

This installation had an iFLO unit on it, feeding into the drain line.

This system had previously overflowed and destroyed the garage ceiling below.

The system was “serviced” two weeks before we were called.



Just looking at the system quickly, there is an in-line Float switch that was completely engulfed with Zoogloea To the point where the float switch was mired in bacteria and could not float:



2nd there was a reverse pitch on the drain line. The line is sloped upwards:



Opening the system, the drain pan held a large amount of bacteria in the side troughs and had some bacteria in the front troughs – again – on a system that was just serviced:



The pipe at the floor was cut so a union could be added:



Needless to say – quite mess overall....

Also, which is critical to drainage – there is no trap installed in the line.

The original piping was rerouted, and a new line was run through the (then open) garage ceiling and routed out the ceiling down the interior side wall of the garage and then out the wall with these fittings outside:

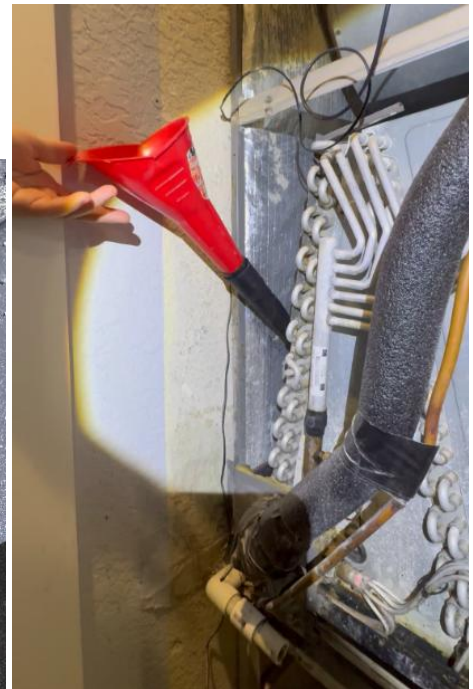
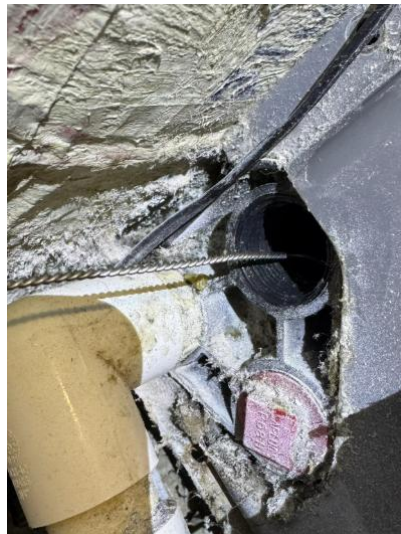


So no trap anywhere in the line...

When the unit was running air was being sucked into the outside fitting, so there was no outflow of condensate while the AC system was running. Therefore condensate was remaining in the drain pan until the AC system turned off, or the float switch tripped, *which was impossible with the float switch stuck in the bacteria...*

The “Rejuvenation Process” begins...

It took a bit of effort to clear the entire drain pan of Zoog which consisted of using long brushes to reach to the back of the pan and flushing repeatedly with hot water. We use a long rubber vacuum nozzle to reach the back of the pan and flush the Zoog forward after we brush.



It was evident by the amount of bacteria in the pan that the pan overflowed and the condensate dropped down onto the floor and then down into the garage ceiling.

Even with the overflow catastrophe – this system was never properly cleaned of Zoogloea, nor the plumbing modified for proper drainage.

Once we thoroughly cleared the drain pan and had a full flow of water out, the piping was modified.

A union was added at the drain outlet so the ZoogFlush hose adapter could be attached to flush the line.



The piping from the drain outlet was rebuilt – as there was a hole in the pipe from the iFLO.

The slope of the pipe was maintained as much as possible due to the filter slot, and flexible tubing was used to provide a smooth sloped line to the exit. A union was also added to the line so the whole line can be easily removed and cleaned:



Next, the line was snaked from the inside down and from the outside in to make sure the snake overlapped.

The snake from the outside went through three 90-degree elbows and then up vertically to the ceiling and the another 90-elbow:



Here is a video of snaking the line:

<https://vimeo.com/1211176669?share=copy&fl=sv&fe=ci>

After snaking the line a hose was brought in to flush the line.



A “P-trap” was added to the line on the outside and the condensate now streams from the line and is no longer a slow drip:



Lastly, the Zoog Zapper was installed and the dispense rate was set to every 5 days and not the default 7 days because of all the problems encountered with the system and the customer has no problem with adding Steramine a little more often.

Total time spent on site was 2.5 hours with two people.

Almost two hours was cleaning the system and re-configuring the plumbing.

This system will never clog again!

www.zoogzapper.com