

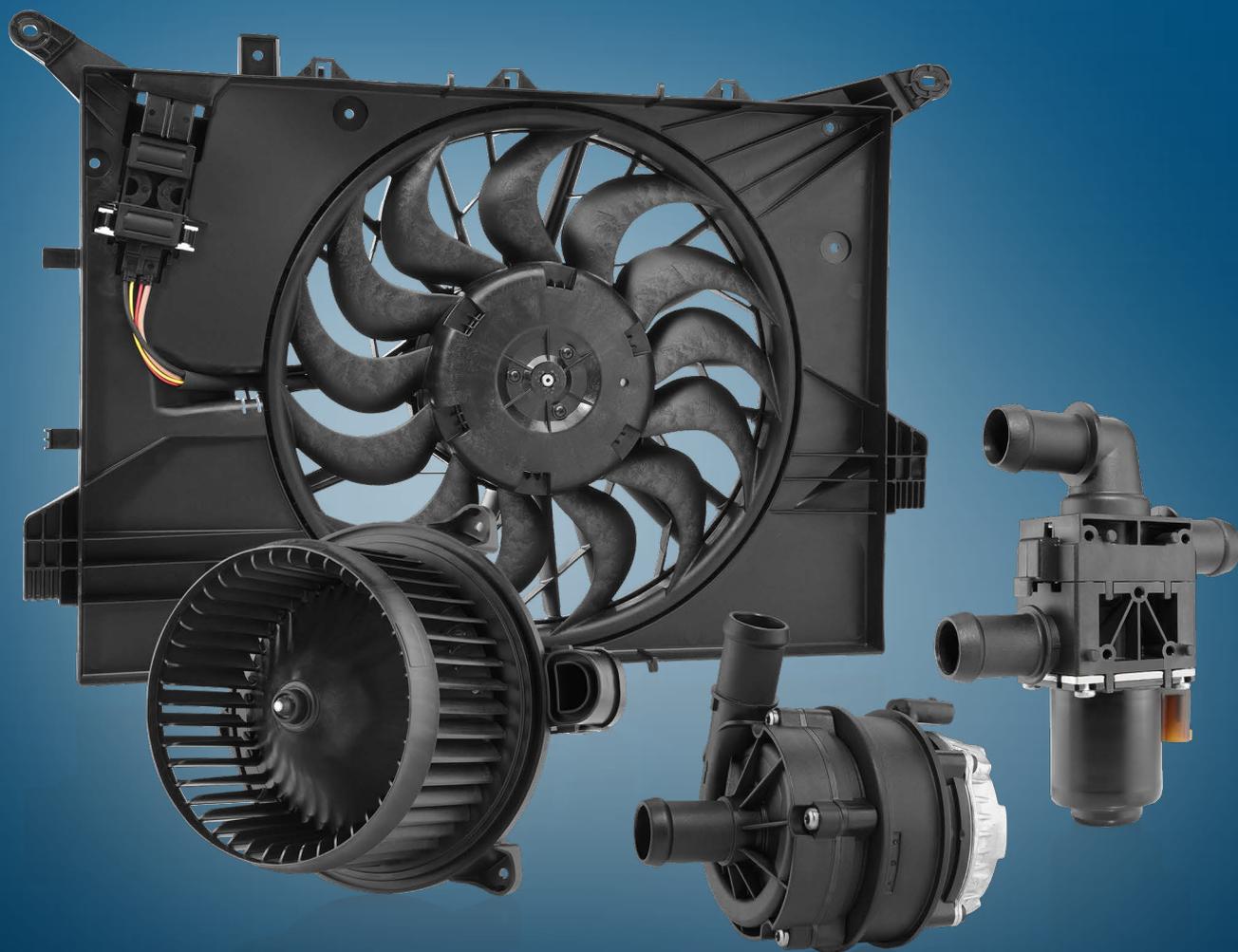
Invented for life



**BOSCH**

# Bosch thermal management

Spare parts for engine-cooling and climatic-comfort components



# Thermal management

## Overview

Profound knowledge of thermal systems in vehicles and decades of experience in development and production make Bosch a reliable partner for anything related to thermal management. This is also reflected in the comprehensive range of spare parts: Bosch supplies workshops with matching high-quality spare parts – no matter whether it is for climatic comfort or engine cooling.

