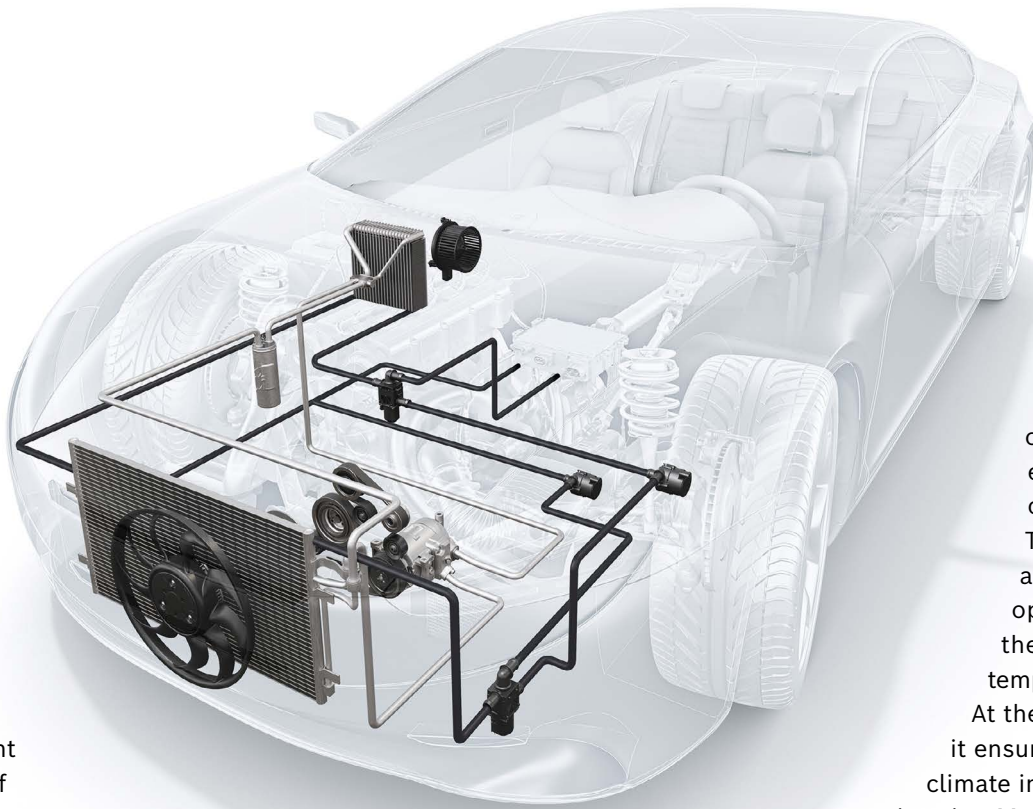


Comprehensive range of Bosch thermal management portfolio

From engine cooling to air conditioning – needs-based Bosch vehicle solutions

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Thermal management in modern vehicles is becoming increasingly complex. Bosch is responding to this development with decades of expertise and an expanded portfolio that offers the aftermarket a comprehensive range from a single source. The proven range of engine cooling products has been supplemented by the essential components of vehicle air conditioning.

**Thermal management:
A system with multiple tasks**

A modern thermal management

system is crucial for the reliable operation of a vehicle by protecting components from thermal overload through optimal operating temperatures, contributing to efficient engine operation, and supporting a pleasant interior climate. Its main task is to

optimize the entire heat and cold balance. This ensures that all components operate within their optimum temperature range. At the same time, it ensures a pleasant climate in the vehicle interior. Managed by a control unit, components such as coolant pumps, valves, and fans ensure precise on-demand circulation of heat and cold. Bosch has a profound understanding of the entire system and already offers the aftermarket a wide range of electric coolant pumps, solenoid valves, and engine cooling fans.

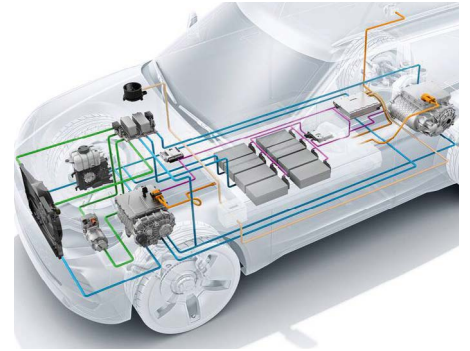


Bosch – workshop partner for air conditioning components

New to the program: Comprehensive range for air conditioning systems

For over 15 years, Bosch has been a competent partner for workshops with its wide range of fully automatic A/C service units and accessories for the maintenance of air conditioning systems in vehicles. To also support in the event of repairs, Bosch is now including the key components of modern vehicle air conditioning systems in its European-wide workshop program.

electric vehicles. This keeps the battery, electric motor, and power electronics within the optimum temperature range to ensure reliable operation.



Thermal management with an important dual function in the electrified drive system



Parts, test equipment and services for thermal management

With Bosch, workshops benefit from a comprehensive range for professional maintenance and repair services:

- Comprehensive parts program for air conditioning systems: A/C compressors, condensers, dryers, expansion valves and evaporators
- Comprehensive parts program for engine cooling: electric coolant pumps, engine cooling fans and solenoid valves
- Additional parts program: cabin blowers, cabin filters and drive belts
- Proven workshop test equipment: A/C service units from the ACS series for professional maintenance of air conditioning systems
- Accessories: The range is complemented by high-quality compressor oils, leak detection kits, and other accessories
- Knowledge transfer: The Bosch training center offers, among others, the legally required certificate for work on air conditioning systems

Important role of thermal management in e-mobility

The increasing electrification of mobility causes high demands on thermal management. In hybrid and electric vehicles, the coolant and air conditioning circuits merge into a highly complex overall system. This gives the refrigerant circuit an important additional function: previously used primarily for interior cooling, the refrigerant circuit will in future also be used to cool the power-train components of hybrid and

Bosch – Partner of the workshop

With its in-depth expertise in both areas – engine cooling and vehicle air conditioning – Bosch remains a reliable partner for workshops to successfully master the challenges of thermal management in the future.



Bosch spare parts program for thermal management