

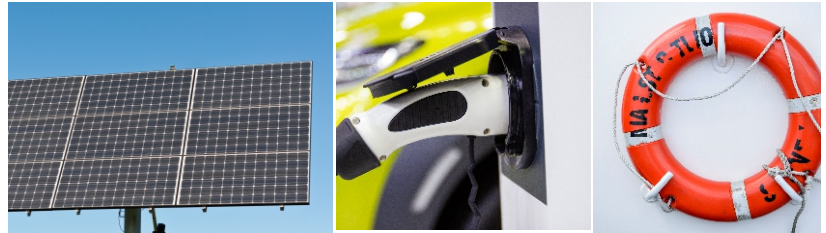


Multifunction UV Weather Tester



Multifunction UV Weather Tester

BEVS 3380 / BEVS 3381 / BEVS 3382 / BEVS 3383



Five core functions

The tester can truly restore many outdoor environmental conditions such as ultraviolet light, rain, high temperature, condensation, darkness, and alternating dry and wet conditions. It adopts high-precision irradiation controllers and a hot air/atomization internal circulation system, making the distribution of irradiance, temperature, and humidity more uniform and stable, effectively helping to quickly assess the durability and stability of components and materials.

● Light

By using UV lamps to simulate ultraviolet light

● Condensation

The water vapor generated by heating maintains 100% humidity in the test chamber at higher temperatures, while the ambient temperature where the instrument is located is relatively low. The water vapor continuously condenses on the surface of the sample to form dew, simulating outdoor humid erosion conditions.

● Water spray

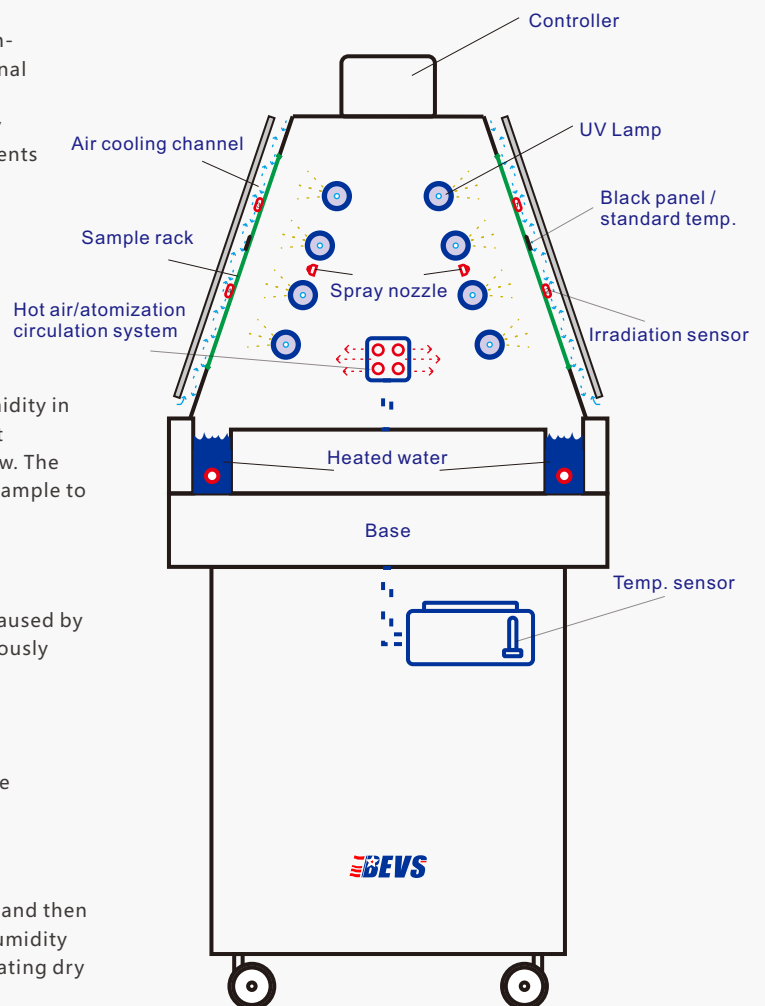
Simulate the thermal shock or mechanical erosion effects caused by temperature fluctuations and rainwater erosion by continuously spraying water onto the sample surface.

● Air heating

Heated air is sent to the test chamber to quickly increase the temperature inside, simulating outdoor high temperatures

● Water vapor humidification

When necessary to adjust the humidity, the atomizer starts and then transmits the mist to the chamber, quickly increasing the humidity inside the chamber, simulating rain and fog weather, alternating dry and wet conditions, and other effects.