### Thermal management

A vehicle's thermal management system makes sure that the components are operated at their optimum temperature range whilst ensuring comfortable temperatures for the occupants inside the cabin. Engine component temperatures, depending on the operating point, can lower both fuel consumption and emissions – and increase the range of electric vehicles.

### Engine cooling in line with the demands

Bosch engine cooling fans, electric coolant pumps and solenoid valves work reliably and prevent the engine overheating and possible damage to its components.

### A strong partner of workshops

As a strong partner, Bosch supports automotive workshops – with the aim of satisfying their customers demands and increasing profitability. For this purpose, Bosch provides a broad range of services related to the workshop business. This includes high-quality products, reliable services and efficient diagnostic equipment.

### Quick product availability

The international sales and logistics network ensures quick availability of Bosch spare parts.



# Electric coolant pump

## Product details

Bosch electric coolant pumps reliably and efficiently support different coolant circuits in both vehicles with combustion engines and electric vehicles. They are used for diverse applications; for example to support the heating circuits also in start/stop operation and to cool components such as turbochargers or the battery in hybrid and electric vehicles.



### Advantages at a glance

- **Highly-proven quality** thanks to production in line with OE quality guidelines
- **Long service life** of up to 30 000 hours due to high temperature and vibration resistance
- **Low failure risk** due to robust and compact design
- **Comprehensive product range** for 12/24-volt applications of different performance classes
- **Quick and easy installation**
- **Low noise level** due to optimized design and high testing and manufacturing standards



### Temperature sensor

Bosch temperature sensors **reliably measure** fuel, water, oil and air temperatures in order to ensure **flawless engine operation**.



# Solenoid valve

## Product details

Bosch solenoid valves ensure reliable control and monitoring of the coolant flow in secondary powertrain coolant circuits as well as for coolant circulation in line with the requirements in the case of cabin heating circuits. They are used for both vehicles with combustion engines and electric vehicles. Their high quality and robustness make them suitable for diverse applications.



### Advantages at a glance

- **Highly-proven quality** thanks to production in line with OE quality guidelines
- **Long service life** with up to 3 million switching cycles thanks to the high-quality materials used
- **Resistance to dirt and leak throughout the entire service life** thanks to a robust and compact design
- **Comprehensive range** for 12/24-volt applications meeting different requirements
- **Easy to install** thanks to perfectly fitting connections



### Timing belt kit with switchable water pump

The switchable water pump included in the kit **shortens the engine's warm-up phase**. Reaching operating temperature more quickly can reduce fuel consumption, depending on engine-relevant operating conditions.



# Engine cooling fans

## Product details

Bosch engine cooling fans reliably ensure air flow across the radiator thus preventing the vehicle engine from overheating – even at low speeds. The comprehensive range comprises high-quality engine cooling fans and complete modules.



### Advantages at a glance

- **Long service life** due to use of high-quality materials
- **Proven quality** thanks to rigorous standards in production and testing
- **Low-noise operation** due to accurate matching with the respective vehicle
- **Low failure rate** thanks to robust design
- **Increased functional reliability** due to protective functions integrated into the electric drive; for instance automatic shutdown in case of any obstructions, thermal fuse and reverse polarity protection



### Timing belt kit with water pump

Water pumps ensure the **circulation of coolant** required for heat dissipation. For water pumps driven by timing belts, the Bosch range includes specific timing belt kit with water pump.



# Cabin blower

## Product details

The particularly quiet Bosch cabin blowers ensure efficient temperature control in the vehicle cabin, even at the lowest settings. They feature a robust design and are manufactured according to strict production standards, ensuring a long service life.



