

Cruise Industry Decontamination Solutions

AeroClave is the world's foremost producer of large-scale decontamination equipment. Our primary mission is to combat the spread of infectious diseases.

The AeroClave Solution is a combination of energized Hydrogen Peroxide (eHP™) and Destroyer™ technologies that yield a full-spectrum 6-log sterilization in approximately one hour.

AeroClave has developed a family of comprehensive, cost-effective and environmentally safe solutions to sterilize assets of all sizes. All AeroClave solutions provide a full-spectrum kill that have been validated with the same FDA-approved process used to certify the cleanliness of pharmaceutical manufacturing facilities. The process has a low cost-per-cycle and is controlled through an easy-to-use computer interface. It is safe for all sensitive electronic equipment and can be used for the rapid and thorough decontamination of ambulances, police vehicles, buses, aircraft, hospitals, doctors' offices, nursing homes, schools, athletic training facilities and other buildings from a single room to the entire building. The operator training cycle is short and the equipment is easily serviced.

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The cruise ship industry is facing major financial challenges from the spread of infectious diseases on their ships. AeroClave's Cruise Industry Solutions provide cruise ship operators with a comprehensive solution to combat the spread of diseases on-board their vessels.

Cruise Ship Related Infections (CSRI)

In the year 2000, 10 million people traveled on cruise ships and that number is expected to grow by 40% to over 14 million by 2010.¹ According to CDC data, there were 248 individual reported cases of CSRI's in the year 2000. By 2009 that number rose to 1,729 reported cases, a **700%** increase.² These numbers show that the risk of infection for passengers and crew is growing at an exponential rate. In March 2010, the CDC, making a no-sail recommendation, forced an industry-leading cruise line to dock one of its ships for four days in an attempt to clean the infected areas. In addition to increased cleaning expenses, these events can cause disruptions of passenger itineraries and decreased revenues for cruise ship operators.

AeroClave's Room Decontamination System (RDS) is a powerful weapon to combat the epidemic rise of CSRI's and helps avoid the associated negative financial impact. The RDS uses a low concentration energized Hydrogen Peroxide (eHP™) process that rapidly and safely provides a full-spectrum 6-log sterilization. Low total cost of ownership and ease of operation make AeroClave equipment the most logical and cost-effective choice to combat CSRI's both proactively and reactively at every level of cruise ship operations.

Using eHP, the RDS can quickly, easily, and safely sterilize staterooms, suites, and crew quarters in approximately one hour. In addition, hallways, elevators, food preparation stations, and most public

areas can be sterilized in minutes with the AeroClave Portable Applicator (APA). The APA, a new feature added in 2010, is a hand-held device that allows the RDS to sterilize frequently touched surfaces such as handrails and slot machines on contact.



AeroClave's Cruise Ship Solutions/Benefits

- Increase cleaning effectiveness while lowering labor costs
- Full-spectrum 6-log sterilization of entire rooms in under one hour
- AeroClave Portable Applicator allows for easy and safe sterilization of common, high-traffic areas on contact
- Decrease expenses associated with post-outbreak care and clean-up
- Decrease potential liability with comprehensive reporting and validation
- Web-enabled software easily accessed on-board and shore side
- Environmentally-friendly process ensures a clean, safe environment for all on-board, helping to protect the health of guests and crew

¹"The State of the Cruise Industry in 2010". Cruise Lines International Association, January 2010

²"Outbreak Updates for International Cruise Ships". Centers for Disease Control and Prevention, May 2010

AeroClave Biodefense for the 21st century.

