

Connecting Tank to Ammonia Lines

SOP



by Tianyu Liu

Important Instructions

Only authorized personnel must perform this procedure. Warning signs alerting users of the time scheduled for this procedure must be posted in the labs and Room 198A and 198B 2 days in advance.

Purpose

The purpose of this procedure is to install/uninstall an ammonia tank to the ammonia lines feeding CVD and MOCVD instruments.

Step by Step Installation

1. Before installing, you must read this SOP thoroughly and make sure that you know the procedures.
2. Insert key into panel illustrated on image #1 below, and turn it 90 degrees to the left.



Image #1

3. Pull the panel out and hold on for 10 seconds.
4. Open the cabinet.
5. Screw (clockwise, see image #2) the top valve of the ammonia tank to close the cylinder.



Image #2

6. Unscrew (anti-clockwise) the side valve to separate ammonia tank with ammonia lines. (See image #3)



Image #3

7. Remove the holding chain and carry out the tank.

8. Close the gas cabinet.

Step by Step Uninstallation

1. Before installing, you must read this SOP thoroughly and make sure that you know the procedures.

2. Insert key into panel illustrated on image #1 below, and turn it 90 degrees to the left.

3. Pull the panel out and hold on for 10 seconds.

4. Open the cabinet.

5. Place a new ammonia cylinder inside gas cabinet and secure it with a chain into an upright position.

6. Screw (clockwise, see image #3) the side valve to link ammonia tank with ammonia lines..

7. Unscrew (anti-clockwise, see image #2) the top valve of the ammonia tank to open the cylinder.

8. Close the gas cabinet and make sure the gas leaking alert is not triggered.