



Why Your Quick Service Restaurant Pays More for Water Than It Should — and How to Fix It

Water Flow Innovations LLC

Flow Conditioning Device (FCD)
waterflowinnovations.com

Your ice machines, beverage dispensers, and handwash stations all draw from the same municipal supply — but your meter counts more than actually flows. **Rush-hour fixture cycling, pre-rinse and handwash demand, and beverage dispensing create the conditions for air, gas, and turbulence to form in the line at your meter — and you're billed for all of it.** The FCD (Flow Conditioning Device) corrects the measurement. Your restaurant 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 FAST FOOD RESTAURANT WATER METERS OVER-READ

The Core Problem: QSR Locations Run Concentrated, Simultaneous Water Demand During Rush Hours

Fast food restaurants concentrate their heaviest water demand into short lunch and dinner rush windows — ice machines, beverage dispensers, pre-rinse spray valves, and handwash stations all cycling on and off simultaneously, all from the same supply meter. Each demand event generates air, gas, and turbulence in the line at the meter faster than the meter can settle between them. You pay for it on every bill, every month, across every piece of equipment running at once.

THE THREE OVER-READING SOURCES UNIQUE TO QUICK SERVICE RESTAURANTS



Rush-Hour Simultaneous Fixture Demand

Ice machines, soda fountains, and handwash stations cycling on and off together during peak hours stack air entrainment faster than the meter can settle.



Ice Machine & Beverage Dispenser Cycling

High-turnover ice machines and CO2-carbonated beverage dispensers both create frequent fill-drain and pressure events at the meter.



Pre-Rinse & Handwash Demand

Health-code-mandated handwashing frequency and pre-rinse spray valve use add repeated on-off fixture cycling throughout every service period.



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 QSR location with ice, beverage, and wash equipment all contributing to over-reading simultaneously during rush hours, 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
- ✗ Rush-hour fixture cycling inflates meter every shift
- ✗ Ice machine & dispenser cycling compound over-reading
- ✗ 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
- ✓ Rush-hour demand reads accurately
- ✓ Ice machine & dispensing measured correctly
- ✓ Sewer charge based on real water consumption
- ✓ Kitchen operations, drive-thru speed & 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. Rush-hour service, ice production, and beverage dispensing are effectively unchanged.