

How long should the glass plasma tube last?

Q&A – Plasma Tube Longevity

- How long should the glass plasma tube last?
- The plasma/glass tube itself has an exceptionally long life and should provide many years of service even under heavy use
- There are plasma systems built over ten years ago still in daily operation. All known P3 plasma systems manufactured to date are apparently still in operation
- The plasma tube contain “getters” which electronically, at the atomic and molecular level, attach to and absorb impurities that have worked their way into the tube over time



www.PulsedTechResearch.com www.PulsedTech.com www.PulsedTech.RO

Unlike other manufacturers who rate their tubes in HOURS, Pulsed Technologies tubes have been designed, tested and perfected over the last decade. The tubes were designed for longevity and efficiently providing many years of service even under heavy use. Understanding the sometimes critical need of uses, we knew this was desperately needed and should be expected!

Impurities eventually do make their way into the glass itself. Each tube has incorporated into its design, deep within the electrode, a “getter” which electronically, at the atomic level, attaches to and absorbs impurities that have worked their way into the tube over time. This helps the Nobel gas mixtures remain pristine over time, thus providing extremely long life.

Through our experience, we have noticed these designs seem to perform even better over time. Except for only a few rare accidents, almost all tubes we have used over the last 15+ years are still in productive service, even in commercial and professional settings. When “next generation” system upgrades are requested, clients typically ask to have their original tube incorporated into their new product whenever possible. When and if a new plasma tube is required, the latest generation replacements are typically readily available.

At present, Pulsed Technologies only makes our proprietary tubes available for P3, P3+, and P3pro, equipment. However, a version designed for public purchase may be available in the future.