

MARKET: Maritime

APPLICATION: High solids pre-filtration

How Spiral Water® Delivered Operational Efficiency, Eliminating Downtime for a Great Lakes Cargo Carrier

CHALLENGE: Clogged nozzles lead to costly downtime

The American Spirit is a bulk cargo carrier used primarily to transport iron ore across the Great Lakes. The ship is powered by two, heavy fuel-burning, Pielstick diesel engines that require a fresh water diesel emission scrubber to remove soot, gas emissions and other particulate byproducts. However, the fresh water pulled from the lake to be used by the scrubber often contains heavy solids, leading to clogged nozzles, time-consuming manual cleaning and operational downtime. Self-cleaning nozzles are expensive and don't always work; multiple filters add cost and maintenance. The owners of the ship needed a better option.

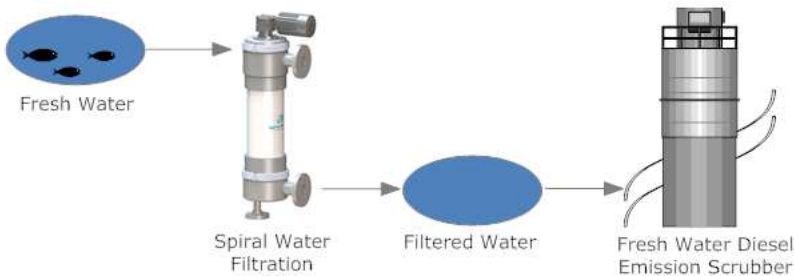
SOLUTION: Spiral Water's macro filtration of suspended solids

Spiral Water's filtration experts installed two, 50 micron, Model 810 Filters operating at 65 gpm to function as pre-filters for the scrubber's fresh water feed.



Model 810 duplex skid

APPLICATION FLOW CHART



"We're always trying to improve performance, and Spiral Water had a great solution to help American Spirit run at a higher level."

Marine Superintendent

SEE BACK FOR RESULTS →

RESULTS: Eliminating clogging keeps American Spirit running

With the removal of the heavy solids from the fresh water feed, the diesel scrubber is working as designed, reducing nozzle maintenance and maximizing uptime.

MARKET: Maritime

APPLICATION: High solids pre-filtration



BOTTOM LINE: Smart investment

By providing a simple, cost-effective solution to a costly problem, Spiral Water helped deliver the added efficiency needed for consistent operation, improving American Spirit's performance.

Contact a Spiral Water application engineer:
 1-844-2-SPIRAL
 engineering@spiralwater.com



Spiral Water®

A quantum leap in water filtration

ABOUT SPIRAL WATER

Founded in response to the growing need for more efficient and affordable clean water solutions, Spiral Water Technologies is working with companies across multiple industries to deliver breakthrough performance and innovative practices. Specializing in difficult-to-treat waters, Spiral Water has begun supporting maritime fleets to demonstrate how its proprietary filtering system adds efficiency and value.

Spiral Water Technologies, Inc.
 999 Andersen Drive, Suite 140
 San Rafael, CA 94901
 1-844-2-SPIRAL
info@spiralwater.com
www.spiralwater.com