



# SIOUX CORPORATION

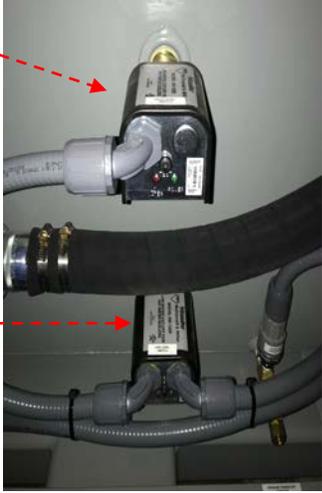
ONE SIOUX PLAZA - BERESFORD, SD 57004

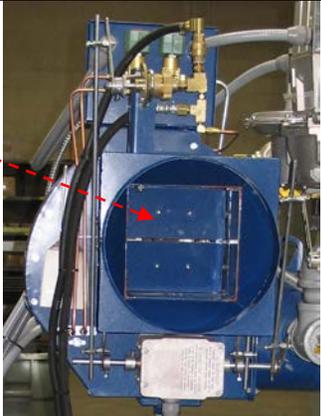
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## PRESEASON CHECKLIST For Sioux Hybrid Water Heaters Built Before 2013

<ul style="list-style-type: none"><li>✓ Check the <b>coil inlet pressure</b>; the pressure should be 30 - 35 psi. Note: <b>make sure pump VFD is operating at 60 HZ</b>. If the pressure is greater than these numbers, the coil is becoming built up with scale and should be delimed. See your Owner's manual on the procedure to delime the coil.</li><li>✓ Inspect the pump for any signs of water leaking around the seal of pump. If water is present, replace the pump seal.</li></ul>	
<ul style="list-style-type: none"><li>✓ Monitor the gauge closest to the pump and compare it to the gauge before the strainer. If the gauge closest to the pump is reading below "0" remove strainer and clean the screen.</li><li>✓ Remove the inlet screen from the Y-strainer mounted on the feed pump inlet and clean.</li></ul>	
<ul style="list-style-type: none"><li>✓ Open the bleeder on the pressure transducer located on the bottom of the process tank. If your machine does not have the valve as shown, remove the transducer to flush any sediment that has accumulated in the fittings.</li></ul>	

<ul style="list-style-type: none"> <li>✓ Check the High-level float switch. located between the heating coil and the vertical media section, there are two vents for the process tank. Use a hose to add water until the water level in the site tube is 16" up from the bottom of the tank. Turn the rotary switch to pump and burner and the "High Level" indication should appear on the screen. If this is not indicated, remove the level switch, and manually test the switch with a voltmeter. Replace if it is not functioning.</li> <li>✓ Check the Low-level float switch. Drain the water from the process tank down below 6". Turn the rotatory switch to pump and burner and the "Low level" indication should appear on the display. If this is not indicated, remove the level switch, and manually test the switch with a voltmeter. Replace if it is not functioning.</li> </ul>	
<ul style="list-style-type: none"> <li>✓ Check the operating current of each pump motor. Turn the Inlet pump and Discharge pump on and burner off. Locate the wires leading to each motor. On the bottom of the Variable frequency drive (VFD) for the feed pump located on the right-hand side, verify the screen on VFD is reading 58-60 and measure the operating current. Compare the amps to the name plate rating for the appropriate voltage. If the amperage is higher than the name plate rating, check for bearing wear or other signs of motor drag. Replace if necessary.</li> </ul>	

<p><b>GAS BURNER:</b></p> <p><b>PILOT U V SCANNER:</b></p> <ul style="list-style-type: none"> <li>✓ Remove the purple cad cell from the pilot assembly and inspect the lens. Clean the lens with a soft rag if dirty.</li> <li>✓ Inspect the pipe that the cad cell attaches to, and if dirty or dusty, clean with a rag to remove buildup.</li> </ul>	
<ul style="list-style-type: none"> <li>✓ Inspect air doors and fan for buildup of dust. Note air door setting, blow out any buildup, and set air door to original setting. If in doubt as to correct settings, contact a local distributor to perform a flue gas analysis, or consult Sioux Corp. for assistance.</li> <li>✓ Lubricate all linkage on the modulating gas/oil bypass valve.</li> </ul>	

### OIL FIRED BURNER:

- ✓ Replace **fuel filter** on fuel supply line.
- ✓ Open the **door** and remove the nozzle/nozzle line assembly from the burner. Check and adjust the position and gap between electrodes, per the Owner's Manual. Adjust the electrodes and replace the nozzles annually. Verify that the oil tube assembly and electrodes are in good condition with no cracks or damage. Inspect the blower fan for dirt buildup and clean with an air hose. Inspect the fan for any cracks or missing blades; replace if necessary.



### FLUSH THE PROCESS TANK

- ✓ Open the drain valves, the drain is located on the left side of the tank. Between the heat exchanger and the vertical coil are two vents with **rubber caps**. Use a large hose – 1" – 1 1/2" hose to flush any sediment buildup in the process tank.
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### DELIME THE HEATING COIL

- ✓ It is recommended to delime the coil at least once per year. If you are unfamiliar with this process refer to your owner's manual for proper procedure. Sioux Liquid Descaler can be supplied by calling the Sioux Parts Department or your local Sioux Distributor.
- ✓ Flush the process tank when finished to remove any sediment.

- ✓ Inspect the water heater for any signs of hot spots or discolorations due to excessive heat. If present the insulation/refractories may need replacing, contact your local Sioux Distributor or Sioux Corp.

- ✓ It is recommended to perform a combustion analysis once per year. If you do not have the proper testing equipment, contact your local Sioux Distributor or a local HVAC contractor to perform this test.

## For Sioux Parts or Service Contact

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