

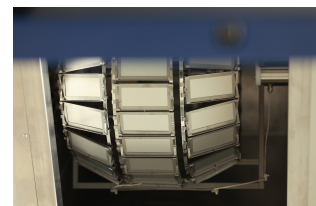


Xenon Test Chamber

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



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INSTRUMENTS**



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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 cm ² (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) |
| Flow of Deionized Water | 0.2L/min (Add humidity or spray) |
| 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 |



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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 |
| Pure System Protect | Monitor the conductivity of pure water at real-time (Once the conductivity $\geq 2\mu\text{s}/\text{cm}$, the machine will stop and alarm) |
| 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 $\geq 2.0\text{kg}/\text{cm}^2$; conductivity $\leq 120\mu\text{s}/\text{cm}$ |
| 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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