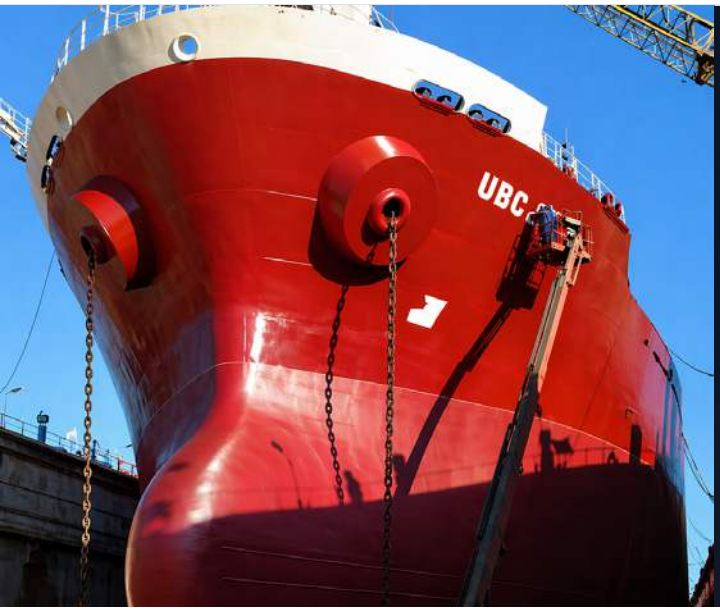

MARINE

Fresh Water Generator Case Study UBC Baton Rouge

*Hydro*FLOW® treatment replaced chemical dosing on the FWG onboard UBC Baton Rouge. Over a 179-day inspection period, water production remained stable and maintenance openings were reduced.

0	2	3x	↓
Chemicals Used	FWG Openings in 179 days	Longer Opening Intervals	Maintenance

⇄ BEFORE & AFTER

BEFORE

- ✕ FWG opened approximately once per month
- ✕ Cleaning typically took around 24 hours
- ✕ Hard scale deposits held plates together

AFTER

- ✓ No chemical dosing used after installation
- ✓ FWG operation remained stable
- ✓ FWG opened only twice over 179 days

OVERVIEW

UBC Baton Rouge is a 1998 vessel managed by Intership Navigation Co. Ltd. A HM100 unit was installed on the Alfa Laval 15 m^3/24h freshwater generator to replace chemical treatment for scale and marine growth control. The inspection period covered approximately six months, from 3 November 2015 to 30 April 2016, following installation during dry dock at the Port of Constanta, Romania.

⚠ CHALLENGE

The vessel required a solution to replace chemical treatment while reducing scale-related cleaning and maintaining FWG performance.

- FWG was typically opened once a month when output dropped by 5–6 m^3/24h
- Cleaning usually took around 24 hours including chemical treatment
- Hard scale deposits held the plates firmly together
- Plate removal required significant force

SOLUTION

A HM100 unit was installed on the FWG inlet pipe approximately 1 metre before the heat exchanger during dry dock in Constanta, Romania.

UNIT INSTALLED
1x HM100

INSTALLATION POINT
FWG inlet pipe, approx. 1 m before heat exchanger

INSTALL DATE
3 November 2015

INSPECTION PERIOD
179 days

INSTALLATION

HM100 on FWG inlet pipe

INSTALLATION

FWG inlet pipework

RESULTS

No chemical dosing used
No chemical dosing pump was used during the full inspection period.

Stable FWG operation
FWG water production remained stable with no loss of output over 179 days.

Only two maintenance openings
FWG was opened just twice for maintenance during the 179-day inspection period.

Longer maintenance intervals
Opening intervals increased by three compared to the previous chemical treatment.

KEY TAKEAWAY

Summary

A HM100 unit was installed on the Alfa Laval FWG onboard UBC Baton Rouge to replace chemical treatment for scale and marine growth. Before installation, the FWG was opened monthly and cleaning took around 24 hours due to hard scale deposits. Over 179 days, no chemicals were used, operation remained stable, and the system was opened only twice, extending maintenance intervals.

0	2	3x
CHEMICAL DOSING USED	FWG OPENINGS	LONGER OPENING GAPS

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50+	30+	1M+
COUNTRIES	YEARS EXPERIENCE	UNITS INSTALLED

RELATED CASE STUDY

Fresh Water Generator Case Study

MV Hoegh America

A HydroFLOW® unit was installed on the fresh water generator aboard the MV Hoegh America to combat scale on titanium plates. The unit successfully prevented scale formation, reducing both labor and chemical costs while maintaining optimal freshwater output.

Scale Prevention
Eliminated scale buildup on FWG titanium plate heat exchangers

Reduced Labor
Less manual cleaning required, freeing crew for other duties

Lower Chemical Cost
Reduced need for chemical descaling treatments aboard the vessel

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