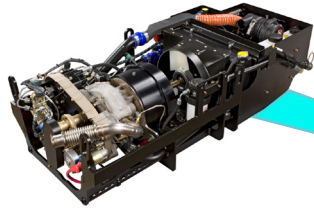
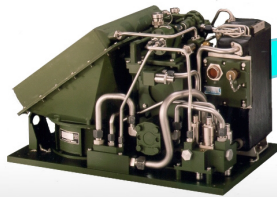


Integrated Auxiliary Cooling and Power Unit (ACPU) For Ground Combat Vehicles



Auxiliary Power Unit (APU)



Thermal Management System (TMS™)



ACPU fits on M1A1 tank bustle and can be reconfigured for other platforms.

Description

Meggitt Defense Systems Inc. (MDSI) of Irvine CA, and Patrick Power Products Inc. (P3I) of Elkridge MD, have partnered to develop and demonstrate combat ready, rugged, affordable, energy and fuel-efficient, auxiliary thermal management and power systems that can be easily integrated and supported on a number of US Army and international Ground Combat Vehicles to run and cool electronics.

The Integrated Auxiliary Cooling and power Unit (ACPU) is optimized for Size, Weight and Power (SWaP) effectiveness, power and thermal management efficiency, and reliability to operate on a variety of platforms in any and all environments.

The ACPU integrates MDSI's robust Thermal Management System (TMS™) with an innovative Auxiliary Power unit (APU). MDSI has delivered over 1200 TMS for the M1A2 SEP main battle tanks currently in operation with the U.S. Army and have another 600 on order.

The ACPU is designed to easily integrate onto today's platforms and support their growth while significantly reducing the dependence on vehicle main engine power generation in support of tomorrow's combat vehicle command, control, communications, defensive and offensive weapon systems electronics and vetronics.

MDSI and P3I estimate that the integrated ACPU will reduce dependence on vehicle engine power and cooling by over 40% on Platforms such as Abrams, Stryker, and Stryker families of combat vehicles while reducing wasted energy and vehicle fuel consumption and resulting logistics footprint by over 60%.

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