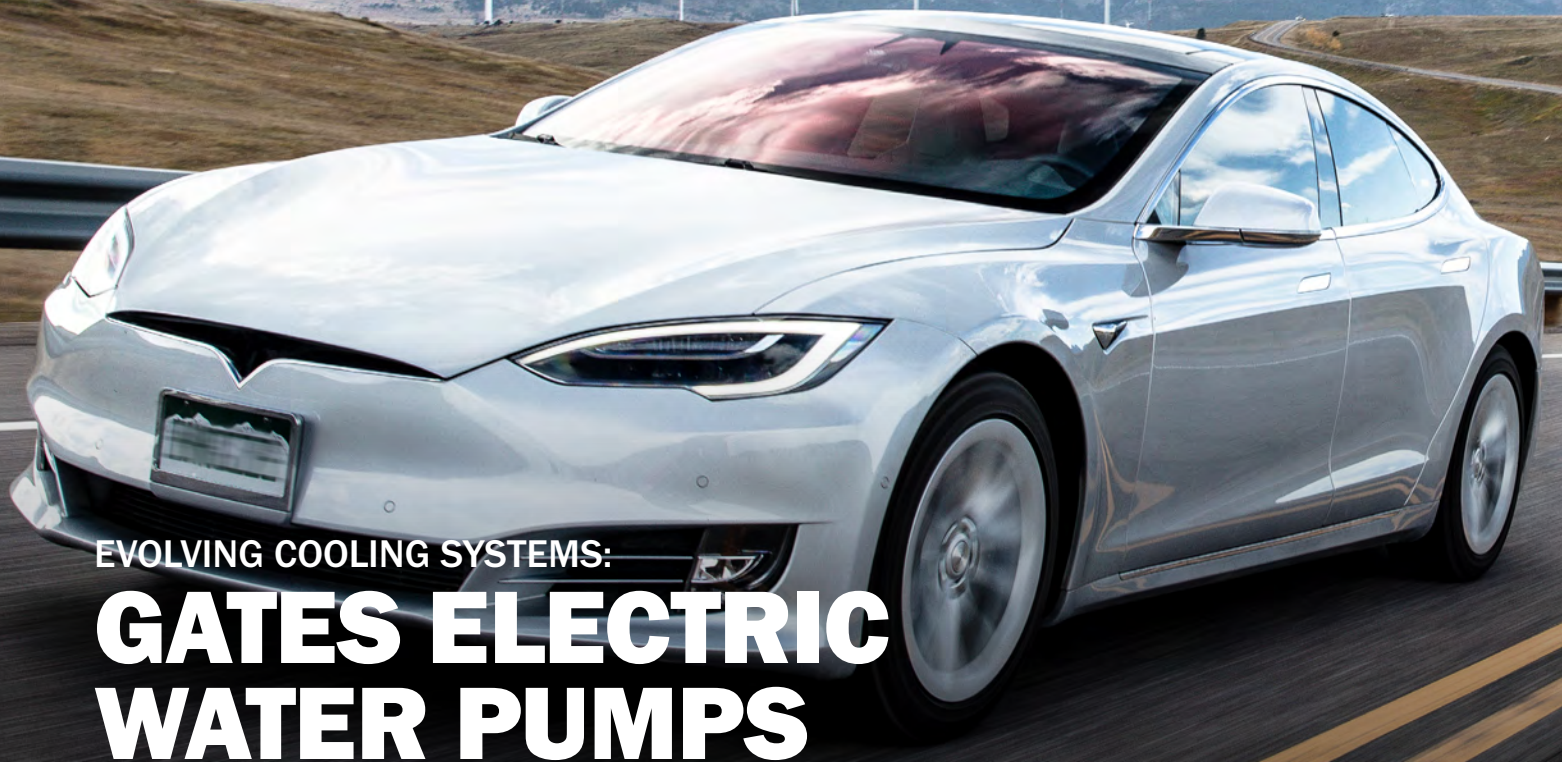




DRIVEN BY POSSIBILITY™



EVOLVING COOLING SYSTEMS:  
**GATES ELECTRIC  
WATER PUMPS**

With growing complex heating and cooling needs in the market, some newer vehicles require multiple electric water pumps. Gates electric water pumps feature OE-exact construction and cover more than 16.4 million vehicles in operation.

**FEATURES + BENEFITS**

- OE-exact design and fit
- Easy installation
- Convenient sourcing
- Broad coverage

# GATES ELECTRIC WATER PUMPS: **RAPID GROWTH OPPORTUNITY**

Electric water pumps are utilized on a growing number of newer vehicles that require high efficiency engines. Along with providing standard engine cooling, electric water pumps also reduce engine load and can be controlled by sensors to continuously optimize coolant flow. Some vehicles have multiple electric water pumps for temperature control on various systems including cabin heating, turbochargers and battery system cooling.



## **AUXILIARY PUMP APPLICATIONS**

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### ■ **BATTERY COOLING**

Hybrid and electric vehicles rely on electric water pumps to protect battery systems that can cost thousands to replace if damaged by overheating. Industry estimates indicate that at least 5.2 million hybrid and electric vehicles will be sold every year.

### ■ **TURBOCHARGER SYSTEM COOLING**

Approximately 28% of new vehicles are turbocharged. Some turbocharger systems are water cooled and utilize electric water pumps offering additional replacement opportunities.

### ■ **CABIN HEATING**

Electric water pumps are used in heating systems to quickly provide a warm and comfortable environment for passengers.

