Operating Information

When the UV lamp in is operating correctly, the current sensor in the control panel reads about 0.38 amps.

- A reading of 0.20 to 0.0 amps indicates a failed or improperly connected lamp.

Different control panel types respond differently to UV lamp failures:

- **AXUV units**: When the sensor reads “0.0,” the AdvanTex system’s discharge pump is automatically disabled to prevent the discharge of untreated effluent.
- **VeriComm™ Monitoring System (VMS)**: If the system has an operational network connection and if the alarm delay has not been adjusted, when the sensor reads “0” ...
  ~ An alert is sent to the service provider.
  ~ If the unit is powered through the VMS, a local alarm will sound if the service provider does not provide service within about 18 hours.

Maintenance Instructions

All Orenco UV and AXUV units require annual servicing and lamp replacement.

**Step 1: Remove Disinfection Unit**

**Step 1a**: In the control panel, turn off all circuit breakers.

**Step 1b**: Lift the disinfection unit out of the Q-D coupling and out of the basin.

- Loosen the coiled power cord to allow enough slack for removing the unit from the basin. There is no need to disconnect the cord.

**IMPORTANT**: DO NOT pull the unit up by the cord! This will damage the unit.

**Step 2: Remove Lamp Tube/Handle Assembly**

**Step 2a**: Carefully grasp the lamp tube/handle assembly by the handle.

**Step 2b**: Pull the lamp tube/handle assembly out of the unit housing.

**IMPORTANT**: DO NOT pull the lamp tube/handle assembly out by the cord! This will damage the unit.

**Step 2c**: Tip the unit housing to drain the effluent back into the basin.

**Step 2d**: Lay the lamp tube/handle assembly and the unit housing on a protective sheet of plastic.

**Step 3: Clean Disinfection Unit Components**

**Step 3a**: Wipe off the outside of the disinfection unit housing.

**Step 3b**: Use a hose and long-handled brush to clean the inside of the housing.

- Drain the unit back into the basin when you are finished cleaning it.
Step 3: Clean Disinfection Unit Components, cont.

Step 3c: Use a hose and soft brush to clean the lamp assembly.
- To minimize contamination, clean the lamp assembly over the basin.
- Remove stains from the Teflon® sleeve with a soft sponge and detergent.
- Remove stubborn stains with a soft sponge and isopropyl alcohol.

Step 4: Replace Lamp

**IMPORTANT:** Wear clean gloves when handling the lamp. Oils from your fingers can damage the lamp and shorten its life!

Step 4a: Loosen and remove the handle assembly from the lamp tube assembly.
- Make sure the bulb can turn freely in the sleeve while you loosen the handle.

Step 4b: Disconnect the power cord socket from the old lamp.
- The lamp contains mercury. Dispose of it in accordance with local regulations.

Step 4c: Connect the power cord socket to the new lamp.

Step 4d: Gently slide the new lamp and -cord all the way into the lamp tube assembly.

Step 4e: Thread the handle assembly onto the lamp tube assembly by hand.

Step 4f: Use a torque wrench to tighten the handle assembly nut to 35-45 in./lbs force (4-5 newton-meters).
- Be certain that the o-ring is seated properly to create a waterproof seal.
- Do not overtighten the handle assembly nut.

Step 4g: If it is necessary to remove and reinstall the cord grip, use a torque wrench to tighten the cord grip to 35-45 in./lbs force (4-5 newton-meters).
- Do not overtighten the cord grip.

Step 5: Reassemble and Reinstall Disinfection Unit

Step 5a: Press the lamp tube/handle assembly into the disinfection unit’s housing.

Step 5b: Slide the disinfection unit’s Q-D male coupling into the Q-D female coupling.

Step 5c: Firmly seat the Q-D male coupling into the Q-D female coupling.

Step 5d: Neatly coil the excess power cord and secure it to the splice box if the wire routing and connection work is not being done immediately.

Step 5e: Reinstall the lid on the basin and secure it with the lid hardware.

Step 6: Perform Operational Test

Step 6a: When power is available to the control panel, turn on the circuit breakers in the control panel.

Step 6b: Check the numeric display on the current sensor for the UV lamp.
- A normal reading is about 0.38 amps.
- If the sensor reading is 0.20 amps or less, check the lamp wiring connections and UV bulb.