

Record Contract Win for World's Largest Cruise Liner



Fläkt Woods provided ventilation fans and auxiliaries for the world's largest cruise liner, the Freedom of the Seas.

■ FACTS

Customer:
Royal Caribbean International.

Need:
High efficiency ventilation fans and auxiliaries.

Solution:
Fläkt Woods JM Aerofoil Fans



Ventilation fans and auxiliaries for Freedom of the Seas

Fläkt Woods provided ventilation fans and auxiliaries for the world's largest cruise liner, the Freedom of the Seas.

The Company won the contract with Royal Caribbean International to supply 55 of its world renowned JM aerofoil fans.

The fans are typically installed to serve in the engine room, drive gear rooms, electrical rooms, and other functional service applications. The project is the factory's 7th ship set.

Monitoring equipment

For this project, the factory has also fitted bearing monitoring equipment as maintenance issues are high on the agenda for cruise operators.

Freedom of the Seas

Freedom of the Seas is the first of two Ultra Voyager class vessels, constructed at the Aker Finnyards Turku shipyard in Finland for Royal Caribbean International.

The 158,000 GRT vessel is the world's largest cruise vessel. The 339-metre-long vessel can carry 3,600 passengers on 15 passenger decks.

The ship features an interactive water park (including the FlowRider onboard wave generator for surfing), a dedicated sports pool (for volleyball, basketball, etc.), and whirlpools which extend from each of the ship's sides. In addition to these luxuries, she sports coffee shops and restaurants.



Other amenities include a rock climbing wall, ice skating rink, Wi-Fi capabilities throughout the ship, flat screen televisions in all state-rooms, and cell phone connectivity.

JM Aerofoil fans

- Fully adjustable die cast aluminium impellers; X-ray inspection
- Long and short mild steel casing variants - hot dipped galvanised after manufacture or stainless steel
- Tested to ISO 5801
- Motor protection IP55
- High energy efficiency - AMCA Certified
- Low installed noise levels
- Multiple blade configurations for optimum performance to duty
- Multi-stage available for higher pressure development
- Bifurcated variants for continuous operation up to 200°C
- Explosion proof options in accordance with ATEX directive

Applications

- General ventilation and extraction
- Cooling and refrigeration
- Electro-mechanical cooling
- Environmental control
- Emergency ventilation
- Pressure testing

Fläkt Woods Group

Fläkt Woods is a global company providing solutions for ventilation and air treatment for buildings as well as fan solutions for Industry and Infrastructure applications.

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