UV aging test chamber
General standard

- ISO 4892-1 Plastic-Methods of exposure to laboratory light sources
- ASTM G-151 Standard Test Method for non metallic materials exposed to accelerated test equipment using laboratory light sources
- ASTM G-154 Test Methods for non-metallic materials exposed to the UV fluorescence device
- British Standard BS 2781:Part5 Test Methods 540B (Methods of exposure to laboratory light sources)
- SAE J2020 Using fluorescent UV / condensation equipment for automotive exposure test
- JIS D 0205 Burn-in test method of auto parts (Japan)
<table>
<thead>
<tr>
<th>Model</th>
<th>SM-UV600-C</th>
<th>SM-UV800-C</th>
</tr>
</thead>
<tbody>
<tr>
<td>Inner Dimension</td>
<td>W1100 × H500 mm</td>
<td>W1200 × H600 × D450 mm</td>
</tr>
<tr>
<td>Application Area</td>
<td>Simulate sunlight, dew on materials and products cause harm test, widely used for weather-resistant properties of the material</td>
<td></td>
</tr>
<tr>
<td>Standard</td>
<td>GB/T 16422.3, GB/T5170.9</td>
<td></td>
</tr>
<tr>
<td>Performance</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Temperature range</td>
<td>Room temperature +10°C~+70°C</td>
<td></td>
</tr>
<tr>
<td>Temperature fluctuation</td>
<td>≤±0.5°C</td>
<td></td>
</tr>
<tr>
<td>Humidity Range</td>
<td>95%~100%RH</td>
<td></td>
</tr>
<tr>
<td>Outer Dimensions</td>
<td>500×1300×1480 mm</td>
<td></td>
</tr>
<tr>
<td>Ambient temperature of using</td>
<td>50°C~35°C</td>
<td></td>
</tr>
<tr>
<td>Light source</td>
<td>lamp Purple and outside light of UV-A/B</td>
<td></td>
</tr>
<tr>
<td>Light source wavelength</td>
<td>280-400nm</td>
<td></td>
</tr>
<tr>
<td>Size of test shelf</td>
<td>150×75×1.5mm</td>
<td></td>
</tr>
<tr>
<td>Distance between test sample and tube center</td>
<td>50mm±2mm</td>
<td></td>
</tr>
<tr>
<td>Distance between tube and centre tube</td>
<td>70mm±2mm</td>
<td></td>
</tr>
<tr>
<td>Material</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Test Area</td>
<td>Advanced brushed stainless steel</td>
<td></td>
</tr>
<tr>
<td>Outer Box</td>
<td>Advanced brushed stainless steel</td>
<td></td>
</tr>
<tr>
<td>Heating humidifier</td>
<td>Electric heating, thermal and steam humidification</td>
<td></td>
</tr>
<tr>
<td>Operation Interface</td>
<td>Digital smart touch key input (programmable)</td>
<td></td>
</tr>
<tr>
<td>Operation mode</td>
<td>Program control / constant operation</td>
<td></td>
</tr>
<tr>
<td>Setting range</td>
<td>According to temperature range</td>
<td></td>
</tr>
<tr>
<td>Input</td>
<td>Blackboard thermometer PT 100 sensor</td>
<td></td>
</tr>
<tr>
<td>Additional Function</td>
<td>Upper and lower alarm, alarm display, timer function</td>
<td></td>
</tr>
<tr>
<td>Standard configuration</td>
<td>28 pcs of stainless steel sample holder</td>
<td></td>
</tr>
<tr>
<td>Safety Device</td>
<td>Leakage, overload protection, water shortage, over temperature protection, grounding protection</td>
<td></td>
</tr>
<tr>
<td>Power supply</td>
<td>220V ±10% 50HZ</td>
<td></td>
</tr>
<tr>
<td>Power(kw)</td>
<td>3</td>
<td></td>
</tr>
</tbody>
</table>
1. When running a test program, the operator sets an irradiance, and each sensor's set value will be displayed on the panel.

