

# Nebulizer Maintenance

## Care of Nebulizers:

To keep your nebulizer in good condition, always start and finish a run by nebulizing a mildly acidic blank solution followed by deionized water for several minutes. This ensures that sample deposits do not form inside the nebulizer when the solvent dries out.

If the sample capillary becomes blocked with particulates, use the Eluo Nebulizer Cleaning Tool to remove the blockage. For glass concentric nebulizers, use the standard Eluo (P/N [70-ELUO](#)). For the OpalMist, PolyCon and DuraMist nebulizers, use the Eluo OPD version (P/N [70-ELUO-OPD](#)). Regular use of the Eluo will help keep your nebulizer clean and in good condition. If blockages due to particulates are a frequent issue for your laboratory, consider adding the re-useable Guardian in-line filter (P/N [70-803-1108](#)). The Guardian in-line filter provides a simple and effective way to eliminate the risk of a blockage. And the filter can be cleaned using a simple attachment for the Eluo (P/N: [70-803-1160](#)).

## Recommended Cleaning Procedure:

If there are salt deposits that cannot be removed with the Eluo, we recommend the following procedure:

1. Initially flush your nebulizer with warm water using the Eluo.
2. Soak the nebulizer tip in a 25% solution of Fluka RBS-25 (P/N [FLUKA25](#)) for 24 hours. Use the Eluo to make sure the Fluka solution fills the nebulizer. An initial flush of 25% Fluka using the Eluo may be required.
3. Flush 3 times with warm water using the Eluo.
4. Stubborn deposits may require an additional soaking for 2 hours with nitric acid (5% concentration).
5. Flush 3 times with warm water using the Eluo.
6. For faster drying, flush again with methanol.



Eluo (Glass Concentric Nebulizers)  
P/N: 70-ELUO



Eluo HF (OpalMist or DuraMist)  
P/N: 70-ELUO-OPD



Fluka RBS-25 Concentrate  
P/N: FLUKA25



Eluo Adaptor for Inline Filter  
P/N: 70-803-1160



Guardian Inline Sample Filter  
P/N: 70-803-1108

## Tips:

- Do not attempt to unblock nebulizers with wires or probes. This is quite likely to damage the nebulizer.
- Do not clean nebulizers in an ultrasonic bath.
- Do not use hot water when cleaning OpalMist, PolyCon or DuraMist nebulizers.
- Never touch the nebulizer tip. Any deposit of body oils can have a detrimental effect on the performance of the nebulizer.
- See our website at [www.geicp.com/intro/nebcare](http://www.geicp.com/intro/nebcare) for an informative video on nebulizer maintenance.



**GLASS EXPANSION**  
Quality By Design

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