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APU 3

AUXILIARY POWER UNIT



- 24 VDC electric drive air cooling system
- Diesel APU with 9 kW air cooling capacity
- +49°C Ambient
- Fixed displacement scroll compressor
- Twin belt drive compressor arrangement
- Compact single modular chassis construction
- Dual internal air handling units
- Optimised airflow distribution
- Heavy-duty design for harsh environments
- Low maintenance
- Suitable for continuous stationary operation

The Calatherm Auxiliary Power Unit 3 (APU3) has been engineered to meet the demanding requirements of specialist vehicle applications. Built using proven components from established industry suppliers, the system is designed to deliver reliable performance, high availability and extended service life in harsh operating environments.

Advanced manufacturing processes and modern engineering techniques have been employed to optimise structural integrity while reducing overall system weight. Intelligent automotive control technology minimises electrical power consumption, improving operational efficiency without compromising cooling performance.

The modular design supports ease of installation, inspection and maintenance, reducing vehicle downtime and whole-life ownership costs. Delivering dependable climate control in ambient temperatures up to +49°C, the Calatherm APU provides an effective and robust solution for demanding operational deployments, ensuring enhanced crew comfort, improved mission readiness and consistent performance throughout extended periods of stationary or deployed operation.

BENEFITS

- Reduces engine idling, lowering fuel consumption and operating costs.
- Improves operator comfort during extended stationary vehicle operation.
- Minimises engine wear by eliminating unnecessary idle running hours.
- Delivers consistent cooling performance in extreme climates and high ambient temperatures.
- Supports mission readiness through reliable climate control in demanding operational environments.
- Reduces whole-life ownership costs by increasing component longevity and serviceability.
- Maximises vehicle availability with dependable operation and simplified service access.
- Enhances crew temperature comfort during extended deployments.

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TECHNICAL SPECIFICATION

System Type	Auxiliary Power Unit
Engine	Lombardini FOCS 1404
Cooling Pack	Integrated
Power Output	5 kW
Electrical System Voltage	24 VDC
Cooling Capacity	9 kW
Heating Capacity	n/a
Control Module	APU control available
Ambient Operating Temperature	Up to +49°C
Mass	165 Kg
Dimensions	769 x 769 x 714 mm

Note: Other systems and designs are available.

OUTLINE DIMENSIONS

