

Wedeco DURON UV System Seasonal Shutdown Instructions

UV Modules

- Turn the Main Disconnect switch to the OFF position on the Ballast & ICA enclosures. Leave the main power to the Ballast & ICA enclosures ON so that the climate control will remain operational.
- Lift all of the modules to the highest position and insert the module safety lock pins.
- Turn the power at the module lift and electric wipe control enclosures OFF.
- Remove module covers if available and clean the modules thoroughly with Lime Away®, CLR®, or similar mild acidic cleaning solution to prevent scaling on the quartz sleeves.
- If possible, all cables should remain plugged in to prevent damage to the connectors.
- Stainless steel module covers should be mounted back on the module if available.
- Wrap the cable connections with plastic to prevent damage from dust, dirt, or water intrusion. Ideally wrap the Duron UV module with Wedeco's weather resistant acrylic bags.
- Wedeco can provide weather resistant bags to cover the entire UV module and protect it against rain, ice, dust and dirt intrusion. Contact our aftermarket team (Ref No 14-659175) at 704-409-9793 or via email at aftermarket@xyleminc.com for more details or to place an order.
- For additional storage recommendations, e.g. if the system will be out of service for longer than a season, please contact the Wedeco Service Team.

Control panels

Power should remain on to the control cabinets to protect the interior components from condensation damage.

Wiper and Lifting Boxes

- The wiper and lifting boxes need no special maintenance other than preventing excessive buildup of ice or snow.
- Both boxes should be covered and protected with weather proof material
- Wedeco also can provide covers to protect these boxes. Please contact the Wedeco Aftermarket Team for details.
- The use of desiccant bags is recommended for controlling moisture accumulation.

Air Compressor

- If the wiper system requires an air compressor, please use the tank drain valve to drain accumulated moisture from the tank and then run the compressor for a short period of time to bleed all moisture from the air lines and the rest of the system to prevent damage from freezing.
- Turn off the compressor.
- If the compressor is not located indoors, it should be covered and protected with weather proof material.

UVT Monitor

- Disconnect power from the unit UVT monitor.
- The submerged probe should be disconnected, removed from the channel, and thoroughly cleaned. Store the probe in a clean dry place.
- The remaining cable connector should be sealed and protected from dust, dirt, and water intrusion.

General notes

- The control enclosures should be periodically checked for moisture and damage from animals, e.g. rodents.
- Periodically check the safety and security of the lifted modules. Protection from rodent attack is very important.
- If the system has automatic gates that should be well lubricated for the winter. Exercise the gates periodically throughout the off season. Keep power to the actuators if they are equipped with an internal heating element to reduce condensation damage.

Recommissioning of UV system:

Modules

- Remove protective covers and/or bags from the UV system
- Clean the quartz sleeves with water and a mild acidic cleaner such as Lime Away® or CLR® to remove any dirt or debris that may have accumulated.
- Connect the lamp connector to the quartz sleeve assembly and reinstall the module cover.
- Remove any debris in the channel that may interfere with the correct operation of the modules.
- Remove the module safety lock pin and turn the power at the module lift and electric wipe control enclosures ON. In case it is difficult to release the pin from its position, please contact Wedeco Service at 704 409 9700 for assistance.
- Lower all of the modules to their lowest position.
- Turn the main disconnect switch to the ON position at the ballast & ICA enclosures.

Cabinets

- The cabinets should be cleaned and inspected for damage, moisture and foreign material. If desiccant material was used, remove and discard it.
- Restore power to the system.
- Fan filters should be checked for any obstructions and cleaned or replaced if needed.
- If the system is equipped with air conditioning units, check the filters and clean or replace them as necessary.

Air Compressor (if available)

- Check the water and/or oil separator and empty it. Check the integrity of the piping and air hoses.
- After applying power to the air compressor check the operation of the auto drain.

UVT Monitor



- If the system is equipped with an online UVT monitor, inspect the monitor unit for any damage before putting it back in service.
- Thoroughly inspect and clean the probe.
- Install the UVT probe back into the channel and connect the probe cable to the monitor.
- Once the probe is submerged in the channel apply power to the UVT monitor.
- Allow the unit to run an hour before performing a calibration check per the manufacturer's recommendation and recalibrate if necessary.

Wiper and Lifting Box

- Remove the cover from the wiper and lifting box and check for any damage inside. Remove any foreign material that may have accumulated.
- Check the integrity of the air lines.
- If desiccant bags were used they should be removed and discarded.

General

- Check the function of ultrasonic sensor according to manufacturer's instructions in the O&M manual and recalibrate if necessary.
- If the UV system is equipped with automatic gates, make sure they have power and that they are in the remote mode. Also make sure they are properly lubricated per the manufacturer's recommendations.
- Check the level of the UV channel and ensure that the level control is working.
- Turn the power ON to the UV system.
- Place the system in the Automatic mode.
- Once the system has been running for 15 minutes the flow can be started through the channel

   	<p>It is not recommended to remove the entire module for storage as this greatly increases the risk of damage.</p> <p>Care should be taken during preparation to protect the lamps and quartz sleeves from breakage.</p> <p>Desiccant bags should be used in the panels and junction boxes to prevent moisture build up.</p>
	<p>Strictly comply with all relevant rules for accident prevention and local health and safety regulations and comply with O&M Health and Safety section of the UV System and other components which might not be delivered by the UV manufacturer</p> <p>Wear your Personal Protective Equipment.</p> <div></div> <p>The UV Lamps and quartz sleeves are fragile. Wear safety gloves for handling.</p> <div></div> <p>UV lamps contain mercury. DO NOT PUT IN TRASH. Recycle or dispose as hazardous waste. www.lamprecycle.org 1-866-457-6697</p> <p>WARNING: This product contains a chemical known to the State of California to cause birth defects or other reproductive harm.</p>