



DELTA "T" SYSTEMS

858 W 13th Ct Riviera Beach, FL 33404

ENGINE VENTILATION SYSTEMS SAVE U.S. COAST GUARD MILLIONS



Operating a mighty fleet of constantly cruising patrol boats is incredibly expensive, considering the skyrocketing cost of fuel. To save millions of dollars in fuel and overhaul costs, the U.S. Coast Guard worked with Delta "T" Systems on a customized engine room ventilation system for its 87CPB patrol boats.

The 87' long, 15' wide, 90-gross ton 87CPBs have critical missions: homeland security, drug interdiction and rescue operations. They're powered by twin MTU 1,500 hp engines, each with twin electronic

turbochargers, and ZF marine gear. Two ships were built for the Malta government, two are under construction and 65 are in service along the U.S. coastline.

"Today's high-tech, turbocharged engines can't use natural ventilation anymore," said Allen Harker, contracting officer for the 87CPB project. "And if you don't give them enough air, it has a devastating effect."

Delta "T" Systems provided complete ventilation systems for the fleet, comprised of 24" intake and 19" exhaust axial fans, moisture eliminators and its P/T4 control system. "The product more than meets our expectations, with incredible reliability," Harker said.

Studies done by the Coast Guard determined that Delta "T" Systems' complete ventilation systems can save \$5 million in terms of fuel and engine overhaul expenses over the life cycle of each vessel in the 87CPB fleet. Each craft is expected to operate for 25-30 years.

Moisture eliminators installed on the craft eliminate damaging water and salt spray from entering the engine room. Dry air easily passes through the product's vertical channels but water droplets are trapped and drained away, preventing corrosion and engine wear. "The system Delta "T" developed to give you the air you need and separate the water out is tremendous," said Harker.

Intake axial fans were further modified by Delta "T" Systems with a turning vane and diverters to direct cool air where it's needed, "greatly improving an already satisfactory air flow," said Harker. It reduced the port engine's temperature by 59°F, creating greater fuel efficiency.

Delta "T" Systems' P/T4 automatically senses and controls the temperature and pressure in the engine room by adjusting intake and exhaust fans according to conditions. It can be preset to maintain a specific temperature and pressure or can be manually operated for

situations such as routine maintenance. The P/T4 is easy to operate with its color touch screen and built-in help screens.

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