



## NEWS

# Water-cooled condenser

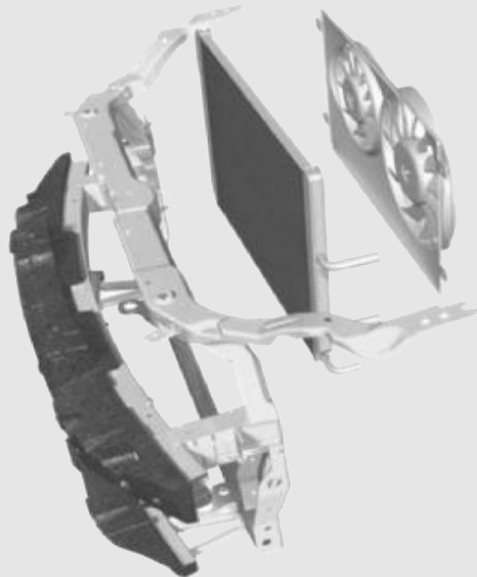
### Application for

Vehicles equipped with the system

## Water- cooled condenser



- **Water-cooled condenser** replace the **conventional A/C condenser**
- Due to **low cooling temperature**, it expel and extract the **heat** from the **refrigerant** in the **low temperature radiator**.
- **Heat exchange** occurs between the refrigerant (**R134a / HFO1234yf**) and the low temperature cooling fluid (**glycol**)
- **Reducing the pressure fluctuations** of the refrigerant in the A/C system due to the **inertia of the cooling fluid**.
- **Size reduced** compared to the conventional, allowing **additional components** to be **added** in the engine compartment and also **minimizing the quantity** of the **refrigerant**.
- As the location of the **water-cooled condenser removed** or **radiator stack** at the vehicle front end is **reduced**, the **pressure drop** or the **air flow** is **reduced** accordingly. this reduces the the fan electrical demands **improving fuel consumption**.



Website  
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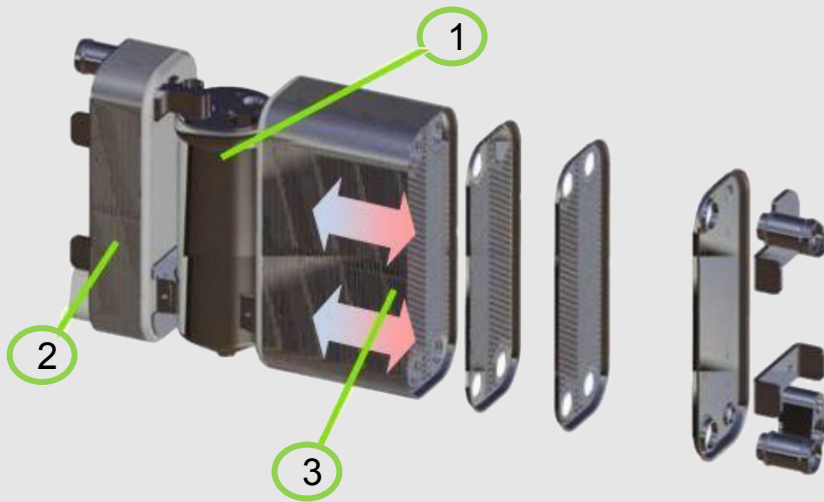
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## Water-cooled condenser structure

As the **thermal exchanges** are made **higher** with the **water cooled condenser**, the **A/C compressor** power consumption are **reduced**.



S	Item name
1	Receiver dryer
2	Sub-cooling (optional)
3	refrigerant condensation occurs during heat exchange

## Water-cooled condenser flow explanations

