

MILITARY APPLICATIONS

AIR CONDITIONING SYSTEMS



FOR PERSONNEL AND EQUIPMENT


Eberspächer



MILITARY VEHICLE AIR CONDITIONING

Eberspächer designs and integrates a cooling system to provide air conditioning for vehicle applications. Our internal design team can engineer a solution to meet the toughest environment. From one-off to production quantity, we are able to provide the equipment which will ensure that we establish a temperature controlled environment for both equipment and personnel on the move, in wheeled and tracked vehicles.

MILITARY VEHICLES

Purpose designed complete or part systems to meet defence standards for both wheeled and tracked vehicles.

MILITARY MOBILE SHELTERS

Shelter environmental cooling systems (ECS) are normally based around mains voltage technology from single phase 230V 50Hz to three phase 400V 50Hz. These are purposed designed to meet mission critical performance including weight, cooling and heating capacities and space envelope constraints.

GENERAL SPECIFICATION (VEHICLE SYSTEMS)

Cooling Capacity	Up to 12kW
Heating Capacity	Up to 12kW
Voltage	12 or 24V DC
Compressor	Engine Driven
Operating Ambient Temperature (°C)	-46 to +49
Storage Temperature Range (°C)	-46 to +71
EMC Compliance	Def Stan 59-41 Land Class A

Suitable for worldwide operating conditions

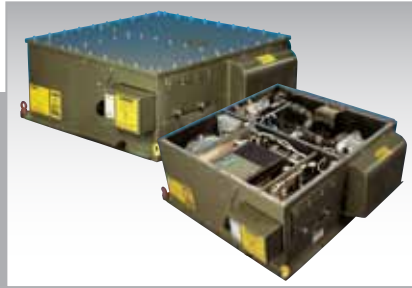
QUALIFICATION TESTING

- Preliminary hot cycle diurnal climatic testing to A1 (Def Stan 00-35) in the Eberspächer chamber, including storage. This allows system testing in isolation from the vehicle / shelter installation, verifying performance and capacity.
- Low temperature testing to -33°C in the Eberspächer chamber.
- Complete system testing in the Eberspächer main vehicle workshop where ambient temperatures up to 40°C can be achieved to enable functional testing at higher ambients prior to external test house testing.
- Complete system testing when integrated into the vehicle is carried out at external test facilities.
- EMC testing to Def Stan 59-41.
- Automotive trials for completed systems is normally carried out by the customer as part of the total system testing and has included off-road wheeled vehicles and tracked vehicles.
- Vibration and shock testing to defence standards.

Vehicle systems typically use engine mounted compressors to provide cooling for the vehicle occupants whilst the vehicle is on the move.

Using standard Eberspächer product, which is then modified to meet military requirements, systems are available to operate up to 49°C.

All types of military vehicles are supported including “white” general service vehicles through to “green” armoured, light defence and specialist vehicles.



BESPOKE SHELTER AIR CONDITIONING

Eberspächer have designed and supply dedicated air conditioning systems for shelter applications. We have proven systems widely operating around the world providing cooling and heating for extreme environments. These rugged, powerful units are fully tested to meet high specifications which are expected for this tough application. Choose from our range or specify a dedicated unit to meet your unique specification.

GENERAL SPECIFICATION (SHELTER SYSTEMS)

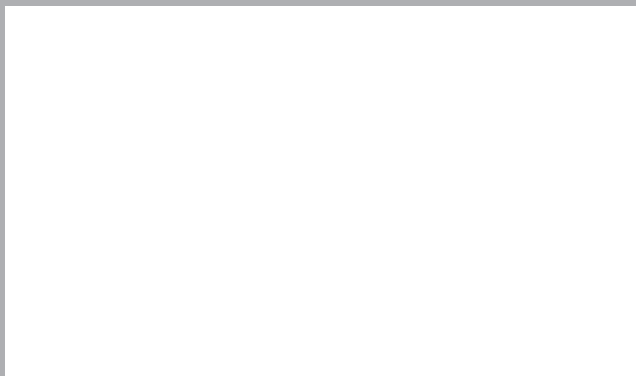
Cooling Capacity	Up to 9kW
Heating Capacity	Up to 6kW
Voltage	24V DC, 240V AC and 400V AC
Compressor	Integral
Operating Ambient Temperature (°C)	-46 to +49
Storage Temperature Range (°C)	-46 to +71
EMC Compliance	Up to Def Stan 59-41 Land Class A

Suitable for worldwide operating conditions



THE COMPREHENSIVE EBERSPÄCHER PRODUCT RANGE ALSO INCLUDES HEATING,
AIR CONDITIONING AND REFRIGERATION SYSTEMS FOR COMMERCIAL VEHICLES,
MOTORHOME, CARAVAN AND MARINE APPLICATIONS.

MORE INFORMATION IS AVAILABLE FROM ONE OF OUR 5,000 SERVICE PARTNERS
WORLDWIDE.



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