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QUALITEST™

XENON ARC TEST CHAMBER - QUALIXENON™ 300 (NEW)



STANDARDS

ASTM D3451
ASTM D3794
ASTM D4303
ASTM D5010
ASTM D6577
ASTM D6695
ASTM G151
ASTM G155
ISO 11341
ISO 12040
ISO 16474-1
ISO 16474-2
ISO 4892-1
ISO 4892-2
SAE J2412
SAE J2527

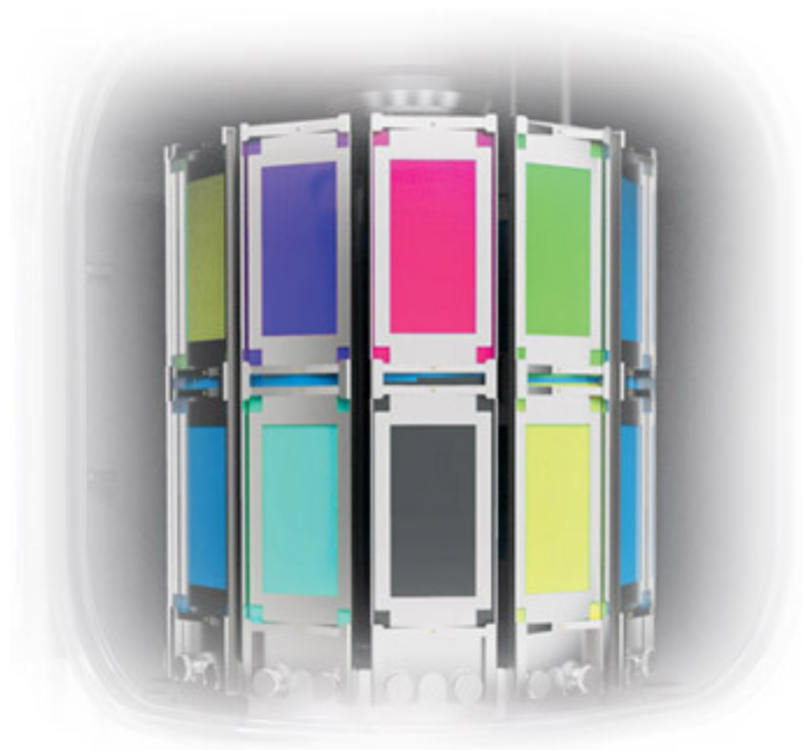
The QualiXenon™ 300 Xenon Test Chamber is a powerful, cost-effective solution that is both easy to use and maintain. It features an air-cooled xenon lamp and a daylight filter to simulate the full spectrum of outdoor sunlight more realistically and effectively, ensuring that laboratory test results correlate perfectly with outdoor applications. Additionally, the sample holder's unique rotating drum design guarantees uniform irradiance for each sample throughout the entire test.

APPLICATIONS

Xenon Arc Test Chamber - QualiXenon™ 300 (New)



The QualiXenon™ 300 Xenon Test Chamber meets all standard requirements across various fields. It can accommodate 22 samples and is equipped with a spray function as well as the ability to control the relative humidity of the working room. Operators can easily set all necessary test parameters (irradiance, test time, BPT, BST, etc.) through the touchscreen interface and monitor the chamber's status in real-time. All running parameters can be directly exported to a computer via the USB interface.



Test Standards

- **ISO 11341** ☐ Paints and varnishes-Artificial weathering and exposure to artificial radiation--Exposure to filtered xenon-arc radiation☐
- **ISO 12040** ☐ Graphic Technology - Prints and Printing Inks - Assessment of Light Fastness Using Filtered Xenon Arc Light ☐
- **ISO 16474-1** ☐ Paints and varnishes -- Methods of exposure to laboratory light sources -- Part 1: General guidance☐
- **ISO 16474-2** ☐ Paints and varnishes -- Methods of exposure to laboratory light sources -- Part 2: Xenon-arc lamps☐
- **ASTM D3451** ☐ Standard Guide for Testing Coating Powders and Powder Coatings☐
- **ASTM D3794**☐ Standard Guide for Testing Coil Coatings☐
- **ASTM D4303** ☐ Standard Test Methods for Lightfastness of Pigments Used in Artists' Paints☐
- **ASTM D5010** ☐ Standard Guide for Testing Printing Inks and Related Materials☐
- **ASTM D6577** ☐ Standard Guide for Testing Industrial Protective Coatings☐
- **ASTM D6695** ☐ Standard Practice for Xenon-Arc Exposures of Paint and Related Coatings☐
- **ASTM G151**☐ Standard Practice for Exposing Non-metallic Materials in Accelerated Test Devices that Use Laboratory Light Sources☐
- **ASTM G155**☐ Practice for Operating Xenon Arc Light Apparatus for Exposure of Non-Metallic Materials☐
- **ISO 4892-1** ☐ Plastics – Methods of Exposure to Laboratory Light Sources – Part 1: General guidance☐
- **ISO 4892-2**☐ Plastics - Methods of Exposure to Laboratory Light Sources - Part 2: Xenon-arc lamps☐
- **SAE J2412** ☐ Accelerated Exposure of Automotive Interior Trim Components Using a Controlled Irradiance Xenon-Arc Apparatus☐
- **SAE J2527** ☐ Accelerated Exposure of Automotive Exterior Materials Using a Controlled Irradiance Xenon-Arc Apparatus ☐



