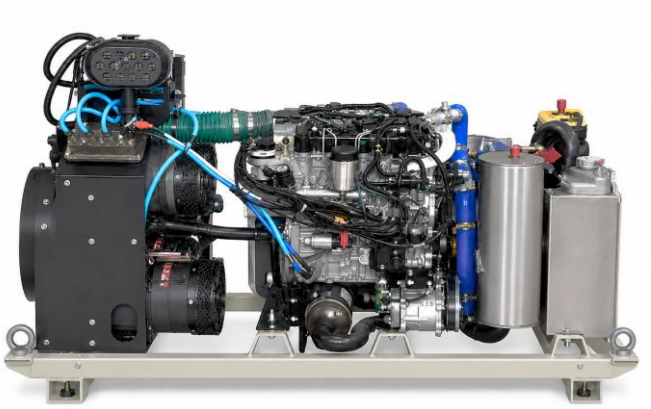
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The data presented here is for general guidance and does not constitute a commitment to accuracy or completeness.

APU 1

AUXILIARY POWER UNIT



- Modular self-contained APU
- Brushless air-cooled alternator
- 1710A, 28 VDC power output
- 8 kW cooling capacity
- 9 kW fuel burning heater
- Designed for +49°C ambient
- Robust construction for demanding environments
- R134a refrigerant

The Calatherm Auxiliary Power Unit 1 (APU1) HVAC is a fully integrated power unit developed for specialist vehicle applications.

Combining auxiliary electrical power generation, climate control and fuel-burning heating within a single self-contained package, the system delivers reliable performance in demanding operational environments. Featuring a brushless air-cooled alternator with a 28VDC, 1710A output, together with an 8kW air conditioning system, and 9kW fuel burning heater, the assembly provides efficient support for both vehicle systems and crew comfort.

Designed to operate in ambient temperatures up to +49°C, the modular architecture simplifies vehicle integration while reducing installation complexity. Engineered using proven components and robust manufacturing techniques, the system delivers dependable performance, improved maintainability and enhanced mission readiness throughout extended operational deployments.

BENEFITS

- Combines multiple vehicle support systems within a single integrated package.
- Reduces installation complexity through a compact, self-contained modular design.
- Provides reliable auxiliary electrical power for mission-critical onboard equipment.
- Maintains effective engine cooling during sustained operation in extreme climates up to +49°C.
- Delivers dependable cabin heating and cooling for improved crew comfort.
- Supports mission readiness through reliable thermal management and power generation.
- Reduces vehicle downtime through simplified maintenance and accessible service components.
- Improves whole-life cost efficiency through durable construction and proven components.

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TECHNICAL SPECIFICATION

System Type	Auxiliary Power Unit
Engine	Ford 1.6l Tiger Diesel
Cooling Pack	Yes, 240 kW heat rejection
Power Output	1710A, 28 VDC
Cooling Capacity	8 kW
Heating Capacity	9 kW with fuel burning heater
Control Module	Engine ECU & Injector module
Ambient	Up to +49°C
Mass	320 Kg
Dimensions	1,790 x 791 x 1,042 mm

Note: Other systems and designs are available.

OUTLINE DIMENSIONS

