

# Ensolve solves bilge treatment for Azamara cruise ship

**A**zamara Cruises, a luxury cruise line brand established by Celebrity Cruises in 2007, has just completed installation of an EnSolve PetroLimiter 630M oily water separator (OWS) system on its 694 passenger cruise ship *Azamara Quest*.

Azamara elected to purchase the PetroLimiter system for the 2000 built 30,277gt *Azamara Quest* (ex - *R Seven*) after successful sea trials of a unit fitted on its sister ship, *Azamara Journey* (ex- *R Six*), last year. Originally built for Renaissance Cruises, both vessels had been sailing as part of the Spanish Pullmantur fleet which was purchased last year by Celebrity's parent company, Royal Caribbean Cruises Ltd.

"As conscientious environmental stewards, we are committed to keeping the world's oceans pollution-free," said Nikolaos Doulis, fleet director for Azamara Cruises. "The PetroLimiter system uses unique green technology, which has proven to be an effective and reliable tool for complying with the most stringent international clean-water standards."

"The PetroLimiter bilge treatment system on *Azamara Journey* is consistently achieving effluent levels well below Azamara's internal threshold of five parts per million for overboard discharge," said Dr Jason Caplan, president of EnSolve Biosystems based in North Carolina, USA. "Compared to the old mechanical OWS, data gathered aboard *Azamara Journey* indicates efficiency levels that translate to a significant



*The Ensolve PetroLimiter 630M as fitted on both Azamara's cruise ships*

annual saving per ship in operational costs related to maintenance, labour, hazardous materials disposal and shoreside pump out of waste tanks."

The system on *Azamara Quest*, which replaced the ship's existing OWS, was installed and commissioned during operation of the vessel. "Commissioning trials on *Azamara Quest* revealed effluent levels of less than one part per million," said Caplan.

EnSolve's patented PetroLimiter system is the first and only marine OWS that uses a combination of physical and biological means

to treat oily bilge water. It treats both pure and emulsified oil, as well as detergents, degreasers and other chemicals in the water. The system uses no flocculent or coagulant chemicals, generates minimal hazmats and produces no harmful by-products. It works totally unattended 24 hours a day and a built-in fail-safe oil content monitor ensures that no accidental discharge can occur.

The PetroLimiter 630M system is type-approved by the ABS and has been certified to meet IMO MEPC.107(49) clean-water standards for overboard discharge.



*Azamara Quest*