



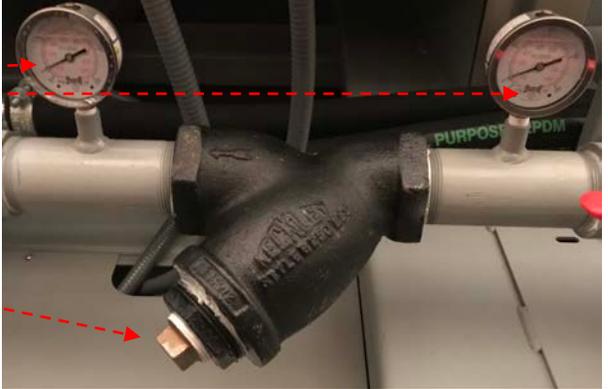
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PRESEASON CHECK LIST For Sioux HM1.7 Water Heaters

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| <ul style="list-style-type: none">✓ Check the pressure/vacuum gauge for differential pressure between the two gauges – typically the difference is 5 psi.✓ Clean the inlet Y strainer. Remove the inlet screen from the Y-strainer mounted on the feed pump inlet and clean. |  |
| <ul style="list-style-type: none">✓ Check the coil inlet pressure; the pressure should be 30 - 35 psi. Turn the selector switch to manual mode and turn the dial to the maximum setting of 10. Note: make sure pump VFD is operating at 60 HZ. 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. |  |
| <ul style="list-style-type: none">✓ Turn the main gas valve off.✓ Next turn on the water pump and burner on, watch the motorized damper to see if the motor is opening the damper.✓ Remove the covers on the two flow switches located above the water pump motor.✓ With the ball valve on the discharge of the heater, slowly close the valve until the burner shuts down. Verify the low flow light is on and check with a volt meter that the micro switch is in the open position. Refer to the wiring schematic for the correct wires/terminals.✓ Shut off the burner and water pump. Use a continuity meter to verify the flow switch is not stuck in an open position. |  |

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| <p>✓ Check the operating current of the pump motor. Turn the pump on and burner off. Locate the wires leading to the motor. On the bottom of the Variable Frequency Drive (VFD) for the circulation pump 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. Note: This procedure should be completed by a qualified electrician.</p> |  |
| <p>✓ Inspect the pump for any signs of water leaking around the seal of pump. If water is present, replace the pump seal.</p> |  |

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| <p>GAS FIRED BURNER:</p> | |
| <p>✓ PILOT U V SCANNER: -----</p> <p>✓ Remove the purple cad cell from the pilot assembly and inspect the lens. Clean the lens with a soft rag if dirty.</p> <p>✓ Inspect the pipe that the cad cell attaches to, and if dirty or dusty, clean with a rag to remove buildup.</p> |  |

- ✓ 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.



- ✓ Verify the inlet gas pressure on the red/green gas pressure gauge while the burner is off and while in operation.
- ✓ While running the burner compare the gas pressure gauge to the yellow sticker on the machine to ensure the burner is operating at the proper gas pressure.



OIL FIRED BURNER:

- ✓ Replace fuel filter on fuel supply line.



- ✓ Open the door and remove the electrode/nozzle assembly from the burner. Check and adjust the position and gap between electrodes, per the Owner's Manual.
- ✓ Adjust the electrodes and replace the nozzle 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.
- ✓ Remove the photo eye and clean it with a soft rag.



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 Sioux Parts Dept or your local Sioux Distributor.
- ✓ 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

(877) 440-7700 or
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