



# BALLAST WATER TREATMENT RETROFIT SOLUTIONS

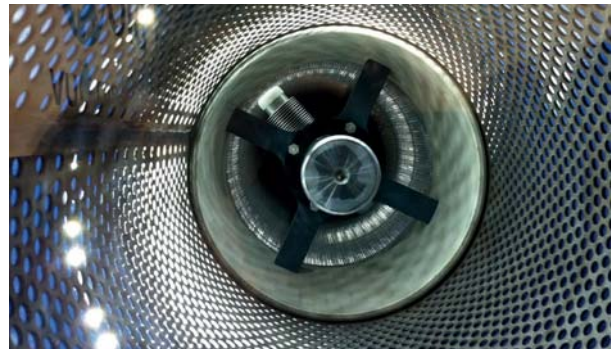
ONE STOP SHOP RETROFIT WORLDWIDE

DAMEN HELPS YOU SAIL WHEREVER BUSINESS TAKES YOU

**Under the International Maritime Organization (IMO) Ballast Water Management Convention (BWMC) ballast water will not be allowed to be discharged unless treated. In addition to the BWMC, other national bodies have introduced regulations in response to national concerns. The most influential of these is the United States Coast Guard (USCG).**

National and international regulations can seriously restrict your ship's operations if you don't prepare short term. Many vessels are expected to comply by installing a fixed type approved Ballast Water Treatment System (BWTS) on board.

Damen can help you. Damen has over 85 years of experience in shipbuilding and marine related conversions. To assist owners in meeting the ballast water management challenges, Damen offers worldwide one stop shop BWTS retrofit solutions.



**WE UNDERSTAND THAT INSTALLING A BWTS IS NOT SIMPLE AND THAT MANY FACTORS HAVE TO BE TAKEN INTO ACCOUNT, SUCH AS:**

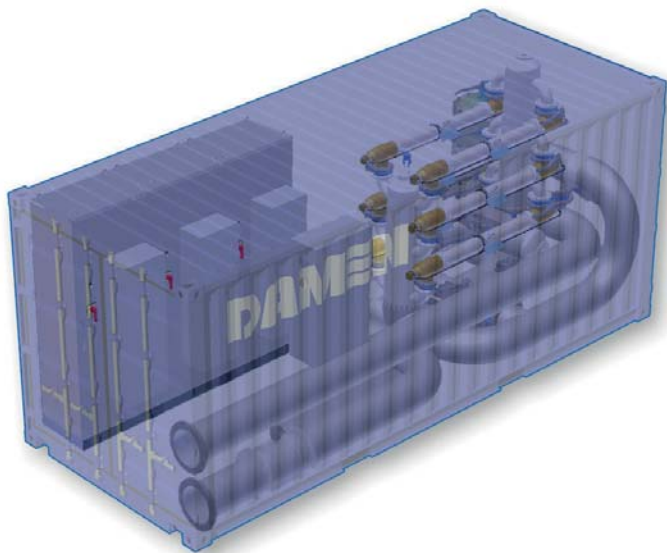
- Engine room space
- Available electrical power
- Ballast pumps capacities and min/max rates
- Class requirements
- Trading routes
- Health and safety
- Integration with existing systems
- Crew workload and training
- Capex and Opex
- System selection, availability, delivery and installation time



# DAMEN

**WITH OUR ONE STOP SHOP APPROACH WE OFFER YOU  
A COST EFFECTIVE TOTAL BWT SOLUTION:**

- System selection, Survey & 3D scanning, Engineering, Procurement, Installation and Service
- Required engineering capacity and experience
- Design of modular refitting or fitting prefabbed containerized solutions
- Turnkey installation by an experienced shipyard at a nearby location
- Development of a Ballast Water Management Plan
- Application of Damen selected type approved BWT systems
- Optimized project turnaround time
- Supporting Certification and Class
- Quick response time with our worldwide service support network



**KEEPS YOU SAILING**

Our services do not stop after installation. We provide training, system maintenance and deliver spare parts for your BWTS.

Damen Ballast Water Treatment Retrofit Solutions gives you peace of mind and will not let ballast water restrictions obstruct your future operation.



**WORLDWIDE SOLUTIONS**

Installation of a BWTS can be done at one of our Damen shipyards conveniently located worldwide. We can also install a system at a location of your choice or even during operation. Our experts use 3D scan techniques to create a custom engineering package to modify the vessel with the most economic, high quality Ballast Water Treatment System and will assure your system is ready on time.

We work with selected preferred BWTS suppliers in order to provide competitive efficient retrofit packages. Of course we can also install our customers' system of choice.

Please contact us at [green@damen.com](mailto:green@damen.com) or contact your local Damen Ship Repair & Conversion yard to discuss the possibility that suits you best.

**FOR MORE INFORMATION VISIT:**

[Damen.com](http://Damen.com)  
[Damenshiprepair.com](http://Damenshiprepair.com)



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