



Moisture

Moisture Controlled

EMMA[®], EMMAQUA[®], and EMMAQUA with Nighttime Wetting

Advantages

- Customization of spray cycles at varying frequency and duration to meet specific material needs
- Ability to overcome "lensing" and thermal shock effects of wetting specimens in concentrated sunlight
- Fine tuning of ratios of light dose to wet time to more closely simulate end use conditions and/or accelerated degradation rates
- Design of custom wetting cycles to accommodate different water absorption rates for different materials

How it works

- Customers define the frequency and duration of water spray in a 24-hour period for material exposure and whether water spray is applied with or without concentrated natural sunlight
- The target area rotates out of the concentrated sunlight prior to spraying the specimens
- Blown air cools test specimens to ambient temperatures
- Specimens are sprayed with ultra-pure water for a customized length of time
- The programmable logic controller rotates the test samples back into focus at the end of the water spray cycle
- A radiometric-tracking algorithm automatically accounts for the correct radiant exposure specimens receive as they cycle in and out of concentrated sunlight

