



PLASMA TECHNOLOGY SYSTEMS

SUBJECT: DECOMMISSIONING OF A PS0350/300/500 PLASMA SYSTEM

Before disassembling the vacuum pump should be run at least 12 hours, preferably with a nitrogen ballast to rid the system of process gases which may be dissolved in the pump oil.

1. Turn breakers to “OFF” position on the power distribution module on the back of the PS0350/300.
2. Disconnect power cord from “Main” (power receptacle).
3. Disconnect vacuum pump power cord from power module. Coil and wrap in protective wrap and place on vacuum pump tray.
4. Disconnect vacuum pump communications cord (DIN connector from Plasma system and cylindrical connector from pump). Wrap separately and box with other loose miscellaneous items to be defined later.
5. Disconnect process gas lines from Plasma System. Cap the gas inputs with Swagelok plugs, which originally came with unit, vinyl caps, or aluminum foil to prevent dust, and bugs from entering the mass flow controllers. Dust, spiders and other contaminants can damage the mass flow controllers.
6. Disconnect air pressure supply and cover the supply inlet.
7. Disconnect the vacuum piping from vacuum isolation valve on the system. Wrap quick flange coupling and centering ring for the misc. parts box.
8. Disconnect vacuum piping from the pump. If you retained plastic cap for pump inlet please snap it into place. Otherwise cover inlet with a piece of clean cardboard or plastic sheeting and securely tape. Mineral dust can quickly damage the vacuum pump. Wrap quick clamp and centering ring for the misc. box.
9. Cover the ends of vacuum piping to prevent contamination from entering.
10. Disconnect exhaust hose from pump oil mist separator. Wrap quick clamp, centering ring and exhaust hose adapter and pack in misc. parts box.
11. Remove both air hoses from 1/8” Swagelok bulkhead fittings on the back of the Plasma System. These are the 1/8” plastic tubing hoses that run from the system back to the main isolation valve.
12. Remove the hoses from the isolation valve. Wrap and pack in the misc. parts box.
13. Remove the isolation valve from the chamber by removing the quick clamp. Wrap isolation valve separate from the quick clamp and centering ring and pack in misc. parts box.
14. PS0350: Remove glass shelves from the chamber. Wrap each shelf individually and pack in a separate box.
15. PS0300/PS0500: Support the electrode rack with either foam-in-place or other stable packaging materials, such as bubble wrap. Support materials should be placed between each shelf and at the bottom of the chamber.
16. Remove keys from EMO and Process Controller, wrap with the spare key set and pack in misc. parts box.
17. It is desirable to cover the instrumentation on the system front with construction foam sheet to protect buttons and switches and stretch wrap system.
18. The system is now ready for padded van air ride delivery service. If being transported by common carrier it is ready for crating.

The return shipment should consist of 5 items as follows:

1. Plasma system
2. Vacuum pump system
3. Box with glass shelves (PS0350 only)
4. Box with miscellaneous parts consisting of:
 - a. Quick connect clamps (a minimum of 4)
 - b. Centering rings without screens (a minimum of 3)
 - c. Centering ring with screen (1)
 - d. Isolation valve
 - e. 1/8" tubing to connect isolation valve (2)
 - f. Pump controller cable
 - g. Exhaust hose adapted
5. Vacuum piping