Flow Switch Cleaning Procedure
PN#81896

The flow switch provided with the Trinity 150C and 200C models is designed to provide years of trouble free operation; however it can become clogged preventing proper operation. There will be two distinct symptoms when the flow switch is clogged.

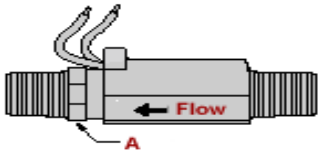
1) When the hot water fixture is turned on (at a flow rate above .5 gpm) the boiler will not respond and the DHW Temp light will not come on.
2) The Boiler will lock out with a code ER5, or the DHW Temp light will remain lit up when no domestic hot water is being used.

In either of these cases the flow switch may be clogged and should be cleaned and checked prior to replacement. To clean the flow switch, remove it from the water line and remove NUT "A" (see diagram below). A light spring sits on the inside of the nut and a magnetic plunger sits inside the spring. Remove these components and clean any debris that may be caught in them. Clean the bore of the switch using a small brush or cloth. For switches that have lime or hard water scale build up, use a scale remover that is compatible with brass.

When cleaning is complete, replace the plunger then the spring and reinsert the nut fitting and torque to 25lbft. To test the switch use a thin object such as a pen or screw driver to depress the plunger in the direction of the flow and check continuity across the two red wires. With the switch depressed there should be continuity, and when the switch is released the circuit should open. Reinstall the switch keeping it pointed with the arrow in the direction of water flow.

Note: If the switch has debris other than hard water scale a filter with a 100 micron screen or smaller should be installed prior to the switch to prevent clogging.

* NOTE: the section of the switch where the wires exit must not be dented or crushed as this will destroy the switch. Place wrenches so that no strain is placed on this portion of the unit.



Remove hex nut A to disassemble and clean switch. Retorque to 25lbft when reassembling.