

TECHNICAL BULLETIN

ULTRA UV • July 1, 2016

Non-Warrantable Conditions

Squeeze Out

A squeeze out (see Fig 1 & 2) happens when there is a NO OR LOW FLOW condition in an Ultra U.V. This causes the pressure switch to activate the ballast and illuminate the lamps, but does not achieve adequate cooling around the quartz tube. The most common cause of this LOW OR NO FLOW condition is a partially or a completely open by-pass. Another cause is improper plumbing that would result in the pressure switch being activated with a LOW OR NO Flow condition. It can also happen if the pressure switch is by-passed with both wires connected to a "WYE" (See Fig 3). The "WYE" was supplied on older Ultra UVs. Finally, if a unit is installed below water level and the option "Flow Switch" was not used the pressure switch could activate when the system is off and over heat causing a squeeze out when the unit is put under pressure. The Ultra UV requires 100% of the system flow from the filter outlet to pass through the Ultra UV. If it is a 3 lamp unit, it requires 2 inlets and 2 outlets to be plumbed. Please see attached By-Pass tech bulletin and the instructions for plumbing multiple ports.

Fig. 1



Fig. 2

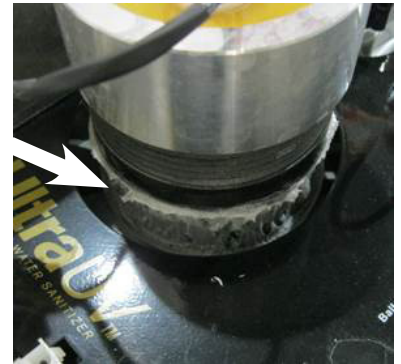
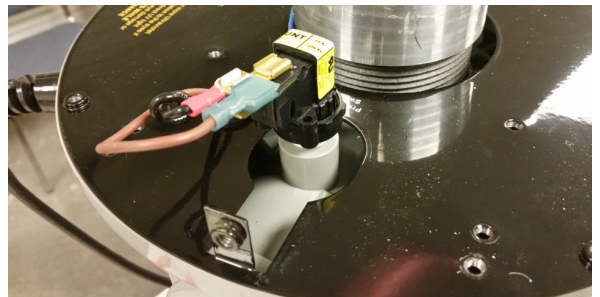


Fig. 3

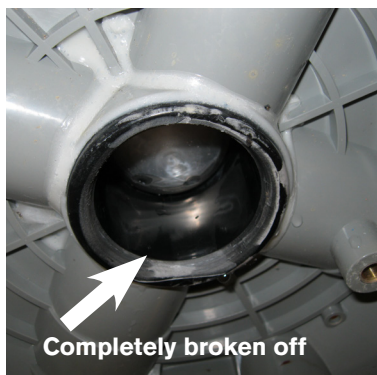


Both leads connected to Y connector.

Winterizing Leak

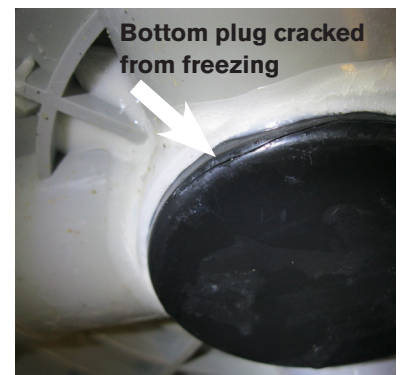
This occurs when winterizing is not done properly. The UV unit must be removed at the unions and tipping the tank to a horizontal position so all the water is drained from the unit. Special attention must be paid to draining the water captured in the cup holding the crystal tube at the bottom of the unit. An alternative way is to loosen the unions so the water drains out and then remove the lid, lamp assembly, and crystal and use a wet or dry vacuum to remove all the standing water. Failure to remove all the water from the unit will result in freezing damage to the tank and is not covered under the warranty. It is also recommended to remove the unit from the plumbing and store it in an area that does not freeze.

Fig. 4



Completely broken off

Fig. 5



Bottom plug cracked from freezing