

Minimum required specification for Accelerated Weathering Chamber:

1. The accelerated weathering chamber shall:
 - a. Be capable of housing a minimum of 45- 3" x 6" samples.
 - i. There shall be enough sample housing components to hold a minimum of 90 samples such that an entire collection of samples can be mounted on sample holders while another set is being tested.
 - b. Be capable of UV-test cycles, condensation cycles, and spray cycles.
 - c. Be capable of controlled condensation cycle testing using ordinary tap water.
 - d. Be capable of controlled temperature variation from 45 to 80 °C.
 - e. Be capable of automated recalibration.
 - f. Include a water re-purification system incorporating a resistivity meter and an autofill system automatically refilling the purified water reservoir.
 - g. Have a continuous display of test conditions and test progress.
 - h. Include a calibration radiometer capable of detecting changes in lamp intensity and compensating the cycle time to maintain uniform radiance over the life of the test.
 - i. Automatically restart in the event of a power outage.
 - j. Include a water flow switch to automatically stop test cycles if water flow is interrupted.
 - k. Include a self-diagnostic controller with warning messages, service reminders, and safety shutdown capabilities.
 - l. Come equipped with safety interlocks preventing exposure of users to high voltage current.
 - m. Factory calibration
2. Lamps for the chamber shall be designed for testing exterior coatings with significant irradiance in the UV and an irradiance maximum of approximately 290-320 nm.
3. The vendor shall provide on-site training for the operation of the instrument.