2. The UV sensor is built to measure the emission of the light tube, and the value is sent to the solar radiation controller.

3. Each sensor of the controller displays the real irradiance on the operation panel.

4. The controller compares the true irradiance and the set value, and adjusts the lamp output.

**Section diagram of QUV running the condensation cycle**

- Indoor cooling air
- UV lamp
- Spray nozzle
- Test sample
- Test door can turn upward
- Oxygen vent
- Water heater
- Test sample
- Steam
- Heated water
- Base
By Industry

Paint and ink, paint, resins, plastics, printing and packaging, aluminum, adhesives, auto industry, cosmetics, metals, electronics, electroplating and pharmaceutical etc.

Auto & motorcycle industry

Cosmetics, pharmaceutical

Print category

Electronics, energy

Resin adhesive

Inks, coatings

Plastics, textiles

Metal, electroplating and other
Specialized environmental chamber manufacturers

**Control System**

Easy to operate user interface, five optional languages, including English, French, Spanish, Italian or German

**Sample placement**

QUV tester can easily accommodate up to 48 samples (75mm x 150mm), fully in line with international, national and industry standards, to ensure that the test program reliability and reproducibility

**UV lamp**

The UV lamp using ATLAS, spectral power distribution (SPD) will not change with lamp aging and longer life

**Sample holder**

Standard sample holder can be adjusted to any thickness, test samples no need to cut to accommodate close range.

**Operating panel**

According to user needs, set different lighting conditions

**Outfall at**

The bottom of the device is provided with drain cleaning tank to facilitate the drainage

**Imported way**

External material is made of 1.5mm thick 316# stainless steel

**Production Material**

External material is made of 1.5mm thick 316# stainless steel
The Experience you Rely on...

Sanwood Environmental Chambers was established in 1995, which integrated Taiwan and Japan technologies. We have been focus on the most secure and reliable climatic test chamber technology since established. And has become a private science and technology enterprises in Dongguan, Guangdong Province, which passed the ISO9001:2008 quality system certification.

Our products upgrade constantly and our customers come portable batteries, power batteries, battery, lithium batteries, lead-acid, new energy vehicles, electric bicycles, electric tools, electric systems, solar, military, universities research and other technology industries fields.

Having experienced nearly 20 years efforts, we have successfully developed a series of products:

- dust test box
- vibration table
- rain test chamber
- ozone test box
- xenon lamp test chamber
- high temperature oven
- seawater immersion box
- high and low temperature rate step chamber
- an explosion-proof type temperature test box
- walk-in temperature and humidity chamber
- weather resistance test chamber
- battery thermal abuse test box
- explosion-proof type hot box
- Temperature & Humidity & Vibration integrated test chamber
- humidity test box
- vibration table
- rain test chamber
- ozone test box
- xenon lamp test chamber
- high temperature oven
- seawater immersion box

All of products meet GB31241, IE62133, QCT/743, UN38.3, UL2054 Standard. And we have had a good cooperation with ATL, Sony, Sunwoda, Desay, Samsung, BYD, Toyota, Yutong Bus, Nissan, Guangdong Province entry-exit, Tsinghua University, Henan University, Chinese Academy of Sciences, Central South University Successively.

Enterprise vision:

Sanwood Technology has established a large production base in Dongguan after many years efforts. The plant area reached more than 12000 square meters. The foreign trade branch and foreign service agencies were established in 2010. And branches successively established in Taiwan, Suzhou, Hunan, Hubei, Beijing, Henan. Excellent products and good after-sales service make us won the recognition and trust of customers. Products are exported to more than 30 countries, such as Russia, Singapore, the United States, Turkey, Denmark, Vietnam, India, Malaysia, Kazakhstan, Austria, Canada, etc. In the age with fierce competitions, Sanwood thrived little by little and aims to become the leading brand in the safety and reliability environmental test