



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

Water Flow Innovations LLC

Flow Conditioning Device (FCD)
waterflowinnovations.com

Your airport runs high-volume water 24 hours a day — but your municipal meter is counting more than actually arrives. **Cooling tower cycling, aircraft wash startups, and fire system test flows create the conditions for air, gas, and turbulence to form in the line at your meter — and you're being billed for it.** The FCD (Flow Conditioning Device) corrects the measurement. 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 AIRPORT WATER METERS OVER-READ

The Core Problem: Large Facilities with Multiple High-Volume Demand Sources All Hit the Same Supply Meter

Airports have some of the highest municipal water demand cycling of any facility type — HVAC cooling towers, aircraft wash bays, terminal food service, and fire system tests all draw from the same supply meter. Every high-velocity open-valve event creates air, gas, and turbulence in the line at the meter. Your meter registers it all as billable water. The FCD corrects that at the source.

THE THREE OVER-READING SOURCES UNIQUE TO AIRPORTS



HVAC Cooling Tower Makeup

Cooling tower makeup water demand cycles continuously with HVAC load — creating the variable open-valve conditions that generate air, gas, and turbulence at the supply meter around the clock.



Aircraft Wash System Startups

Aircraft washing operations create high-volume sudden demand events — exactly the open-valve surge conditions that drive the most significant meter over-reading at any airport facility.



ARFF Fire System Test Flows

ARFF fire suppression system tests create large, sudden demand surges — generating air, gas, and turbulence at the supply meter on every scheduled test event.



Your Airport Carbon Accreditation Water Intensity Score Is Better Than Your Meter Shows

Airport Carbon Accreditation tracks water intensity per passenger. When the supply meter over-reads, your reported intensity is higher than actual use. After FCD installation, metered intake reflects true consumption — improving your ACA water intensity score and ACI sustainability benchmarking, documented directly from utility bills.

BEFORE & AFTER THE FCD

WITHOUT FCD

- ✗ Air, gas & turbulence billed as water volume
- ✗ Cooling tower cycling inflates meter reading
- ✗ Aircraft wash startups compound over-reading
- ✗ ACA water intensity metrics overstated
- ✗ Sewer charge tied to inflated meter



WITH FCD INSTALLED

- ✓ Metered volume reflects water actually delivered
- ✓ Cooling tower makeup reads accurately
- ✓ Aircraft wash events measured correctly
- ✓ ACA water intensity reflects true use
- ✓ 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. HVAC performance, aircraft wash pressure, and ARFF readiness are effectively unchanged.

FREE SAVINGS ESTIMATE

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

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