COOLING SYSTEM ADVANCED

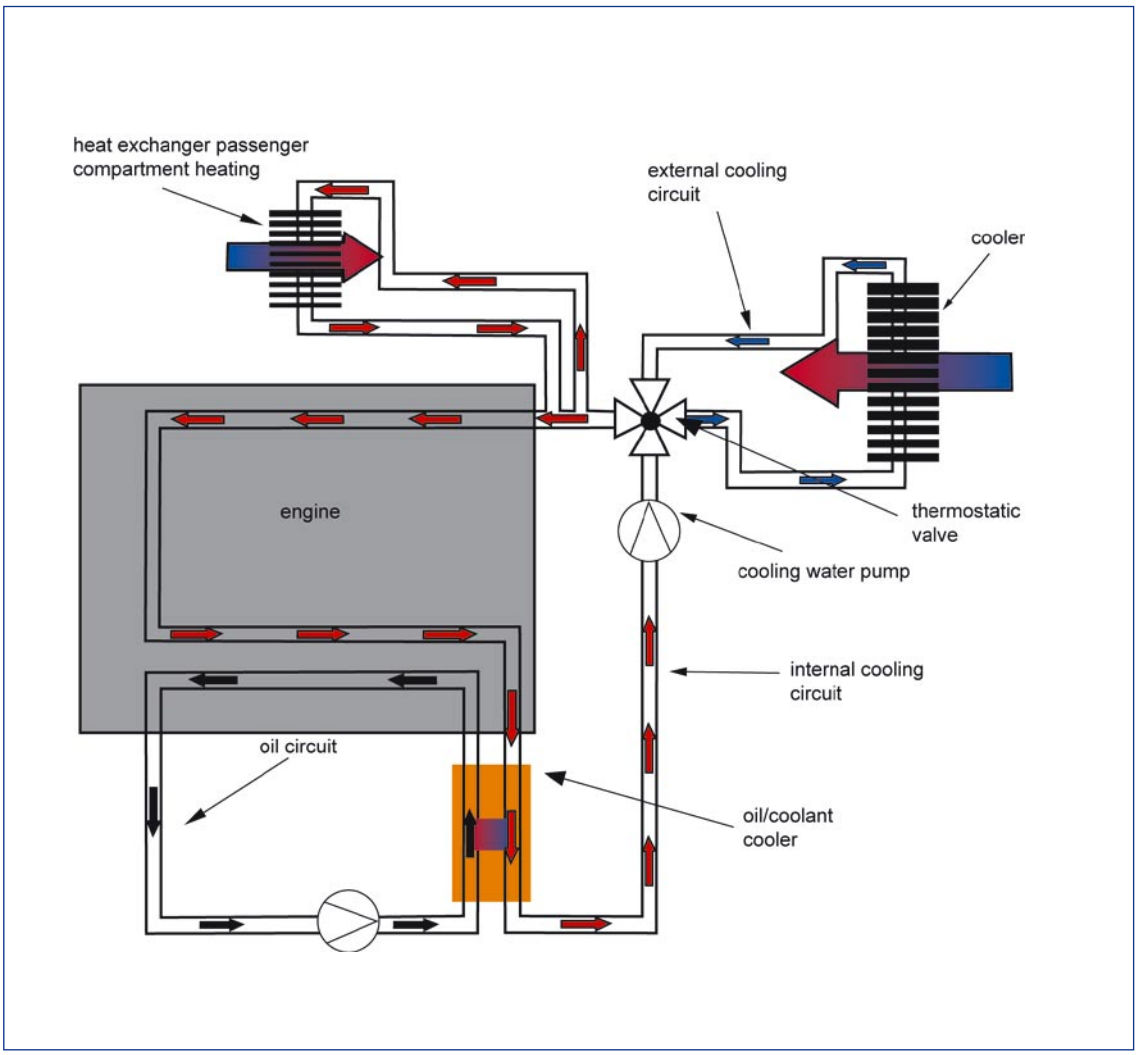
The Cooling System Advanced enables the function development for the heat management as well as the investigations of the engine's thermal behaviour e.g. during OBD relevant tests.

The model in its standard configuration simulates a double-circuit cooling system containing an inner and an outer cooling water circuit, a heatable thermostatic valve and different types of fans.

The Cooling System Advanced calculates the relevant states of the cooling system, such as:

- Mean engine block temperature
- Oil temperature
- Coolant temperature of the inner and outer cooling water circuit
- Air temperature after flowing through the cooler
- Air temperature after flowing through the heat exchanger

To simulate the heating behaviour and thus the dynamic temperature behaviour of the different elements of the Advanced Cooling System, these are modelled as thermally inert masses.



Layout of the Cooling System Advanced Model