

MARINE

U.S. Navy Seafighter ASW Strainer Case Study United States

*Hydro*FLOW® HM Range reduced biofouling in the Seafighter ASW strainer, keeping the basket free of biofouling after 271 days of operation.

271 Days	↓	↑	✓
Biofouling Free Operation	Marine Growth	Performance	Successful Trial

⇄ BEFORE & AFTER

BEFORE

- Strainer cleaned every 2 to 3 months
- Biofouling built up on basket surfaces
- Growth visible at seawater intake

AFTER

- ✓ Strainer free of biofouling after 271 days
- ✓ Noticeably less growth at the intake
- ✓ Cleaning interval exceeded original target



BEFORE

ASW strainer basket before cleaning



AFTER

ASW strainer after 271 days

OVERVIEW

The United States Navy selected the Seafighter (FSF-1) as a platform to evaluate Hydropath Marine treatment for biofouling control in the vessel's auxiliary seawater cooling system. The ASW strainer previously required cleaning every 2 to 3 months. The evaluation aimed to determine whether a Hydropath Marine hm150 unit could extend cleaning intervals, reduce biofouling and maintain cleaner strainer operation over an extended period.

CHALLENGE

The ASW strainer required frequent cleaning due to biofouling in the auxiliary seawater cooling system.

- Routine strainer cleaning was needed every 2 to 3 months
- Biofouling accumulated heavily on the strainer basket
- Marine growth was visible around the seawater intake
- Cleaning intervals were shorter than desired

SOLUTION

HM150 unit was installed approximately 10 ft from the seawater intake, upstream of the ASW strainer on the discharge side of the ASW pump.

UNIT INSTALLED
1x Hydropath Marine HM150

INSTALLATION POINT
10 ft from seawater intake

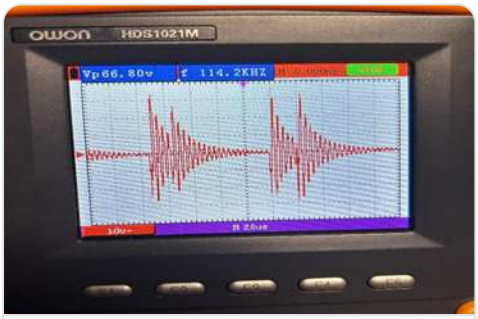
SYSTEM TREATED
Auxiliary seawater cooling system

ASSESSMENT DATE
July 2025



INSTALLATION

HM150 installed on ASW pipework



SIGNAL

Signal checked by oscilloscope



SITE

U.S. Navy Seafighter FSF-1

RESULTS

Biofouling Controlled
ASW strainer basket remained free of biofouling after 271 days.

Longer Cleaning Interval
Operation exceeded the previous 2 to 3 month cleaning cycle.

Cleaner Intake Area
Inspection showed noticeably less growth at the seawater intake.

Full Year Evaluation
The HM150 completed a full year operational evaluation.

KEY TAKEAWAY

Summary

The U.S. Navy evaluated a Hydropath Marine HM150 on the Seafighter auxiliary seawater cooling system to reduce ASW strainer biofouling. The strainer previously required cleaning every 2 to 3 months but remained free of biofouling after 271 days, with noticeably less growth at the seawater intake. The HM150 continued operating for a full year during the evaluation.

271 Days	↓	✓
BIOFOULING FREE	MARINE GROWTH	SUCCESSFUL TRIAL

🖼️ ADDITIONAL PHOTO EVIDENCE



BEFORE

ASW strainer basket before installation



AFTER

ASW strainer inspection after 365 days

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+	30+	1M+
COUNTRIES	YEARS EXPERIENCE	UNITS INSTALLED

HYDROPATH

Ready to reduce marine biofouling?

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