

# SX75

7.5-kW Super Xenon Weather Meter

*High irradiance test of 180 W/m<sup>2</sup>  
(Three times of solar ultraviolet)  
meet customers' demand.*



Simulating outdoor and indoor environments such as sunlight, temperature, humidity, rain and dews, SX75 accelerates degradation of materials exposed to those factors. SX75 allows users to estimate material life in a short time. Suga-specific 7.5-kW water-cooled xenon arc lamp, used as the light source, simulates sunlight at irradiance of 180 W/m<sup>2</sup>, three times higher than that of solar ultraviolet (approx. 60 W/m<sup>2</sup>.) SX75 enables high irradiance tests for the first time in the world. This model contributes to saving test time and costs for customers' needs. With excellent correlation with outdoor exposure and acceleration, SX75 is widely used in various industries, especially automobile, paint, plastics, rubber, metal, construction, textile and digital colour printing.

## Specification of SX75

|                                |   |
|--------------------------------|---|
| Light source                   | One 7.5-kW water-cooled xenon arc lamp  |
| Test types                     | Light only, Light & Spray on front face (Rain), Dark only, Dark & Spray on back face (Dew), Dark & Spray on both faces  |
| Irradiance                     | 60 W/m <sup>2</sup> to 180 W/m <sup>2</sup> at 300 nm to 400 nm<br>(Quartz inner filter and #295 outer filter)  |
| Temperature and humidity range | Light test: 50 °C to 95 °C ± 1 °C of black panel temperature (BPT),<br>Where the ranges vary depending on irradiance.<br>40 %rh to 60 %rh ± 5 %rh (at 63 °C of BPT and 180 W/m <sup>2</sup> )<br>Dark test: 38 °C ± 1 °C of chamber temperature (CT),<br>95 %rh ± 5 %rh |
| Quantity of specimen           | Maximum 54 pieces (Specimen size: 150 mm × 70 mm, 1 mm thick)   |
| Electrical requirements        | Three-phase, 200 V, approx. 74 A  |
| External dimension             | Approx. Width 105 cm, Depth 156 cm, and Height 201 cm<br>(Weight: approx. 570 kg)   |
| Related standards              | ISO, ASTM, SAE, JIS, and JASO (subject to different accessories)<br>Simultaneous BPT and CT control (SAE) available.  |



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