

Integrated Liquid Trap System Kit Instructions For SpectrAA Series Spectrometers

Introduction

As part of Agilent's effort to continuously improve the quality of its products, this Liquid Trap System has been introduced to reduce the possibility of a flame being lit on an Agilent SpectrAA Atomic Absorption instrument if the drain tube is accidentally left out.

The kit comprises three components:

- A new drain tube
- A new float fitted with a magnet assembly, and captive to the drain tube.
- A modified liquid trap

All three components must be installed together.

Failure to install the drain tube before igniting a flame will allow a flammable mixture of acetylene and air to flow out of the spray chamber, across the top of the liquid in the trap and out to the drain vessel via the drain tube. If a flashback should then occur as the result of insufficient gas mixture exiting from the burner gap to support the flame, this will ignite the leaked gases and result in a violent and loud explosion.

Installation

To install the Liquid Trap System:

- 1 Hold the nebulizer block/spraychamber assembly upside down so that the float falls down clear of the hand, and screw the new drain tube into the nebulizer block. Refer to Figure 1.

WARNING**Explosion Hazard**

Failure to install the drain tube will cause violent and loud explosions to occur in both the liquid trap and drain vessel when the flame is lit. The explosion may be severe enough to cause death, personal injury or damage to the instrument or laboratory. NEVER attempt to light a flame with the drain tube missing.





Figure 1. Screw the drain tube into the nebulizer block

- 2** With the two vent nipples aligned with the nebulizer, lower the drain tube into the trap, ensuring that the float drops into the space between the two ribs that are opposite the two vent nipples. Refer to Figure 2.

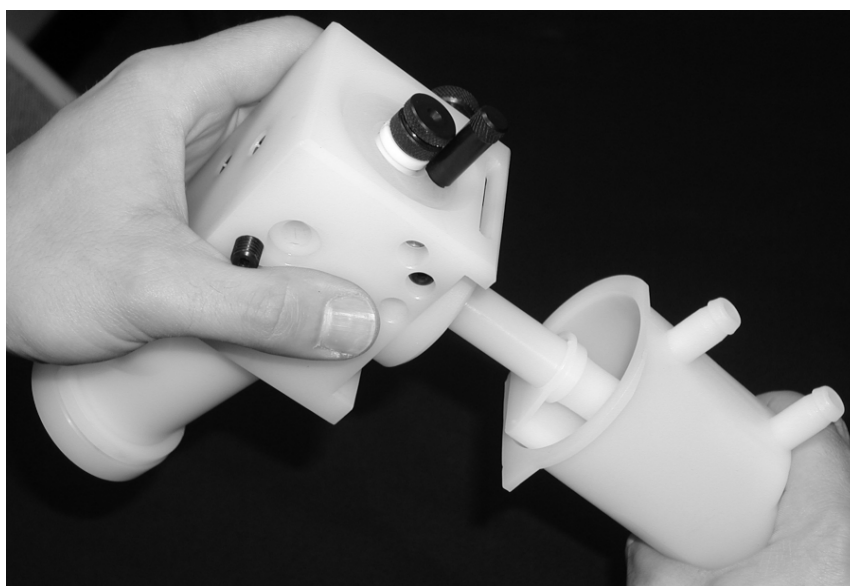


Figure 2. Lower the drain tube and float into the trap

- 3 Push the trap home and then twist it 1/4 turn clockwise to lock it into position. Refer to Figure 3.

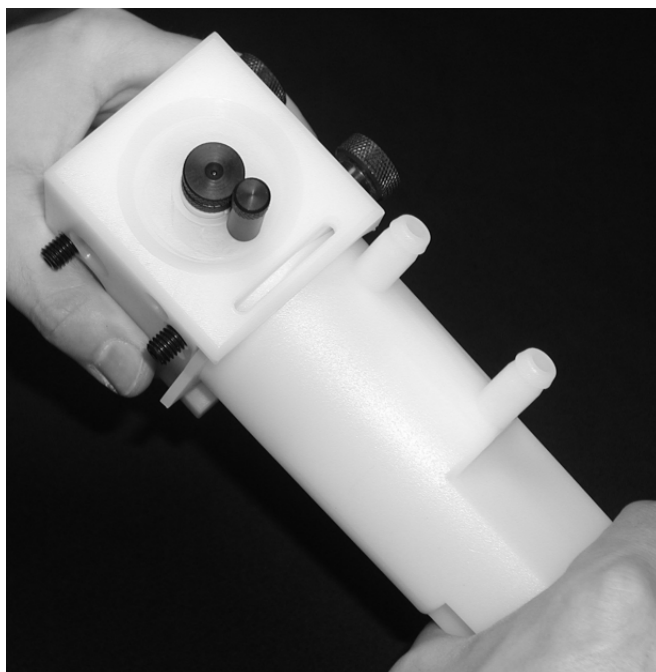


Figure 3. Lock the trap into position

- 4 Refer to the appropriate section of your instrument's operation manual for instructions for installing the spraychamber/nebulizer assembly into the instrument.
- 5 Pour the appropriate liquid for the analysis through the burner hole until the trap overflows and the liquid runs out into the waste vessel.

WARNING



Explosion Hazard

Failure to fill the liquid trap will cause violent and loud explosions to occur in both the liquid trap and drain vessel when the flame is lit. The explosion may be severe enough to cause death, personal injury or damage to the instrument or laboratory. NEVER attempt to light a flame unless the liquid trap is full.

For further information, refer to the SpectrAA User's Guide.

For further information about Agilent and our products, contact your local Agilent representative.

This information is subject to change without notice.



8510190400

Part Number: 8510190400

Edition 04/12

Issue 4

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and 2012

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