

# THE SEVEN UFI THERMAL MANAGEMENT PRODUCT LINES IN DETAILS

## ENGINE OIL COOLER

Engine oil cooler (for combustion vehicles). They can be mounted as a stand-alone directly on the engine, customised to the needs of a specific application. Or integrated into the oil module together with the filter. Thanks to the combination with thermostatic valves and electrical sensors, they can ensure the best temperature control in the oil circuit.



## TRANSMISSION OIL COOLER

Transmission oil cooler (for all types of vehicles, conventional, hybrid and electric). They are fitted inside modern transmissions. Equipped with a thermostatic valve, their function is to keep the oil temperature in the optimal range for better operation and longer life of the transmission system, reducing consumption and vehicle emissions.



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## HEAT EXCHANGER FOR E-AXLES

Heat exchanger for e-axles (for electric vehicles). They play a key role in optimising the temperatures of the transmission and connecting the e-axis coolant with the rest of the cooling system. UFI Filters can supply both the single heat exchanger and the complete module, which integrates the oil filtration, thermal management and oil recirculation functions of the electric motor transmission.



## BATTERY CHILLER AND COOLANT BATTERY HEATER

Battery chiller and coolant battery heater (for hybrid and electric vehicles). These are fundamental for keeping the temperature of the battery pack under control according to the different operating conditions. In particular, battery chiller allow heat to be dissipated from the battery coolant using the refrigerant gas from the vehicle's air conditioning system, thanks to special expansion valves.



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## LIQUID-COOLED CONDENSER

Liquid-cooled condenser (for all vehicle types). Used whenever there is a refrigeration circuit on the vehicle, it offers a more compact solution in place of the air-cooled condenser (radiator). It uses water from a secondary circuit to lower the temperature of the refrigerant gas in the air conditioning system. It has the advantages of reducing the length of the refrigerant circuit (less gas used) and a smaller footprint. In addition, the heat may not be lost to the environment, but potentially reused (in winter) in the vehicle system for heating the passenger compartment. It can be supplied together with an accumulator-dryer, whose function is to filter out contaminants and moisture in the refrigerant circuit.



## COOLANT FLOW VALVE

Coolant flow valve (for hybrid and electric vehicles). To modify the path of the thermal coolant circuit according to the thermal requirements of the battery, electric motor/e-axle and power electronic.



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