



Polyarc® System v2.0 Micro-Enclosure  
Back Inlet Position Installation Instructions  
Manual ID: PA-MAN-ME1



## Safety Notices

Throughout this manual, different signal words are used to indicate hazards in the installation process of a Polyarc<sup>®</sup> system in an Agilent 7890 GC. Failure to follow the safety messages accompanying the signal words can result in damage to the Polyarc system and GC systems, injury, or death.

**⚠ DANGER** DANGER indicates a hazardous situation which, if not avoided, will result in death or serious injury.

**⚠ WARNING** WARNING indicates a hazardous situation that, if not avoided, could result in death or serious injury.

**⚠ CAUTION** CAUTION indicates a hazardous situation that, if not avoided, could result in minor or moderate injury.

**NOTICE** NOTICE is used to address practices not related to physical injury.



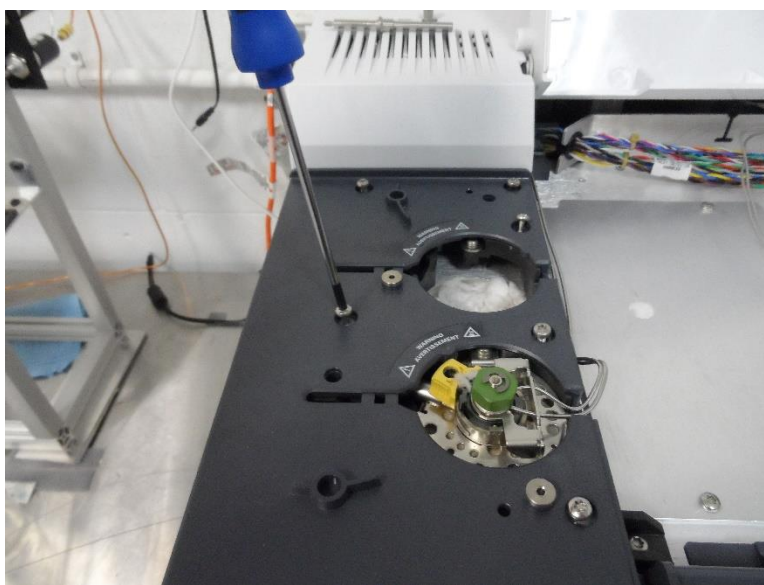
## Introduction

This manual will guide you through the Polyarc<sup>®</sup> micro enclosure installation into an Agilent 7890 GC.

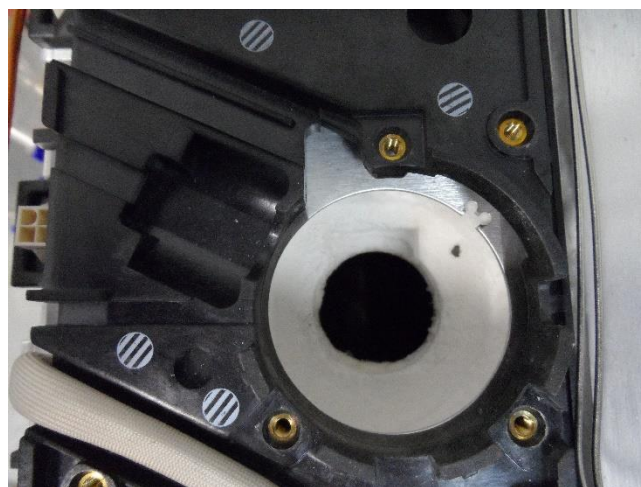
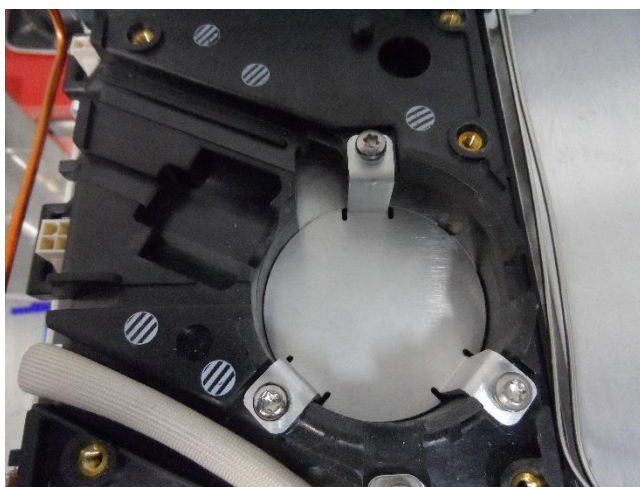
**⚠ WARNING** This manual is intended for use by those familiar with GC operation and installations, as well as those familiar with and competent using compressed gases including He, H<sub>2</sub>, and air. Do not attempt installation if you are uncomfortable. Comply with all local and national safety requirements, and be aware of the safety systems and procedures for the facility in which you are installing the system. Wear gloves and appropriate personal protection equipment.

