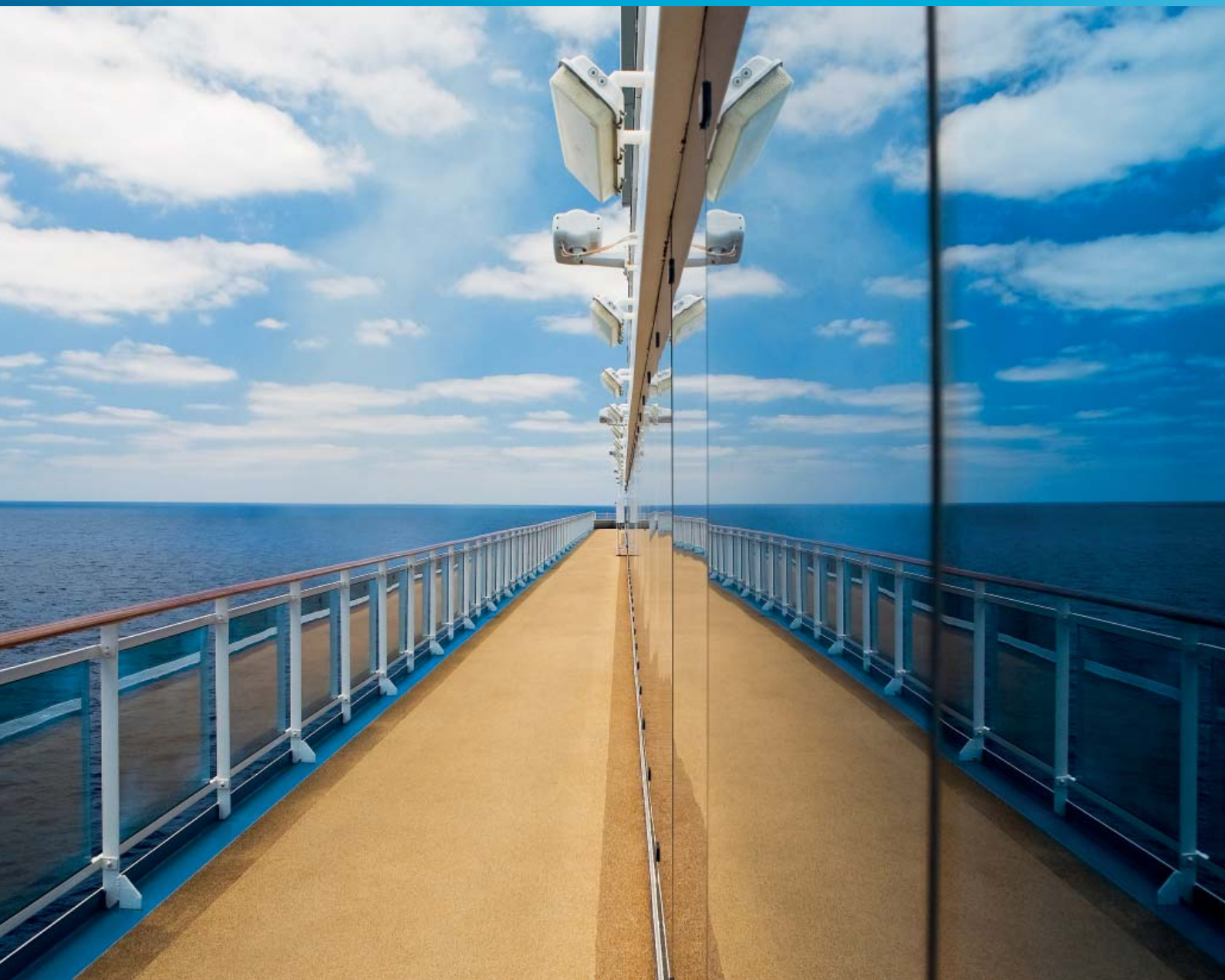


CRUISE CAPABILITIES



Wilhelmsen
Technical Solutions

OPTIMISE EFFICIENCY

without compromising on passenger comfort

The cruise and ferry industry has experienced continued passenger growth over the last decade. At the same time, cruise operators are facing costly demands for compliance with emerging safety and environmental regulations, and are improving the operational efficiency of key systems onboard.

The safety of passengers and crew onboard cruise vessels and ferries is of the highest priority, since the consequences of an accident are severe. With the industry's commitment to reducing its impact on the environment, regulatory compliance is a critical factor. Additionally, with the rising cost of fuel there is a focus on energy saving solutions to improve operational efficiency and thereby reducing operational cost.



