

SX-MV-2D

Super Xenon-Metaling Weather Meter
with two independent chambers

*Two independent chambers
enable combination of
different light sources.*



SX-MV-2D uses a vertical metaling lamp and a xenon arc lamp respectively in the right and left chambers of the main unit, allowing for different tests to be done simultaneously. Both chambers are capable of independent operation.

* metaling lamp is the name of the metal halide lamp developed exclusively by Suga.

Specification of SX-MV-2D

| | | |
|--------------------------------|--|--|
| Chamber | Left: Metaling Vertical Weather Meter (MV3000) | Right: Super Xenon Weather Meter (SX75) |
| Light source | One 3-kW vertical metaling lamp | 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) | Light only, Light & Spray on front face (Rain), Dark only, Dark & Spray on back face (Dew), Dark & Spray on both faces |
| Irradiance | 530 W/m ² at 300 nm to 400 nm (Filter requirement example: quartz inner (indirect water-cooled) filter and #255 outer filter) | 60 W/m ² to 180 W/m ² at 300 nm to 400 nm (Filter requirement example: quartz inner filter and #295 outer filter) |
| Temperature and humidity range | Light test : 63 °C to 85 °C ± 1 °C of black panel temperature (BPT) ; 50 %rh ± 5 %rh (at 63 °C of BPT) | Light test : 50 °C to 95 °C ± 1 °C of BPT (depending on the level of irradiance) ; 50 %rh to 60 %rh ± 5 %rh (at 63 °C of BPT and 180 W/m ²) |
| | Dark test : 30 °C to 50 °C ± 1 °C of chamber temperature(CT) ; 95 %rh ± 5 %rh (at 38 °C of CT) | |
| Quantity of specimen | Maximum 15 pieces (Specimen size: 150 mm × 70 mm, 1 mm thick) | Maximum 54 pieces (Specimen size: 150 mm × 70 mm, 1 mm thick) |
| Electrical requirements | Three-phase, 200 V, approx. 63 A | Three-phase, 200 V, approx. 74 A |
| External dimension | Approx. Width 167 cm, Depth 203 cm, and Height 201 cm (Weight: approx. 1200 kg) | |
| Related standards | N/A | ISO, ASTM, SAE, JIS, and JASO (subject to different accessories) Simultaneous BPT and CT control (SAE) available. |

* Another available model is SX-S80-2D comprising super xenon and sunshine weather meters.

* The design and the specification of this product may change without notice for improvement.



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