SHUTS DOWN WHILE RUNNING

Issue: AquaSeal water-sealed liquid ring vacuum pump system shuts down while running

Each AquaSeal water-sealed liquid ring vacuum pump system is tested and checked at the factory prior to shipment to ensure trouble-free operation. In the unlikely event you encounter a problem, we recommend that you consult with your local distributor for parts/service. Remember, when calling for service, parts or system information, always have the pump or system model number and serial number ready.

Click here to find your local authorized distributor

WARNING! Before attempting any repairs, disconnect all power from the system by switching off power at the main breaker or disconnect switch. Always use appropriate Lock Out – Tag Out procedures.

If the DEKKER AquaSeal vacuum system shuts down while running, troubleshoot the following items:

- Press the alarm condition reset button on the front panel to see if that will clear the alarm light. If the alarm light clears, attempt to restart.
- Make sure the overload is not tripped. If it is, press the overload reset button and attempt to restart the system. If the overload continues to trip, check the overload setting to make sure it is set correctly. The overload should be set at FLA x SF.
- Make sure fuses are not blown. Replace blown fuses with correct size. Fuse sizes are noted on the ladder diagram found inside the control panel.
- Ensure that proper voltage is supplied and the wire size is correct. A convenient wire size chart is included in the AquaSeal Installation, Operation and Maintenance manual.
- Check the vacuum switch setting on the optional vacuum switch (if installed). If the system has reached the vacuum level on the vacuum switch, the switch will shut off the system until the next time there is demand for the vacuum. See the related article on Vacuum Switch Adjustment.
- Check the parameter settings on the optional PLC (if installed). Like the vacuum switch, if the system has reached the vacuum level that is set in the PLC settings, the PLC will shut off the system until the next time there is demand for vacuum. See the related article on Setting PLC Parameters.
- Make sure all wires are tight. Wires may vibrate loose during shipment or operation.
- If the low-level switch option has been installed, check the system water level to make sure it is above the low-level switch. Check continuity of the switch to verify proper operation. Standard for low-level switches is to be wired normally open to close on low-fluid level.
- If the high-level switch option has been installed, check the system water level to make sure it is below the high-level switch. Check continuity of the switch to verify proper operation. Standard for high-level switches is to be wired normally closed to open on high-fluid level.
- Determine if the pump has seized. This can be done by turning off power to the system (be sure to use proper lock out procedures), then rotating the pump shaft by hand. If a rubbing noise or binding is observed, contact your local authorized Dekker distributor.