



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

Water Flow Innovations LLC

Flow Conditioning Device (FCD)
waterflowinnovations.com

Your SPD steam sterilizers, washer-disinfectors, and ultrasonic cleaners all draw from the same supply — but your meter counts more than arrives. Sterilizer demand, washer fills, and ultrasonic tank fills 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 that at the meter — ahead of every SPD system. Validated cycles stay 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 STERILE PROCESSING DEPARTMENTS (SPD) WATER METERS OVER-READ

The Core Problem: The FCD Corrects the Flow at the Municipal Meter — Ahead of Every Validated SPD Process

Your sterilizer cycles, washer parameters, and ultrasonic protocols are validated per AAMI ST79 and controlled downstream of the municipal meter. The FCD installs at the raw municipal meter before water enters any SPD system — correcting total intake without touching any validated cycle or Joint Commission requirement. Sterile processing integrity is unaffected.

THE THREE OVER-READING SOURCES UNIQUE TO STERILE PROCESSING DEPARTMENTS (SPD)



Steam Sterilizer Demand

Steam sterilizer boiler feedwater demand creates high-velocity events at the supply meter on every sterilization cycle — the most frequent and consistent over-reading source in any SPD, running continuously throughout every processing shift.



Washer-Disinfector Fill Cycles

Washer-disinfector fill cycles create high-velocity demand events on every instrument load — generating air, gas, and turbulence at the supply meter on every wash activation throughout every decontamination shift.



Ultrasonic Cleaner Tank Fills

Ultrasonic cleaner tank fills and water change events create high-volume open-valve surges — adding a third compounding over-reading source on top of sterilizer and washer demand throughout every operating day.



Your AAMI ST79 Water Balance & Joint Commission Environment of Care Records Are Better Than Your Meter Shows

SPD managers reference metered supply data for Joint Commission Environment of Care documentation, AAMI ST79 water quality records, and hospital sustainability reporting. When the meter over-reads sterilizer and washer demand, those records overstate intake. After FCD installation, metered intake more accurately reflects true use — improving the accuracy of water balance for Joint Commission surveys and IAHCSMM accreditation documentation.

BEFORE & AFTER THE FCD

WITHOUT FCD

- ✗ Air, gas & turbulence billed as water volume
- ✗ Sterilizer demand inflates meter every cycle
- ✗ Washer fill cycles compound over-reading
- ✗ Water records overstate municipal intake
- ✗ Sewer charge tied to inflated meter



WITH FCD INSTALLED

- ✓ Metered volume reflects water actually delivered
- ✓ Sterilizer demand reads accurately
- ✓ Washer fill cycles measured correctly
- ✓ Water records reflect true municipal intake
- ✓ 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 validated sterilizer cycle, AAMI ST79 parameter, washer protocol, and Joint Commission requirement 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