

INNOVATION COOLING THE WORLD'S MOST ADVANCED CRUISE SHIP AIDAPRIMA



NEXT GENERATION QUALITY

AIDAprima, the first of two new cruise vessels for Aida Cruises, was officially launched on May 3rd 2014 at the Nagasaki Shipyard of Mitsubishi Heavy Industries. It is the latest and largest ship ever built for the German ship-owner. The sister ship, yet to be named, follows in 2016.

AIDAprima and the sister ship are the most advanced cruise liners in the world and the largest ever constructed in Japan. And with the ZerAx® fans built into the air handling units (AHUs), they are set to be the most energy efficient vessels in their class. Both ships are in this aspect truly next-generation vessels.

The passenger experience is exceptional, among other things because Aida Cruises has gone to great lengths to ensure that the ships are the most fuel

efficient cruise liners ever built.

A SOLUTION OF SOLUTIONS

For the AIDAprima a special AC system had to be designed. The system should match uncompromising demands for quality, but also meet exceptionally stringent specifications for energy consumption.



The owner's detailed specifications outlined a unique AC system that required

the highest quality components and an entirely new design. It demanded the lowest possible energy consumption with easy maintenance and the ability to monitor and control everything to a level of detail never seen before.

IMPLEMENTING INNOVATION

The designed solution combines all the newest trends and components developed in recent years. The AIDAprima is the first to feature Novenco Building & Industry's ZerAx® axial flow fans in AHUs. Even when built into AHUs the ZerAx® can provide an incredible 90% efficiency and up to 40% less power consumption than traditionally fans. The ZerAx® fans are key components in lessening the environmental impact of the AC system, and it is crucial for Aida Cruises.

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THE NEXT EVOLUTION

The ZerAx® is Novenco Building & Industry's next evolution within the axial flow fans category. Years of experience and an exhaustive development process went into the design. All aspects of the renowned Novenco NovAx axial fans were turned over, evaluated and optimised. The result is a new fan with truly innovative design where the performance is remarkable and the efficiencies are groundbreaking.

The materials are primarily aluminium that are cast and milled very precisely. The assembly is done with high precision and the production is certified in accordance with the standards ISO 9001 and

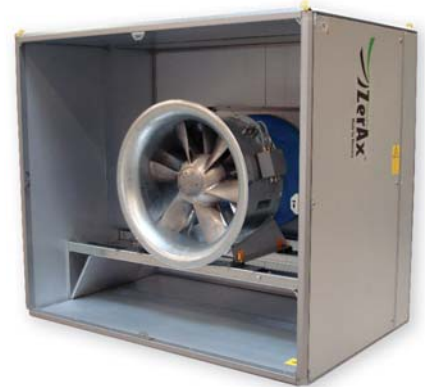
FACTS:

- EFFICIENCY UP TO 90%
- 50% REDUCED ENERGY CONSUMPTION

14001.

In the Aida Prima project, the ZerAx® is used in the AZL version designed specifically for building into AHUs. These fans are compact units with short fan casings, integrated inlet cones and connection flanges.

The AZL displays the same specifications and quality as other fans in the ZerAx® programme.



ZerAx® AZL built into AHU



name: AIDAprima
weight: 124,500 GT
length: 300m
beam: 37,6m
passengers: 3286
crew: 900



Air handling unit with ZerAx® inside