As a result, the cruise and ferry industry is in need of effective solutions that keep passengers safe, have a minimal impact on the environment, and optimise installation and operational efficiency, without any compromise on passenger experience and comfort.

Wilhelmsen Technical Solutions is a global provider of cost efficient, fully engineered solutions, equipment and services for newbuilds and retrofits.

Cruise and ferry experience

We have extensive experience in providing environmental, safety, HVAC-R and power solutions designed specifically for the cruise and ferry industry.

Compliant and efficient solutions

Our solutions for safety, environment and climate control enable you to stay compliant with regulations, keep your passengers safe and comfortable, whilst minimising your environmental footprint. Our power management solution makes your vessel more efficient by optimising your energy usage, resulting in lower fuel consumption.

Life cycle services

We design, produce, install, commission and maintain our solutions through every phase of your vessel's life cycle, from the design and building phase, through the vessel's entire operating life and future conversions or retrofits. We are here for you today, tomorrow and in the future.

Local support worldwide

Consumables, spares, maintenance and support are available through our global network with a presence in all major ports, ensuring rapid response times.

Putting passengers first

With the peace of mind of tested and compliant solutions, and a global support network, you can focus on your primary goal: your passengers' safety, comfort and overall experience.



Environmental solutions

There is a constant requirement to stay compliant with regulations and a continuous focus on reducing the environmental impact of vessel operations. This requires innovative solutions with documented results.

Our product offer includes:

- Unitor Ballast Water Treatment System, preventing the transferral of invasive species
- Callenberg Energy Management Technology, reducing energy consumption
- Cold ironing, lowering emissions to air whilst in port
- NOxCare Marine, reducing NO_x emissions with up to 99%
- Unitor Oily Water Pod, ensuring overboard discharge levels of less than 15ppm

Our environmental solutions not only protect the environment and keep you compliant – they also keep your installation costs to a minimum, and reduce your total operating expenses.



Safety solutions

Ensuring the safety of passengers onboard cruise vessels and ferries is of the highest priority. Even small incidents can have severe consequences.

Our compliant, reliable and non-hazardous Unitor fire safety solutions range, using water, foam and clean agent, can be used in all areas onboard cruise vessels and ferries. Their design allows for space saving installation and minimum maintenance.

These efficient solutions allow for the early detection and suppression of fires without the need for evacuating passengers, ensuring the safety of your equipment, vessel, crew and passengers.



HVAC-R solutions

Cruise and ferry passengers expect high air quality and comfortable indoor temperatures to fit their individual preferences, irrespective of the outdoor climate.

Building on many years of experience in this field, our high quality, sophisticated and reliable HVAC-R solutions are designed with high quality fittings and controls. Our solutions deliver optimal air and temperature quality at all times with minimal noise levels for increased passenger comfort.

Space saving installation and low maintenance needs make this an economical solution for cruise vessels.



Power solutions

Expectations for passenger comfort and entertainment technology onboard result in high energy demands. With the increased cost of fuel combined with the focus on energy efficiency, sophisticated power management is a necessity.

Building on our longstanding experience with design and installation of power distribution systems, we have developed unique energy management software to calculate actual power consumption.

By using the Callenberg Energy Management Technology to balance power demand and distribution, optimal use of power is achieved, without jeopardising passenger comfort. The result is significantly reduced fuel consumption, emissions to air and operational costs.

Wilhelmsen Technical Solutions is part of Wilhelmsen Maritime Services, a Wilh. Wilhelmsen group company. We are a global provider of cost efficient, fully engineered solutions, equipment and services for newbuilds and retrofits in the maritime and offshore industries.

With a global network and local presence, we take responsibility for our solutions for the lifetime of customers' vessels, rigs and platforms.

www.wilhelmsen.com/technicalsolutions



Environmental solutions

We offer solutions for the management of water, waste, emissions to air and fuel efficiency that ensure your regulatory compliance.



Safety solutions

We deliver compliant fire prevention, detection and suppression solutions, and portable safety equipment that protect your assets and your people.



HVAC-R solutions

We provide HVAC-R solutions that deliver optimal air and temperature quality, with the advantage of low noise levels for increased comfort.



Power solutions

We provide solutions for optimising onboard power, power distribution and control systems that reduce operational costs and fuel consumption.