Low Cost Replacement Xenon Arc Lamps & Optical Filters for Atlas Testers

Q-Lab offers low-cost replacement xenon arc lamps and optical filters for Atlas Weather-Ometer® Models Ci35, Ci35A, Ci65, Ci65A, Ci4000 and Ci5000 and SUNTEST CPS/CPS+. Why pay more for the same results?

Compatible and Interchangeable

Water-cooled and air-cooled xenon lamps and optical filters from Q-Lab are fully interchangeable and compatible with Atlas-supplied lamps and optical filters for the weathering tester models identified above.

Q-Lab lamps and filters are guaranteed to have comparable spectra and are shipped with a full coverage warranty. All lamps are certified to be ozone free.

The lamps and filters meet a wide range of ISO, ASTM, SAE and AATCC requirements.

The lamp and optical filter descriptions, part numbers and corresponding Atlas model numbers are listed in Table 1.

Comparable Spectra

Q-Lab’s X-6500 xenon arc lamp provides a comparable spectrum to the Atlas 20-6500-00 lamp. Q-Lab’s X-12000 lamp provides a comparable spectrum to the Atlas 20-3053-00 lamp and Q-Lab’s X-1500 lamp provides a comparable spectrum to the Atlas 56-0017-94 lamp when the same optical filter types are used (see Figures 1, 3 and 5).

Q-Lab’s Quartz/Boro and Boro/Boro inner and outer filters also provide spectral power distributions comparable to Atlas’ versions of the same filters (see Figures 7 and 8).

Lower Operating Costs

Replacement lamps and filters from Q-Lab offer tremendous value when compared to OEM list prices – compare directly and see the substantial savings!

Because lamps and filters need regular replacement to ensure reliable test results, using Q-Lab replacement lamps and optical filters can reduce your operating costs significantly.

Why pay more for the same results?
<table>
<thead>
<tr>
<th>Description</th>
<th>Q-Lab Part Number</th>
<th>Atlas Part Number</th>
<th>For Atlas Model</th>
</tr>
</thead>
<tbody>
<tr>
<td>Borosilicate Outer Filter (Ci35, Ci65)</td>
<td>X-10893-K</td>
<td>20-2138-00</td>
<td>●</td>
</tr>
<tr>
<td>Water Cooled Xenon Lamp, 6500 W</td>
<td>X-6500</td>
<td>20-6500-00</td>
<td>●</td>
</tr>
<tr>
<td>Borosilicate Inner Filter (Ci35, Ci65, Ci4000)</td>
<td>X-10891-K</td>
<td>20-2341-00</td>
<td>●</td>
</tr>
<tr>
<td>Quartz Inner Filter (Ci35, Ci65, Ci4000)</td>
<td>X-10889-K</td>
<td>20-6506-00</td>
<td>●</td>
</tr>
<tr>
<td>Borosilicate Outer Filter (Ci4000)</td>
<td>X-10888-K</td>
<td>20-2796-00</td>
<td>●</td>
</tr>
<tr>
<td>Water Cooled Xenon Lamp, 12000 W</td>
<td>X-12000</td>
<td>20-3053-00</td>
<td>—</td>
</tr>
<tr>
<td>Borosilicate Inner Filter (Ci5000)</td>
<td>X-10892-K</td>
<td>20-3132-00</td>
<td>—</td>
</tr>
<tr>
<td>Quartz Inner Filter (Ci5000)</td>
<td>X-10890-K</td>
<td>20-3133-00</td>
<td>—</td>
</tr>
<tr>
<td>Borosilicate Outer Filter (Ci5000)</td>
<td>X-10894-K</td>
<td>20-3128-00</td>
<td>—</td>
</tr>
<tr>
<td>Air Cooled Xenon Lamp, 1500 W</td>
<td>X-1500</td>
<td>56-0017-94</td>
<td>—</td>
</tr>
</tbody>
</table>

Table 1 - Xenon Lamp and Optical Filter Part Number Cross Reference

**Full Coverage Warranty**

Every Q-Lab xenon arc replacement lamp has been tested for ignition and inspected thoroughly for adherence to mechanical and electrical specifications. Q-Lab warrants that the lamps will continue to ignite during 1500 hours of normal operation within the 24-month period following the date of purchase.

Q-Lab warrants that our replacement optical filters meet all dimensional and optical specifications and will continue to produce an OEM-comparable spectral power distribution for the recommended life of the filter (400 hours for inner filters and 2000 hours for outer filters).

Liability is limited to replacing any lamps or optical filters which are defective in materials or workmanship and are returned to our factory, shipping costs prepaid. Liability in all events is limited to the purchase price paid. Damage due to accident or abuse is not covered. Labor cost is not covered. Q-Lab Corporation makes no other warranties, including implied warranties of merchantability or fitness for a particular purpose, except as may be expressly provided by Q-Lab Corporation in writing.

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**Standards Met (Partial List)**

| ISO 105 B02 | SAE J1960 |
| ISO 105 B04 | SAE 1885 |
| ISO 105 B06 | SAE 2412 |
| ISO 4892-2 | SAE 2527 |
| ISO 11341 | AATCC TM 16-3 |
| ASTM G155 | AATCC TM 186 |
X-1500 Spectrum Comparisons

Figure 1: Spectrum Comparison: Q-Lab X-1500 vs. Atlas 56-0017-94 Xenon Lamps

Figure 2: Lamp Aging Spectrum Comparison: Q-Lab X-1500
X-6500 Spectrum Comparisons

**Figure 3 - Spectrum Comparison: Q-Lab X-6500 vs. Atlas 20-6500-00 Xenon Water Cooled Lamps**

- **Irradiance:** 0.55 W/m² @ 340 nm
- **Filter:** Quartz/Boro

**Figure 4 - Lamp Aging Spectrum Comparison: Q-Lab X-6500**

- **Irradiance:** 0.55 W/m² @ 340 nm
- **0 hour**
- **500 hour**
- **1000 hour**
- **1500 hour**

- **Filter:** Quartz/Boro
X-12000 Spectrum Comparisons

Figure 5 - Spectrum Comparison: Q-Lab X-12000 vs. Atlas 20-3053-00 Xenon Water Cooled Lamps

Figure 6: Lamp Aging Spectrum Comparison: Q-Lab X-12000
Filter Spectrum Comparison

Figure 7 - Spectral Power Distribution: Q-Lab & Atlas Quartz Inner and Boro Outer (Quartz/Boro) Filters for Water Cooled Lamps

Figure 8 - Spectral Power Distribution: Q-Lab & Atlas Boro Inner and Outer (Boro/Boro) Filters for Water Cooled Lamps

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