

# UV Test Chamber



## Test Chamber [ Application ]

UV test chamber is equipped with fluorescent UV lamp which can simulate the UV spectra of sunlight, exposes materials to alternating cycles of UV light, moisture and temperature at controlled.

It simulates dew and rain with condensing humidity and/or water spray.

## Test Chamber [ Standard Features ]

- Fluorescent UV lamps (8) - 40 W
- Black Panel Temperature (BPT) at controlled, BPT 30~70°C
- Temperature from Ambient to 90°C
- Spraying water, automatic water supply
- Water reservoir 50 Liter
- Can hold 48 pieces of specimens
- Programmable color display touch screen controller
- Safety protection system
- Easy to mount samples on the holders
- CE and RoHS compliance

## Test Chamber [ Technical Parameter ]

Model	UV-260	UV-SI-260
Internal dimensions (mm) - D*W*H	450*1170*500	450*1170*500
Overall dimensions (mm) - D*W*H	680*1300*1500	680*1300*1500
Capacity of test specimens	48 pieces Individual specimen size is 75mm *150mm	48 pieces Individual specimen size is 75mm *150mm
Controller	Programmable color display touch screen controller Ethernet interface, PC link	Programmable color display touch screen controller Ethernet interface, PC link
Temperature range	Ambient~90°C ±2°C	Ambient~90°C ±2°C
Humidity range	≥95%R.H ±2%R.H	≥95%R.H ±2%R.H
Black Panel Temperature	30~80°C	30~80°C
Irradiation Source	Fluorescent UVA-340 lamps (8) - 40 W	Fluorescent UVA-340 lamps (8) - 40 W
UV wavelength	290 ~ 400nm	290 ~ 400nm
Irradiance Control	N/M	0.3 ~ 20 W/m <sup>2</sup>
Water Spray	Spraying water	Spraying water
Distance of Specimen and lamp	50mm	50mm
Nominal power	5500W	5500W
Power Supply	380V 50HZ	380V 50HZ

## Test Chamber [ Design and Construction ]

### ● Irradiation Source - UV Lamp

Equipped with 8 pieces of fluorescent UV lamps, which is air-cooled

Each UV Lamp Power is 40W.

UV lamp service life is 1200hours.

Lamp length: 1160mm



### ● Specimen Holders

Flat Specimen Holders, aluminum panels with rings.

Each specimen size is 75mm \* 150mm, can hold 48 pieces of specimens.

Option: Special Specimen Holder

Customize special holder according to different specimens.

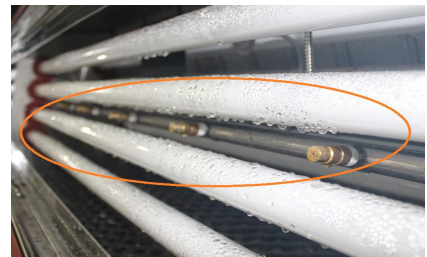


### ● Spraying Water

Total 10 water spray nozzles, 5 nozzles each side.

Automatic water supply.

Water reservoir is 50 Liter.



### ● Sensors

UV Irradiance Radiometer

Temperature sensor: PT-100 A class

Humidity sensor: Dry and wet bulb sensors

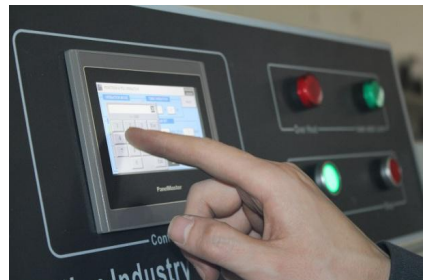
### ● Control Panel

Programmable color display touch screen controller

Measure and display temperature, humidity, water spraying,

black panel temperature and irradiance.

Show status and working time of 8 UV lamps.



### ● Safety Protection

Humidifier dry-combustion protection

Over-temperature protection

Water shortage protection

Over-current protection

Earth leakage protection

### ● Power Supply and Wiring

380V, 50 Hz 10% +/- Three-phase five little system