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Mainstream Engineering Awarded Contract from US Marine Corps to make a Ruggedized Thermal Management System.

ROCKLEDGE, FL — July 17th, 2025 —

The Marine Corps is seeking to improve the HVAC system in various platforms of the Amphibious Combat Vehicle (ACV) in which the most prominent deficiencies are high noise, elevated difficulty in vehicle maintenance, and poor cooling distribution. Mainstream's solution incorporates an advanced vapor compression system with upgraded components and control strategies to maximize efficiency and supply 55,000 BTU/hr (16.1 kW) cooling while consuming only 1.35 kW of electrical power. Mainstream is leveraging a patented rotomolded housing, variable speed centrifugal blowers, advanced heat exchanger designs, and a modern control scheme to meet the performance targets.

About Mainstream Engineering Corporation

www.mainstream-engr.com

Mainstream Engineering Corporation is a 39-year-old Brevard County, Florida manufacturer with a history of leading-edge research and development that has resulted in advanced cost-competitive products, which are made in the USA. Mainstream's mission is to transition advanced R&D into high-quality, environmentally-safe, green, commercial products using lean manufacturing techniques. Areas of research include autonomous operation, AI, robotics, thermal control, energy conversion, power electronics, biomass conversion, chemical technology and materials science.

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