

# HydroFLOW Case Study

# Legionella Reduction in a Hospital Potable Water System

Installed: July 2022

Last Inspection: September 2023



# Background

## The Customer

A hospital in Indiana, United States.

## The Customer's Problem

The hospital tests the potable water system quarterly for the presence of Legionella in ice machines and sinks. Results are considered problematic when levels exceed 1 CFU/mL. Testing showed an average CFU/mL level of 7, requiring expensive flushing of the system and some replacement of contaminated equipment. Due to elevated Legionella counts, the hospital considered the installation of a \$75,000 water treatment system.

The main source of the Legionella contamination at the hospital is biofilm growth in the potable water system. A 90-day proof of concept product evaluation was performed to determine how effective *HydroFLOW* will be at reducing biofilm buildup, with the goal of dropping total CFU counts to 1 CFU/mL or less.

# Installed Equipment

A *HydroFLOW i100* unit was installed on the 4" potable water line entering the building.



A *HydroFLOW s38* unit, which was replaced by the Pearl Plus model in 2023, was installed on the incoming water line of 14 ice machines.

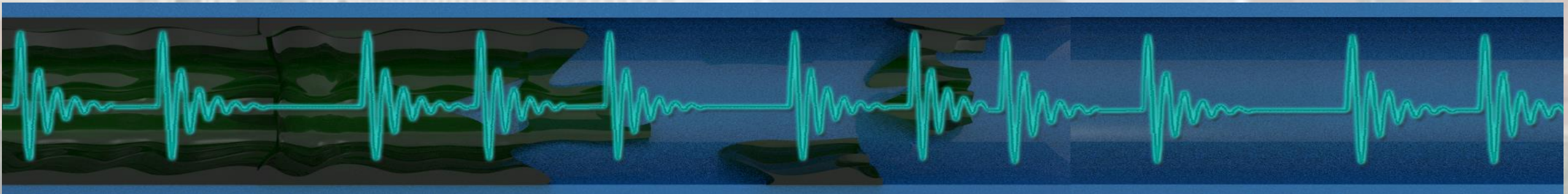


# Results

A couple of weeks after *HydroFLOW* was installed, the Legionella test sample results came back with an average below 1 CFU/mL. Most sample results were below the detection level and continue to be stable after 15 months. The hospital is planning to install *HydroFLOW* units in other buildings.

*“I wanted to believe this would work, but I had my doubts. The proof came in the test results; HydroFLOW took samples of 7 CFU/mL down to either 1 CFU/mL or nondetectable in 16 days and kept them there. I was bought-in after that.”* - Hospital Facilities Manager

Since *HydroFLOW* removes biofilm from plumbing systems, in a medical facility it's recommended to use *HydroFLOW* water conditioners in conjunction with a proper filtration system to ensure removed biofilm doesn't reach patients and staff. *HydroFLOW* has shown excellent results with a filter that utilizes Force Field™ technology.



For additional information, please contact: [sales@hydroflow-usa.com](mailto:sales@hydroflow-usa.com)