



• AQUACULTURE

Civitavecchia Fish Farm Case Study Rome, Italy

HydroFLOW® replaced costly UV systems, eliminating bacterial and viral infection problems while improving fish health, water quality and reducing operating costs.

€1100

Monthly Energy Savings

2.5 Yrs

Infection Free Operation

10 kW

Eliminated



Faster Fish Growth



BEFORE & AFTER

● BEFORE

- High UV operating costs
- Recurring fish infections
- Poor water clarity

● AFTER

- ✓ Healthy fish population
- ✓ Improved water quality
- ✓ Lower operating costs



OVERVIEW

Civitavecchia Fish Farm near Rome operates a seawater aquaculture facility. Existing UV systems were costly to operate and struggled to fully control bacterial and viral infections. HydroFLOW® treatment replaced the UV systems in two phases across the hatchery, breeding pools and main hall, improving fish health, water quality and operating efficiency.



CHALLENGE

The farm needed a more effective and economical alternative to UV water treatment.

- UV systems struggled to control bacterial and viral infections
- UV systems cost around €1,100 per month to operate
- Water clarity required improvement
- Multiple treatment circuits required protection



SOLUTION

HydroFLOW® units replaced the existing UV systems in a two phase installation covering the hatchery, breeding pools and DN300 main hall filtration system.

UNITS INSTALLED

4x HydroFLOW® units + 2x HydroFLOW® Custom

INSTALLATION POINT

Hatchery, breeding pools and main hall

PIPE SIZE

DN300 main hall pipework

INSTALLATION

Two phase installation



INSTALLATION

Main hall installation



INSTALLATION

Units on breeding pools



INSTALLATION

HydroFLOW® installation



RESULTS



Healthier Fish

No further bacterial or viral infections after installation.



Lower Energy Costs

Saved approximately €1,100 per month for each UV unit replaced.



Better Water Quality

Improved water clarity and filtration performance.



Faster Fish Growth

Avanotteri fish outperformed previous UV treated results.



Reliable Operation

Over 2.5 years without bacterial or viral infections.



UV Systems Replaced

Energy intensive UV treatment was successfully replaced.

KEY TAKEAWAY

Summary

HydroFLOW® replaced costly UV systems at Civitavecchia Fish Farm, improving fish health, water quality and operating efficiency. Following a two phase installation, the farm reported over two and a half years without bacterial or viral infections while significantly reducing energy costs.

€1100

MONTHLY SAVINGS

2.5 Yrs

INFECTION FREE

10 kW

UV REPLACED

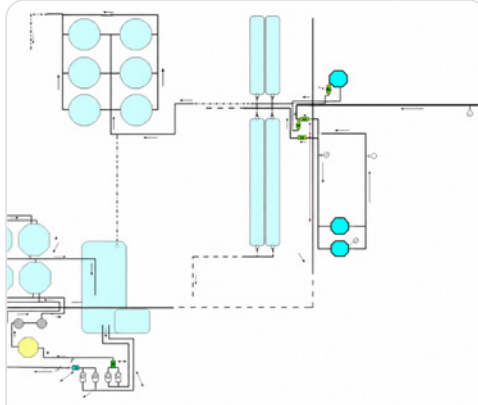


ADDITIONAL PHOTO EVIDENCE



SITE

Breeding tanks



DIAGRAM

Location of installed units



SYSTEM

Installed on filtration system



SYSTEM

Main hall tanks



SYSTEM

Main hall tanks

HYDROPATH

The Forefront of Sustainable Water Treatment

Hydropath Technology is a world leader in sustainable water treatment solutions, providing chemical-free alternatives for industrial and commercial applications across more than 50 countries.

50+

COUNTRIES

30+

YEARS EXPERIENCE

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UNITS INSTALLED

HYDROPATH

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