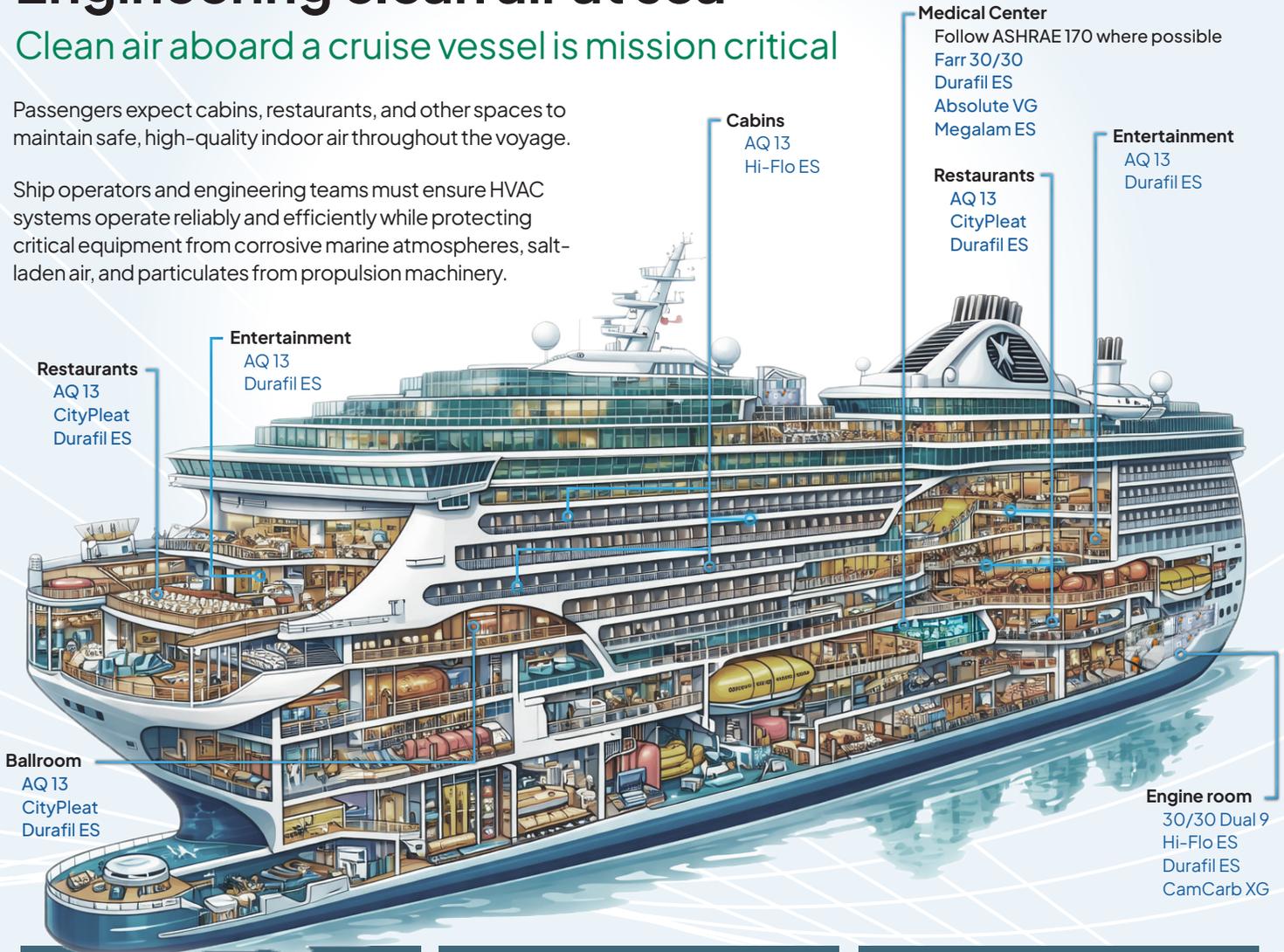


# Engineering clean air at sea

## Clean air aboard a cruise vessel is mission critical

Passengers expect cabins, restaurants, and other spaces to maintain safe, high-quality indoor air throughout the voyage.

Ship operators and engineering teams must ensure HVAC systems operate reliably and efficiently while protecting critical equipment from corrosive marine atmospheres, salt-laden air, and particulates from propulsion machinery.



### Robust air filtration

By controlling humidity levels and filtering both fresh and recirculated air, cruise ships maintain a comfortable, breathable environment for guests while simultaneously safeguarding critical onboard infrastructure from long-term corrosion and performance loss.

### Energy savings

Chief Engineers are key to energy management efficiency, ensuring that HVAC, and mechanical systems operate at peak performance with minimal waste. By optimizing and monitoring air filtration, they reduce operating costs, extend asset life, and support sustainability goals.

### Sustainability

Camfil has been focused on sustainability since 1963. As sustainability becomes increasingly important and requested by customers, we need to ensure that we keep this focus. Sustainability is not just something we do – it is who we are.

# Camfil clean air solutions

Safeguard health, performance, and sustainability at sea

As the global leader in clean air solutions, we deliver advanced filtration systems for every challenge



### Air quality for passengers and crew

Fresh on-board cabins, restaurants, and public spaces are vital for comfort, health, and a positive experience. High-performance air filters help maintain the HVAC systems in tip-top shape.