Optional Accessories

FEATURES

Features of QualiXenon™ 300 Xenon Test Chamber

- US-made Xenon lamps ensure excellent repeatability and comparability of test results.
- The special rotating-drum design for the sample holder ensures uniform irradiance for each sample throughout the test.
- Precise control over irradiance energy is possible thanks to the "Closed-Loop" control system, which automatically compensates for any changes in light intensity due to aging or other factors.
- Options to select narrow band (at 340nm or at 420nm) or broad band (from 300nm to 400nm or from 300nm to 800nm) for irradiance control.
- Affordable air-cooled xenon lamp with a lifespan of up to 1,500 hours.
- Three different filters (Daylight, Window glass, Extended UV) are available to meet various testing requirements.

- Freely programmable test procedures, with the ability to set 10 programs and save 6 pre-determined programs at once. Each program can include up to 10 segments for parameter settings.
- Precise and automatic control over the working room's relative humidity.
- Ability to set the cumulative energy (total irradiance energy) required for a sample to complete a test procedure.
- Spray function with customizable spray time and interval.
- Users can easily calibrate and adjust the irradiance or black panel temperature themselves.
- High precision Pt100 Temperature sensor for precise and automatic control of BPT (black panel temperature), BST (black standard temperature), and working room temperature throughout the process.
- Comprehensive alarm and protection functions for over-temperature (BPT, BST, working room), significant irradiance deviation, water spray shortage, abnormal lamp power, and significant humidity error.
- Touchscreen and user-friendly interface for easy setting of test parameters and monitoring of the entire testing process.
- Real-time data collection and recording, with a USB connector for direct downloading of test data (EXCEL format), enabling unattended operation.

TECHNICAL SPECIFICATIONS

Xenon Arc Test Chamber - QualiXenon™ 300 Technical Specifications:

Xenon Lamp	One 1.8 kW xenon lamp (US-made)
Filter	Daylight filter (Also can choose extended UV filter or window glass filter)
Lamp Lifetime	Near 1,500 hours
Exposure Area	2,200 cm ² (can put 22 pcs samples of 150×70mm size)
Adjustable Irradiance Range	0.3□ 0.75 W/m ² (Single point of control: 340nm) 0.5□ 1.35 W/m ² (Single point of control: 420nm) 30 W/m ² □ 90 W/m ² (Full spectrum: from 300□ 400nm) 310 W/m ² □ 780 W/m ² (Full spectrum: from 300□ 800nm)

Controlling irradiance point	340nm or 420nm or 300nm □ 400nm (show at the same time)
Adjustable Black Panel Temperature Range	RT □ 100°C
Adjustable Working room Temperature Range	RT □ 65°C
Adjustable relative humidity of working room	10% □ 75% (Light); 10% □ 95% (Dark)
Overall Size	860mm×800mm×1770mm
Net Weight	200KG
Power Supply	AC 380V (Three-phase four-wire system) / 50HZ; Max. Current 16 A
Total Machine Power	5.5KW
Requirements of 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)
Ordering Information	QualiXenon™ 300 --- Xenon Test Chamber
Options	<ul style="list-style-type: none"> • Xenon Lamps □ 1.8 KW □ - US-made • Water Purifier □ 50L/h □ • Air Compression System □ Includes air compressor, air reservoir, freezing dryer, precise filter etc. □ • Daylight Filter • Window Glass Filter • Extended UV filter



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