MOBILE BALLAST WATER DISCHARGE TECHNOLOGY

**INVASAVE 300**

**DIMENSIONS**
- Container: 12.2 m x 2.45 m x 2.75 m (LxWxH)

**TREATMENT CAPACITY**
- 300 m³/h

**UV POWER**
- Below 75 kW/h

**EFFECTIVENESS**
- Designed for low UV Transmittance

**BW PROCESSING**
- Fully automatic and monitored

**GENERATOR**
- IMO compliant

**DESIGN PRESSURE**
- 10 bar

**NOISE LEVEL**
- Meets highest standards

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DAMEN SHIPYARDS GROUP

Industrieterrein Avelingen West 20

P.O. Box 1

4202 MS Gorinchem

The Netherlands

phone: +31 (0)183 63 99 22

fax: +31 (0)183 63 21 89

info@damen.com

www.damen.com
Many owners are expected to comply with these regulations by installing an onboard Ballast Water Treatment System. For vessels with few ballast water discharges per year and for old vessels, fitting an onboard unit is a costly investment. Against this background Damen has developed its unique InvaSave Mobile Ballast Water Discharge Technology enabling port based ballast water management.

Damen's proprietary InvaSave Technology only needs treating at the point of ballast water discharge, in contrast to fixed onboard installations that also need to treat ballast water at intake. It is based on continuous fine filtration combined with Ultra Violet treatment. Sludge and sediment is dewatered and compacted in a secondary treatment so it can be safely further processed ashore. Treated ballast water meets at least the ballast water performance standard specified in Regulation D-2 of the Convention.

Damen can deliver the system as a self-sufficient mobile container, which can be put on board of a Damen Ballast Water Treatment Vessel or be moved around the port on a trailer, a pontoon or other types of vessels. Each Damen InvaSave 300 container unit handles 300 m³/h – it's easy to scale up if required by using multiple container units.

The system has been successfully tested in the challenging waters of the Wadden Sea (salt) and the IJsselmeer (fresh) in the Netherlands. The system is undergoing type approval testing during the course of 2014. IMO type approval is expected to be obtained beginning 2015 and patent is pending.

Please contact us at green@damen.com to discuss the solutions that suits you best.

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.