### Eye on sustainability

Ventilation and emissions control systems improve energy efficiency, reduce maintenance demands, extend equipment life, and lower emissions while maintaining safe, comfortable onboard conditions.



### Engine rooms and air intake protection

Conditions in cruise ship engine rooms are vital to safe operation and reliability. HVAC systems with high-performance filters reduce airborne contaminants, protecting crew and mechanical systems from corrosion and wear.



### Camfil LCC 3.0 and LCC Lite Real cost of clean air solutions

Camfil introduced filter life cycle costing software in the early 1990s, evolving it to include data from hundreds of Camfil and competitive filters. The latest version, Camfil LCC Green, evaluates efficiency, service life, labor, cost, disposal, and energy use using real-world facility data.



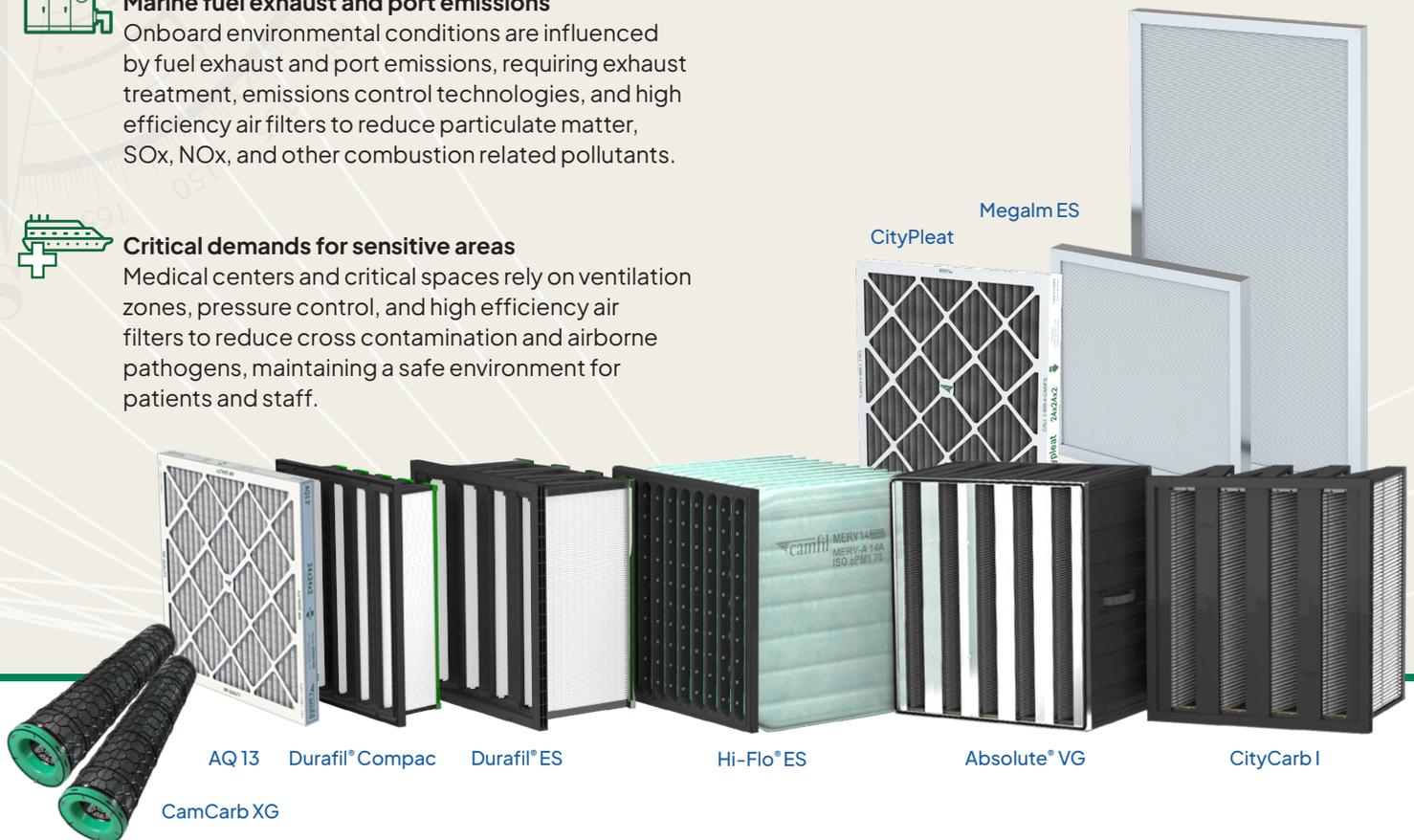
### Marine fuel exhaust and port emissions

Onboard environmental conditions are influenced by fuel exhaust and port emissions, requiring exhaust treatment, emissions control technologies, and high efficiency air filters to reduce particulate matter, SOx, NOx, and other combustion related pollutants.



### Critical demands for sensitive areas

Medical centers and critical spaces rely on ventilation zones, pressure control, and high efficiency air filters to reduce cross contamination and airborne pathogens, maintaining a safe environment for patients and staff.



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For further information, please contact your nearest Camfil office.



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