



HOSPITAL

Hospital Ice Machine Biofilm Control Case Study USA

HydroFLOW® S38 reduced biofilm buildup in hospital ice machines, extending cleaning intervals and enabling rollout across all 112 units.

112

Machines Upgraded

3w

Biofilm Purge Time

10m+

Low Fouling Period



Cleaning Frequency



BEFORE & AFTER

BEFORE

- ✗ Cleaning every 3-4 months required
- ✗ Biofilm buildup inside machines
- ✗ Legionella risk in system

AFTER

- ✓ Hidden biofilm purged in 3 weeks
- ✓ Very low fouling over 10 months
- ✓ Extended cleaning intervals



OVERVIEW

A premier orthopedic surgery hospital in the United States operated 112 ice machines, each requiring cleaning every 3–4 months due to biofilm buildup and Legionella risk.



CHALLENGE

Frequent cleaning was required due to biofilm buildup and associated Legionella risk.

- 112 ice machines across facility
- Cleaning required every 3–4 months
- Biofilm buildup inside machines
- Legionella risk in water system

SOLUTION

1x HydroFLOW® S38 installed on water line feeding the ice machine to reduce biofilm and extend cleaning intervals.

UNIT INSTALLED

1x HydroFLOW® S38

INSTALLATION POINT

Ice machine water feed line

APPLICATION

Ice machine biofilm control

INSTALL DATE

July 2022



INSTALLATION

s38 on ice machine line



SITE

Ice machine unit



SITE

Inside of an ice machine



RESULTS



Biofilm Purge

Significant hidden biofilm released within 3 weeks.



Low Fouling

Very little fouling observed over 10 months.



Extended Intervals

Cleaning intervals extended beyond 3–4 months.



Reduced Risk

Lower Legionella risk due to reduced biofilm.



Full Rollout

Installed across all 112 machines.



Continuous Control

Ongoing control of biofilm accumulation.



TESTIMONIAL

"The HydroFLOW® water conditioner was able to flush out hidden biofilm our cleaning regimen didn't remove."

— Hospital Facilities Manager

KEY TAKEAWAY

Summary

HydroFLOW® S38 reduced biofilm in hospital ice machines, flushing hidden biofilm not removed by prior cleaning within 3 weeks and maintaining low fouling for over 10 months, leading to rollout across 112 machines.

112

MACHINES

3w

PURGE TIME

10m+

LOW FOULING



ADDITIONAL PHOTO EVIDENCE



RESULTS

Biofilm released from ice machine not removed by prior clean

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

HYDROPATH

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