



● HOSPITAL

Legionella Reduction Hospital Case Study Indiana, USA

HydroFLOW® units reduced Legionella counts from 7 CFU/mL to below 1 CFU/mL in just 16 days, with most samples becoming non detectable.

🔒 Client details have been anonymised at their request.

<1 CFU Legionella Level Achieved	16 Days Reduction Time	15 Mths Stable Results	\$75k Treatment System Avoided
-------------------------------------	---------------------------	---------------------------	-----------------------------------

⇌ BEFORE & AFTER

● BEFORE

- 7 CFU/mL average Legionella level
- Expensive flushing and equipment replacement
- \$75,000 treatment system considered

● AFTER

- ✓ Below 1 CFU/mL within 16 days
- ✓ Most samples non detectable
- ✓ Stable performance after 15 months



OVERVIEW

A hospital in Indiana, United States, carried out quarterly Legionella testing across its potable water system, including ice machines and sinks. Results above 1 CFU/mL were considered problematic. Testing showed an average level of 7 CFU/mL, leading to costly system flushing and replacement of contaminated equipment. The hospital was considering a \$75,000 water treatment system before conducting a 90 day proof of concept trial with HydroFLOW® units to reduce biofilm growth and lower Legionella counts.



CHALLENGE

The hospital needed to control Legionella linked to biofilm growth in its potable water system.

- Quarterly tests showed Legionella above the 1 CFU/mL target
- Average contamination level reached 7 CFU/mL
- Flushing and equipment replacement were expensive
- A \$75,000 treatment system was being considered



SOLUTION

HydroFLOW® units were installed on the incoming potable water line and ice machine feeds to treat biofilm buildup and lower Legionella counts.

UNITS INSTALLED

1x HydroFLOW® i100, 1x HydroFLOW® S38

MAIN LINE

4 inch potable water line entering building

INSTALL DATE

July 2022

LAST INSPECTION

September 2023



INSTALLATION

HydroFLOW® i100 on potable water line



INSTALLATION

HydroFLOW® s38 serving 14 ice machines



RESULTS

Legionella Reduced

Average counts fell from 7 CFU/mL to below 1 CFU/mL.

16 Day Response

Samples reached 1 CFU/mL or non detectable levels in 16 days.

Below Detection

Most Legionella samples were below the detection level.

15 Month Stability

Results remained stable after 15 months.

Costly System Avoided

A proposed \$75,000 treatment system was not required.

Wider Rollout Planned

The hospital plans to install units in other buildings.



TESTIMONIAL

"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

An Indiana hospital used *HydroFLOW*® units as part of a 90 day proof of concept to address Legionella linked to biofilm growth in its potable water system. Average Legionella levels dropped from 7 CFU/mL to below 1 CFU/mL, with most samples becoming non detectable. Results remained stable after 15 months, helping the hospital avoid the need for a proposed \$75,000 treatment system and supporting planned installations in other buildings.

<1 CFU

LEGIONELLA LEVEL

16 Days

REDUCTION TIME

\$75k

COST AVOIDED

RELATED CASE STUDY

MGEN Centre Hospital Water Treatment

Trois-Epis, France

HydroFLOW® was installed at the MGEN Centre hospital in Trois-Epis, France for comprehensive water treatment. The system achieved 95% OPEX savings, 50% CAPEX savings, zero Legionella alerts and zero pipe clogging incidents over a five-year monitoring period.

95% OPEX Savings

Near-total reduction in operational water treatment expenditure

Zero Legionella

No Legionella alerts recorded throughout the five-year trial period

Zero Pipe Clogging

Completely eliminated pipe clogging issues over five years of use