

Why Your Convenience Store Pays More for Water Than It Should — Around the Clock

Your walk-in coolers, fountain dispensers, and ice machines all draw from the same municipal supply — but your meter counts more than actually flows. **24-hour refrigeration cycling, fountain beverage dispensing, and ice machine fill-drain events create the conditions for air, gas, and turbulence to form in the line at your meter — and you're billed for all of it, around the clock.** The FCD (Flow Conditioning Device) corrects the measurement. Your store operations don't change. Your water bill drops — and so does your sewer bill, because sewer charges are calculated from the same inflated meter reading. One device. Two bills fixed.

WHY CONVENIENCE STORE WATER METERS OVER-READ

The Core Problem: Convenience Stores Run Continuous, 24-Hour Water Demand With No True Idle Period

Convenience stores draw metered water in continuous cycles — walk-in cooler compressors, fountain dispensers, and ice machines all running around the clock at 24-hour locations, all from the same supply meter. Each demand event generates air, gas, and turbulence in the line at the meter. Because the equipment never truly stops, the meter never gets a clean idle period to reveal air entrainment versus real usage. You pay for it on every bill, every month, every hour of every day.

THE THREE OVER-READING SOURCES UNIQUE TO CONVENIENCE STORES



Walk-In Cooler & Freezer Refrigeration Cycling

Beverage caves, dairy coolers, and frozen food cases cycle compressors continuously, one of the most persistent sources of entrained air at retail refrigeration-heavy locations.



Fountain Beverage & Slushie Dispensing

Carbonation and syrup-mixing systems draw water in frequent small cycles throughout the day and night, a pattern similar to high-volume beverage service.



Ice Machine Fill-Drain Frequency

Bagged ice production and fountain ice machines both cycle through fill and drain events continuously during operating hours.



The Sewer Bill Doubles the Impact — Even for Water That Never Entered a Drain

Municipal sewer charges are calculated as a percentage of metered water consumption. Every phantom gallon your meter over-registers generates a sewer charge alongside the water charge — even though that volume was never actually delivered. At a 24-hour convenience store with refrigeration, dispensing, and ice equipment all contributing to over-reading around the clock, the sewer multiplier compounds the cost of every over-read event across every billing cycle. The FCD corrects the water meter reading, which automatically corrects the sewer charge on the same bill.

BEFORE & AFTER THE FCD

WITHOUT FCD

- ✗ Air, gas & turbulence billed as water volume
- ✗ Refrigeration cycling inflates meter every shift
- ✗ Fountain & ice equipment compound over-reading overnight
- ✗ Sewer charge tied to inflated meter reading
- ✗ Problem persists even after meter replacement

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WITH FCD INSTALLED

- ✓ Metered volume reflects water actually delivered
- ✓ Refrigeration demand reads accurately
- ✓ Fountain & ice equipment measured correctly
- ✓ Sewer charge based on real water consumption
- ✓ Store operations, 24-hour service & equipment performance unchanged

5–30%

Average water & sewer bill reduction

46%

Highest documented single-site reduction

~1 Hour

Install time — water off about 1 hour

6-Mo

Money-back, no questions asked · install non-refundable

How the FCD Works — Four Steps

1

Installs between two pipe joints right after your water meter — water off about one hour

2

Creates a slight back-pressure that extends back through the meter, reducing air, gas, and turbulence

3

Delivers a laminar-like flow profile through the meter — the condition it was calibrated to read

4

Meter reads accurately. Bill drops. Refrigeration, fountain dispensing, and ice production are effectively unchanged.