### Advantages at a glance

- **Made from high-quality materials** according to strict production standards
- **Robust design** ensures reliable operation and a long service life
- **High efficiency**, even at the lowest level
- Brushless DC motor ensures **quiet operation**

### Cabin filter

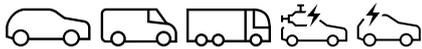
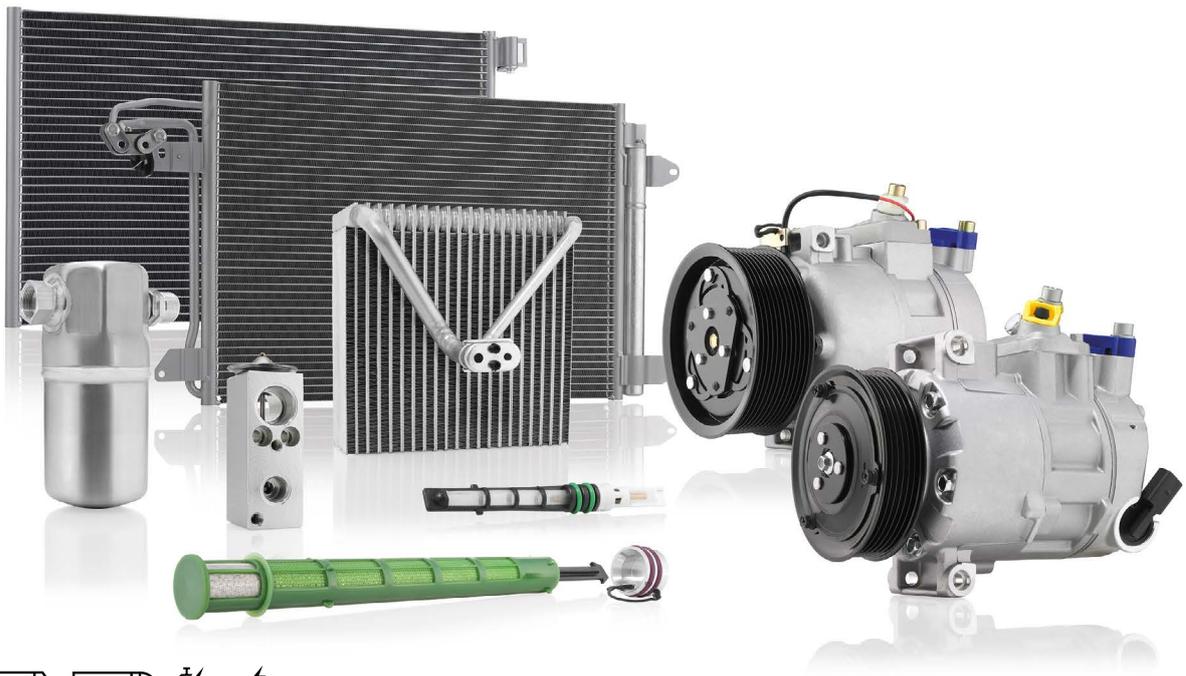
For the best possible air quality in the cabin, every AC service should include **replacing the cabin filter**. Bosch also recommends changing the cabin filter once a year or every 15,000 km.



# A/C components

## Product details

With its extensive program, Bosch is already a competent and reliable partner for the workshop when it comes to maintaining A/C systems. Beside the fully automatic ACS service units, the Bosch spare parts range also includes A/C compressors and condensers, dryers, expansion valves and evaporators, to support workshops in the case of repairs.



### Advantages at a glance:

- **Reliable performance and long service life** through rigorous endurance and leak tests based on Bosch's high quality standards
- **Easy to install** thanks to precisely fitting connections and compressors prefilled with oil
- **Comprehensive installation assistance** through multilingual installation instructions



### A/C service units

Easy and efficient maintenance of R1234yf and R134a A/C systems with Bosch's fully automatic A/C service units with up to 99% recovery rates.



# What drives you, drives us

Bosch technologies are used in most vehicles worldwide.  
People, and assuring their mobility, is what we are focused on.

Therefore, we have dedicated over 130 years of pioneering spirit  
and expertise in research and manufacturing to achieving this.

We provide the aftermarket and workshops worldwide with modern diagnostic and workshop  
equipment and a wide range of spare parts for passenger cars and commercial vehicles:

- solutions for efficient vehicle repairs
- innovative workshop equipment and software
- one of the world's most comprehensive ranges of new and exchange parts
- large network of wholesale customers, for quick and reliable parts supply
- competent hotline support
- comprehensive educational and training offers
- targeted sales and marketing support

**Find out more at:**  
[boschaftermarket.com](https://boschaftermarket.com)

## **Robert Bosch GmbH**

Auf der Breit 4  
76227 Karlsruhe  
Germany