



RESIDENTIAL POOL

Luxury Villa Pool & Domestic Water Treatment Tunisia

HydroFLOW® protected a villa's domestic water system while improving pool water quality, reducing chemicals by nearly 40% and eliminating flocculants.

~40%

Pool Chemicals Reduced

100%

Flocculants Eliminated



Pool Water Quality



Operating Costs



BEFORE & AFTER

BEFORE

- Alternating water sources increased limescale risk
- Pool relied on regular chemical treatment
- Flocculants increased operating costs

AFTER

- ✓ Domestic network gained limescale protection
- ✓ Pool chemicals reduced by nearly 40%
- ✓ Flocculants completely eliminated



OVERVIEW

A high-end villa in Tunisia uses both potable and well water and includes a combination boiler, private swimming pool and garden. The project aimed to protect the domestic water system from limescale while improving pool water treatment.



CHALLENGE

The villa required limescale protection and more efficient pool water treatment.

- Potable and well water increased limescale risk
- Pool treatment relied heavily on chemicals
- Flocculant use increased operating costs



SOLUTION

A HydroFLOW® Pearl was installed before the boiler feeds to protect the domestic network, while a K40 was installed on the pool circulation system to improve physical flocculation.

UNITS INSTALLED

1× HydroFLOW® Pearl & 1× K40

INSTALLATION LOCATION

Main cold-water feed & Pool circulation system



INSTALLATION

Pearl before boiler feeds



INSTALLATION

K40 on pool circulation



RESULTS

% Nearly 40% Fewer Chemicals

Pool chemical use was reduced by nearly 40%.

⊘ Flocculants Eliminated

Chemical flocculants were completely eliminated.

💧 Pool Water Quality Improved

The client observed improved swimming-pool water quality.

🛡️ Domestic Network Protected

Limescale protection improved despite alternating water sources.

KEY TAKEAWAY

Villa Water-Treatment Summary

HydroFLOW® improved pool water quality, reduced pool chemicals by nearly 40% and eliminated flocculants while protecting the villa's domestic water system.

~40%

POOL CHEMICALS REDUCED

100%

FLOCCULANTS ELIMINATED



POOL WATER QUALITY

HYDROPATH

The Forefront of Sustainable Water Treatment

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