

Press Contact

A-ROSA Flussschiff GmbH
Annika Schmied · Senior PR Manager
Loggerweg 5 · 18055 Rostock · Germany
Phone: +49 381 440 40 240
Email: presse.fluss@a-rosa.de



MEDIA RELEASE

A-ROSA announces further details of A-ROSA SENA's sustainability credentials

The first river cruise ship in Europe to generate electricity from exhaust heat

Rostock, 19 January 2022 – A-ROSA River Cruises has announced further details of the sustainability credentials of its new E-Motion ship A-ROSA SENA, which launches on the northern Rhine in May 2022. The range of technology features on board, which have been developed in partnership with the Concordia Damen shipyard, includes the ability to manage energy consumption in a highly efficient way and keep emissions to a minimum, making her the most climate-friendly river cruise ship on Europe's rivers. She will be the first river cruise ship in Europe to generate electricity from exhaust heat.

Key features include:

- The ship is hybrid powered and features an 'E-motion' concept that combines a diesel engine with an electric motor, powered by batteries. A key element of this system is the ability to store any extra energy generated by the diesel engine in the batteries and call up on it when needed. This process is known as 'peak shaving' and will ensure the ship runs as efficiently as possible at all times.
- A-ROSA SENA will be the first river cruise ship in Europe to be fitted with an exhaust heat recovery system that enables it to generate electricity from exhaust heat. This energy is then stored in the ship's batteries for use when required, ensuring both waste energy and emissions are kept to a minimum.
- The ship has an optimised hull, to reduce friction and thus energy consumption.
- In addition, any exhaust gases that are produced by the diesel engine will be treated with a SCR catalytic converter/particle filter. This means the ship will be able to significantly reduce emissions as it will capture at least 75% of the nitrogen oxides (NOx), and over 90% of the Particulate Matter (PM).

The combination of all these features working together will allow the ship to efficiently manage its energy consumption and reduce emissions when cruising. A-ROSA SENA can switch to battery power when arriving and departing ports enabling it to enter and leave emission-free and almost silently. While docked, the ship will connect to shore power, further bolstering the battery charge.

Focusing on keeping the rivers clean, A-ROSA SENA will feature a state-of-the-art waste water treatment plant on board, using membrane technology. This enables the waste water on board to be purified in an elaborate process and the waste produced is disposed of in the ports by specialist companies.

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As with all A-ROSA ships, disposable plastic is avoided wherever possible throughout the ship including the cabins, bar, restaurants and SPA-ROSA and all disposable products have been removed or replaced by sustainable alternatives. Furthermore, A-ROSA SENA is equipped with water dispensers, allowing guests to refill fresh glass bottles as often as they wish. Like the rest of the fleet, A-ROSA SENA will operate an efficient waste management system with any waste produced handed over to certified partners in selected ports.

Joerg Eichler, CEO of A-ROSA River Cruises comments: "Sustainability is key for A-ROSA as we look to protect the rivers we sail through for future generations. A-ROSA SENA demonstrates our commitment in this area and we are so proud that we are leading the way with some incredible features that make this ship the most climate-friendly river cruise ship in Europe."

Caption

Photos: A-ROSA River Cruises

About A-ROSA

A-ROSA is the creator of cruises with a difference that take in cities, towns and countryside along Europe's most beautiful rivers: the Danube, Douro, Rhine/Main/Moselle, Rhône/Saône and Seine. The current fleet is made up of 12 premium ships, all of which combine the amenities of a hotel (quality entertainment programme, modern facilities) with the benefits of a cruise. On board, Premium all inclusive rate guests can enjoy varied buffets, high-quality drinks and access to the SPA-ROSA, which features a sauna, massage room and gym. One of the highlights of the cruises is the opportunity to relax on the sun deck or balcony and watch the magnificent scenery drift by. The ships dock in central locations, close to the heart of European metropolises, renowned historical sites and famous cultural and natural attractions – providing unforgettable experiences. To ensure that the cruise is a hit with the whole family, there are generously sized cabins, a Kids Club and heated outdoor pools, as well as a programme to suit every guest's needs. What's more, children aged 15 and under travel free. A-ROSA Flussschiff GmbH is headquartered in Rostock/Germany and has sales offices in the UK and Australia.

Further information about the company as well as accompanying press material can be found at www.rosa-cruises.com/press