Numerous functions

The five core functions are more diverse compared to similar products, and each functional unit can be independently controlled.

Extra big touch panel

Using a 10 inch touch screen control, the test parameters, curves, and alarm information displayed in real-time.

Uniform distribution of irradiance

Adopting advanced irradiance controller, with high accuracy and stable performance; A reasonable spatial layout ensures a good uniform distribution of irradiance.

Flexible control of temperature and humidity

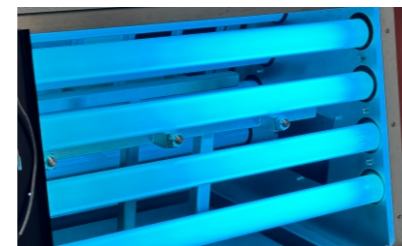
The newly upgraded air duct system provides air and accurately controls the temperature and humidity.

Safe running

Equipped with alarm protection functions: door lock safety protection, over temperature protection, low water level warning, leakage protection, heating overload protection.

UV Lamp

The tester adopts a professional UV series lamp tube with sufficient UV power and low failure rate. The light source can choose UVA (wavelength 340nm) or UVB (wavelength 313nm). UVA-340 lamp simulates the medium to short wavelength range of the ultraviolet part of sunlight, and are generally used for outdoor product aging tests. The emission spectrum energy of UVB-313 lamp tubes is mainly concentrated below 300nm and is widely used for accelerating durability testing of materials, or qualitative comparison of two or more materials.



Function unit



Irradiance
Fully automatic control, supporting calibration and traceability



Temp.
Auto control the temp. of the chamber and sample rack, displayed in real-time



Humidity
Auto control in the chamber and displayed in real-time



Black panel temperature
Auto control the temp.



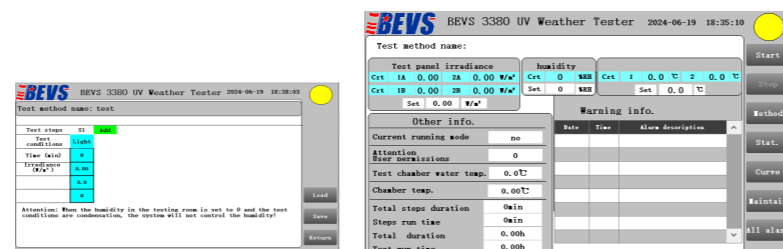
Condensation
independent control



Water spray
Independent control, adjustable water volume

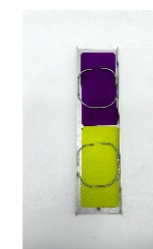
Control system

- Friendly UI and simple programming
- Allow 20 tests to be saved, with 10 steps per test
- Automatic transmission of irradiance correction values without manual input
- Structural optimization and stable running



UI

Simple installation



Step 1: Place the panel



Step 2: Install the sample rack



Done

Technical info.

Total power	2kw	Model	BEVS 3380	BEVS 3381	BEVS 3382	BEVS 3383
Light source	UVA-340 / UVB-313	Name	Multifunction UV Weather Tester			Condensation test chamber
Lamp No.	40W x 8	Light	●	●	●	—
Rated life of lamp	2000h	Condensation	●	●	●	●
Irradiance range	UVA-340: 0.3W/m ² ~1.1W/m ² UVB-313: 0.3W/m ² ~1.35W/m ²	Water spray	●	●	●	—
Black panel temp.	Ambient +5°C-80°C, ±2°C	Irradiance control	●	●	—	—
Humidity range	15%-95%, ±5%	Black panel temp. control	●	●	●	—
Exposure area	5175cm ² /828in ²	Temp. display	●	●	—	●
Sample rack No.	24	Temp. control	—	—	—	●
Panel capacity	48 x (150mm x 70mm)	Humidity display	●	●	—	●
Outer Size	140cm x 50cm x 138cm	Humidity control	●	—	—	●
Weight	Approx. 170KG	Auto fault identify	●	●	●	●
Power supply	220V±10V, 50HZ, 10A	USB port	●	●	●	●
Water supply	Deionized water or distilled water Pressure: 0.2-0.3MPa	Water purifier	●	●	●	●
		Irradiance calibrator	●	●	●	●
		3D sample rack	●	●	●	●

● Standard comes with
 ● Optional
 — Not available

Standard

ASTM	D4329	GB/T	14522
	D4587		23983
	D5208		23987
	D5894		16422.3
	G151	EN	927-6
	G154		12224
ISO	11507		13523-10
	EN4892-1	SAE	J2020
	EN4892-3		

Global Network



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