

Why Your School District Pays More for Water Than It Should — and How to Fix It



Water Flow Innovations LLC

Flow Conditioning Device (FCD)
waterflowinnovations.com

Your cafeteria, restrooms, HVAC, and athletic facilities all draw from the same supply — but your meter counts more than arrives. **Cafeteria kitchen demand, HVAC cooling tower makeup, and athletic field irrigation create the conditions for air, gas, and turbulence to form in the line at your meter — and you're billed for it.** The FCD (Flow Conditioning Device) corrects the measurement. Every classroom, kitchen, and sports facility stays the same. 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 SCHOOL WATER METERS OVER-READ

The Core Problem: Every Dollar Saved on Water Is a Dollar Available for Classrooms, Not Utility Bills

School districts operate under fixed budgets where every utility dollar spent is a dollar not in the classroom. The FCD corrects meter over-reading at the municipal supply connection — the same meter that tracks every drop billed to the district. Savings appear on the next utility bill with no capital project, no bond measure, no grant required. It installs in about one hour with water off, and pays for itself from operating savings.

THE THREE OVER-READING SOURCES UNIQUE TO K-12 SCHOOLS



Cafeteria Kitchen Demand

Commercial kitchen equipment, dishwashers, and prep sinks creating high-velocity demand surges at mealtimes — generating air, gas, and turbulence at the supply meter during the school day's highest-demand periods.



Athletic Field Irrigation

Athletic field and landscape irrigation systems starting across multiple zones create high-volume open-valve surges — generating air, gas, and turbulence at the supply meter on every scheduled cycle.



HVAC Cooling Tower Makeup

School HVAC cooling tower makeup cycling with occupancy load creates continuous variable demand — compounding cafeteria and irrigation over-reading throughout every school operating day.



District-Wide Deployment: Each School Building Is a Separate Savings Opportunity

Every school building with its own metered supply is a standalone FCD installation. A district with 10 buildings at 10–20% savings each produces a meaningful operating budget reduction — documented on utility bills, reportable to the school board, and eligible for EPA WaterSense or state green schools program reporting without additional measurement infrastructure.

BEFORE & AFTER THE FCD

WITHOUT FCD

- ✗ Air, gas & turbulence billed as water volume
- ✗ Cafeteria demand inflates meter at every mealtime
- ✗ Irrigation startups compound over-reading
- ✗ Water budget overstated every billing cycle
- ✗ Sewer charge tied to inflated meter



WITH FCD INSTALLED

- ✓ Metered volume reflects water actually delivered
- ✓ Cafeteria demand reads accurately
- ✓ Irrigation startups measured correctly
- ✓ Water budget reflects true consumption
- ✓ Sewer charge based on real usage

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. Every classroom, cafeteria, restroom, and athletic system is effectively unchanged.

FREE SAVINGS ESTIMATE

Instant estimate — takes 30 seconds, no contact info required.

[waterflowinnovations.com/
water-bill-savings-calculator](https://waterflowinnovations.com/water-bill-savings-calculator)

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CERTIFICATIONS

IAPMO NSF/ANSI/CAN 61 KIWA GMP SQF

316L Stainless Steel · Made in USA
Under 0.8 psi pressure loss
Lifetime Transferable Warranty