

Weatherometer

Specification

S. No.	Technical specification	Remarks (tolerance)
1.	The weatherometer should have a xenon arc, air/water cooled, and rotating rack type at their own axis/static type, Xenon arc lamp as light source having an emission spectrum close to solar radiation. The lamp/s with total power of 4000 Watt or better, to provide the required radiation levels will be preferred.	
2.	Life of lamps > 1500 hours	
3.	Cooling of the chamber by air/water	
4.	Automatic Control, Inbuilt radiometer for measuring and controlling high irradiance up to 100 W/m ² (300-400 nm range) or better	± 1 W/m ²
5.	Automatic control of irradiance, Black panel/ Standard temperature (BPT/BST), Chamber temperature (CHT), and relative humidity (RH)	
6.	Irradiance at test specimen surface shall not vary more than 10% comparing any two specimens at different position	
7.	Chamber temperature range – Ambient to 60°C or better	± 2°C, Max.
8.	Black panel/ standard temperature range – Ambient to 85°C or better	± 2°C, Max.
9.	The highly efficient ultrasonic humidifiers to provide humidity levels up to RH 65% or better and linked to an integrated water reservoir of min. 50 litre capacity for humidity control and specimen spray (automatic refill)	± 5%, Max.
10.	Rotating specimen rack at its own axis should be adjustable/static specimen rack and specimen holder capable for handling following size: Min. size - 200 x 70 mm , Qty. - Min. 15 pcs	
11.	A dynamic memory should offer 10 freely programmable and at least 6 pre-programmed weathering test programs, each with up to min. 6 test cycles/steps	
12.	Should be able to carry out exposure as per the following test standards: ASTM G155 ISO 4892 Part 1 or 2	
13.	A filter system for daylight and behind window glass.	
14.	Diagnostic program for trouble shooting with touch screen color display with online networking features	
15.	Microprocessor based control of all test parameters	
16.	Services should be ISO 17025 accredited. Calibration certificate to be produced by the OEM/Authorized Dealer as per ISO 17025, upon completion of commissioning of the equipment.	
17.	Warranty Period : 1 yr. ;	

Accessories

	Xenon lamps – 2 Sets
	Filter – One set each
	Servo stabilizer – 40 KVA , 3 Phase