



● COMMERCIAL HEATING/COOLING

Scale Reduction - Gas Station and Convenience Store Chain Case Study United States

HydroFLOW® units reduced scale and biofilm buildup across food service equipment and water systems, lowering maintenance requirements and improving efficiency across multiple locations.

400+

Store Locations

6-12m

ROI Period

30+

Protected Sites



Maintenance Effort



BEFORE & AFTER

● BEFORE

- Heavy scale buildup on fixtures
- Frequent cleaning of equipment
- Scale clogging hot water systems

● AFTER

- ✓ Scale released without manual cleaning
- ✓ Reduced cleaning across equipment
- ✓ Improved system performance

**BEFORE***Heavy scale buildup on fixture***AFTER***Scale removed after 3 months use*



OVERVIEW

A gas station and convenience store chain with over 400 locations across 12 states installed *HydroFLOW®* devices to reduce scale and biofilm buildup in food equipment, water heaters, ice machines and fixtures while lowering maintenance requirements across multiple store locations.



CHALLENGE

Scale and biofilm buildup across food equipment, water heaters and ice machines increased maintenance costs and cleaning requirements.

- Scale buildup in heaters, fixtures and equipment
- Frequent cleaning and descaling required
- Biofilm and scale accumulation in ice machines
- Ongoing maintenance costs across locations



SOLUTION

HydroFLOW® S38 and HS40 units installed on water heaters, ice machines and fixtures.

UNIT INSTALLED

***HydroFLOW®* S38 + *HydroFLOW®* HS40**

INSTALLATION POINT

Heaters, ice machines & equipment

APPLICATION

Food equipment & water systems

ROLLOUT

30+ stores installed



INSTALLATION

HydroFLOW® s38 on water heater



INSTALLATION

HydroFLOW® hs40 on water heater



INSTALLATION

HydroFLOW® s38 on ice machine



RESULTS

Scale Reduction

Visible reduction of hard scale across fixtures and equipment.

Cleaner Equipment

Heating elements and fixtures remained cleaner.

Reduced Maintenance

Reduced cleaning across store equipment

Biofilm Control

Reduced scale and biofilm accumulation

Cost Savings

Lower maintenance costs and improved efficiency.

Fast ROI

Return on investment within 6–12 months.



TESTIMONIAL

"After a few days of using HydroFLOW, we noticed hard scale is not sticking to the heating plate; the residue is powdery and easy to clean."

— Store Manager

KEY TAKEAWAY

Summary

HydroFLOW® s38 and hs40 units reduced scale and biofilm accumulation across multiple store locations, lowering maintenance requirements and delivering ROI within 6 to 12 months.

400+

STORES

6-12m

ROI

30+

INSTALLATIONS



ADDITIONAL PHOTO EVIDENCE



RESULTS

Loose scale released from piping



BEFORE

Scale buildup on fixture before treatment



AFTER

Fixture after 3 months treatment



BEFORE

Scale buildup on coffee maker



AFTER

Coffee maker after 3 months



RESULTS

Powdery scale easy to remove



RESULTS

Half a pound of purged scale from a store's water heater.



RESULTS

Loose scale powder collects in bottom & rinses out easily

RELATED CASE STUDY

Gas Station, Car Wash & Convenience Store

Maryland, USA

A Sheetz convenience store struggled with scale and biological growth that increased water, energy and maintenance costs. After installing a HydroFLOW® unit, chemical and water softener use was discontinued. A 90 day evaluation confirmed successful treatment and led to wider adoption plans.

90 Day Success

Evaluation confirmed effective scale and biological growth treatment.

Zero Chemicals

Chemical treatment was discontinued after HydroFLOW® installation.

No Water Softener

Water softener use was eliminated while maintaining performance.

HYDROPATH 

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