

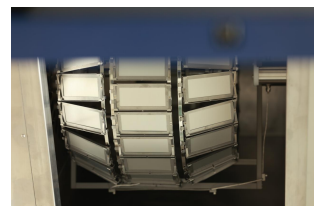


Xenon Test Chamber

XD-21-862 is a multi-function big xenon light accelerated weathering testers which is equipped with one piece high power (6.5KW) water-cooling xenon lamp, its exposure area arrive 6,500cm²

Powerful functions and reliable test results

- ◆ Meet with all international standards of xenon test.
- ◆ Equipped with ATLAS xenon arc lamp , filter and components, ensure to get high and same running parameters. Test results have a good reliability and repeatability comparing with import machines.
- ◆ Automatic rotating drum-type sample rack with three floors structure maximizes exposure uniformity over all specimens
- ◆ 6,500cm² exposure area , can hold different shapes and sizes samples.
- ◆ Can set the cumulative energy (total irradiance energy) obtained by sample to finish a test procedure.
- ◆ Advanced cooling system for xenon lamp and intelligent air system.
- ◆ Chinese or English operation window



**MODERN
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Technical Specification

Type	Xenon Test Chamber
Name	XD-21-862
Xenon Lamp	6.5 KW water cooling long arc xenon lamp
Light Filter	Import originally from ATLAS, can simulate indoor or outdoor sunshine spectrum
Exposure Area	6,500 cm2 (63-65 pcs standard samples of 15cm×7cm size)
Monitoring Method to Irradiance	340nm、420nm、300nm~400nm、300nm~800nm
Lifetime of lamps	2000 hours
Adjustable Range of Working room	RT~70°C (Dark)
Adjustable Range of BPT	RT~110°C
Adjustable Range of BST	RT~120°C
Temperature Stability	±1°C
Temperature Uniformity	≤2°C
Temperature Deviation	≤±1°C
Adjustable Humidity	Light: 10%-75% Dark: 10%-95%
Rotate speed of sample	1 r/min (circle as lamp centre)
Spray Function	Can set spray continuous time and spray period
Water Demands	High purity deionized water (Conductivity<2us/cm)
Compressed Air	Clean, oilless compressed air with 0.5MPa pressure, Max. air supply is near 60L/min. Average air consumption is 10L/min ~ 30L/min (Depends on testing standard)
Deionized Water Consumption (24h)	300L ~ 400L (When running ISO 16474-2 Cycle No.1)
Power Supply	AC380V±10%, Three-phase four-wire 50Hz; Max. Current 50A, Max. Power 9.5KW
Overall Size	1220mm×1200mm×1970mm (L×W×H)
Net Weight	500KG



Technical Specification

Structure

Cabinet Material	Working room is made up of high quality stainless steel (SUS316)
Chamber Door	Simple door to left with filter window; silicon rubber seal the door edge
Sample Holder	Stainless steel material, its position in the chamber can be adjusted (up, middle or down) , Sample crack rotate around the centre of lamp
Controller	Siemens programmable controller. LCD touch-screen
Way of adding humidity	Add humidity by high pressure aerosol
Thermometer	Heat insulate type black standard thermometer and black panel thermometer
Cooling System	Cooled by compressor and forced-air blast system

Security Protections And Error Protections

Xenon Lamp Protection	Over temperature of cooling water, low flow of cooling water, abnormal of lamp power
Alarm Function	Big irradiance difference, over-temperature of BPT or BST or Working room, big error of humidity, spraying water shortage, pure water conductivity is over limits. Operator can set these values and downtime
Cooling-water System Protect	Monitor the conductivity of cooling-water at real-time
Protection to Radiation	Xenon lamp will turn off automatically when opening the chamber door, in case xenon lamp radiate operator

Installing Environment Requirement

Site Requirement	Net area of installation site $\geq 12\text{m}^2$; Net height $\geq 2.8\text{m}$. Equipped with separate air condition which can ensure a $22^{\circ}\text{C} \sim 30^{\circ}\text{C}$ & $30\% \sim 80\%$ environment permanently. No strong electromagnetic fields, no high concentration dust, no corrosive gas or flammable materials.
Power Source	$380\text{V} \pm 10\%$ 3-phases; 50Hz; 50A power source; Equipped with circuit, ground wire and air circuit breaker.
Air Outlet	There should be air outlet (Distance to chamber $\leq 1.0\text{m}$, height to ground is $2.5\text{m} \sim 2.7\text{m}$, diameter should be 153mm)
Water Supply	Equipped with water supply pipes and valves, Supply water pressure $\geq 2.0\text{kg/cm}^2$; conductivity $\leq 120\text{us/cm}$
Drainage	Draining pipes diameter $\geq 50\text{mm}$, height to ground $\leq 10\text{cm}$, distance to chamber $\leq 0.5\text{m}$



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