**⚠ CAUTION** When in use, the Polyarc micro enclosure can reach temperatures in excess of 150 °C.

1. Remove cover from top of GC, removing 7 fasteners using a T20 driver.



2. Remove back inlet position cover by removing 3 fasteners using a T20 driver, removing any insulation to uncover the hole that goes into the GC oven.



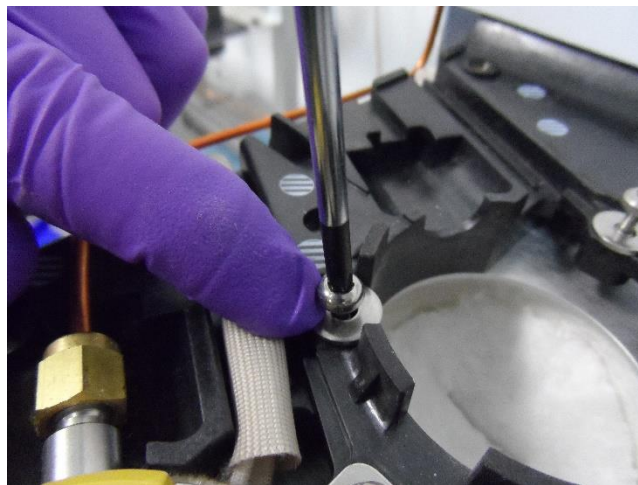
3. Place the provided disk of insulation into the opening. The Polyarc enclosure gets hot during use, conducting heat from the GC oven. Placing the insulation between the top of the oven and the bottom of the Polyarc enclosure will help reduce the amount of heat conduction, and the temperature of the micro-enclosure.



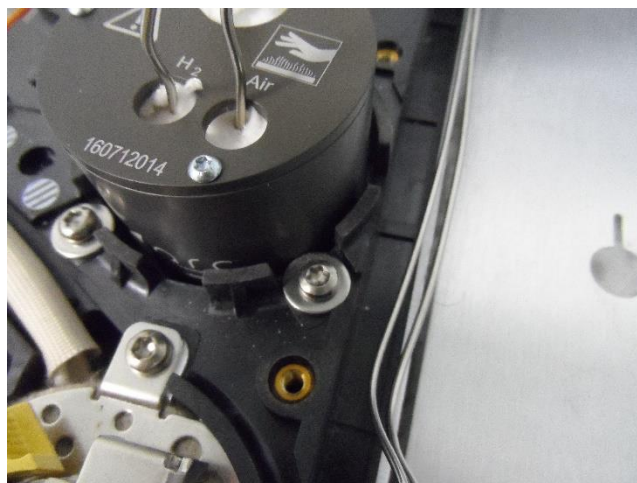
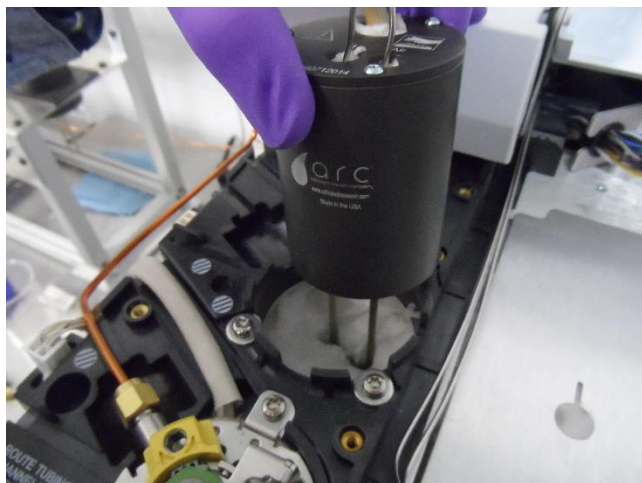
4. Place one of the supplied washers on each of the fasteners from the inlet cover that was removed in Step #2.



5. Place fasteners, with washers, in each inlet position mounting hole, pushing the washers towards the center of the hole while tightening them with a T20 driver.



6. *Prior to completing this step, you will need to replace the cover that was removed in Step #1 – The cover is removed in the pictures to show the important points of Step #6. Carefully insert the Polyarc into the inlet position opening, making sure that the Polyarc tubes are lined-up with the slot in the insulation. Avoid bending or kinking any of the tubes. **When the Polyarc is properly positioned, the enclosure should not be touching any of the surrounding plastic.***



7. Once the Polyarc is in place, you are ready to complete the installation of the Polyarc as directed in the Polyarc Installation Manual.

