

## UV Test Chambers

Sonacme Technology Tower UV Accelerated Aging Tester can reproduce the damage caused by sunlight, rain and dew. The aging effects of months or even years outdoors can be reproduced in days or weeks. Testing was performed in alternating cycles of UV light and humidity by exposing the material to higher temperature-controlled conditions. Simulate sunlight with fluorescent UV lamps, dew and rain by means of condensation or/and water spray.

## UV And Sunlight Simulation

Ultraviolet light is the main factor responsible for photodegradation of outdoor products. SONACME Technology's fluorescent UV lamps can simulate the most important short-wave UV light in sunlight and reproduce the aging of the physical properties of materials caused by light. There are several different UV lamps to choose from, depending on the test conditions.



## Parameter

Model	ST/UV/A
Light Source	UV-A (wavelength 340nm) or UV-B (wavelength 313nm) ; 40W×8
Lamp Rated Life	Normal Service Life 6000 hours
Irradiance Setting Range	0.3 W/m <sup>2</sup> ~ 1.55 W/m <sup>2</sup>
Black Panel Temperature Setting Range	Chamber Temperature +10°C ~ 80°C
Maximum Rated Power	2 KW
Internal/External Shell Material	All stainless steel plate 304 / all stainless steel material surface spray, never rust
Exposure Area	5175cm <sup>2</sup> /828in <sup>2</sup>
Standard Template	24 standard sample racks (48 pieces of 150×70mm templates can be put in at one time)
Water Supply Adjustment Range	0-4 LPM
Water Consumption	7L/day (Water for condensation) ; 3L/minute (Spray Water)
Power Supply	220V, 50Hz (60Hz can be customized) , Maximum current 10A
External Dimensions	1360mm×560mm×1290mm (length x width x height)

## Standard

Sonacme Technology Tower UV Test Chamber complies with the specifications of almost all major international, national and industry test standards, including the following standards. For a more comprehensive list of standards, please contact us.

- ISO 11507 "Artificial Weathering Exposure of Paints and Varnishes Coatings Exposure to Fluorescent Ultraviolet Light and Water"
- ISO EN 4892-3 "Plastics. Methods of exposure to laboratory light sources. Part 3: UV fluorescent lamps"
- GB/T 14522 "Artificial climate accelerated test method for plastics, coatings and rubber materials for machinery industry products"
- GB/T 23983 "Determination of yellowing resistance of wood coatings"
- GB/T 23987 "Artificial Weathering Exposure of Paints and Varnishes Coatings Exposure to Fluorescent Ultraviolet Light and Water"
- GB/T 16422.3 "Exposure method of plastic laboratory light source test: Part 3: Fluorescent ultraviolet lamp"
- ASTM D4587 "Conducting Fluorescent UV Condensation Exposure Tests for Paints and Related Coatings"
- ASTM D5894 Painted Metals