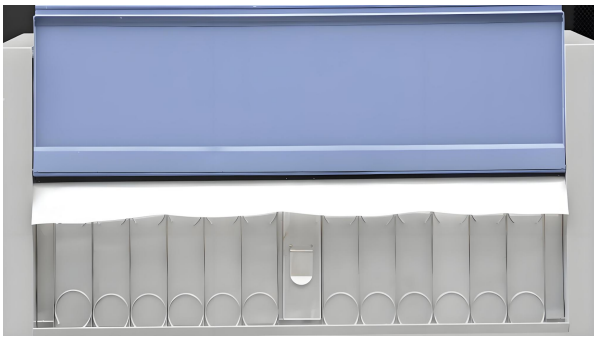
DR-H302
UV Aging Test Chamber(Sloped & Box Styles)

The UV aging test chamber uses UV lamps to simulate the damaging effects of sunlight, especially ultraviolet radiation. It precisely controls temperature and humidity, replicating harsh environmental conditions like tropical heat and high humidity. With adjustable exposure time and intensity, it accelerates material aging, helping to test the durability, colorfastness, and weather resistance of various materials such as plastics, coatings, and rubbers. Widely used in industries, it provides crucial data for product development and quality control, ensuring materials can withstand long - term outdoor exposure. Additionally, its highly intuitive user - friendly interface simplifies operation and data collection, enhancing overall testing efficiency.

FEATURES

- Wide temperature range: ambient +10° C to 70° C.
- High humidity up to 98% RH for dew and rain simulation.
- High-precision UVA/UVB lamps simulate natural UV exposure.
- Offers programmable cycles for customizable testing protocols.
- Provides adjustable irradiance to meet various testing standards.



Q - lab Lamps

The UV aging test chamber with Q-lab lamps ensures accurate UV output and reliable results. Their durability cuts maintenance. The lamps offer uniform light, boosting precision, and meet international standards for credible data in quality - driven material tests.

Energy-efficient design

VRF technology, based on PID+PWM, uses cold control PID for low - temp energy - saving. During cooling and low - temp constant - temp, it adjusts refrigeration for "cold balance" (no cooling while heating and vice versa). This design saves over 30% energy vs traditional mode.

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德瑞检测
DERUI TESTING

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SPECIFICATIONS

Model		DR-H302-T	DR-H302-X
Internal Dimension(W*H*D)mm		450*1170*500	570*1140*500
External Dimension(W*H*D)mm		550*1300*1480	700*1340*1700
Voltage（v）		Single-phase 220 volts	
Performance	Temperature range	RT+10℃~70℃	
	Humidity range	≥90%RH	
	Temperature uniformity	±1℃	
	Temperature fluctuation	±0.5℃	
	Lamp center distance	70mm	
	Lamp	UVA340/UVB313, L=1200/40W, q-lab 8	
	Irradiance	Adjustable within 0.35-1.7W/m2	
	Lamp tube lifespan	>1600h	
	Water depth	25mm automatic control	
	Effective irradiation area	900×210mm	
	Ultraviolet wavelength	UVA range is 320-400nm,UVB range is 290-320nm	
	Test time	0~999H (adjustable)	
	Irradiation blackboard temperature	20℃~90℃	
	Distance between the test product and the center of the lamp：50±3mm		
	The test period of light, condensation and spray can be adjusted		
Structures	Unit material	Inner box 304 stainless steel	
	Sample frame	A stainless steel frame with a base and a viewing plate	
	Irradiation tubes	8 UVA/UVB tubes, with 4 tubes on each of the 2 sides	8 UVA/UVB tubes are located at the top of the inner chamber
	Standard sample rack	24 layers	/
	Standard specimen size	75×290mm	Within the available range of the inner chamber, it supports the testing of non-standard specification samples.
Regulator	Controller	Color touch screen	
	Temperature control mode	PID self-tuning SSR control	
	Cooling Method	Air-cooled/Water-cooled	
Use	Ambient temperature 5℃ ~35℃； Relative humidity ≤85%；Atmospheric pressure 80 KPa ~ 106 KPa；No strong vibration and flammable and explosive atmosphere around.		
For more requirements regarding product dimensions and parameters, customization can be made according to specific requests.			