

MECHANICAL VS. AUTOMATIC NUTRIENT DELIVERY

Helping you choose the right nutrient delivery path
- whether upgrading your trusted Dosatron system
or making the move to full controlled automation.



Featuring the
Dilution Solutions IQ Controller
by Dosatron



IS IT TIME TO UPGRADE YOUR NUTRIENT DELIVERY SYSTEM?



Dosatron has long been a trusted solution for growers at every level—delivering simple, reliable, water-powered precision. But if you're still hand-watering, using basic irrigation timers, or seeking to remotely control recipes, it's worth asking: is your nutrient delivery system keeping up with your grow goals? Whether you're managing a few Dosatron pumps or running multiple Nutrient Delivery Systems, there's a smarter, more connected path forward.

Upgrade your current setup by integrating the advanced Dilution Solutions IQ Controller—bringing real-time monitoring, automated scheduling, and increased control to your existing Dosatron lineup(s). Or, centralize your operation with fully automated dosing pumps for a next-level fertigation and irrigation experience. Whichever route you choose, Dosatron gives you the flexibility to grow smarter, scale confidently, and maximize your yield.

This guide compares both systems to help you decide: enhance what you know, or upgrade to full controlled automation.

WHICH SYSTEM FITS YOUR GROW BEST?

	MECHANICAL	AUTOMATIC
CONTROLLER TYPE	Basic Irrigation Timer	Dilution Solutions IQ Controller
PUMP TYPE	Dosatron Water-Powered	Electric, Air, Motor Driven
POWER REQUIRED?	—	✓
FUNCTION	Water-Driven Piston	Diaphragm
MAX PUMP CONFIGURATION	8	16+
PRESSURE LOST PER UNIT	2-4 psi	0 psi
CONTROLLER REQUIRED	—	✓
FLOW SENSOR REQUIRED	—	✓
WATER FLOW RANGE	1-400 GPM	1-2500 GPM
INJECTION RANGE	1.25-379 ml/gal	0.2-500 ml/gal
APPLICATION (TANK FILL)	✓	✓
BATCH TANK FILL SENSORS	Mechanical Float	Automatic Water Level (Sensor)
APPLICATION (DIRECT INJECT)	✓	✓
REMOTE ADJUSTMENT	—	✓
SYSTEM CONTROL	Manual On/Off or Basic Scheduling	Automated Scheduling & Triggering
RECIPE SELECTION	1 per Nutrient Delivery System	100+ per Nutrient Delivery System
RECIPE STORAGE	—	✓
AUTOMATIC pH CORRECTION	—	✓
DATA & REPORTS	—	✓
ALARM FEATURE	—	✓
TRACKING (TOTAL WATER USE)	—	✓
TRACKING (TOTAL CHEM USE)	—	✓
SENSOR FEEDBACK (REMOTE)	Not Available	Real-Time Monitoring
PUMP MAINTENANCE	Annual Seal Kit	As Required (2+ Years)
SUBSCRIPTION FEES	✗	✗

FREQUENTLY ASKED QUESTIONS

Q: Can I upgrade my current Dosatron setup without replacing my entire system?

A: Yes! You can retrofit your system by pairing your Dosatron injectors with the Dilution Solutions IQ Controller for advanced irrigation scheduling and features. Further upgrades include a new Plumbing/Sensor Kit for real-time monitoring, an Ultrasonic Flow Sensor + Etatron pump for automatic pH correction, or even Water Level Sensors to automate batch tank fills and monitor liquid levels of any solution.

Q: Can I retrofit other (non-Dosatron) systems with the DS Controller?

A: Yes! You can retrofit other systems or integrate other preferred nutrient injection pumps with the DS IQ Controller to manage the fertigation and irrigation scheduling within a facility. Contact our Dilution Solutions representative below for more details.

Q: Do I lose my Dosatron pumps if I switch to automated controls?

A: Not at all. You can keep your Dosatrons and simply enhance them with advanced scheduling and monitoring, or transition gradually to automated pumps. Our software also has the ability to add Dosatrons for recipe visibility and chemical usage tracking.

Q: What's the biggest benefit of going full controlled automation with Dosatron?

A: Real-time monitoring, remote access, advanced scheduling, increased control, less maintenance, scalability, increased time and labor savings. Our automated system offers centralized control, pH correction, data logging, alarms, free software updates and much more with no subscription fees.

Q: What's the ROI on upgrading?

A: Users often see gains in crop consistency, reduced labor, and better resource tracking—quickly offsetting the initial investment.

Q: Who do I contact for a quote or consultation?

A: For a quote, fill out the Hydro Intake Form to the right and send to our Dilution Solutions Representative below. For a free consultation or to schedule a live Controller demo, contact our Representative.



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