



● AGRICULTURE

Irrigation System Limescale Treatment **Liguria, Italy**

Hydropath treatment stopped sprayer clogging and valve drips, helping a six-acre Cycas nursery maintain steady irrigation without pressure fluctuations.

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Sprayer Clogging

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Valve Dripping

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Steady Plant Irrigation

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Stable Irrigation Pressure



BEFORE & AFTER

● BEFORE

- Spray nozzles blocked frequently
- Valves and rails developed drips
- Sprayers required chemical cleaning

● AFTER

- ✓ No further sprayer clogging
- ✓ No drips from sealing valves
- ✓ Steady irrigation without pressure fluctuations



OVERVIEW

Vivaio Cycas cultivates Cycas plants across six acres in Liguria, Italy. A 2-inch HDPE irrigation line distributes well water with a total hardness of 35 °fH, equivalent to 350 ppm. Evaporation caused mineral deposits to form progressively on spray nozzles, valves and hydraulic rails, disrupting the irrigation system and increasing maintenance.



CHALLENGE

Hard well water formed deposits throughout the irrigation system, affecting spray performance and valve sealing.

- Spray nozzles blocked frequently as mineral deposits accumulated
- Sprayers had to be dismantled, chemically cleaned and reassembled
- Deposits on seals caused shut-off valves and hydraulic rails to drip
- Deposit build-up affected both spray nozzles and valve seals

SOLUTION

HydroFLOW® K40 was installed to treat the hard well water supplying the nursery.

UNIT INSTALLED

1x HydroFLOW® K40

PIPE SIZE

50 mm

INSTALLATION POINT

Irrigation line after transfer pump

WATER HARDNESS

35 °fH (350 ppm)

RESULTS

No Sprayer Clogging

After several months, the customer reported no further blocked spray nozzles.

Valve Drips Stopped

The irrigation circuit no longer dripped from the sealing valves.

Steady Plant Irrigation

Plants received steady and precise irrigation across the six-acre nursery.

Stable Irrigation Pressure

Irrigation continued steadily without pressure fluctuations.

KEY TAKEAWAY

Summary

HydroFLOW® treatment stopped sprayer clogging and valve drips, maintaining steady irrigation without pressure fluctuations.

ADDITIONAL PHOTO EVIDENCE



BEFORE

Mineral deposits inside a bottom valve

HYDROPATH 

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Contact HydroPath to discuss limescale treatment for your irrigation system.

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