

Skimmer Troubleshooting Guide

Trouble Condition #1: The skimmer is not pumping.

First Inspection:

Listen to the air exhausting from the "air exhaust tubing coming out of the well cap. There are 3 possible conditions:

Condition #1: You hear a pulsating flow of air
(i.e. intermittent soft bursts of air).

Condition #2: You hear a continuous flow of air.

Condition #3: You hear no flow of air.

Condition #1 indicates that the skimmer air logic valve inside the pump head IS working properly and you need to move on to our Second Inspection.

Condition #2 indicates that the skimmer air logic valve inside the pump head is NOT working properly and needs changing.

Possible reason: There is liquid in the air valve possibly water or oil coming from your compressed air source or free product has found its way into the air valve.

Condition #3 indicates that the skimmer air logic valve inside the pump head is NOT working properly and needs inspection.

Possible reason: There is no air being supplied to the skimmer or some small dirt particle has blocked the inlet of the air valve and needs to be cleaned.

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XITECH
Instruments, Inc.

06 Camino De Los Desmontes
Placitas, New Mexico 87043

Phone: 505-867-0008 Fax: 505-867-0212

Web site: xitechinc.com E-mail: xitechinc@xitechinc.com

Trouble Condition #1: The skimmer is not pumping.

Second Inspection:

While the Skimmer is operating, observe the product discharge coming out of the product tubing after the well cap in the well vault. Use the 3-way sampling valve (if installed) or disconnect the tubing at the well head. There are only 2 possible conditions:

Condition #1: The skimmer is pumping air.

Condition #2: The skimmer is NOT pumping anything.

Condition #1 If you place the outlet of the product tubing into a cup of water when the skimmer is running, and you observe bubbles coming out of the tubing. Then this indicates that the skimmer does have good pumping action and you need to look elsewhere for the solution. We suggest that you check the skimmer position in the well. It may be too high, or the skimmer float assembly may be stuck high in the housing.

Condition #2 If you place the outlet of the product tubing into a cup of water when the skimmer is running, and you observe NO bubbles coming out of the tubing.

One possible cause is not enough air pressure is being applied to lift the product to the surface. Check your operating pressure:

Minimum operating pressure for the 2" skimmer is 70 PSI

Minimum operating pressure for the 4" skimmer is 35 PSI

Maximum operating pressure is 125 PSI

Another possible cause is the placement of the skimmer may be too low in the well which can force the float assembly to travel up onto the plug at the top of the travel. Turn off the skimmer, raise the skimmer up 2 feet, and try again.

Condition #2 cont.

A final possible cause is if you observe product in the tubing moving back and forth but not coming out of the tubing. Then the skimmer pump head has debris inside causing the check valves to fail. Try putting only the pump head in a bucket of water which may force the debris out of the pump.

Trouble Condition #2: The skimmer is pumping water.

Only Inspection:

If you observe water coming out of the product tubing, there are 3 possible conditions:

Condition #1: The skimmer float assembly tubing is twisted.

Condition #2: The skimmer float assembly is stuck.

Condition #3: The skimmer float has too much water ballast.

Condition #1 Remove the skimmer from the well and inspect the flexible tubing at the bottom of the skimmer for a slight twist in the tubing (i.e. tubing should have a smooth "U" shape). If you observe the tubing has a twist, then this is the cause for pumping water. Remove the float assembly from inside the skimmer housing and hang the float assembly in the air until there is no spinning of the float assembly. Then re-install without rotating the float assembly.

Condition #2 Remove the skimmer from the well and remove the float assembly from inside the skimmer housing, and inspect the inside of the housing for debris.

Condition #3 The ADJ 1005, ADJ 1010, and ADJ 1015 skimmers have an adjustable float. You can add or remove water (i.e. ballast) from the float body by removing the float assembly from the skimmer housing and removing the screw plug at the bottom of the float body.

Notes