

GENUINE AQUAFINE REPLACEMENT LAMPS

Thank you for considering the purchase of Genuine Aquafine Replacement Lamps for your ultraviolet water treatment system. We are confident that you will be satisfied with the continued reliability and performance of your equipment when purchasing Genuine Aquafine replacement lamps.

Recently, a lamp aging evaluation study was performed between Competitor UV lamps and Genuine Aquafine UV lamps. Stringent test protocols were established to run lamps for long-term tests under conditions that replicate typical field installations while allowing personnel to closely monitor lamp performance.

- Tested competitor lamps turned a brown color at the 1,000 hour inspection. The brown color indicates that the generic lamps were manufactured with a poor maintenance coating on the lamp quartz envelope. The brown discoloration blocks UV lowering lamp performance significantly.
- One Competitor lamp failed at about 4,000 hours of operation. A Near Field Measurement was performed on the remaining lamps at the time of failure. See Figure 1. The curves for the Aquafine lamps are the average UV output. Aquafine lamps are manufactured with optimal maintenance coatings, so there was no brown discoloration of the quartz lamp envelopes over time.



UV output measured from the brand new Competitor lamps was 5.50mW/cm² and the UV output measured from the aged Competitor lamps was 3.28 mW/cm² at about 4,000 hours. This corresponds to a UV output decrease of >40% after only 4,000 hours, which is less than 6 months of lamp operation.

On the other hand, UV output measured from the brand new genuine Aquafine lamp was 6.13mW/cm² and the UV output measured from the aged genuine Aquafine lamp was 5.13mW/cm² over 9,000 hours. This corresponds to a UV output decrease of <20% after over 9,000 hours, which is more than 12 months of lamp operation.

In summary, brand new Competitor lamps produce lower amounts of UV output direct from their manufacturing source and they lose a greater percentage of UV output over operating life (>40% under 4,000 hour – which is about half of genuine Aquafine lamps). They are proven to fail prematurely. On the other hand, genuine Aquafine lamps produce greater amount of UV and lose only <20% of its UV output over 9,000 hours.

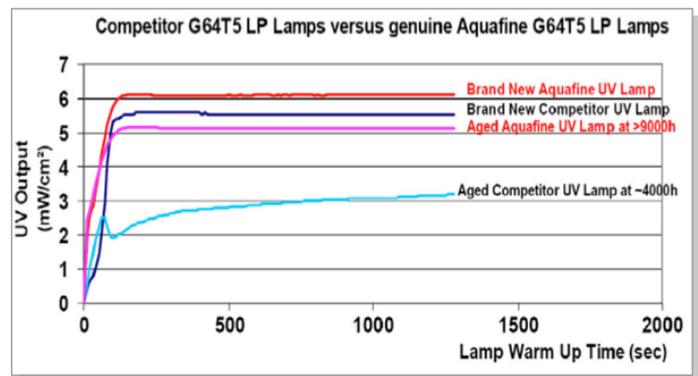


Figure 1. The Competitor G64T5 LP Lamps versus Aquafine G64T5 LP Lamps.

Using genuine Aquafine Lamps ensures proper performance and reliability of your Aquafine Equipment.

Please contact Aquafine or one of our Authorized Service Centers directly if you are interested in learning more about Aquafine Genuine Replacement Lamps.