

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

Water is your single largest variable operating cost — and your meter is counting more than actually arrives. **High-pressure arch startups, RO system pump cycling, and reclaim system makeup demand 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. Wash quality, pressure, and chemistry 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 CAR WASH WATER METERS OVER-READ

The Core Problem: Car Washes Have the Highest Water Cost as a Percentage of Revenue of Any Retail Operation

Water cost is the dominant variable expense in car wash operations — making meter over-reading more impactful here than almost anywhere else. High-pressure arch startups and RO cycling are exactly the open-valve events that generate the most significant over-reading. The FCD corrects that at the supply meter without affecting wash quality, reclaim ratios, or any operational parameter downstream.

THE THREE OVER-READING SOURCES UNIQUE TO CAR & TRUCK WASH



High-Pressure Arch Startups

High-pressure wash arch startups create the most intense open-valve demand events of any car wash water use — generating maximum air, gas, and turbulence at the supply meter on every vehicle activation.



RO System Pump Cycling

Reverse osmosis system pump startups and pressure cycling create sudden high-velocity demand events — generating air, gas, and turbulence at the supply meter on every RO activation throughout the operating day.



Reclaim System Makeup

Water reclaim system makeup demand cycling with wash volume creates variable open-valve events — adding a third compounding over-reading source on top of arch and RO demand throughout every operating shift.



Your Water Cost Per Car Is Higher Than It Should Be — and the FCD Fixes It Permanently

Car wash operators track water cost per car as a core profitability metric. When the meter over-reads arch startups and RO cycling, that cost-per-car is inflated on every ticket, every day. After FCD installation, metered intake reflects true use — permanently lowering water cost per car and strengthening unit economics for ICA sustainability benchmarking and multi-site expansion.

BEFORE & AFTER THE FCD

WITHOUT FCD

- ✗ Air, gas & turbulence billed as water volume
- ✗ Arch startups inflate meter on every vehicle
- ✗ RO cycling compounds over-reading all day
- ✗ Water cost per car inflated on every ticket
- ✗ Sewer charge tied to inflated meter

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WITH FCD INSTALLED

- ✓ Metered volume reflects water actually delivered
- ✓ Arch startups read accurately
- ✓ RO system demand measured correctly
- ✓ True water cost per car revealed
- ✓ 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. Wash quality, pressure, chemistry, reclaim ratios, and every operational parameter are effectively unchanged.