



## **Troubleshooting: Low Vacuum Fault**

**Issue: The Reclaim system is displaying a low/No Vacuum Fault code. The Vacuum switch does not see enough vacuum from the Mazzei Eductor to run the Ozone Generators. As water flows through the reclaim system, it creates a vacuum to draw in the ozone. If it fails to do so, the Reclaim system will stop ozone production.**

### **Tools needed:**

- a plumbing snake
- a pipe cleaning brush
- A standard hand tool set.

### **Material to be used:**

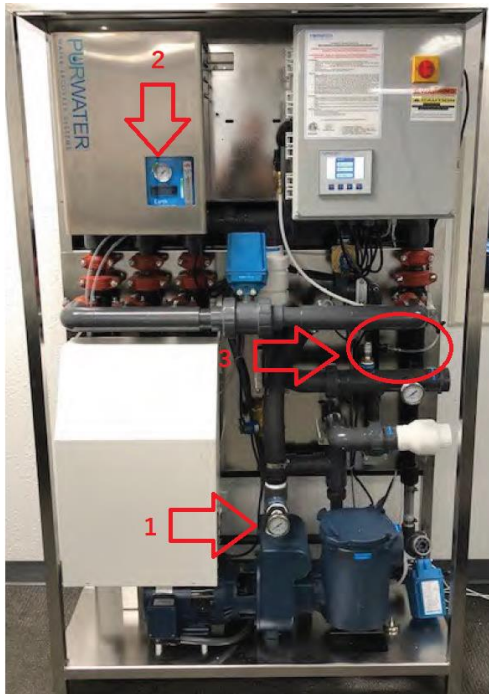
- Foaming drain cleaner
- Shop rags

### **Parts that might be needed:**

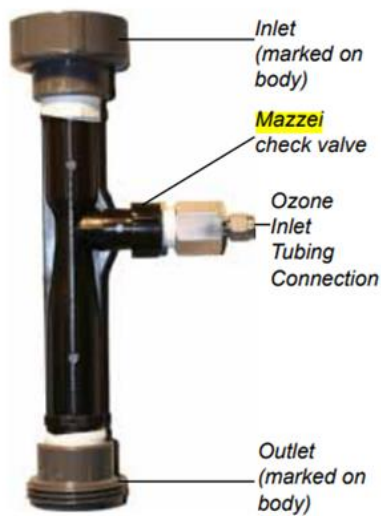
1. MVS-5 - Vacuum Switch Gen 3
2. 6030.954 - Mazzei Eductor repair kit
3. 1775BL913 - Ball check valve
4. 0318.050 - hose by the foot

### Troubleshooting steps:

1. Check the Gauges on the Reclaim system.
  - A. Verify the water pump pressure on the gauge when the pump is on. The Gauge should read 15psi or higher attached. This gage is highlighted by arrow 1.
  - B. The ozone generator pressure should be 8psi. This is highlighted by arrow 2.
2. Check to see if suction present when went the clear hose is removed from the Mazzei Educator when the pump is on. This hose is highlighted by arrow 3 and the second picture.



3. Clean the Mazzei Eductor.
  - A. Place the Reclaim system into hand mode through the HMI.
  - B. Clean the black plastic pipe and the clear tubing from the Mazzei check valve to the stainless-steel check ball valve and the tubing from the stainless-steel check ball valve to the Electrical panel using a pipe cleaner.
  - C. Clean the Mazzei check valve and ozone inlet tubing connection.



4. Clean out the strainer basket.



5. Clean out the inside of the Reclaim piping with Foaming Drain cleaner.
  - A. Use a plumbing snake to clean out the Mazzei Eductor for especially dirty and clogged piping.
6. Clean the Ozone solenoid.
  - A. Clean out the solenoid valve if the suction is noticeable/weak low. turn off the reclaim system and clean out the valve.
  - B. If cleaning out the Ozone solenoids does not clear the Low vacuum fault, repeat steps 2 through 5 once more before moving on to step 6.
7. Replace the Mazzei educator, The check ball, and the tubing.



8. Realign the vacuum switch by loosening the locking ring.
  - A. The vacuum switch is located between the O3 cabinet and the electrical panel, it is a stainless-steel tee.
  - B. Loosen the brass locking ring, then turn the black part on the left with the cord counterclockwise (CCW) a 1/4 turn and then loosely turn the brass locking ring tight to avoid it from spinning.
  
9. Close the Ozone Box and check to see if the fault is still present. If the fault is not present, tighten the brass locking ring. If the fault is still present: continue adjusting the vacuum switch.
  - A. If adjusting the vacuum switch clears the fault and the blue light comes on, remove the hose from the Mazzei to verify that it was not too far adjusted and that it will shut off the ozone if there is no vacuum present.
  - B. If removing the hose does not shut off the ozone and if there is no vacuum present, turn the Vacuum switch back a little until the Ozone will run when connected and shut off when disconnected.
  
10. if the fault is still present after adjusting the vacuum switch, replace the Vacuum switch.

If following these steps does not clear the low vacuum fault, please contact Purclean at 800-882-8856. they are open from 8:00 am PST to 5:00 PM PST.

Cleaning the Mazzei eductor should be performed every three months (steps 2-4)