



Why Your Paint 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 plant runs on high-volume batch fills and washdowns — but your municipal meter is counting more than actually arrives. **Batch fills, color change washdowns, and simultaneous multi-vessel operations 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. Your formulations 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 PAINT PLANT WATER METERS OVER-READ

The Core Problem: Batch Fills and Color Change Washdowns Are the Highest-Intensity Open-Valve Events in Any Manufacturing Plant

Large-volume batch fills draw water at maximum flow rate — generating air, gas, and turbulence in the line at the meter on every fill event. Color change washdowns add high-velocity demand cycling on top. Your formulation water is accurate. Your municipal bill is not. The FCD corrects that at the meter without touching any vessel, pump, or formulation parameter.

THE THREE OVER-READING SOURCES UNIQUE TO PAINT & COATING PLANTS



Batch Vessel Fills

Large-volume vessel fills draw water at maximum flow rates — creating the most intense open-valve demand events in the plant and generating the most significant meter over-reading per event.



Color Change Washdowns

High-velocity washdown cycles between color changes create repeated large-volume on/off demand events — each one generating air, gas, and turbulence at the supply meter.



Mill Cooling Water

Mill cooling water cycling on and off with production load creates variable demand events that compound over-reading from batch fills and washdowns on every production shift.



Your Water Intensity Per Gallon of Paint Is Better Than Your Meter Shows

If your CDP water disclosure, sustainability reports, or retailer scorecards (Sherwin-Williams, PPG, AkzoNobel) use metered intake as the baseline, those figures are inflated by over-reading. After FCD installation, your reported water intensity per gallon of production becomes more accurate — documented from utility bills, verifiable without additional measurement infrastructure.

BEFORE & AFTER THE FCD

WITHOUT FCD

- ✗ Air, gas & turbulence billed as water volume
- ✗ Batch fills inflate meter on every production run
- ✗ Color change washdowns compound over-reading
- ✗ Water intensity per gallon overstated
- ✗ Sewer charge tied to inflated meter



WITH FCD INSTALLED

- ✓ Metered volume reflects water actually delivered
- ✓ Batch fills read accurately
- ✓ Color change washdowns measured correctly
- ✓ True water intensity per gallon 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. Every vessel, formulation, washdown rate, and production parameter 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