

# Essential Maintenance for the U5000AT+ Ultrasonic Nebulizer

The Teledyne CETAC U5000AT+ Ultrasonic Nebulizer is easy to setup with the host ICP-OES instrument. There are 3 primary maintenance procedures for the U5000AT+ described below along with the required spare part numbers (SPXXXX). For convenience, there is a 1-year consumable kit available for the U5000AT+ (**SP7679**). It is recommended to perform these maintenance tasks **every 6 months**.



**1. U5000AT+ Transducer and O-ring Replacement.** The transducer is the U5000AT+ component that generates the liquid sample aerosol. A simple hex wrench (supplied with the U5000AT+) is used to remove the transducer and then the inner sealing o-ring. Replace the transducer and o-ring (**SP5125**) and use the hex wrench to reassemble.



**2. Drain Pump Tubing Replacement.** The U5000AT+ is equipped with one 3-channel drain pump on the back panel of the unit to remove excess sample liquid and condensate. The drain pump tubing (light yellow color) has an expected lifetime of up to 6 months. Part number **SP5366** contains (3) pre-cut spare drain pump tubing and (2) additional connectors.



**3. PEEK Sample Inlet Tubing Replacement.** The sample inlet tubing assembly (made of PEEK) is used to deliver liquid sample to the U5000AT+ transducer which then converts the liquid sample into an aerosol. The end of the tubing may become worn with use and need replacement. Part number **SP5150B** contains one spare length of PEEK sample inlet tubing.



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