humidity control.
- Automatic Water Management: Features automatic water intake and water level control for precise and consistent humidity regulation.
- **Durable Stainless Steel Design**: The interior and water tank are made of SUS304 stainless steel, ensuring high-quality atomization and long-lasting performance.



Pro-BrightTM Professional Lighting systems (only for KL and KG)

- **Pro-BrightTM Lighting System**: Designed to simulate natural daytime and nighttime lighting conditions, meeting specific testing requirements.
- Heat Compensation: A sophisticated control system effectively compensates for heat generated by the lighting, maintaining a stable temperature inside the chamber.
- **Evenly Distributed Illumination**: Features a three-dimensional lighting source with adjustable brightness, using a stainless steel mirror as a reflective material for enhanced lighting efficiency.
- **Insulated Lighting System**: Double-glazed insulation and ventilation cooling effectively separate the lighting tubes from the chamber, preventing heat transfer.
- ALLIGENTTM Humidification System: Available in the ALLIGENT-KG Comprehensive Drug Stability Test Chamber, offering advanced climate simulation for a variety of testing conditions.



Ergonomic Design

- Classic Laboratory Aesthetics: Features a classical color design and an arc-shaped structure, ensuring maximum operational comfort.
- Integrated User Interface: Equipped with an exterior handle and LCD screen, the ergonomic design offers a comfortable viewing angle and easy access to the door and controls.
- Adjustable Shelving: The number and spacing of mesh shelves are customizable to meet the user's specific needs, maximizing storage capacity.
- **Optimized Vertical Structure**: The vertical layout maximizes the working chamber space, placing the work area at an easily accessible height for convenience.
- **Double-Door Design**: The dual doors allow for easy observation of samples while maintaining stable internal temperature.

Modern manufacturing processes

- **Precision Engineering**: Sheet metal parts are produced using laser cutting and CNC bending technologies to ensure high precision.
- **Corrosion-Resistant Coating**: Cold-rolled steel undergoes a three-step acidification process for rust prevention, and the surface is finished with durable plastic spraying for long-lasting performance.



Easy to Clean

- **Smooth Interior**: The interior features smooth surfaces with minimal welding, making cleaning and maintenance quick and easy.
- **Pull-Out Shelving**: The multilayer shelves are designed with fewer metal components, simplifying the cleaning process.
- Efficient Drainage: A specialized drainage system is integrated into the humidification collection tank, allowing users to discharge water as needed to prevent bacterial growth.

Convenient Maintenance

- Advanced Control System: The liquid crystal micro-computer controller offers diagnostic functions and displays key operating parameters, including historical records, temperature, and humidity data.
- Separate Electrical and Working Areas: Electrical components and the working room are installed separately, with key parts like the refrigeration battery and control output located at the bottom of the incubator for easy access during maintenance.



Secure and Efficient Protection Concept

- **Multiple Over-Temperature Protection**: The system is equipped with multiple over-temperature protection functions, along with sound and light alarms for immediate alerts.
- **UL-Certified Components**: All electronic components used are UL (Underwriters Laboratories) certified, ensuring high safety standards.
- **Compliant with DIN Standards**: All over-temperature protection devices meet the German DIN D12880 Class 3.1 standards, guaranteeing reliable and safe operation.

KENTON APPARATUS LTD.

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

Kenton is a laboratory instrument manufacturer. In 1999, Kenton produced the first batch of 101 series drying oven and launched them on the market. Later, it successively launched incubator, biochemical incubator and other series. In 2005, we obtained ISO: 9001 quality certification, and in 2008-2012, we successively obtained CE certification. In 2013, a new generation of product series was introduced, and its functions and uses were comprehensively upgraded. The liner material was upgraded to SUS 304 stainless steel. In 2011, we expanded the global market, and now our products are sold to Europe, America, Southeast Asia major markets. Kenton manufactures laboratory equipment under our own brand. Our product line includes biological safety cabinets, artificial climate chambers, drying ovens, incubators, high temperature chambers, humidifiers, water baths, industrial air ovens, laminar flow cabinet, biochemical incubators, vacuum ovens, constant temperature and humidity chambers, and light incubators, among other series. The 30,000 sets produced annually are expected to expand at a pace of 20% annually. It has emerged as South China's biggest and most significant equipment manufacturer. The business has launched Kenton Technology Ltd. to concentrate on the development of supporting equipment in the disciplines of biological research and life sciences, in response to changes in worldwide market demand. We increased the new product series, which includes: blood oscillator, anaerobic oven, (Ultra)low temperature refrigerator, non-pipeline clean gas fume hood, sterile isolation cabinet, drug testing safety cabinet, etc., via independent research and development and technical advancement. Numerous scientific research departments, medical preservation, genetic vaccination, and other businesses make extensive use of our goods. In the meanwhile, we have expanded our recognition and support and have sold to Europe, America, Southeast Asia, Australia, the Middle East, and other international markets thanks to consistent investment, research and development, and advancements in workers, equipment, and technology. To supply top-notch goods and services to reputable laboratories and scientific research centers, as well as to mining and industrial companies both domestically and internationally.

https://www.kentonchina.com/

E-mail: kenton@kentonchina.com

Address: No.2, Hualong Rd, Donghua industrial zone, Renhe town, Baiyun district, Guangzhou China

Tel: 86-020-36246586, 36247961, 36246650, 36246651

