



Why Your Medical Waste Facility Pays More for Water Than It Should — and How to Fix It

Water Flow Innovations LLC

Flow Conditioning Device (FCD)
waterflowinnovations.com

Your autoclaves, effluent treatment, and facility washdown all draw from the same municipal supply — but your meter counts more than actually arrives. Autoclave steam surges, effluent treatment cycling, and decon washdown 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 treatment cycle and protocol 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 MEDICAL WASTE FACILITY WATER METERS OVER-READ

The Core Problem: The FCD Corrects the Flow at the Municipal Meter — Not Your Validated Autoclave or Treatment Cycles

Your autoclave steam parameters, treatment cycle volumes, and effluent decontamination protocols are validated and regulated — and they stay exactly that way. The FCD installs immediately after your municipal supply meter, ahead of every treatment system. It corrects the measurement of total intake, not the water used inside your facility. Every validated treatment parameter and regulatory compliance requirement is effectively unchanged.

THE THREE OVER-READING SOURCES UNIQUE TO MEDICAL WASTE FACILITIES



Autoclave Steam Demand

Autoclave steam generation creates high-velocity boiler feedwater demand events — generating air, gas, and turbulence at the supply meter on every treatment cycle throughout each operating shift.



Effluent Treatment Cycling

Liquid effluent treatment systems cycling through treatment stages create variable high-volume demand events — compounding autoclave over-reading across every treatment run.



Facility Decon Washdown

Decontamination washdown of processing areas creates large, high-velocity demand events — exactly the open-valve conditions that generate the most significant meter over-reading per event.

Your NPDES & State Permit Water Balance Closes More Accurately After FCD Installation



Medical waste facilities reference metered intake for NPDES water balance and effluent ratio documentation. When the meter over-reads, those filings overstate intake. After FCD installation, metered intake more accurately reflects actual use — improving the accuracy of permit filing for Stericycle, Veolia, Clean Harbors, and public authority operators.

BEFORE & AFTER THE FCD

WITHOUT FCD

- ✗ Air, gas & turbulence billed as water volume
- ✗ Autoclave demand inflates meter each cycle
- ✗ Effluent treatment cycling compounds bill
- ✗ NPDES water balance overstates intake
- ✗ Sewer charge tied to inflated meter



WITH FCD INSTALLED

- ✓ Metered volume reflects water actually delivered
- ✓ Autoclave demand reads accurately
- ✓ Effluent treatment measured correctly
- ✓ NPDES water balance closes more accurately
- ✓ 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 autoclave cycle, treatment protocol, and decon procedure is 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