

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



Water Flow Innovations LLC

Flow Conditioning Device (FCD)
waterflowinnovations.com

*Your paint shop, body wash, and cooling towers all draw from the same supply — but your meter counts more than arrives. **Paint booth water curtain cycling, body wash rinse surges, and cooling tower makeup 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. Paint quality and every production parameter 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 AUTOMOTIVE MANUFACTURING PLANTS WATER METERS OVER-READ

The Core Problem: Automotive Paint Shop Water Curtains Create Some of the Highest Sustained Open-Valve Demand in Any Manufacturing Plant

Paint booth water curtain systems run at high flow rates continuously during painting operations — generating sustained air, gas, and turbulence in the line at the meter throughout every production shift. Body wash rinse systems add high-volume on/off demand on top. Your paint quality specifications and body wash volumes are accurate. Your municipal bill is not. The FCD corrects that at the meter.

THE THREE OVER-READING SOURCES UNIQUE TO AUTOMOTIVE MANUFACTURING PLANTS



Paint Booth Water Curtains

Paint booth water curtain systems running continuously during painting operations create sustained high-velocity demand — one of the most significant over-reading sources in any auto plant, generating air, gas, and turbulence throughout every painting shift.



Body Wash Rinse Surges

Vehicle body wash and rinse systems cycling between production stages create large, high-velocity demand events — compounding paint booth over-reading on every production run and every shift change.



Cooling Tower Makeup

Plant HVAC and process cooling tower makeup cycling with production load creates continuous variable demand — adding a third compounding over-reading source throughout every operating day and billing cycle.



Your Water Intensity Per Vehicle Is Better Than Your Meter Shows

OEM sustainability reporting tracks water intensity per vehicle produced for CDP water disclosure, ISO 14001 environmental management, and customer ESG scorecards (Ford, GM, Stellantis, Toyota supply chain). When the meter over-reads paint booth and cooling demand, every reported figure is inflated. After FCD installation, metered intake reflects true use — improving the accuracy of all metrics without changing any production parameter.

BEFORE & AFTER THE FCD

WITHOUT FCD

- ✗ Air, gas & turbulence billed as water volume
- ✗ Paint booth curtains inflate meter each shift
- ✗ Body wash surges compound over-reading
- ✗ Water intensity per vehicle overstated
- ✗ Sewer charge tied to inflated meter



WITH FCD INSTALLED

- ✓ Metered volume reflects water actually delivered
- ✓ Paint booth demand reads accurately
- ✓ Body wash measured correctly
- ✓ True water intensity per vehicle 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. Paint quality specs, body wash volumes, cooling tower setpoints, and every production parameter 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