

## Damen to supply Air Cavity System to Amisco for reduced emissions

**Damen Shipyards Group is pleased to announce the first sale of its innovative Damen Air Cavity System (DACS) to Amisco. With its ambition to become the world's most sustainable shipbuilder, Damen has developed DACS to support maritime operators in their efforts to reduce fuel consumption and emissions.**

Damen will retrofit the DACS system to Amisco's cargo vessel *Danita* in Tallinn, Estonia. DACS is an air lubrication system, borne out of a collaboration between Damen and the Delft University of Technology (TU Delft). It maintains a thin layer of air over the flat bottom of a vessel's hull, reducing resistance in the water, thereby lowering drag and friction. As a result, the efficiency of the vessel is improved with fuel consumption reduced by up to 15%.

DACS offers vessel operators a straightforward solution, for both newbuild and existing vessels, to comply with regulations such as the Energy Efficiency Existing Ship Index (EEXI) and the Carbon Intensity Indicator (CII) as well as the EU Emission Trading System (ETS).

With DACS installed to *Danita*, Amisco will achieve the CII rating necessary to continue operating in the Baltic Sea in the face of new, stricter emissions regulations. At the same time, the considerable reduction in fuel consumption allows for a rapid return on investment.

"We are excited to partner with Damen and implement this new technology to reduce our emissions," said Allan Noor, CEO of Amisco. "The Air Cavity System is a game-changer for us, allowing us to lower the fuel consumption and reduce the CO2 emissions of our current fleet. This marks the initial phase in our continuous commitment to delivering value to our partners through our existing fleet, while collectively minimizing the environmental impact across the entire supply chain."

Rutger van Damen, Sales Manager at Damen Green Solutions, said, "We are proud to introduce this technology to the market. Reducing emissions is crucial for the future of our industry and DACS is a practical solution that can make a real difference."

During the verification of the fuel saving results, Damen was supported by the IACS class society, RINA. RINA played a pivotal role in verifying the impressive fuel-saving results achieved by Damen's technology and thoroughly examined the working principle of the air lubrication system.

With RINA's expertise and rigorous assessment, Damen received independent validation of the significant fuel savings realized through the implementation of DAMEN air lubrication system. This collaboration has further reinforced the credibility and reliability of DACS technology.

Pino Spadafora, Marine Commercial Senior Director at RINA, said, "Supporting Damen and Amisco in the application of a technology such as the DACS system is an honour for RINA. Fuel optimization is of paramount importance on existing vessels as much as new builds and cooperation within the industry is the way forward to finding new solutions".

By involving RINA in the sea trials, Damen demonstrated its commitment to transparency, accountability, and excellence.

Sergei Kravtšenko, Member of the Board at Tallinn Shipyard, one of BLRT Repair Yards, members of BLRT Grupp, said, "We are delighted that our long-term partner- Estonian-based shipping company Amisco has entrusted us with the installation of DACS system on board their vessel *Danita*. At BLRT Repair Yards, we take pride in our commitment to excellence and innovation in maritime installations. From expertise and decades of experience, our skilled team was ready to handle the project. This cutting-edge technology will definitely enhance vessel performance and contribute to a greener, more sustainable future. And we are proud to have been a part of the deal"

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### **Damen Shipyards Group - Oceans of Possibilities**

Damen Shipyards Group has been in operation for over ninety years and offers maritime solutions worldwide, through design, construction, conversion and repair of ships and ship components. By integrating systems we create innovative, high quality platforms, which provide our customers with maximum added value.

Our core values are fellowship, craftsmanship, entrepreneurship and stewardship. Our goal is to become the world's most sustainable shipbuilder, via digitalisation, standardisation and serial construction of our vessels.

Damen operates 35 shipyards and 20 other companies in 20 countries, supported by a worldwide sales and service network. Damen Shipyards Group offers direct employment to about 12,500 people.

[www.damen.com](http://www.damen.com)

### **RINA**

RINA, leading certification company and engineering company in Italy, provides a wide range of services across the Energy & Mobility, Marine, Certification, Infrastructure & Real Estate and Industry sectors. With net revenues in 2022 of 664 million euros, 5.300 employees and 200 offices in 70 countries worldwide, RINA is a member of key international organizations and an important contributor to the development of new legislative standards. [www.rina.org](http://www.rina.org)

### **BLRT Repair Yards - Every detail matters!**

BLRT Repair Yards, members of one of the largest industrial holdings in the Baltic Sea region - BLRT Grupp, represented by three shipyards - Tallinn Shipyard in Estonia, Western Shiprepair in Lithuania, and Turku Repair Yard in Finland.

The yards' main activities are design and technical support, repair, maintenance, and retrofit for a variety of vessel types. Also, yards offer shipowners an implementation of a wide range of green solutions to assist with compliance with industry regulations and decarbonization targets.

[www.blrtyards.com](http://www.blrtyards.com)

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#### **For further information please contact**

Rick van de Weg

Spokesperson

Damen Shipyards Group

+31 (0) 655 720 291

[rick.van.de.weg@damen.com](mailto:rick.van.de.weg@damen.com)

[damen.com](http://damen.com)

Giulia Faravelli

Global Communication Senior Director RINA

+39 348 6805876

[giulia.faravelli@rina.org](mailto:giulia.faravelli@rina.org)

Paolo Ghiggini

Head of Global Media Relations & Social Media RINA

+39 340 3322618

[paolo.ghiggini@rina.org](mailto:paolo.ghiggini@rina.org)

Victoria Silvestri

International Media Relations Manager RINA

+39 334 6539600

+44 7825 842731

[victoria.silvestri@rina.org](mailto:victoria.silvestri@rina.org)

Karina Kond

Head of Communications BLRT Grupp

+372 610 2403

[karina.kond@blrt.ee](mailto:karina.kond@blrt.ee)